

EIA Application - Attachment 2a

AER Terms of Reference

Updated October 17, 2018

REGULATORY SUBMISSIONS FOR THE GRASSY MOUNTAIN COAL PROJECT

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Addendum 8	October 17, 2018	Response to CEAA Conformity IRs Response to CEAA Round 2 Technical IRs Response to AER Round 2 Technical IRs Updated Concordance Tables (October 2018)	Number not yet assigned

TABLE 1 AER Final Terms of Reference Environmental Impact Assessment Report for Benga Mining Limited (Benga Mining) Proposed Grassy Mountain Coal Project Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
ToR No.	AER ToR Description	Reference Section in Application (EIS, Aug 2016)	Addendum#
1.0	PURPOSE OF THE TERMS OF REFERENCE		
	The purpose of this document is to identify Benga Mining Limited (Benga Mining) the information require by government agencies for an environmental impact assessment (EIS) report prepared under the <i>Environmental Protection and Enhancement Act (EPEA)</i> as it relates to the Grassy Mountain Coal Project (the project).		
2.0	SCOPE OF THE EIA REPORT		
	Benga Mining will prepare and submit an EIA report that examines the environmental and socio- economic impacts of the entire Project. The EIA report will be a standalone document providing environmental and socioeconomic data, results, and analysis for the project area, local study areas, and regional study areas, including a cumulative effects assessment. The EIA report will also include information on aboriginal consultation and public engagement done for the project. Benga Mining will consider all applicable provincial and federal legislation, codes of practice, guidelines, policies, standards, and directives in conducting the EIA. The EIA report will be prepared in accordance with these terms of reference, the environmental information requirements prescribed under <i>EPEA</i> and associated regulations, and the <i>Canadian Environmental Assessment Act (CEAA)</i> if applicable. The EIA report will form part of Benga Mining’s application to the Alberta Energy Regulator (AER). Benga Mining will refer to the <i>Guide to Preparing Environmental Impact Assessment Reports in Alberta</i> (the guide), published by Alberta Environment, and these terms of references when preparing the EIA report. In any case, where there is a difference in requirements between the guide and these terms of reference, the terms of reference shall take precedence.	Sections A to H Appendices 1 to 9 CR #1 to 12	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1
3.0	CONTENT OF THE EIA REPORT		
3.1	PUBLIC ENGAGEMENT AND ABORIGINAL CONSULTATION		
	[A] Describe the concerns and issues expressed by the public and the actions taken to address those concerns and issues, including how public input was incorporated into the Project development, impact mitigation and monitoring.	G.4 to G.6	Addendum 8, Part C, SIR# AER 43, 47
	[B] Describe the concerns and issues expressed by aboriginal communities and the actions taken to address those concerns and issues, including how aboriginal community input was incorporated into the Project design, EIA development, impact mitigation, monitoring and reclamation. Describe consultation undertaken with aboriginal communities and groups with respect to traditional ecological knowledge and potential impacts on current use of land and water resources for traditional purposes.	H.3 to H.13 Appendix 7a, b, c F.1.8, F.1.9, F.2.9, F.2.4, F.3.3	Addendum 5 (CEAA Doc#69), SIR #1-46 Addendum 5 (CEAA Doc#69), Appendix A-1 and A-2 Addendum 8, Part C, SIR# AER 43, 47, 49, 50, 51, 52, 53, 54-67, 69-73
	[C] Describe plans to maintain the public engagement and aboriginal consultation processes following completion of the EIA report to ensure that the public and aboriginal peoples will have an appropriate forum for expressing their views on the ongoing development, operation and reclamation of the Project.	G.6 H.1.1	Addendum 5 (CEAA Doc#69), SIR #17, 20, 28, 46, 50
	[D] Describe the efforts to obtain public input and identify concerns with the proposed project, including public consultation methods, locations, and timing.	G.3	--
3.2	PROJECT DESCRIPTION		
3.2.1	Overview		
	[A] Provide a project description in sufficient detail to provide context for the EIA, including the following:		
	a) Background on the proponent, with specific reference to existing operation, proposed operations, mineral resources, environmental studies, and community involvement;	A.1, A.2, A.3, A.6, A.8, A.9, A.10	--

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	b) a development plan that outlines:		
	i. the phases of development;	C.1.3 Figure C.1.3-1 to C.1.3-26	--
	ii. transportation, infrastructure and access routes;	C.3, C.4.1 to C.4.3	--
	iii. activities associated with each stage of the Project; and	C.1.3.1 to C.1.3.5	--
	iv. impacts from a delay in proceeding with the Project, or any phase of the Project or not going ahead with the Project.	A.2.7	--
	[B] Provide maps and drawings for the Project components and activities that include:		
	a) existing infrastructure, leases and clearings, including exploration clearings;	CR #10 Figure 3.1-1, 4.3-1, 4.4-1, 4.4-2, 4.5-2, 4.6-1, 4.8-1	--
	b) the extent of mine excavation and dump areas in each stage of the Project;	C.1, Figure C.1.3-1 to C.1.3-26	--
	c) coal recovery and processing facilities;	C.2, Figure C.2.4-1, C.2.5-2, C.2.6-2, C.2.6-3, C.2.6-5, C.2.6-12 to C.2.6-16	--
	d) dewatering and water control facilities;	C.2, Figure C.2.5-1, C.2.6-11	--
	e) other buildings and infrastructures, including temporary facilities (e.g., conveyors, power lines and utilities);	C.2, C.6 Figure C.2.4-1, C.6.0-1, C.6.1-1, C.6.8-1, C.6.11-1	--
	f) containment structures such as retention ponds and storage ponds (e.g., stormwater runoff);	C.5, Figure C.5.3-1 to C.5.3-4	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2
	g) water wells/intakes, pipelines, and storage structures;	CR #3 , Figure 4.6-3	--
	h) waste storage, transfer treatment and disposal sites;	C.1.3, Figure C.1.3-1 to C.1.3-26	--
	i) field maintenance operations; and	C.6, Figure C.6.0-1, C.6.1-1	--
	j) sources of aggregate resources, borrow material and other construction material and locations of any stockpiles that will be developed.	A.1, Figure A.1.0-2	--
	[C] Describe the primary resource recovery process, any proposed follow-up recovery process and other related processes and process facilities of the Project.	C.1.1, C.1.8, C.2.1, C.2.3	--
	[D] Discuss the amount and source of energy required for the Project.	C.6.15	--
	[E] Describe the proposed method to transport product to markets.	C.3.1, C.3.2	--
	[F] Provide a list of facilities for which locations will be determined later.	C.1.7	--
	[G] Provide the adaptive management approach that will be implemented throughout the life of the Project. Include how monitoring, mitigation and evaluation were incorporated.	C.7.6.1 F.2.3	--
3.2.2	Constraints		
	[A] Discuss the process and criteria used to identify constraints to development, and how the Project has been designed to accommodate those constraints. Include the following:		
	a) any applicable Regional Plan as per the <i>Alberta Land Stewardship Act (ALSA)</i> , as well as others such as the <i>Approved Water Management Plan for the South Saskatchewan River Basin (Alberta)</i> ;	A.7.5, C.5.1.2, F.1.6 CR #10, Section 4.2.1 to 4.2.4, 4.2.6	Addendum 2 (CEAA Doc#53), C.5.1
	b) land-use policies and resource management initiatives that pertain to the project;	CR #10, Section 3.2, 3.3	--

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	c) Aboriginal traditional land and water use;	H.2.0 (assessment methods) H.3.8, H.4.8, H.5.8, H.6.8, H.7.8, H.8.5, H.9.8, H.12.8 (issues/concerns and Benga responses)	--
	d) all known traplines;	CR #10, Section 3.2, 3.3	--
	e) the environmental setting;	F.1.3	--
	f) cumulative environmental impacts in the region;	F.1.5, F.4	--
	g) cumulative social impacts in the region;	E.11.4 CR #11, Section 2.1, 2.2, 2.4 to 2.6	--
	h) results of Project-specific or regional monitoring;	F.1.5, F.1.6	--
	i) potential for new or additional technology to increase resource recovery at later times; and	C.1.8	--
	j) potential for changes in the regulatory regime.	C.7.4	--
3.2.3	Regional And Cooperative Efforts		
	[A] Discuss the Proponent's involvement in regional and cooperative efforts to address environmental and socio-economic issues associated with regional development.	F.1.7, F.1.8, F.1.9 CR #11, Section 7.4	Addendum 5 (CEAA Doc#69), SIR #53 Addendum 8, Part C, SIR# AER 42
	[B] Describe opportunities for sharing infrastructure (e.g., access roads, utility corridors, water infrastructure) with other resource development stakeholders. Provide rationale where these opportunities will not be implemented.	A.6.5	--
3.2.4	Transportation		
	[A] Prepare a Traffic Impact Assessment as per Alberta Transportation's <i>Traffic Impact Assessment Guideline</i> (http://www.transportation.alberta.ca/613.htm).		
	a) describe background traffic and consider the cumulative effects of traffic impacts due to other	C.4.4.1 Appendix 8, Section 3.1, 3.3 CR #11, Section 10.2, 10.3.2, 10.3.3	--
	b) existing and planned developments using the same highways and accesses.	C.4.4.1 Appendix 8 Section 3.1, 3.3	--
	c) discuss anticipated changes to highway traffic (e.g., type, volume) due to the Project.	C.4.4.1 Appendix 8 Section 3.3 CR #11, Section 10.2, 10.3.2	--
	d) assess potential traffic impacts for all stages of the Project (e.g., construction, operation, maintenance, expansion, shutdown).	Appendix 8 Section 4.1	--
	e) determine any necessary improvements and methods to mitigate traffic impacts.	Appendix 8 Section 4.3 CR #11, Section 10.4	--
	[B] Describe and map the locations of any new road or intersection construction, or any improvements to existing roads or intersections, related to the development of the Project, from the boundary of the Project Area up to and including the highway access points.	C.4.1 to C.4.3 Figure C.3.1-1, C.4.1-1, C.4.1-2	--
	a) discuss the alternatives and the rationale for selection for the preferred alternative;	---	--
	b) discuss compatibility of the preferred alternative to Alberta Transportation's immediate and future plans;	C.4.4.2	--

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	c) describe the impacts to local communities of the changes in transportation and infrastructure; and	CR #11 , Section 10.3, 10.4	--
	d) provide a proposed schedule for the work.	C.4.4.1	---
	[C] Describe any infrastructure or activity that could have a potential impact on existing roads (e.g., pipelines or utilities crossing provincial highways, any facilities in close proximity of the highways, any smoke, dust, noise, light or precipitation generated by the Project that could impact the highway and road users).	C.3.1 Figure C.3.1-1	--
	[D] Provide a summary of any discussions with Alberta Transportation in regards to the Project and its traffic impacts.	C.4.4.2	--
3.2.5	Air Emissions Management		Addendum 5 (CEAA Doc#69), SIR #76-78
	[A] Discuss the selection criteria used, options considered, and rationale for selecting control technologies to minimize air emission and for air quality management.	CR#1a, Section 6.6, Appendix A provides information on emission model parameters, which inherently contain mitigations.	Addendum 8, Part C, SIR# AER 1
	[B] Provide emission profiles (type, rate and source) for the Project's operating emissions including point and non-point sources and fugitive emissions (including mine faces), and for construction emissions. Consider both normal and upset conditions. Discuss:	CR #1a Air Quality, Section 4 , Appendix A Section 4 to 10	--
	a) odorous or visible emissions from the proposed facilities;	E.1.3.1, E.1.3.3 CR #1a, Section 4.5; Appendix A, Section 6	--
	b) annual and total greenhouse gas emissions for all stages of the Project. Identify the primary sources and provide examples of calculations;	E.1.3.4 CR #1a, Section 4.3; Appendix A, Section 8	--
	c) the Project's contribution to total provincial and national greenhouse gas emissions on an annual basis;	CR #1a, Section 4.3; Appendix A, Section 8.2	--
	d) the Proponent's overall greenhouse gas management plans;	C.7.9	--
	e) the Proponent's plans to manage emissions from the mining fleet;	CR #1a, Section 6.6	Addendum 5 (CEAA Doc#69), SIR #77, 78
	f) the amount and nature of criteria air contaminant emissions; and	E.1.3.1, E.1.3.3, E.1.5.1 CR #1a, Section 4.2; Appendix A, Table A10-1	--
	g) the amount and nature of acidifying emissions, probable deposition patterns and rates.	E.1.3.1, E.1.3.3 CR #1a, Section 4.2.4, 5.8, 5.9; Table 4.2-8 (see NO _x and SO ₂); Figure 5.8-1, 5.8-2, 5.9-1, 5.9-2	--
3.2.6	Water Management		
3.2.6.1	Water Supply		
	[A] Describe the water supply requirements for the Project, including:		
	a) the criteria used, options considered and rationale for selection of water supply sources(s);	A.7.10 C.5.1	Addendum 2 (CEAA Doc#53), C.5.1 Addendum 5 (CEAA Doc #69), SIR #210, 211
	b) the expected water balance during all stages of the Project. Discuss assumptions made or methods chosen to arrive at the water balances;	C.2.5.1, C.5.4 Appendix 10B	Addendum 5 (CEAA Doc #69), SIR #204-208, 210 Addendum 7, (CEAA Doc#72), SIR #206, 207
	c) the process water, potable water, and non-potable water requirements and sources for construction, start-up, normal and emergency operating situations, decommissioning and reclamation. Identify the volume of water to be withdrawn from each source, considering plans for wastewater reuse;	C.2.5.1, C.5.1	Addendum 2 (CEAA Doc#53), C.5.1 Addendum 5 (CEAA Doc#69), SIR #212

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	d) the location of sources/intakes and associated infrastructure (e.g., pipelines for water supply);	C.5.1.2, C.5.2, Table C.5.2-1	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2 Addendum 5 (CEAA Doc #69), SIR #207, 208, 210 Addendum 7, (CEAA Doc#72), SIR #207
	e) the variability in the amount of water required on an annual and seasonal basis as the Project is implemented;	C.5.1.1	Addendum 2 (CEAA Doc#53), C.5.1
	f) the expected cumulative effects on water losses/gains resulting from the Project operations;	CR #4, Section 5.1, 6	Addendum 7, (CEAA Doc#72), SIR #207 Addendum 8, Part C, SIR# AER 7
	g) potable water treatment systems for all stages of the Project;	C.6.12, C.6.13, C.6.17	Addendum 5 (CEAA Doc#69), SIR #79
	h) type and quantity of potable water treatment chemicals used; and	C.6.12, C.6.13	--
	i) measures for ensuring efficient use of water including alternatives to reduce the consumption of non-saline water such as water use minimization, recycling, conservation, and technological improvements	A.7.10	--
3.2.6.2	Surface Water		
	[A] Describe the surface water management strategy for all stages of the project, including:		
	a) design factors considered, such as:		
	i. site drainage,	C.5.3.2, C.5.4 F.4.4.1	Addendum 5 (CEAA Doc#69), SIR #80 Addendum 7 (CEAA Doc#72), SIR #80
	ii. run-off management,	C.5.3.2, C.5.3.3, C.5.4, C.5.5.1, C.5.5.3	Addendum 5 (CEAA Doc#69), SIR #80 Addendum 7 (CEAA Doc#72), SIR #80 Addendum 8, Part C, SIR# AER 3, 15, 36
	iii. road and plant run-off,	C.5.3.2, C.5.3.3, C.5.5.1	--
	iv. erosion/sediment control,	C.5.3.2 F.4.4.4	Addendum 5 (CEAA Doc#69), SIR #80, 87, 206 Addendum 7 (CEAA Doc#72), SIR #80, 206 Addendum 8, Part C, SIR# AER 5, 6, 12, 16, 19
	v. geotechnical stability concerns,	Appendix 9b, Section 4, 5, 6	--
	vi. groundwater and surface water protection,	C.5.3, C.5.4 F.4.4.2, F.4.4.3	Addendum 5 (CEAA Doc#69), SIR #80 Addendum 7 (CEAA Doc#72), SIR #80 Addendum 8, Part C, SIR# AER 10
	vii. mine pit dewatering,	C.5.3.2, C.5.3.4.2, C.5.4, C.5.5.1 to C.5.5.3	--
	viii. groundwater seepage, and	C.5.4	--
	ix. flood protection;	C.5.3.3, C.5.5.1 to C.5.5.3	--
	b) permanent or temporary alterations or realignments of watercourses, wetlands and other waterbodies;		Addendum 1 (CEAA Doc#44), CR#6 Section 3 and 4
	c) the pre and post-disturbance alignment and condition of all ephemeral and permanent streams, wetlands and waterbodies including those created by the Project; and	F.4.4	--

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	d) factors used in the design of water management facilities that are in accordance with <i>Water (ministerial) Regulation, Part 6 (Dam and Canal Safety)</i> , as well as the Canadian Dam Safety Association <i>Dam Safety Guidelines</i> , including expected flood and flood protection.	C.5.3.4, C.5.5.1, C.9.5.2 Table C.5.5-1, C. 5.5-4, C. 5.5-5, C.5.5-8 Appendix 10B CR #5, Section 4.6	Addendum 5 (CEAA Doc#69), SIR #203
	[B] Describe and map crossings of watercourses or waterbodies (including bridges, culverts and pipelines) required.	C.3.1, C.5.3 Figure C.3.3-1, C.5.3-1 to C.5.3-4	--
	[C] Describe discharges to the surrounding watershed from existing and reclaimed sites, including potential end pit lakes and the management strategy for handling such releases.	C.5.3.3, C.5.3.5, C.5.4, C.5.5.1, C.5.5.2 F.3.6.4, F.4.4.1, F.4.5.7 Appendix 10C	Addendum 5 (CEAA Doc#69), SIR #91, 92, 94 Addendum 8, Part C, SIR# AER 6, 12, 16, 28, 32
3.2.6.3	Wastewater Management		
	[A] Describe the wastewater management strategy for the Project, including:		
	a) the source, quantity and composition of wastewater streams from each component of the proposed operation (<i>e.g.</i> , coal mining, coal processing) for all Project conditions, including normal, start-up, worst-case and upset conditions;	C.5.4	Addendum 5 (CEAA Doc#69), SIR #102, 103 Addendum 8, Part C, SIR# AER 22, 32, 33
	b) the design of facilities that will handle, treat and store wastewater streams, including measures to prevent or minimize potential impacts to the environment, and the type and quantity of any chemicals used in the wastewater treatment;	C.5.5 Appendix 10C CR #4, Section 5.1	Addendum 5 (CEAA Doc#69), SIR #80, 85, 86, 88-95, 98, 99 Addendum 7 (CEAA Doc#72), SIR #80 Addendum 8, Part C, SIR# AER 5, 10, 13, 14, 15, 16, 17, 19, 20, 23, 32
	c) the options for wastewater treatment, including the rationale for selecting the preferred options, and a discussion of why the other options were not chosen;	A.7.6 C.5.4, C.5.5	Addendum 5 (CEAA Doc#69), SIR #86, 88, 91, 96, 99, 103, 104 Addendum 8, Part C, SIR# AER 11, 13, 17, 18, 22, 23
	d) the options for the disposal of wastewater in the context of best management practices and best available technologies, including the rationale for choosing the preferred option and the measures taken to prevent impacts on potable groundwater, aquatic ecosystems and vegetation;	A.7.6 C.5.4, C.5.5	Addendum 8, Part C, SIR# AER 17, 20
	e) how make-up water requirements and disposal volumes will be minimized;	A.7.5 C.2.5.1, C.5.4	--
	f) the potable water and sewage treatment systems for both the construction and operation stages. Discuss the sewage treatment system options considered including the rationale for the option selected; and	C.6.12, C.6.13	Addendum 5 (CEAA Doc#69), SIR #196, 212
	g) a monitoring plan for wastewater releases, including the rationale used to determine the frequency of sampling and the parameters to be measured.	A.11.5.2, A.11.5.3 C.5.7, C.5.8	Addendum 8, Part C, SIR# AER 24
3.2.7	Waste Management		
	[A] Discuss the selection criteria used, options considered, and rationale for waste disposal. Discuss the strategy for on-site waste disposal versus off-site waste disposal.	A.7.2, Figure A.7.2-1	Addendum 5 (CEAA Doc#69), SIR #75
	[B] Characterize and quantify the anticipated dangerous goods, and hazardous, non-hazardous, and recyclable wastes generated by the Project, and:		
	a) describe the composition and volume of specific waste streams and discuss how each stream will be managed;	C.1.2.5, C.1.3.1, C.2.3.2, C.2.3.3.5 Table C.1.2-2. C.1.3-1	Addendum 5 (CEAA Doc#69), SIR #73, 74, Addendum 8, Part C, SIR# AER 3, 41

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	b) describe the management plan for exploratory drilling wastes, overburden and other mining wastes, as well as any by-products;	C.1.3, C.1.5.3, C.5.4	--
	c) describe how any disposal sites will be constructed; and	B.8.6.3.2 C.1.1	--
	d) describe plans for pollution prevention, waste minimization, recycling, and management to reduce waste quantities over the life of the Project.	C.7.2	Addendum 8, Part C, SIR# AER 3, 41
	[C] Provide a list of chemical products to be manufactured, processed or otherwise used for the Project and describe, in general terms, how these products will be stored and managed. Identify products containing substances that are:		
	a) toxics under the <i>Canadian Environmental Protection Act, 1999</i> ;	C.2.8.5.2, C.8.3.3	--
	b) listed on the National Pollutant Release Inventory;		
	c) dangerous goods as defined by the federal Transportation of Dangerous Goods Act; and	C.2.8.5.2	--
	d) on the Domestic Substances List and categorized as requiring further assessment under Canada's Chemicals Management Plan.	C.2.4.6.6 Table C.2.4-1	--
	[D] Describe the nature and amount of on-site hydrocarbon storage. Discuss containment and other environmental protection measures.	C.2.8.5.2, C.6.6, C.6.10	Addendum 8, Part C, SIR# AER 41
3.2.8	Conservation And Reclamation		Addendum 5 (CEAA Doc#69), SIR# 113-119
	[A] Provide a conceptual conservation and reclamation plan for the Project. Describe and map as applicable:		
	a) any existing Conservation and Reclamation Plan;	No existing plan	--
	b) current land use and capability and proposed post-development land use and capability;	F.2.1.5, Table F.2.1-2, Figure F.2.1-5, F.2.1-6 CR #7, Section 4.5, 4.5.1, 4.5.2; Table 4.5-1 to 4.5-4, 4.5-5	Addendum 5 (CEAA Doc#69), SIR #123 Addendum 8, Part C, SIR# AER 43
	c) anticipated timeframes for completion of reclamation stages and release of lands back to the Crown including an outline of the key milestone dates for reclamation and how progress to achieve these milestones will be measured;	F.2.2, F.3.6 Figure F.3.6-1 to F.3.6-8	Addendum 8, Part C, SIR# AER 22, 33
	d) constraints to reclamation such as timing of activities, availability of reclamation materials and influence of natural processes and cycles including natural disturbance regimes;	F.2.4 CR#7, Section 7.1, 7.4	Addendum 8, Part C, SIR# AER 26
	e) post-development land capability with respect to:		
	i. self-sustaining topography, drainage and surface watercourses representative of the surrounding area,	F.4.1, F.4.4.1, F.4.4.3, F.4.5 CR #7, Section 7.4.1	Addendum 5 (CEAA Doc#69), SIR #124
	ii. existing traditional use with consideration for traditional vegetation and wildlife species in the reclaimed landscape,	F.1.9, F.2.1.9, F.3.6.3.1	--
	iii. end pit lakes,	F.3.6.4, F.4.4.1, F.4.5.7	Addendum 8, Part C, SIR# AER 8
	iv. wetlands,	F.3.6.3, F.4.4.3, F.4.5.4	Addendum 5 (CEAA Doc#69), SIR #118 Addendum 8, Part C, SIR# AER 8, 26
	v. self-sustaining vegetation communities representative of the surrounding area capable of ecological succession, and	F.3.6.3, F.4.3	--

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	vi. reforestation and forest productivity;	F.3.6.3, F.4.5	--
	f) a revegetation plan for the disturbed terrestrial, riparian and wetland areas;	F.3.6.3 CR #8, Section 4.1.5.1	Addendum 5 (CEAA Doc#69), SIR #117 Addendum 8, Part C, SIR# AER 26
	g) water supply capability of post-mine landscape;	F.4.4, F.4.5.4, F.4.5.7 CR #4, Section 5.1	--
	h) reclamation material salvage, storage areas and handling procedures;	F.2.1.5, F.3.4, F.3.5, Figure F.1.2-1 CR #7, Section 4.1, 4.2, 7.1, 7.4	Addendum 5 (CEAA Doc#69), SIR #121, 122 Addendum 8, Part C, SIR# AER 39, 40
	i) reclamation material replacement indicating depth, volume and type;	F.3.6.2, F.4.2, Table F.2.2-2 CR #7, Section 7.1	Addendum 5 (CEAA Doc#69), SIR #121, 122, 123
	j) existing and final reclaimed site drainage plans;	F.4.4.1, F.4.5.4 CR #7, Section 7.2.3, 7.3.3, 7.4.1	--
	k) integrating surface and near-surface drainage within the Project Area; and	F.4.4 Figure F.4.4-1	--
	l) promotion of biodiversity.	F.2.5, F.3.7 CR #7, Section 7.2 CR#8, Section 4.8.4 CR #9, Section 7.1	--
	[B] Provide a map of the predicted Ecological Land Classification map for the post reclamation landscape considering potential land uses, including traditional uses and how the landscape and soils have been designed to accommodate future land use.	F.1.6, F.1.9, F.4.1, F.4, Figure F.3.6-7	Addendum 8, Part C, SIR# AER 43
	[C] Provide a conceptual plan to monitor reclamation performance and success (including soils, vegetation, wildlife and aquatic resources).	F.3.9.3 E.6.3.2, E.7.5.2, E.8.5.2, E.9.5.2 CR #6, Section 6 CR #7, Section 7.1.3, 7.2.3, 7.3.3, 7.4.3	--
	[D] Describe how the Proponent considered the use of progressive reclamation in project design and reclamation planning.	C.1.3, Figure C.1.3-1 to -26 F.2.2, F.3.6, F.4	--
	[E] Discuss uncertainties related to the conceptual reclamation plan.	F.2.4	--
4.0	ENVIRONMENTAL ASSESSMENT		
4.1	AIR QUALITY, CLIMATE AND NOISE		
4.1.1	Baseline Information		
	[A] Discuss the baseline climatic and air quality conditions including:		
	a) the type and frequency of meteorological conditions that may result in poor air quality; and	E.1.2.1 CR #1a, Section 3.2; Appendix C, Section 4; Appendix B, Section 3.2 to 3.4	--
	b) appropriate ambient air quality parameters.	E.1.2.2 CR #1a, Section 3.1; Appendix C, Section 3	--
	[B] Provide representative baseline noise levels at receptor locations.	E.2b.2 CR #2b, Section 3.1	--

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4.1.2	Impact Assessment		
	[A] Identify components of the Project that will affect air quality, and:		
	a) describe the potential for reduced air quality (including odours and visibility) resulting from the Project and discuss any implications of the expected air quality for environmental protection and public health;	E.1.3 CR #1a, Section 5 CR #12, Section 6.4, 7.1 to 7.3	--
	b) estimate ground-level concentrations of appropriate air quality parameters;	E.1.3.3 CR #1a, Section 5.1 to 5.6	--
	c) discuss any expected changes to particulate deposition, nitrogen deposition or acidic deposition patterns;	E.1.3.3.7, E.1.3.3.8 CR #1a, Section 5.7 to 5.9	--
	d) identify areas that are predicted to exceed Potential Acid Input (PAI) critical loading criteria;	E.1.3.3.9 CR #1a, Section 5.9, Figure 5.9-1, 5.9-2 CR #7, Section 4.4, Figure 4.4-1	--
	e) discuss interactive effects that may occur resulting from co-exposure of a receptor to all emissions; and	CR #12, Section 5.2.2, 5.3.2, 6.3, 7.	--
	f) describe air quality impacts resulting from the Project, and their implications for other environmental resources, including habitat diversity and quantity, soil resources, vegetation resources, and water quality.	E.1.4, E.1.5 E.7.2.5, E.8.3.10, E.9.3.5, E.12.6 CR #1a, Section 6.3 CR #5, Section 4.5 CR#7, Section 4.4, Figure 4.4-1 CR#8, Section 4.10.1 CR #12, Section 8, Appendix H	--
	[B] Identify stages or elements of the Project that are sensitive to changes or variability in climate parameters, including frequency and severity of extreme weather events. Discuss what impacts the change to climate parameters may have on elements of the Project that are sensitive to climate parameters.	E.1.2.1, E.1.3.5.3 CR #1, Section 5.14	--
	[C] Identify components of the Project that have the potential to increase noise levels and discuss the implications. Present the results of a noise assessment. Include:		
	a) potentially-affected people and wildlife;	E.2a.1 CR #2a, Section 5.0 CR #2b, Section 4.2, 5.0	--
	b) an estimate of the potential for increased noise resulting from the development; and	E.2a.3, E.2b.3 CR #2a, Section 5.0 CR #2b, Section 4.2, 5.0	Addendum 5 (CEAA Doc#69), SIR #47, 48
	c) the implications of any increased noise levels.	E.2a.6, E.2b.4 CR #2a, Section 5.0, 6.3 CR #2b, Section 4.2, 5.0	--

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4.2	HYDROGEOLOGY		
4.2.1	Baseline Information		
	[A] Provide an overview of the existing geologic and hydrogeologic setting from the ground surface down to, and including, the coal zones, and if applicable, to the base of any deeper strata that would be potentially impacted by mining. Document any new hydrogeological investigations, including methodology and results, undertaken as part of the EIA, and:		
	a) present regional and Project Area geology to illustrate depth, thickness and spatial extent of lithology, stratigraphic units and structural features;	E.3.2.1 CR #3, Section 4.2, Figures 4.2-2, 4.3.2 and 4.2-9	--
	b) present regional and Project Area hydrogeology describing:		
	i. the major aquifers, aquitards and aquicludes (Quaternary and bedrock), their spatial distribution, properties, hydraulic connections between aquifers, hydraulic heads, gradients, groundwater flow directions and velocities. Include maps and cross sections,	E.3.2 CR #3, Section 4.4; Figure 4.2-1, 4.2-3 to 4.2-8, 4.3-1, 4.3-2, 4.4-1 to 4.4-3, 4.4-7, 4.5-3; Table B2, B3a, B3b, B4, B5	--
	ii. the chemistry of groundwater aquifers including baseline concentrations of major ions, metals and hydrocarbon indicators,	E.3.2.4, E.3.2.5 CR #3, Section 4.4, 4.5; Figures 4.4-4 to 4.4-6, 4.5-1, 4.5-2; Tables B6 to B12	--
	iii. the potential discharge zones, potential recharge zones and sources, areas of groundwater-surface water interaction and areas of Quaternary aquifer-bedrock groundwater interaction,	E.3.2.5, E.3.2.6 CR #3, Section 4.4 to 4.6; Figures 4.3-1, 4.5-3	--
	iv. water well development and groundwater use, including an inventory of groundwater users,	E.3.2.7 CR #3, Section 4.7; Figure 4.7-1 to 4.7-3; Table B14, B15	--
	v. the recharge potential for Quaternary aquifers, and	CR #3, Section 4.5	--
	vi. potential hydraulic connection between coal zones and other aquifers resulting from Project operations.	E.3.2.3, E.3.3 CR #3, Section 4.5	--
4.2.2	Impact Assessment		
	[A] Describe Project components and activities that have the potential to affect groundwater resource quantity and quality at all stages of the Project.	E3.3 CR #3, Section 5.0, 5.1	--
	[B] Describe the nature and significance of the potential Project impacts on groundwater with respect to:		
	a) inter-relationship between groundwater and surface water in terms of surface water quantity and quality;	E.3.2.6, E.3.3.1, E.3.3.2 CR #3, Section 5.3, 5.3, 5.5	--
	b) implications for terrestrial or riparian vegetation, wildlife and aquatic resources including wetlands;	E.3.2.6, E.3.3 CR #3, Section 4.5, 5.3.2.2.3, 5.4.2.2.3 CR #5, Section 4.1.1, 4.6	--
	c) changes in groundwater quality and quantity;	E.3.3 CR #3, Section 5.3.2.2, 5.4.2.2, 5.5.2; Figure 5.3-1 to 5.3-8	--
	d) conflicts with other groundwater users, and proposed resolutions to these conflicts;	CR #3, Section 5.3.2.2, 5.4.2.2, 5.5.2; Figure 5.4-1	--
	e) potential implications of seasonal variations; and	CR #3, Section 3.3.2, 5.3.2.2.2	--

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	f) groundwater withdrawal for Project operations, including any expected alterations in the groundwater flow regime during and following Project operations.	CR #3, Section 5.1, 5.3.2; Figure 5.3-1 to 5.3-8	--
	[C] Describe programs to manage and protect groundwater resources including:		
	a) the early detection of potential contamination;	A.11.3, C.7.6.5, E.3.5 CR #3, Section 5.4.3, 5.5.3, 7	Addendum 5 (CEAA Doc#69), SIR #82, Appendix A-3
	b) groundwater remediation options in the event that adverse effects are detected; and	CR #3, Section 7	--
	c) monitoring groundwater production or dewatering impacts.	A.11.3, E.3.5 CR #3, Section 5.3.3, 7	Addendum 5 (CEAA Doc#69), SIR #81
4.3	HYDROLOGY		
4.3.1	Baseline Information		
	[A] Describe and map the surface hydrology. Include flow regimes of streams in the Project Area.	E.4.2 CR #4, Section 3, Figure 21 to 40	--
	[B] Provide surface flow baseline data, including:		
	a) seasonal variation, low, average and peak flows for watercourses; and	E.4.2 CR #4, Section 3.6, 3.7, 3.8	Addendum 5 (CEAA Doc#69), SIR #83, 84 Addendum 7 (CEAA Doc#72), SIR #84
	b) low, average and peak levels for waterbodies.		--
	[C] Identify any surface water users who have existing approvals, permits or licenses.	CR #4, Section 5.1, Table 15	--
4.3.2	Impact Assessment		
	[A] Discuss changes to watersheds, including surface and near-surface drainage conditions, potential flow impediment, and potential changes in open-water surface areas caused by the Project.	E.4.3 CR #4, Section 5.2, 6.4, Table 18	Addendum 5 (CEAA Doc#69), SIR #84 Addendum 7 (CEAA Doc#72), SIR #84, 207 Addendum 8, Part C, SIR# AER 4, 7
	[B] Describe the extent of hydrological changes that will result from disturbances to groundwater and surface water movement:		
	a) include changes to the surface flow, water levels and channel regime in watercourses (during minimum, average and peak flows) and water levels in waterbodies;	E.4.3.2 CR #4, Section 5.2, 6.4	Addendum 5 (CEAA Doc#69), SIR #84 Addendum 7 (CEAA Doc#72), SIR #84 Addendum 8, Part C, SIR# AER 4, 6, 19, 37
	b) assess the potential impact of any alterations in flow on the hydrology and identify all temporary and permanent alterations, channel realignments, disturbances or surface water withdrawals;	E.4.3.2, E.4.3.3 CR #4, Section 6.4	Addendum 8, Part C, SIR# AER 19, 35, 36, 37
	c) discuss both the Project and cumulative effect of these changes on hydrology (e.g., timing, volume, peak and minimum flow rates, river regime and lake levels), including the significance of effects for downstream watercourses; and	E.4.3.3, E.4.4 CR #4, Section 6.4, 6.5, Table 18	Addendum 8, Part C, SIR# AER 6
	d) identify any potential erosion problems in watercourses resulting from the Project.	E.4.3.3, F.4.4.1 CR #4, Section 6.4	--
	[C] Discuss changes in sedimentation patterns in receiving waters resulting from the Project.	E.4.3.3 CR #4, Section 6.4	--
	[D] Describe impacts on other surface water users resulting from the Project. Identify any potential water use conflicts.	C.5.2.3, E.4.3.1 CR #4, Section 5.1	Addendum 2 (CEAA Doc#53) C.5.2

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	[E] Describe potential downstream impact if surface water is removed.	C.5, E.4.3.2 CR #4, Section 5.2	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2 Addendum 8, Part C, SIR# AER 4, 19
	[F] Discuss the impact of low flow conditions and in-stream flow needs on water supply and water and wastewater management strategies.	C.5, E.4.3.3 CR #4, Section 4.3	Addendum 1 (CEAA Doc#44), CR #6, Section 4, Appendix A3 Addendum 2 (CEAA Doc#53), C.5.1, C.5.2
	[G] Discuss how potential impacts of temporary and permanent roads on wetland hydrology will be minimized and mitigated.	CR #8, Section 3.1.3, 3.7.1	--
4.4	SURFACE WATER QUALITY		Addendum 5 (CEAA Doc#69), SIR #85-105, 108
4.4.1	Baseline Information		
	[A] Describe the baseline water quality of watercourses and waterbodies. Discuss the effects of seasonal variations, flow and other factors on water quality.	E.5.2.2 Appendix 10A, 10B CR #5, Section 3.2.3, 3.2.5	Addendum 5 (CEAA Doc#69), SIR #100, 101 Addendum 8, Part C, SIR# AER 21
4.4.2	Impact Assessment		
	[A] Identify project components that may influence or impact surface water quality.	E.5.3.1 CR #5, Section 2.1	Addendum 5 (CEAA Doc#69), SIR #93, 107 Addendum 8, Part C, SIR# AER 2, 20, 23, 27, 28, 32, 33, 34
	[B] Describe the potential impacts of the project on surface water quality.		
	a) discuss any changes in water quality resulting from the Project that may exceed the <i>Surface Water Quality Guidelines for Use in Alberta</i> or the <i>Canadian Water Quality Guidelines</i> ;	E.5.3 C.5, C.8 Appendix 10A CR #5, Section 4.1.1.3, 4.2.1.3, 4.5, 4.6	Addendum 1 (CEAA Doc#44), CR #6, Appendix A3 Addendum 2 (CEAA Doc#53), C.5.1, C.5.2 Addendum 5 (CEAA Doc#69), SIR #86, 87, 92, 93, 98, 102, 108, 109 Addendum 8, Part C, SIR# AER 20, 22
	b) discuss seasonal variation and potential impacts on surface water quality;	CR #5, Section 4.1.1.3	Addendum 8, Part C, SIR# AER 28
	c) assess the potential Project related and cumulative impacts of acidifying and other air emissions on surface water quality; and	E.5.3.3 CR #5, Section 4.5	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1
	d) discuss the effect of changes in surface runoff or groundwater discharge on water quality in surface waterbodies.	E.5.3.3 CR #3, Section 5.3.2.2.3 CR #5, Section 4.1.1.3, 4.6	Addendum 5 (CEAA Doc#69), SIR #105, 107, 206 Addendum 7 (CEAA Doc#72), SIR #206 Addendum 8, Part C, SIR# AER 27, 31
4.5	AQUATIC ECOLOGY		Addendum 5 (CEAA Doc#69), SIR#105, 106, 107, 111-112 Addendum 8, Part C, SIR# AER 27-31
4.5.1	Baseline Information		Addendum 8, Part C, SIR# AER 35
	[A] Describe and map the existing fish resources of the lakes, rivers, ephemeral water bodies and other waters. Describe the species composition, distribution, relative abundance, movements and general life history parameters. Also, identify any species that are:	E.6.2	Addendum 1 (CEAA Doc#44), CR #6, Appendix A1

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	a) listed as “at Risk, May be at Risk and Sensitive” in The Status of Alberta Species (Alberta Environment and Sustainable Resource Development [ESRD]);	E.6.2.1	Addendum 1 (CEAA Doc#44), CR #6, Appendix A1
	b) listed in Schedule 1 of the federal Species at Risk Act;	E.6.2.1	Addendum 1 (CEAA Doc#44), CR #6, Appendix A1
	c) listed as “at risk” by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC); and	E.6.2.1	Addendum 1 (CEAA Doc#44), CR #6, Appendix A1
	d) species used traditionally and currently by Aboriginal groups.	E.6.2.1	Addendum 1 (CEAA Doc#44), CR #6 Section 4.1
	[B] Describe and map existing critical or sensitive areas such as spawning, rearing, and over- wintering habitats, seasonal habitat use including migration and spawning routes.	---	Addendum 1 (CEAA Doc#44), CR #6, Appendix A1, Sections 3.1, 4.1 Addendum 8, Part C, SIR# AER 35
	[C] Describe the current and potential use of the fish resources by aboriginal, sport or commercial fisheries.	H.3.3, H.4.3, H.5.3, H.6.3, H.7.3, H.8.3, H.9.3, H.10.3, H.11.3, H.12.3, H.13.3 F.1.6.1, Table F.1.6-1 CR #10 Land Use, Section 4.2.2.1, 4.11	Addendum 1 (CEAA Doc#44), CR #6, Sections 4.1, 4.2.1.2
	[D] Describe and quantify the current extent of aquatic habitat fragmentation.	E.6.3	Addendum 1 (CEAA Doc#44), CR #6, Appendix A1, Sections 3.1.1.3 and 4.1.1.3
4.5.2	Impact Assessment		
	[A] Describe the potential impacts to fish and fish habitat, such as stream alterations and changes to substrate conditions, water quality and quantity, whilst considering:		Addendum 1 (CEAA Doc#44), CR #6, Section 4 Addendum 8, Part C, SIR# AER 29, 31, 36, 37, 38
	a) fish tainting, survival of eggs and fry, chronic or acute health effects, and increased stress on fish populations from release of contaminants, sedimentation, flow alterations, temperature and habitat changes;	E.6.2.3.2 E.6.3.1.3 C.8.3.2	Addendum 1 (CEAA Doc#44), CR #6, Section 4 Addendum 8, Part C, SIR# AER 29
	b) potential impacts on riparian areas that could affect aquatic biological resources and productivity;	E.6.2.3.1	Addendum 1 (CEAA Doc#44), CR #6, Section 4 Addendum 8, Part C, SIR# AER 38
	c) the potential for increased fishing pressures in the region that could arise from the increased workforce and improved access resulting from the Project. Identify the implications on the fish resource and describe any mitigation strategies that might be planned to minimize these impacts, including any plans to restrict employee and visitor access;	E.6.3.1.3.3	Addendum 1 (CEAA Doc#44), CR #6, Section 4.2.1.2
	d) changes to benthic invertebrate communities that may affect food quality and availability for fish; and	E.6.2.3.2	Addendum 1 (CEAA Doc#44), CR #6, Section 4.2.2.2 and Appendix A1 Addendum 7 (CEAA Doc#72), SIR #106 Addendum 8, Part C, SIR# AER 30
	e) The potential for increased fragmentation of aquatic habitat.	E.6.3.1.3.1	Addendum 1 (CEAA Doc#44), CR #6, Section 4.2.3, Appendix A1, Sections 3.1.1.3 and 4.1.1.3
	[B] Identify the key aquatic indicators that the Proponent used to assess project impacts. Discuss the rationale for their selection.	E.6.1.1	Addendum 1 (CEAA Doc#44), CR #6, Section 3 and 4.2

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	[C] Discuss the design, construction and operational factors to be incorporated into the Project to minimize impacts to fish and fish habitat and protect aquatic resources. Describe how any water intakes have been designed to avoid entrapment and entrainment of fish and provide information on the species of fish considered.	E.6.3.1.2	Addendum 1 (CEAA Doc#44), CR #6, Sections 4 and 6 Addendum 8, Part C, SIR# AER 28
	[D] Identify plans proposed to offset any loss in the productivity of fish habitat. Indicate how environmental protection plans address applicable provincial and federal policies on fish habitat.	E.6.3.2	Addendum 1 (CEAA Doc#44), CR #6, Sections 4.3, 6.0, Appendix A4 Addendum 8, Part B, SIR# DFO-R2-1, Appendix B-1 (Fisheries Offsetting Plan) Addendum 8, Part C, SIR# AER 38
	[E] Discuss the significance of any impacts on water quality and implications to aquatic resources (<i>e.g.</i> , biota, biodiversity and habitat) and related implications for First Nations' traditional and current use of these resources.	E.6.2.3.2, E.6.3.1.3 CR #5 SECTION 3.2.2	Addendum 1 (CEAA Doc#44), CR #6, Section 4
	[F] Describe the effects of any surface water withdrawals considered including cumulative effects on fish and fish habitat.	E.6.4	Addendum 1 (CEAA Doc#44), CR #6, Section 4
4.6	VEGETATION		Addendum 5 (CEAA Doc#69), SIR# 127-131
4.6.1	Baseline Information		
	[A] Describe and map vegetation communities. Identify the occurrence, relative abundance and distribution and identify any species that are:	E.8.2 CR #8, Section 3.1, 3.2	--
	a) listed as “at Risk, May be at Risk and Sensitive” in The Status of Alberta Species (ESRD);	E.8.2.2.1 CR #8, Section 3.2, 3.3.2; Figure 3.2-1; Appendix D	--
	b) listed in Schedule 1 of the federal Species at Risk Act;	E.8.2.2.1 CR #8, Section 3.2.1, 4.2.1, 4.2.6.3; Table 3.2-2	--
	c) listed as “at risk” by COSEWIC; and	E.8.2.2.1 CR #8, Section 2.3.2, 3.2; Figure 3.2-1; Appendix D	--
	d) traditional and currently used species.	E.8.2.6 Appendix 7c CR #8, Section 3.6, Table 3.6-1; Appendix E	Addendum 5 (CEAA Doc#69), SIR #128
	[B] Describe and quantify the current extent of habitat fragmentation.	E.8.2.8.3 (LSA), E.8.2.8.4 (RSA) CR #8, Section 3.8	--
	[C] Discuss the potential of each ecosite phase to support rare plant species, plants for traditional, medicinal and cultural purposes, old growth forests and communities of limited distribution. Consider their importance for local and regional habitat, sustained forest growth, rare plant habitat and the hydrologic regime.	E.8.2.2, E.8.2.5, E.8.2.6, E.8.2.7 CR #8, Section 3.1, 3.2, 3.5, 3.6, 3.7	--
	[D] Describe the regional relevance of landscape units that are identified as rare.	CR #8, Section 2.3.8.2, 4.8.1.2	--
	[E] Provide Timber Productivity Ratings for both the Project Area and the Local Study Area, including identification of productive forested, non-productive forested and non-forested lands.	E.8.2.4 CR #8, Section 2.3.4, 3.4, 4.4.1, Table 3.4-1, 4.4-1	--
4.6.2	Impact Assessment		
	[A] Describe and assess the potential impacts of the Project on vegetation communities;	E.8.3 CR #8, Section 4.1	Addendum 5 (CEAA Doc#69), SIR #129

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[B]	Discuss any potential impacts the Project may have on rare plants or endangered species.	E.8.3.2 CR #8, Section 4.2, 4.3.3, 4.3.4	Addendum 5 (CEAA Doc#69), SIR #113, 114, 129 Addendum 8, Part C, SIR# AER 9
[C]	Identify key vegetation indicators used to assess the Project impacts. Discuss the rationale for the indicator's selection.	E.8.1 CR #8, Section 2.4.2, Table 2.4-2	Addendum 5 (CEAA Doc#69), SIR #129
[D]	Discuss temporary (include timeframe) and permanent changes to vegetation and wetland communities and comment on:	E.8.3.1, E.8.3.7, E.8.4.1, E.8.4.2 CR #8, Section 2.4.1.1, 4.0	Addendum 5 (CEAA Doc#69), SIR #115 Addendum 5 (CEAA Doc#69), SIR #199, 200, 201, 202
	a) the impacts and their implications for other environmental resources (<i>e.g.</i> , habitat diversity and quantity, water quality and quantity, erosion potential);	CR #8, Section 4.1, 4.7, 4.8	--
	b) the impacts on recreation, aboriginal and other uses; and	E.8.3.6 CR #8, Section 4.6	Addendum 8, Part C, SIR# AER 66, 71-73
	c) the sensitivity to disturbance (including acid deposition), as well as the techniques used to estimate sensitivity to disturbance and reclamation, of each vegetation community.	CR #8, Section 4.1.4, 4.2.5, 4.3.3, 4.4.3, 4.6.3, 4.7.3, 4.8.3, 4.9.3, 4.10	Addendum 5 (CEAA Doc#69), SIR #130
[E]	Describe the regional impact of any ecosite phase to be removed.	E.8.4.2 CR #8, Section 4.1.4, 4.7.3	--
[F]	Discuss from an ecological perspective, the expected timelines for establishment and recovery of vegetative communities and the expected differences in the resulting vegetative community structures.	E.8.4.3, F.3.6.3 CR #8, Section, 4.1.5, 4.3.1, 4.7.1, 4.8.1, 4.8.3	Addendum 5 (CEAA Doc#69), SIR #131 Addendum 8, Part C, SIR# AER 9
[G]	Provide a predicted Ecological Land Classification map that shows the reclaimed vegetation. Comment on the importance of the size, distribution and variety of the reclaimed landscape units from both a local and regional perspective.	F.3.6 Figure F.3.6-8	Addendum 5 (CEAA Doc#69), SIR #116
[H]	Discuss the impact of any loss of wetlands, including how the loss will affect land use.	E.8.3.7, E.8.4.2 CR #8, Section 4.7.1, 4.7.2, 4.7.3	Addendum 8, Part C, SIR# AER 25, 26
[I]	Discuss weeds and non-native invasive species and describe how these species will be assessed and controlled prior to and during operation and reclamation.	E.8.2.9, E.8.5 F.3.6.3.3 CR #8, Section 3.9, 4.9.4	--
[J]	Discuss the predicted changes to upland, riparian and wetland habitats resulting from increased fragmentation.	CR #8, Section 4.8.3, 4.8.4, 4.8.5	Addendum 8, Part C, SIR# AER 25, 26
4.7	WILDLIFE		Addendum 5 (CEAA Doc#69), SIR #132-152
4.7.1	Baseline Information		
	[A] Describe and map existing wildlife resources (amphibians, reptiles, birds and terrestrial and aquatic mammals). Describe species composition, distribution, relative abundance, seasonal movements, movement corridors, habitat requirements, key habitat areas, general life history including habitat disturbances and their use and potential use of habitats. Also, identify any species that are:	E.9.2 CR #9, Section 2.4, 4.0, Figure 2.4-1 to 2.4-5, 2.4-7 to 2.4-35, 4.2-1 to 4.4-25	Addendum 1 (CEAA Doc#44), CR9 Addendum (Bat) Addendum 5 (CEAA Doc#69), SIR #133, 134, 135, 136, 137, 138, 139, 140, 149
	a) listed as "at Risk, may be at Risk and Sensitive" in the Status of Alberta Species (Alberta Sustainable Resources Development);	E.9.2.3 CR #9, Section 2.4.2, Table 2.4-2	Addendum 5 (CEAA Doc#69), SIR #132, 150 Addendum 8, Part C, SIR# AER 74
	b) listed in Schedule 1 of the federal Species at Risk Act;	E.9.2.1.3 CR #9, Section 2.4.2, Table 2.4-2	Addendum 5 (CEAA Doc#69), SIR #132 Addendum 8, Part C, SIR# AER 74, 76

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	c) listed as “at Risk” by COSEWIC.	E.9.2.3 CR #9, Section 2.4.2, Table 2.4-2	Addendum 5 (CEAA Doc#69), SIR #132
	d) species of traditional and current use, and cultural keystone species.	Appendix 7c CR #9, Section 2.2.8, 2.4.4, Table 2.2-1	--
	[B] Describe, quantify and map all existing habitat disturbance (including exploration activities) and identify those habitat disturbances that are related to existing and approved Project operations.	F.2.1 Figure F.2.1-1, F.2.1-2 CR #9, Section 6.1, Figure 1.2-2, 6.1-1	Addendum 8, Part C, SIR# AER 75
4.7.2	Impact Assessment		
	[A] Describe and assess the potential impacts of the Project to wildlife populations and wildlife habitats, considering:		
	a) how the Project will affect wildlife relative abundance, movement patterns, and distribution for all stages of the Project;	E.9.3.2, E.9.3.4 CR #9, Section 5.3, 5.4, 5.5, 6.3, Figure 5.3-1 to 5.3-52	Addendum 5 (CEAA Doc#69), SIR #141, 142, 143, 145, 147, 148, 151, 152, 153 Addendum 8, Part C, SIR# AER 76
	b) how improved or altered access may affect wildlife including potential obstruction of movements, increased vehicle-wildlife collisions, and increased hunting pressures;	E.9.3.2 CR #9, Section 3.1.2 to 3.1.4, 5.3 to 5.6	Addendum 5 (CEAA Doc#69), SIR #142, 145
	c) how increased habitat fragmentation may affect wildlife considering edge effects, the availability of core habitat, and the influence of linear features and infrastructure on wildlife movements;	E.9.3.2 CR #9, Section 3.1.2, 3.2.5.4.2, 5.3 to 5.5	Addendum 8, Part C, SIR# AER 76
	d) the spatial and temporal changes to habitat availability and habitat effectiveness (types, quality, quantity, diversity, and distribution);	E.9.3.1 CR #9, Section 5.1, 5.3, 5.4, 5.5, Figure 5.1-1 to 5.1-4, 5.3-1 to 5.3-52	--
	e) potential impacts on wildlife resulting from changes to air and water quality, including both acute and chronic effects to animal health;	E.9.3.1 CR #9, Section 5	--
	f) the resilience and recovery capabilities of wildlife populations and habitats to disturbance; and	CR #9, Section 5.3, 5.4, 5.5, 6.3, 6.4	--
	g) the potential for the Project Area to be returned to its existing state with respect to wildlife populations and their habitats.	E.9.4, E.9.5 F.2.1.7, F.2.6 CR #9, Section 7.0	--
	[B] Identify key indicator species and discuss the rationale for their selection.	E.9.2.4 CR #9, Section 3.2.3, Table 3.2-2, 3.2-3	Addendum 5 (CEAA Doc#69), SIR #141
	[C] Comment on the availability of species for traditional use considering habitat loss, habitat avoidance, vehicle-wildlife collisions, increased non-aboriginal hunting pressure and other Project related impacts on wildlife populations.	CR #9, Section 5.6	--
4.8	BIODIVERSITY		
4.8.1	Baseline Information		
	[A] Describe the terrestrial and aquatic biodiversity metrics that will be used to characterize the existing ecosystems and probable impacts of the Project, and:	CR #8, Section 2.3.8, Table 2.3-3 CR #9, Section 2.3.9	Addendum 1(CEAA Doc#44), CR #6, Section 4.1.2

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	a) describe the process and rationale used to select biotic and abiotic indicators for biodiversity within selected taxonomic groups;	CR #8, Section 1.4.8, 2.3.8, Table 2.3-3 CR #9, Section 2.3.9	--
	b) determine the relative abundance of species in each ecosite phase;	CR #9, Section 2.4.3.2	--
	c) provide species locations, lists and summaries of observed and estimated species richness and evenness for each ecosite phase;	E.6.2 E.8.2.8 E.9.2.3 CR #8, Section 3.8.1, Table 3.8-1; Appendix B CR #9, Section 2.4.3.5, Table 2.4-48; Section 4.3, Table 4.3-2	--
	d) provide a measure of biodiversity on baseline sites that are representative of the proposed reclamation ecosites; and	CR #8, Section 3.8.1	--
	e) rank each ecological unit for biodiversity potential. Describe the techniques used in the ranking process.	E.8.2.8.1 CR #8, Section 3.8.1.1; Table 3.8-3, 3.8-4	--
4.8.2	Impact Assessment		
	[A] Describe the metrics used to assess the probable impacts of the Project. Discuss the contribution of the Project to any anticipated changes in regional biodiversity and the potential impact to local and regional ecosystems.	E.8.3.8 E.9.3.5 CR #8, Section 4.8.1, 4.8.2, 4.8.5 CR #9, Section 5.2	Addendum 1(CEAA Doc#44), CR #6, Section 4.1.2
	[B] Identify and evaluate the extent of potential effects of fragmentation on biodiversity that may result from the Project. Discuss those effects at all relevant scales (from site specific to landscape level).	E.8.3.8 E.9.3.2, E.9.3.6, E.9.3.7, E.9.4 CR #8, Section 4.8.1.3, 4.8.5 CR #9, Section 5.5.2, Table 5.3-26, Table 6.4-1	--
4.9	TERRAIN AND SOILS		Addendum 5 (CEAA Doc#69), SIR #120-126
4.9.1	Baseline Information		
	[A] Provide descriptions and maps of the terrain and soils conditions, including:		
	a) surficial geology and topography;	CR #7 Section 2.3.2, 3.3, Figure 3.3-1 to 3.3-5	Addendum 5 (CEAA Doc#69), SIR #120
	b) soil types and their distribution. Provide an ecological context to the soil resource by supplying a soil survey report and maps to Survey Intensity Level 2 for the Project Area;	E.7.2.1, E.7.2.2 CR #7, Section 3.2, 3.3, Figure 3.3-2 to 3.3-5	--
	c) suitability and availability of soils within the Project Area for reclamation;	E.7.2.3 CR #7, Section 4.2; Figure 4.1-2 to 4.1-4	Addendum 8, Part C, SIR# AER 39
	d) soils that could be affected by the Project with emphasis on potential acidification (by soil type); and	E.7.2.5 CR #7, Section 4.4	--
	e) descriptions and locations of erosion sensitive soils.	E.7.2.4 CR #7, Section 4.3	--
4.9.2	Impact Assessment		
	[A] Describe Project activities and other related issues that could affect soil quality (e.g., compaction, contaminants) and:	E.7.3 CR #7, Section 6.2, 6.3, 7.1	--

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	a) indicate the amount (ha) of surface disturbance from plant, mine, overburden disposal, reclamation material stockpiles, infrastructure (e.g., pipelines, power lines, access roads), aggregate and borrow sites, construction camps, waste disposal and other construction and operation activities;	CR #7, Section 2.1.1, Table 2.1-1	--
	b) provide an inventory of the pre- and post-disturbance land capability classes for soils in both the Project Area and the Local Study Area and describe the impacts to land capability resulting from the Project. Indicate the size and location of soil types and land capability classes that will be disturbed;	E.7.3.4 F.2.1.5; Table F.2.1-2; Figure F.2.1-5, F.2.1-6 CR #7, Section 4.5, 4.5.1, 4.5.2, Table 4.5-1 to 4.5-4, 4.5-5	Addendum 5 (CEAA Doc#69), SIR #121 Addendum 8, Part C, SIR# AER 39
	c) discuss the relevance of any changes for the local and regional landscapes, biodiversity, productivity, ecological integrity, aesthetics and future use resulting from disturbance during the life of the Project;	E.7.3, E.7.4 CR #7, Section 7.2, 7.3, 7.4	--
	d) describe potential sources of soil contamination;	E.7.3.1.3, E.7.4.1.3 CR #7, Section 6.2, 7.1	--
	e) describe the impact of the Project on soil types and reclamation suitability and the approximate volume of soil materials for reclamation. Discuss any constraints or limitations to achieving vegetation/habitat reclamation based on anticipated soil conditions (e.g., compaction, contaminants, salinity, soil moisture, nutrient depletion, erosion, etc.); and	F.4.2 CR #7, Section 7.1, 7.4	--
	f) discuss the potential for soil erosion during the life of the Project.	E.7.2.4, E.7.3.1.2, E.7.4.1.2 CR #7, Section 4.3, 7.1.1.2	Addendum 5 (CEAA Doc#69), SIR #126
	[B] Discuss the potential impacts caused by the mulching and storage of woody debris considering, but not limited to vulnerability to fire, degradation of soil quality, increased footprint.	F.3.1	---
4.10	LAND USE MANAGEMENT		
4.10.1	Baseline Information		
	[A] Describe the existing land and resource uses and potential conflicts that exist considering oil and gas development, agriculture, forestry, tourism, and outdoor recreational activities.	E.10.2 CR#10, Section 4.2 to 4.9, 4.11	--
	[B] Describe and map all Crown land and Crown Reservations (Holding Reservation, Protective Notation, Consultative Notation).	E.10.2.11 CR#10, Section 4.11, Figure 4.11-1	--
	[C] Identify and map unique sites or special features such as Parks and Protected Areas, Heritage Rivers, Historic Sites, Environmentally Significant Areas, culturally significant sites and other designations (World Heritage Sites, Ramsar Sites, Internationally Important Bird Areas, etc.).	E.10.2.10 CR#10, Section 4.2.5, 4.2.6, 4.9, 4.10, Figure 4.2-3 to 4.2-5, 4.9-1, 4.10-1	--
4.10.2	Impact Assessment		
	[A] Describe access corridors needed and/or planned by other resource development stakeholders including those responsible for Forest Management Areas and other timber quota holders, and describe:	E.10.2.8, E.10.3.5 CR#10, Section 5.6	--
	a) how their needs are accommodated to reduce overall environmental impact from resource development; and	E.10.3.5 CR#10, Section 5.6	--
	b) opportunities for cooperation in access development.	E.10.3.5 CR#10, Section 5.6	--
	[B] Indicate where Crown land dispositions may be needed for roads or other infrastructure for the Project.	CR#10, Section 5.1.1, Figure 5.1-1	--

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[C]	Provide a description and timing of land clearing activities.	C.1.3; Figure C.1.3-1 to C.1.3-26	--
[D]	Identify the potential impact of the Project on land uses, including:		
	a) impacts to unique sites or special features;	E.10.3.7 CR#10, Section 5.8	--
	b) the results of consultation with Parks Canada Agency concerning potential impacts of the Project to the lands, waters, air, and natural and cultural heritage resources of National Parks, National Historic Sites, National Marine Conservation Areas, Canadian Heritage Rivers, UNESCO World Heritage Sites and Ramsar Convention Wetlands of International Importance. Where impacts are predicted, provide the results of the assessments and clearly identify the impacts to the special protected area;	Not applicable; no such sites are anticipated to be impacted by Project.	--
	c) impacts caused by changes in public access arising from linear development, including secondary effects related to increased hunter, angler and other recreational access, decreased access to traditional use sites and facilitated predator movement;	E.10.3.4, E.10.3.6 H.3.5, H.4.5, H.5.5, H.6.5, H.7.5, H.8.4, H.9.5, H.10.4, H.11.4, H.12.5, H.13.4 CR#10, Section 5.5, 5.6, 5.7	Addendum 5 (CEAA Doc#69), SIR #55
	d) the implications of relevant land use policies and resource management initiatives for the Project, including any constraints to development. Discuss how the Project will be consistent with the intent of these initiatives;	E.10.3.2, E.10.3.3 CR#10, Section 4.2	--
	e) potential impacts to aggregate reserves that may be located on land under the Proponent's control and reserves in the region;	CR#10, Section 5.4.5	--
	f) the impact of development and reclamation on commercial forest harvesting in the Project Area. Include opportunities for timber salvage, revegetation, reforestation and harvest for the reduction of fuel hazard;	E.10.3.3 F.3.3 CR#10, Section 5.4.4	--
	g) the amount of commercial and non-commercial forest land base that will be disturbed by the Project. Compare the pre-disturbance and reclaimed percentages and distribution of all forested communities in the Project Area;	E.10.2.6 CR#10, Section 5.4.4	--
	h) how the Project impacts Annual Allowable Cuts and quotas within the Forest Management Agreement area;	CR#10, Section 5.4.4	--
	i) the potential impact on existing land uses of anticipated changes (type and extent) to the pre-disturbance topography, elevation and drainage pattern within the Project Area; and	CR#10, Section 5.4	--
	j) impacts of the Project on public access, regional recreational activities, aboriginal land use and other land uses during and after development activities.	E.10.3.4, E.10.3.6 H.3.5, H.4.5, H.5.5, H.6.5, H.7.5, H.8.4, H.9.5, H.10.4, H.11.4, H.12.5, H.13.4 CR#10, Section 5.6, 5.7	Addendum 5 (CEAA Doc#69), SIR #58
[E]	Identify any access restrictions including where appropriate, measures taken to control access to the Project Area while ensuring continued access to adjacent wildland areas.	Appendix 7d, Aboriginal Access Management Plan CR#10, Section 5.1.3, 5.6	Addendum 5 (CEAA Doc#69), SIR #60
[F]	Provide a fire control plan highlighting:	C.7.7 CR#10, Section 5.1.4	--
	a) measures taken to ensure continued access for firefighters to adjacent wildland areas;	C.7.7.2.3.4	--

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	b) forest fire prevention, detection, reporting, and suppression measures, including proposed fire equipment;	C.2.9.2, C.6.16.2, C.7.6.3, C.7.7.2	--
	c) measures for determining the clearing width of power line rights-of-way; and	C.7.7.2.1.3	--
	d) required mitigative measures for areas adjacent to the Project Area based on the FireSmart Wildfire Assessment System.	C.7.7.2, C.7.7.3	--
5.0	HISTORIC RESOURCES		
	[A] Describe consultation with Alberta Culture (AC) concerning the need for a Historic Resource Impact Assessment (HRIA) for the Project, and:	E.13.1	Addendum 8, Part C, SIR# AER 78
	a) provide a general overview of the results of any previous historic resource studies that have been conducted, including archaeological resources, palaeontological resources, historic period sites, and any other historic resources as defined within the <i>Historical Resources Act</i> ;	E.13.2	--
	b) summarize the results from the field program performed to assess archaeological, palaeontological and historic significance of both the Project Area and the Local Study Area;	E.13.3.1, E.13.3.2	--
	c) provide a summary of the results of the HRIA conducted to assess the potential impact of the Project on archaeological, palaeontological and historic resources;	E.13.3.3, E.13.3.4, E.13.4	--
	d) provide an outline of the program and schedule of field investigations that AC may require the Proponent to undertake to further assess and mitigate the impacts of the Project on historic resources;	E.13.5, E.13.6	--
	e) document any historic resources concerns raised during consultation on the Project; and	H.3.4.4, H.3.8, H.4.4.4, H.4.8, H.5.4.4, H.5.8, H.6.4.4, H.6.8, H.7.4.4, H.7.8, H.9.4.4, H.9.8, H.12.4.4, H.12.8	
6.0	TRADITIONAL ECOLOGICAL KNOWLEDGE AND LAND USE		
	[A] Provide:		
	a) a map and description of traditional and current land and water resource use areas including fishing, hunting, trapping and nutritional, medicinal or cultural plant harvesting by affected aboriginal peoples (if the aboriginal community or group is willing to have these locations disclosed);	H.3.3, H.4.3, H.5.3, H.6.3, H.7.3, H.8.3, H.9.3, H.10.3, H.11.3, H.12.3, H.13.3 Figure H.3.1-1 to H.13.4-1 Appendix 7c CR # 12, Section 2.2, 5.1.2, Figure A.3	Addendum 5 (CEAA Doc#69), SIR #7, 37, 57 Addendum 8, Part C, SIR# AER 53, 63, 68
	b) a map of vision quest sites, cabin sites, spiritual sites, graves and other traditional use sites considered historic resources under the Historical Resources Act (if the aboriginal community or group is willing to have these locations disclosed), as well as traditional trails and resource activity patterns;	Figure H.3.1-1 to H.13.4-1 Appendix 7c	Addendum 5 (CEAA Doc#69), SIR #7, 31 Addendum 8, Part C, SIR# AER 67, 68
	c) a description of the extent of traditional and current use of land and water in both the Project Area and the Local Study Area, including fishing, hunting, trapping, nutritional or medicinal plant harvesting, and cultural use by affected aboriginal peoples; and	H.3.3, H.4.3, H.5.3, H.6.3, H.7.3, H.8.3, H.9.3, H.10.3, H.11.3, H.12.3, H.13.3 Figure H.3.1-1 to H.13.4-1	Addendum 5 (CEAA Doc#69), SIR #10, 11, 21, 22 Addendum 8, Part C, SIR# AER 55, 60, 61, 62, 63, 64, 66, 67

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	d) a discussion of:		
	i. the availability of vegetation, fish and wildlife species for food, traditional, medicinal and cultural purposes in the identified traditional land and water use areas considering all Project related impacts,	H.3.5.1, H.4.5.1, H.5.5.1, H.6.5.1, H.7.5.1, H.9.5.1, H.12.5.1	Addendum 5 (CEAA Doc#69), SIR #23, 24 Addendum 8, Part C, SIR# AER 66
	ii. access to traditional lands and waters in the Project Area during all stages of the Project; and	Appendix 7d	Addendum 5 (CEAA Doc#69), SIR #24
	iii. aboriginal views on monitoring and reclamation.	H.3.7, H.3.8, H.4.7, H.4.8, H.5.7, H.5.8, H.6.7, H.6.8, H.7.7, H.7.8, H.9.7, H.9.8, H.12.7, H.12.8	Addendum 5 (CEAA Doc#69), SIR #16, 20 Addendum 8, Part C, SIR# AER 49, 52, 58, 59, 70
	[B] Describe how TEK and TLU information was incorporated into the project design and development, technical components of the EIA, the conservation and reclamation plan, monitoring and mitigation plans.	H.1.1.4.3, H.3.8, H.4.8, H.5.8, H.6.8, H.7.8, H.9.8, H.12.8 F.1.9, F.2.7, F.3.6.3, CR #5, Section 3.2.2 CR #8, Section 3.6, 4.6, 5.2 CR #9, Section 2.2.8, 3.2.3, 5.6, 7.2 CR #10, Section 3.2 CR #11, Section 9 CR #12, Section 2.2, 5.1.2	Addendum 1 (CEAA Doc#44), CR #6, Section 4 Addendum 5 (CEAA Doc#69), SIR #2- 46, 61 Addendum 8, Part C, SIR# AER 49-67, 69-71
7.0	PUBLIC HEALTH AND SAFETY ASSESSMENT		
7.1	Public Health		Addendum 5 (CEAA Doc#69), SIR# 153-172
	[A] Determine quantitatively whether there may be public health impacts from the project. Describe those aspects of the project that may impact public health or the delivery of regional health services.	E.12.3, E.12.4, E.12.6 CR #12, Section 6.1 to 6.4	Addendum 5 (CEAA Doc#69), SIR #153-172 Addendum 8, Part C, SIR# AER 46, 47, 48
	[B] Document any health concerns raised any stakeholder during consultation on the project.	G.3.4 CR #12, Section 2.2	Addendum 8, Part C, SIR# AER 47
	[C] Document any concerns aboriginal communities or groups have about existing development and about the proposed project on their health. Include an aboriginal receptor type in the assessment	H. 3.4.2, H.3.8, H.4.4.2, H.4.8, H.5.4.2, H.5.8, H.6.4.2, H.6.8, H.7.4.2, H.7.7, H.8.5, H.9.4.2, H.9.8, H.12.4.2, H.12.8 CR #12, Section 5.1.3	Addendum 5 (CEAA Doc#69), SIR #161 Addendum 8, Part C, SIR# AER 47, 64
	[D] Describe the potential health impacts resulting from higher regional traffic volumes and the increased risk of accidental leaks and spills	C.9.7, C.9.8 CR #12, Section 6.1 to 6.4	--
7.2	PUBLIC SAFETY		
	[A] Describe those aspects of the project that may impacts public safety.		
	a) Describe the proponent's emergency response plan for minimizing adverse environmental impacts, including public notification protocol and safety procedures and emergency reporting procedures for spill contaminant and management;	C.7.6.3 to C.7.6.8	--
	b) Document any safety concerns raised by stakeholders during consultation on the project;	G.4.0 Appendix 6a	--
	c) Describe how local residents will be contact during an emergency and the type of information that will be provided;	C.7.6.2	--
	d) Describe the existing agreement with area municipalities or industry groups such as safety cooperatives, emergency response associations, regional mutual-aid programs, and municipal emergency response agencies; and	C.7.6.2	--

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	e) Describe the potential safety impact from higher regional traffic volumes.	C.4.4.1, C.9.7 Appendix 8 – Section 2.3, 2.4, 4.3	--
8.0	SOCIO-ECONOMIC ASSESSMENT		
8.1	Baseline Information		
	[A] Describe the existing socio-economic conditions in the region and in the communities in the region.	E.11.2 CR #11, Section 3, 5.2, 6.2, 7.2, 8.2, 9.2, 10.2	Addendum 5 (CEAA Doc#69), SIR #53
	[B] Describe factors that may affect existing socio-economic conditions including:		
	a) population changes;	E.11.3.3 CR #11, Section 5.3	Addendum 5 (CEAA Doc#69), SIR #50
	b) the Proponent's policies and programs regarding the use of regional and Alberta goods and services;	E.11.3.1 CR #11, Section 4.2.3	Addendum 5 (CEAA Doc#69), SIR #66, 156 Addendum 8, Part C, SIR# AER 44
	c) the project schedule and a general description of the overall engineering and contracting plan for the Project;	CR #11, Section 1.1, 4.2.1, 4.2.2	Addendum 6 (CEAA Doc#70) Appendix A4
	d) the workforce requirements for the Project, including a description of when peak activity periods will occur; and	E.11.3.2 CR #11, Section 4.5	--
	e) the planned accommodations for the workforce for all stages of the Project. Discuss the rationale for their selection.	C.6.17 E.11.3.4 CR #11, Section 6.3	Addendum 5 (CEAA Doc#69), SIR #63, 64, 65
8.2	Impact Assessment		
	[A] Describe the socio-economic impacts of construction and operation of the Project, including:		Addendum 5 (CEAA Doc#69), SIR #49-54
	impacts related to:		
	i. local training, employment and business opportunities	E.11.3.2 CR #11, Section 4.2.3, 4.5	Addendum 5 (CEAA Doc#69), SIR #51 Addendum 5 (CEAA Doc#69), SIR #66 Addendum 8, Part C, SIR# AER 44
	ii. regional and provincial economic benefits,	E.11.3.1 CR #11, Section 4.3, 4.4	Addendum 5 (CEAA Doc#69), SIR #67, 68, 69 Addendum 8, Part C, SIR# AER 45
	iii. housing,	E.11.3.4 CR #11, Section 6.3	--
	iv. recreational activities,	E.10.3.6 CR #10, Section 4.9, 5.7 CR #11, Section 7.3	Addendum 5 (CEAA Doc#69), SIR #70
	v. hunting, fishing, trapping and gathering, and	E.10.3.4 CR #11, Section 9.3	Addendum 5 (CEAA Doc#69), SIR #70 Addendum 8, Part C, SIR# AER 73

TABLE 1 AER Final Terms of Reference Environmental Impact Assessment Report for Benga Mining Limited (Benga Mining) Proposed Grassy Mountain Coal Project Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
ToR No.	AER ToR Description	Reference Section in Application (EIS, Aug 2016)	Addendum#
	vi. traditional land use by aboriginal communities and groups; and	E.11.3.8 H.3.4.3, H.4.4.3, H.5.4.3, H.6.4.3, H.7.4.3, H.9.4.3, H.12.4.3 CR #11, Section 9.3	Addendum 5 (CEAA Doc#69), SIR #55 Addendum 8, Part C, SIR# AER 73
	vii. the need for additional Crown land to meet these needs.		--
	[B] Discuss plans to work with Aboriginal communities and groups, other local residents and businesses regarding employment, training needs and other economic development opportunities arising from the Project; and	H.3.2.3, H.3.6.3.6, H.4.2.3, H.4.4.3, H.4.6.3.6, H.5.2.3, H.5.6.3.6, H.6.2.3, H.6.6.3.6, H.7.2.3, H.7.6.3.6, H.12.6.3.6 CR #11, Section 9.4	Addendum 5 (CEAA Doc#69), SIR #66
	[C] Provide the estimated total Project cost, including a breakdown for engineering and project management, equipment and materials, and labour for both construction and operation stages. Indicate the percentage of expenditures expected to occur in the region, Alberta, Canada outside of Alberta, and outside of Canada.	CR #11, Section 4.2	--
9.0	MITIGATION MEASURES		
	[A] Discuss mitigation measures to avoid, minimize or eliminate the potential impacts for all stages of the Project.	Section A.11.11, E.11.5 Appendix 10B Section 2.3, 7, 8	--
	[B] Identify those mitigation measures that will be implemented for each associated impact and provide rationale for their selection.	A.11 E.1a.4.1, E.2a.5.1 E.3.5.1, E.4.5.1, E.5.5.1, E.6.4 E.7.5.1, E.8.5.1, E.9.5.1, E.10.5, E.11.5, E.12.5, E.13.3.3, E.13.3.4 F.2.6, F.2.7, F.3.2, F.3.8, F.4.4.4, F.5 Appendix 10B Section 2.3, 7, 8 CR #1a, Section 6.6, 5.16.2 CR #2a, Section 5.4 CR #3, Section 5.3.3, 5.4.3, 5.5.3 CR #4, Section 6.4 CR #5, Section 4.1.1.2, 4.2.1.2, 4.3.1.2, 4.4.1.2 CR #7, Section 7.1.3, 7.2.3, 7.3.3 CR #8, Section 4, 5.2 CR #9, Section 7.1 CR #10, Section 6 CR #11, Section 5.4, 6.4, 7.4, 8.4, 9.4, 10.4 CR #12, Section 6.5	Addendum 1 (CEAA Doc#44), CR # 6, Section 4, 6.0 Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3 Addendum 8, Part B, SIR# DFO-R2-1, Appendix B- 1 (Fisheries Offsetting Plan) Addendum 8, Part C, SIR# AER 1

TABLE 1 AER Final Terms of Reference Environmental Impact Assessment Report for Benga Mining Limited (Benga Mining) Proposed Grassy Mountain Coal Project Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
ToR No.	AER ToR Description	Reference Section in Application (EIS, Aug 2016)	Addendum#
	[C] Discuss the effectiveness of the proposed mitigation.	A.11 E.1a.4.1, E.2a.5.1 E.3.5.1, E.4.5.1, E.5.5.1, E.6.4, E.7.5.1, E.8.5.1, E.9.5.1, E.11.5, E.12.5, E.13.3.3, E.13.3.4 F.2.6, F.2.7, F.3.2, F.3.8, F.4.4.4, F.5 Appendix 10B Section 7, 8 CR #1a, Section 6.6, 5.16.2 CR #2a, Section 5.4 CR #3, Section 5.6 CR #4, Section 6.4 CR #5, Section 4.1.1.2, 4.1.1.4, 4.2.1.2, 4.2.1.4, 4.3.1.2, 4.3.1.4, 4.4.1.2, 4.4.1.4 CR #7, Section 6.3, 7.1.3, 7.2.3, 7.3.3 CR #8, Section 4.1.5.1, 4.2.6.1, 4.3.4.1, 4.4.4.1, 4.5.4.1, 4.6.4.1, 4.7.4.1, 4.8.4.1, 4.9.4.1, 4.10.3, 5.2 CR #9, Section 7.1 CR #11, Section 5.4, 6.4, 7.4, 8.4, 9.4, 10.4 CR #12, Section 6.5	Addendum 1 (CEAA Doc#44), CR # 6 , Section 4, 6 Addendum 8, Part B, SIR# DFO-R2-1, Appendix B-1 (Fisheries Offsetting Plan)
10.0	RESIDUAL IMPACTS		
	[A] Describe the residual impacts of the Project following implementation of the Proponent’s mitigation measures and the Proponent’s plans to manage those residual impacts.	E.1a.5.2, E.1a.5.3 E.2a.6, E.3.3, E.3.5, E.4.3, E.4.5, E.5.3, E.5.5 E.6.4, E.7.3, E.7.6, E.8.3, E.8.6, E.9.3, E.9.6, E.10.3, E.10.6, E.11.3, E.11.6, E.12.4, E.12.6 E.13.3.3, E.13.3.4, E.13.6 CR #1a, Section 6.4.1, 6.4.2, Table 6.5-1 CR #2a / CR #2b, Section 6.3 / Section 4.2, 5.0 CR #3, Section 5.6 CR #4, Section 6.4 CR #5, Section 4.1.1.4, 4.2.1.4, 4.3.1.4, 4.4.1.4 CR #7, Section 6.3, 7.1.4, 7.2.4, 7.3.4, 7.4 CR #8, Section 4, Table 4.5-1 CR #9, Section 5.1 to 5.5, Table 5.3-26, 5.4-1 CR #10, Section 5.2 to 5.9, 8.0, Table 8.0-1 CR #11, Section 5.5, 6.5, 7.5, 8.5, 9.5, 10.5 CR #12, Section 6.1, 6.2, 6.3	Addendum 1 (CEAA Doc#44), CR # 6 Section 4.5, Appendix A4 Addendum 5 (CEAA Doc#69), SIR #129, 141 Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3

TABLE 1 AER Final Terms of Reference Environmental Impact Assessment Report for Benga Mining Limited (Benga Mining) Proposed Grassy Mountain Coal Project Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
ToR No.	AER ToR Description	Reference Section in Application (EIS, Aug 2016)	Addendum#
	Consistent use of EIA Methodology as outlined in Volume 1, Section D.2.5.3. Evaluation of significance as either “not significant” or “significant” was used.	Table E.1.5-1, E.2a.6-1, E.3.6-1, E.4.6-1, E.5.5-1, E.7.6-1, E.8.6-1, E.9.4-1, E.10.6-1, E.11.6-1, E.12.6-1, E.13.6-1 CR #1a Table 6.5-1 CR #3 Section 5.6 CR #4 Table 18 CR #5 Table 18 CR #7 Table 7.5-1 CR #8 Table 5.5-1 CR #9 Table 6.4-1 CR #10 Table 8.0-1 CR #11 Table 12.1 CR #12 Table 6.4-1	Addendum 1 (CEAA Doc#44), CR #6 Table 4.11 Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 5 (CEAA Doc#69), SIR #129, 141 Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3 Addendum 8, Part C, SIR# AER 9, 34
11.0	MONITORING		
	[A] Describe the Proponent’s current and proposed monitoring programs including:	A.112 E.1a.4.2, E.2a.5.2, E.3.5.2, E.4.5.2, E.5.5.2, E.6.3.2, E.7.5.2, E.8.5.2, E.9.5.2, E.10.5, E.11.5, E.12.5, E.13.5 F.3.9.3 CR #1a, Section 6.5; Appendix C Section 3 CR #2a / CR #2b, Section 7.0 / Section 3.1 CR #3, Section 5.3.3, 5.4.3, 5.5.3, 7.1 CR #5 Section 5 CR #7, Section 6.3, 7.1.3, 7.2.3, 7.3.3 CR #8, Section 4 CR #9, Section 7.2 CR #10, Section 6 CR #11, Section 7.4 CR #12, Section 6.5	Addendum 1 (CEAA Doc#44), CR # 6 Section 6 Addendum 5 (CEAA Doc#69), SIR #110 Addendum 8, Part C, SIR# AER 24, 31

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ToR No.	AER ToR Description	Reference Section in Application (EIS, Aug 2016)	Addendum#
	a) How the monitoring programs will assess any Project impacts and measure the effectiveness of mitigation plans;	A.11 E.1a.4.2, E.2a.5.2, E.3.5.2, E.4.5.2, E.5.5.2, E.6.3.2, E.7.5.2, E.8.5.2, E.9.5.2, E.10.5, E.11.5, E.12.5, E.13.5 F.3.9.3 CR #1a, Section 6.5; Appendix C Section 3 CR #2a / CR #2b, Section 7.0 / Section 3.1 CR #3, Section 5.3.3, 5.4.3, 5.5.3, 7.1 CR #5 Section 5 CR #7, Section 6.3, 7.1.3, 7.2.3, 7.3.3 CR #8, Section 4 CR #9, Section 7.2 CR #10, Section 6 CR #11, Section 7.4 CR #12, Section 6.5	Addendum 1 (CEAA Doc#44), CR # 6 Section 6 Addendum 8, Part C, SIR# AER 24
	b) Regional monitoring that will be undertaken to assist in managing environmental effects, confirm performance of mitigation measures and improve environmental protection strategies;	CR #3, Section 5.3.3, 5.4.3, 5.5.3, 7 CR #5, Section 5.0 CR #9, Section 7.2	Addendum 1 (CEAA Doc#44), CR # 6 Section 6
	c) how these monitoring programs are consistent with other current or proposed regional monitoring programs;	CR #3 Section 7.1 CR #5 Section 5.0	--
	d) monitoring performed in conjunction with other stakeholders, including aboriginal communities and groups;	H.3.7, H.4.7, H.5.7, H.6.7, H.7.7, H.9.7, H.12.7 CR #5, Section 5.0 CR #8, Section 4.6.4.2 CR #9, Section 7.2 CR #10, Section 6 CR #12, Section 7.4	Addendum 1 (CEAA Doc#44), CR # 6 Section 6
	e) new monitoring initiatives that may be required as a result of the Project; and	CR #5, Section 5.0 CR #9, Section 7.2	Addendum 1 (CEAA Doc#44), CR # 6 Section 6
	f) how the results of monitoring programs and publicly available monitoring information will be integrated with the Proponent's environmental management system.	C.7.3, C.7.6	--

EIA Application - Appendix 2b

CEAA Terms of Reference

Updated October 17, 2018

REGULATORY SUBMISSIONS FOR THE GRASSY MOUNTAIN COAL PROJECT

Document	Date Submitted	Contents	CEAA Doc #
EIS Application	August 15, 2016	Integrated Application with supporting Environmental Impact Assessment	42
Addendum 1	January 31, 2017	CR6 Aquatic Resources Addendum CR9: Wildlife Addendum	44
Addendum 2	October 16, 2017	Errata Section C.5.1 and C.5.2 Updated CCA application Updated Water Act (Fence-line) application Updated Water Act Licencing application	53
Addendum 3	November 9, 2017	Updated PLA Application	54
Addendum 4	November 27, 2017	Updated Concordance Tables (November 2017) Response to CEAA conformity related IRs	55
Addendum 5	February 28, 2018	Response to AER IRs related to EIA, CCA, PLA, WA, EPEA applications.	69
Addendum 6	April 30, 2018	Response to CEAA Round 1 Technical IR	70
Addendum 7	May 28, 2018	Response to AER PLA and WA IRs	72
Addendum 8	October 17, 2018	Response to CEAA Conformity IRs Response to CEAA Round 2 Technical IRs Response to AER Round 2 Technical IRs Updated Concordance Tables (October 2018)	Number not yet assigned

Table 2 CEEA Guidelines for the Preparation of Environmental Impact Statement for Benga Mining Limited (Benga Mining) Proposed Grassy Mountain Coal Project			
Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
1	INTRODUCTION AND OVERVIEW		
1.1	THE PROPONENT		
	IN THE EIS, THE PROPONENT WILL:		
	-provide contact information (e.g., name, address, phone, fax, email);	A.3.2	---
	- identify itself and the name of the legal entity that would develop, manage, and operate the Project;	A.1	---
	- describe corporate and management structures;	A.3.1	---
	- specify the mechanism used to ensure that corporate policies will be implemented and respected for the Project; and	C.7.1	---
	- identify key personnel, contractors, and sub-contractors responsible for preparing the EIS.	Appendix 3	---
1.2	Project Overview		
	The EIS will describe the Project, key project components and associated activities, scheduling details, the timing of each phase of the Project, and other key features. If the Project is a part of a larger sequence of projects, the EIS will outline the larger context. The overview is to identify the key components of the Project, rather than providing a detailed description, which will follow in section 3 of this document.	A.6 Table A.6.6-1 (Schedule) Figure A.1.0-2	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#21, Figure 21-1 Addendum 6 (CEAA Doc#70), Section A, SIR#CEAA 5 and Appendix A-4
1.3	Project Location		
	The EIS will contain a description of the geographical setting in which the Project will take place. This description will focus on those aspects of the Project and its setting that are important in order to understand the potential environmental effects of the Project. The following information will be included:	A.4	---
	- the UTM coordinates of the main project site;	A.4	---
	- current land use in the area and land tenure;	E.10.2 Land use baseline conditions Current land/resource use: H.3.3.2, Figure H.3.1-1: Kanai Nation H.4.3.2, Figure H.4.1-1: Piikani Nation H.5.3.2, Figure H.5.1-1: Siksika Nation H.6.3.2, Figure H.6.1-1: Stoney Nakoda H.7.3.2, Figure H.7.1-1: Tsuut'ina Nation	---

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Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
		H.8.3, Figure H.8.1-1: Ktunaxa Nation H.9.3; Figure H.9.1-1: Samson Cree Nation H.10.3, Figure H.10.1-1: Shuswap Indian H.11.3: Foothills Ojibway First Nation H.12.3, H.12.4; Figure H.12.1-1, H.12.4-1: Métis Nation of Alberta Region 3 H.13.3, Figure H.13.1-1: Métis Nation of BC Region 4 CR #10 Land and Resource Use, Section 4, Table 4.1-1	
	– distance of the project facilities and components to any federal lands;	A.4, Figure A.4.0-2 CR #10 Land and Resource Use, Section 4.9	---
	– the environmental significance and value of the geographical setting in which the Project will take place and the surrounding area;	E.10.2.2.5 CR#9 Wildlife, Section 1.3 CR #10 Land and Resource Use, Section 4.2.5, Figure 4.2-4	---
	– environmentally sensitive areas, such as national, provincial and regional parks, ecological reserves, wetlands, and habitats of federally or provincially listed species at risk and other sensitive areas;	E.10.2.9 - National and provincial parks CR #10 Land & Resource Use, Sections 4.2.3, 4.2.6, 4.9, 4.10, 4.11; Figures 4.2-3, 4.2-5, 4.9-1, 4.10-1, 4.11-1 CR#9 Wildlife Section 1.3, Figures 1.3-1 and 2.2-2	---
	– local and Aboriginal communities; and	E.11.2.1 - Local population H.1, H.3.1, H.4.1, H.5.1, H.6.1, H.7.1, H.8.1, H.9.1, H.10.1, H.11.1, H.12.1, H.13.1 CR #11 Socio-economics, Section 3	---
	– traditional Aboriginal territories, treaty lands, and Indian reserve lands.	Traditional use: H.3.3.1, Figure H.3.1-1: Kanai Nation H.4.3.1, Figure H.4.1-1: Piikani Nation H.5.3.1, Figure H.5.1-1: Siksika Nation H.6.3.1, Figure H.6.1-1: Stoney Nakoda Nation H.7.3, Figure H.7.1-1: Tsuut'ina Nation H.8.3, Figure H.8.1-1: Ktunaxa Nation H.9.3; Figure H.9.1-1: Samson Cree Nation H.10.2,2, H.,10.3, Figure H.10.1-1: Shuswap Indian Band H.11.3: Foothills Ojibway First Nation H.12.3; Figure H.12.1-1, H.12.4-1,: Métis Nation of Alberta Region 3 H.13.3, Figure H.13.1-1: Métis Nation of BC Region 4	---

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Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
1.4	Regulatory Framework and the Role of the Government		
	The EIS will identify:		
	- any federal power, duty or function that may be exercised that would permit the carrying out (in whole or in part) of the Project or associated activities;	A.5.2 Federal legislation	---
	- the environmental and other regulatory approvals and legislation that are applicable to the Project at the federal, provincial, regional, and municipal levels, including:	A.5.1, A.5.2, A.5.3 Provincial, federal, municipal and other approvals/ authorizations required	---
	✓ the project activity or component requiring regulatory approval;	A.5.1, A.5.2, A.5.3	---
	✓ the name of the permit or regulatory approval;	A.5.1, A.5.2, A.5.3	---
	✓ the applicable legislation in each case; and	A.5.1, A.5.2, A.5.3	---
	✓ the regulatory agencies responsible for each permit or approval;	A.5.1, A.5.2, A.5.3	---
	- government policies, resource management, planning, or study initiatives pertinent to the Project and/or EA, and their implications;	E.10.2.2: Land and Resource Use Planning E.10.2.11: Provincial and Federal Dispositions CR #10 Land & Resource Use, Section 4.2 and 4.11: Coal development policy, resource planning, regional plan, and disposition reservations	---
	- any treaty or self-government agreements with Aboriginal groups that are pertinent to the Project and/or EA;	H.3.1, H.4.1, H.5.1, H.6.1, H.7.1: Treaty 7 (Blood Tribe (Kanai Nation), Piikani Nation, Siksika Nation, Stoney Nakoda Nation, Tsuut'ina Nation) H.8.1 : Ktunaxa Kinbasket Treaty H.9.1: Treaty 6 H.10.1, H.11.1: No treaties or agreements for Shuswap Indian Band or Foothills Ojibway FN H.12.1, H.13.1: No treaties or agreements for Metis Nations of Alberta and BC	---
	- any relevant land use plans, land zoning, or community plans; and	E.10.2.2: Land and resource use planning CR #10 Land & Resource Use, Section 4.2	---
	- regional, provincial and/or national objectives, standards or guidelines that have been used by the proponent to assist in the evaluation of any predicted environmental effects.	D.2.5.3 CR #1a Air Quality, Section 2.4 CR #2a Noise, Section 1 CR #3 Hydrogeology, Section 3.4 CR #5 Water Quality, Section 2.2.2 CR #7 Soil & Terrain, Section 4.2, 5.5 CR #8 Vegetation & Wetlands,, Section 2.3.10 CR #9 Wildlife, Table 1.4-1 CR #12 Human Health, Section 5.2, 5.3, 5.4	Addendum 1(CEEA Doc#44), CR #6 Aquatic Resources, Section 2

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Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
2	PROJECT JUSTIFICATION AND ALTERNATIVES CONSIDERED		
2.1	Purpose of the Project		
	The EIS will describe the purpose of the Project by providing the rationale for the Project, explaining the background, the problems, or opportunities that the Project is intended to satisfy, and the stated objectives from the perspective of the proponent. If the objectives of the Project are related to broader private or public sector policies, plans, or programs, this information also will be included.	A.2	---
	The EIS also will describe the predicted environmental, economic, and social benefits of the Project. This information will be considered in assessing the justifiability of any significant adverse residual environmental effects if such effects are identified.	A.2: Project Need – includes discussion of economic benefits of Project E.11.7: Summary of economic and fiscal benefits F.1.7: Gold Creek Stewardship Program F.2.1: Mitigation and reclamation of legacy mining areas CR #11 Socio-economics, Sections 1.3, 4.2 to 4.5, 6.5, 7.4, 9.4	---
2.2	Alternative Means of Carrying Out the Project		
	The EIS will identify and consider the effects of alternative means of carrying out the Project that are technically and economically feasible. The proponent will complete the following procedural steps for addressing alternative means:		
	– identify the alternative means to carry out the Project;	A.7 Discussion of alternative means for key aspects of mine planning execution	---
	– identify the effects of each technically and economically feasible alternative means;	A.7 Discussion of alternative means includes assessment of technical and economic feasibility and effects	---
	– select the approach for the analysis of alternative means (<i>i.e.</i> , identify a preferred means or bring forward alternative means); and	A.7.1 to A.7.11 Feasibility analysis methods are provided for each category of alternative means.	---
	– assess the environmental effects of the alternative means.	A.7.2.4, A.7.3.4, A.7.4.4, A.7.5.4, A.7.6.4, A.7.7.3, A.7.8.4, A.7.9.4, A.7.10.4 Environmental evaluation for each key aspect considered in the alternative means assessment	---
	In its alternative means analysis, the proponent will address, key project components such as:		
	– transportation of coal through to existing rail lines (means and routing considered);	A.7.4	---
	– access to the project site, including highway access points and watercourse crossings;	A.7.2	---

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	– energy sources to power the project site;	A.7.9	---
	– water supply;	A.7.10	---
	– mine waste disposal (methods and sites considered); and	A.7.2; A.7.5 Mine configuration – rock disposal areas; Coal processing fines management	---
	– water management	A.7.6 Water and selenium management	---
3.0	PROJECT DESCRIPTION		
3.1	Project Components		
	The EIS will describe the Project, by presenting the project components, associated and ancillary works, and other characteristics that will assist in understanding the environmental effects. This will include:		
	– maps, at an appropriate scale, of the project location, the project components, boundaries of the proposed site with UTM coordinates, the major existing infrastructure, adjacent land uses, and any important environmental features;	Figure A.1.0-2 CR #10 Land Use, Figures 4.2-2, 4.3-1, 4.4-2, 4.5-1, 4.6-1, 4.7-1, 4.8-1, 4.9-1, 4.11-1 CR #10, Figures 4.2-3, 4.2-4, 4.2-5 Important environmental features	---
	– waste rock, overburden, topsoil, tailings, coal storage, and stock piles (footprint, locations, volumes, UTM coordinates, height from ground of each component, development plans, and design criteria);	C.1.1, C.1.2, Mine planning criteria and design C.1.3, Table C.1.3-1, Figures C.1.3-1 to 1.3-24 Annual progression of mine on topographic map layer Appendix 9a, Section 4.1 Design criteria in Waste Dump and Infrastructure Geotechnical Report	---
	– open pit mines (footprint, location, development plans including pit phases);	C.1.2.4, C.1.3; Figures C.1.3-1 to 1.3-24 Pit design and development plan; figures shows mine location, footprint, and phases.	---
	– coal handling and processing plants (footprint, technology, location);	C.2.4, C.2.8; Figure C.2.4-1 Description of processing plant location and operations /technology; Figure shows CHPP footprint	---
	– water management infrastructure (pit water, mine effluent, water diversions, groundwater wells, reservoir, storage tanks);	C.5.3, C.5.5, C.6.12 Water management/ treatment; potable water	Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 5

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	– permanent and temporary linear infrastructures (highway access intersections, access roads, rail load out facilities, pipelines, conveyor, power supplies), identifying the route of each of these linear infrastructures, the location (including UTM coordinates) and types of structure used for stream crossings;	Figure A.1.0 routes/locations of all linear infrastructures C.1.6, Figure C.1.6-1 Haul road design C.2.7, Figure C.2.7-1 Overland conveyor and loadout facility; Train loadout flowsheet C.3, Figure C.3.1-1 Proposed rail layout C.4, Figure C.4.1-1 , C.4.1-2 Access roads	---
	– drinking and industrial water requirements (source, quantity required, need for water treatment);	C.5.1 – requirements and source C.5.3 – water treatment	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2
	– explosives manufacturing and storage facilities (bulk explosives and explosives storage);	C.1.5.2	---
	– energy supply (source, quantity); and	C.6.15, C.6.15.2	---
	– waste disposal (type of waste, method of disposal, quantity).	C.7.8	---
3.2	Project Activities		
	The EIS will include descriptions of the construction, operation, decommissioning, and abandonment associated with the proposed project. This will include descriptions of the activities to be carried out during each phase, the location of each activity, expected outputs, and an indication of the activity's magnitude and scale. Although a complete list of project activities should be provided, the emphasis will be on activities with the greatest potential to have environmental effects. Sufficient information will be included to predict environmental effects and address public concerns identified. Highlight activities that involve periods of increased environmental disturbance or the release of materials into the environment.		
	The EIS will include a summary of the changes that have been made to the Project since originally proposed, including the benefits of these changes to the environment, Aboriginal peoples, and the public.		
	The EIS will include a schedule including time of year, frequency, and duration for all project activities. The information will include a description of:		
3.2.1	Site Preparation and Construction		
	– site clearing, excavation;	C.1.3.2, C.1.3.3, C.1.5.1 Figures C.1.3-1 to C.1.3-26 Summary of mine development. Figures are annual status for life of mine showing advance of disturbance.	---
	– blasting (frequency and methods, type of explosive used);	C.1.5.2	
	– water diversion required (location, methods, timing);	C.5.3 , C.5.4, C.5.5 Figures C.5.3-1 to C.5.3-4, Table C.5.4-1	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2

Table 2 CEEA Guidelines for the Preparation of Environmental Impact Statement for Benga Mining Limited (Benga Mining) Proposed Grassy Mountain Coal Project			
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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
		Description of water management features. Figures show locations and Table summarizes water management plan	
	– equipment requirements (type, quantity);	C.1.4, Table C.1.4-1	Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 19
	– administrative buildings, garages, construction camp, other ancillary facilities;	C.6	---
	– number of employees and transportation of employees; and	C.1.6; Table C.1.6-1 Workforce requirements during life of mine CR #11 Socio-economics, Sections 4.5, 10.4 Number of employees, transportation of employees	---
	– construction of coal processing plants.	A.6.6	---
3.2.2	Operation		
	- mining plan, coal production, coal stockpiling;	C.1.3, C.2.4, C.2.6.1, C.2.6.6 Mine schedule; coal production; ROM stockpiles, stacking	---
	– equipment requirements;	C.1.4, Table C.1.4-1, C.1.4-2; Figure C.1.5-1	---
	– explosive uses (manufacturing, storage location, and management);	C.1.5.2	---
	– blasting (frequency and methods);	C.1.5.2	---
	– water management on the project site, including a detailed water budget;	C.5, Figures C.2.5-1, C.5.4-1	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2
	– coal treatment;	C.2.4	---
	– petroleum products (source, volume, storage);	C.6.6	---
	– characterisation and management of coal, waste rock, tailings, overburden, and reject material (volumes generated, mineralogical characterisation, potential for metal leaching and acid rock drainage);	C.1.3, Mine development plan with volumes generated C.1.1.1, Description of mining, including volumes of mineable reserves and overburden rock C.1.2.5, Table C.1.2.2, Scheduled tonnage by phase C.8.1.3, C.8.2.3, Results of geochemistry analysis on coal handling and processing plant residues C.8.3.1, Selenium management	---

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Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
		C.8.3.2, Acid rock drainage management Appendix 10A. Section 5.4. Section 6 , Geochemical Characterization Progress Report CR #7 Soils & Terrain, Section 5.0, Table 5.5-1 (refers to Geochemical Characterization Progress Report, which is Appendix 9d of Application) Discussion of overburden assessment, including salinity, pH, calcium carbonate, physical characteristics, acid rock drainage, trace elements.	
	– effluent management and treatment (quantity, treatment requirement, release point);	C.5.3: Water treatment C.5.4: Water balance and management C.5.2.2: Non-consumptive water use, including reject	---
	- contribution to atmospheric emissions, including emissions profile (type, rate, and source)	E.1.3.1, Table E. 1.5-1 CR #1a Air Quality, Section 4, Table 4.2-1, 4.3-1, 4.6-1 to 4.6-4	---
	– waste management and recycling (other than mine waste such as tailings and waste rock);	C.7.8	---
	– transportation activities; and	C.3.2: Rail loading during operations C.4 and Appendix 8: Roads and traffic impact assessment	---
	– number of employees, transportation of employees, work schedule, lodging requirement on site and off site.	C.1.6: Number of employees E.11.3.3, E.11.3.4: Number of employees, housing requirements CR #11 Socio-economics, Sections 4.5.8, 6.3.2, 10.4	---
3.2.3	DECOMMISSIONING AND ABANDONMENT		
	– the preliminary outline of a decommissioning and reclamation plan for any components associated with the Project;	F.2.2: Reclamation Schedule F.3: C&R Plan	---
	– the ownership, transfer, and control of the different project components; and	F.2.2 F.4.5: Closure landscape	---
	– the responsibility for monitoring and maintaining the integrity of the remaining structures.	F.1.5, F.4.4 F.3.9.3	---
4	PUBLIC CONSULTATION AND CONCERNS		
	The EIS will describe the ongoing and proposed consultations and the information sessions that the proponent will hold or that it has already held on the Project. It will provide a description of efforts made to distribute project information and provide a description of information and materials that were distributed during the consultation process. The EIS will indicate the methods used, where the consultation was held, the persons and organizations consulted, the concerns voiced, and the extent to which this	Section G: Public engagement report, including scope, methods, and received comments Table G.4.0-1: Summary of key issues raised by stakeholders	---

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	information was incorporated in the design of the Project as well as in the EIS. The EIS will provide a summary of key issues raised related to the environmental assessment as well as describe any outstanding issues and ways to address them.		
5	ABORIGINAL ENGAGEMENT AND CONCERNS		
	For the purposes of developing the EIS, the proponent will engage with Aboriginal groups that may be affected by the Project, to obtain their views on:		
	– effects of changes to the environment on Aboriginal peoples (health and socio-economic issues; physical and cultural heritage, including any structure, site, or thing that is of historical, archaeological, paleontological, or architectural significance; and current use of lands and resources for traditional purposes); and	H.3.4; Tables H.3.4-1 to H.3.4-4, Kainai Nation H.4.4; Tables H.4.4-1 to H.4.4-5, Piikani Nation H.5.4; Tables H.5.4-1 to H.5.4-4, Siksika Nation H.6.4, Table H.6.4-1, H.6.4-2, Stoney Nakoda Nation H.7.4, Tables H.7.4-1 to H.7.4-4, Tsuut’ina Nation H.8.4, Ktunaxa Nation H.9.4, Tables H.9.4-1 to H.9.4-4, Samson Cree Nation H.10.4, Shuswap Indian Band H.11.4, Foothills Ojibway First Nation H.12.4, H.12.4-1 to H.12.4-3, Metis Nation of Alberta Region 3 H.13.4, Metis Nation of BC Region 4 E.10.3: Summary of potential impacts on land & resource use (including resource development, hunting & trapping, access, unique sites E.13.3: Potential impacts on historical resources CR #12 Human Health, Section 2.2 and 5.1.3: Human Health Assessment focus based on public and Aboriginal consultation; identification of receptors CR#11 Socio-economics, Section 9.3, Table 9.1: Effects on the local Aboriginal population	---
	- potential adverse impacts of the Project on potential or established Aboriginal or Treaty rights.	H.3.5, H.3.6.3; Table H.3.5-1, Kainai Nation H.4.5, H.4.6.3; Table H.4.5-1, Piikani Nation H.5.5, H.5.6.3; Table H.5.5-1, Siksika Nation H.6.5, H.6.6.3; Table H.6.5-1, Stoney Nakoda Nation H.7.5, H.7.6.3; Table H.7.5-1, Tsuut’ina Nation H.8.4, Ktunaxa Nation H.9.5; H.9.6.1, Samson Cree Nation H.10.4, Shuswap Indian Band H.11.4, Foothills Ojibway First Nation H.12.5, H.12.6.3; Table H.12.5-1, Metis Nation of Alberta Region 3 H.13.4, Metis Nation of BC Region 4 E.8.3.4, E.8.3.6: Potential effects on forestry resources and traditional use	---

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
		vegetation E.9.3: Potential impacts on wildlife VCs (including traditional use species) E.10.3: Potential impacts land & resource use (including resource development, hunting, trapping, access, and unique sites) E.11.3.8: Potential impacts of socio-economic conditions related to traditional use CR#8 Vegetation Section 4.4.1, Table 4.4-1; Section 4.6.1, Table 4.6-1 CR#9 Wildlife, Section 5.6, Table 5.3-26, Table 6.4-1 CR#10 Land & Resource Use, Section 5.4, 5.5, 5.6, 5.8 CR#11 Socio-economics, Section 9.3, Table 9.1	
With respect to the above matters and in addition to information requirements outlined in Part 2, sections 6.1.8 and 6.3.6 of these guidelines, the EIS will document:			
	- VCs suggested by Aboriginal groups for inclusion in the EIS, whether they were included, and the rationale for any exclusions;	H.2.2, Table H.2.2-1: Aboriginal Valued Components CR#8 Vegetation Section 3.6 Table 3.6-1: Traditional use vegetation species identified as VCs by Treaty 7 First Nations CR#9 Wildlife Table 2.2-1, Section 3.2.3: Wildlife identified as VCs by Treaty 7 First Nations, rationale for VC selection/exclusion CR#10 Land & Resource Use Table 3.2-1: VCs, including hunting, trapping, access, forestry, and unique sites CR#11 Socio-economics Section 9.3 Table 9.1: Aboriginal socio-economic VCs	Addendum 1 (CEAA Doc#44), CR#6 Section 4, Table 4.1: Traditional use fish species in LSA and RSA
	- each group's potential or established rights (including geographical extent, nature, frequency, timing), including maps and data sets (e.g., fish catch numbers) when this information is provided by a group to the proponent or available through public records;	H.3.3, H.4.3, H.5.3, H.6.3, H.7.3, H.8.1, H.9.1, H.10.1, H.11.1, H.12.1, H.13.1 Figures H.3.3-1 to H.13.4-1: Aboriginal background information and figures of traditional lands Appendix 7c: TK/TU Studies	---
	- based on the proponent's perspective, the potential adverse impacts of each of the project components and physical activities, in all phases, on potential or established Aboriginal or Treaty rights. This assessment is to be based on a comparison of the exercise of the identified rights between the predicted future conditions with the Project and the predicted future conditions without the Project. Include the perspectives of Aboriginal groups where these were provided to the proponent by the groups;	H.3.4, H.4.4, H.5.4, H.6.4, H.7.4, H.8.4, H.9.4, H.10.4, H.11.4, H.12.4, H.13.4 and tables therein (potential impacts) H.3.8, H.4.8, H.5.8, H.6.8, H.7.8, H.8.5, H.9.8, 12.8 and tables therein (feedback)	---
	- based on the proponent's perspective, the measures identified to mitigate or accommodate potential adverse impacts of the Project on the potential or established Aboriginal or Treaty rights. These measures will be written as specific commitments that clearly describe how the proponent intends to implement them;	H.3.4, H.4.4, H.5.4, H.6.4, H.7.4, H.8.4, H.9.4, H.10.4, H.11.4, H.12.4, H.13.4, and tables therein. These sections provide potential effects and mitigation measures for current use of lands/resources for traditional use, and aboriginal health, socio-economics, and physical/cultural heritage. Appendix 2A: Mitigations and commitments CR#8 Vegetation Section 4.6.4: Mitigation and monitoring for traditional use	---

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		vegetation CR#9 Wildlife Section 7.1: Wildlife mitigation measures (which include traditional use species) CR#10 Land & Resource Use Section 6: Mitigations for effects, including those on traditional use CR#11 Socio-economics Section 9.4: Mitigations specific to traditional land use and culture	
	- based on the proponent’s perspective, the effects of changes to the environment on Aboriginal peoples or potential adverse impacts on potential or established Aboriginal or Treaty rights that have not been fully mitigated or accommodated as part of the environmental assessment, including the residual and cumulative effects. The EIS will include the perspectives of Aboriginal groups where these were provided to the proponent by the groups;	H.3.5, H.4.5, H.5.5, H.6.5, H.7.5, H.9.5, H.12.5 Characterization of residual effects for Kanai Nation, Piikani Nation, Siksika Nation, Stoney Nakoda Nation, Tsuut’ina Nation, Samson Cree Nation, Metis Nation of Alberta (no anticipated effects for other groups) H.3.6, H.4.6, H.5.6, H.6.6, H.7.6, H.9.6, H.12.6 Cumulative effects assessment for Kanai Nation, Piikani Nation, Siksika Nation, Stoney Nakoda Nation, Tsuut’ina Nation, Samson Cree Nation, Metis Nation of Alberta (no anticipated effects for other groups) H.3.4, H.4.4, H.5.4, H.6.4, H.7.4, H.8.4, H.9.4, H.10.4, H.11.4, H.12.4, H.13.4, AND TABLES THEREIN. RECOMMENDED MITIGATION MEASURES PROVIDED BY FIRST NATIONS. CR#8 Vegetation Section 4.6.5, Table 5.1-1: Impact rating for traditional use species CR#9 Wildlife Section 5.3.11, Table 5.3-26, Section 5.4.9, Table 5.4-1, Section 5.5; Section 6.4, Table 6.4-1: Residual effects for wildlife, including some traditional use species; Cumulative effects CR#10 Land & Resource Use Sections 5.2 to 5.8; Section 8.0, Table 8.0-1: Potential effects on VCs including resource development, hunting & trapping, access, and unique sites; Cumulative effects CR#11 Socio-economics Section 9.5, Section 12 Table 12.1: Effects on Aboriginal communities	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1: Cumulative Effects Assessment
	- specific suggestions raised by Aboriginal groups for mitigating the effects of changes to the environment on Aboriginal peoples or accommodating potential adverse impacts of the Project on potential or established Aboriginal and Treaty rights;	H.3.4, H.4.4, H.5.4, H.6.4, H.7.4, H.8.4, H.9.4, H.10.4, H.11.4, H.12.4, H.13.4, and tables therein. Potential effects and mitigation measures	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 8
	- views expressed by Aboriginal groups on the effectiveness of the mitigation or accommodation measures;	H.2.4, H.2.7, H.3.7, H.4.7, H.5.7, H.6.7, H.7.7, H.9.7, H.12.7 (no group has	---

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		yet provided feedback on effectiveness but these groups indicate monitoring will verify effectiveness)	
	- from the proponent’s perspective, any potential cultural, social, and economic impacts or benefits to Aboriginal groups that may arise as a result of the Project. The EIS will include the perspectives of Aboriginal groups where these were provided to the proponent by the groups;	<p>H.3.2.3, H.4.2.3, H.5.2.3, H.6.2.3, H.7.2.3, Economic opportunities – Kanai Nation, Piikani Nation, Siksika Nation, Stoney Nakoda Nation, Tsuut’ina Nation</p> <p>H.3.4.3, H.4.4.3, H.5.4.3, H.6.4.3, H.7.4.3, H.9.4.3, H.12.4.3 Potential effects to Aboriginal socio-economic conditions - Kanai Nation, Piikani Nation, Siksika Nation, Stoney Nakoda Nation, Tsuut’ina Nation, Samson Cree Nation, Metis Nation of Alberta</p> <p>H.3.4.4, H.4.4.4, H.5.4.4, H.6.4.4, H.7.4.4, H.9.4.4, H.12.4.4 Potential effects to Aboriginal physical cultural heritage –Kanai Nation, Piikani Nation, Siksika Nation, Stoney Nakoda Nation, Tsuut’ina Nation, Samson Cree Nation, Metis Nation of Alberta</p> <p>CR#11 Socio-economics Section 9.3: Effects assessment for traditional land use and Aboriginal culture</p>	---
	- comments, specific issues, and concerns raised by Aboriginal groups and how the key concerns were responded to or addressed;	<p>H.3.4, H.3.8, Tables H.3.4-2 to H.3.4-4, H.3.8-1: Kanai Nation H.4.4, H.4.8, Tables H.4.4-2 to H.4.5-6, H.4.8-1: Piikani Nation H.5.4, H.5.8, Tables H.5.4-2 to H.5.4-4, H.5.8-1: Siksika Nation H.6.4, H.6.8, Table H.6.4-2, H.6.8-1: Stoney Nakoda Nation H.7.4, H.7.8, Tables H.7.4-2 to H.7.4-4, H.7.8-1: Tsuut’ina Nation H.8.5, Table H.8.5-1: Ktunaxa Nation H.9.4, H.9.8, Tables H.9.4-2 to H.9.4-4, H.9.8-1: Samson Cree Nation CR #9 Wildlife Section 5.6</p>	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 8
	- changes made to the project design and implementation directly as a result of discussions with Aboriginal groups;	<p>H.1.1, H.1.1.1, H.1.1.2, H.1.1.4: Aboriginal consultation and TEK</p> <p>Mitigation/ implementation measures arising from consultation with: Kanai Nation :H.3.8, Table H.3.8-1 Piikani Nation: H.4.8, Table H.4.8-1 Siksika Nation : H.5.8, Table H.5.8-1</p>	---

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		Stoney Nakoda Nation : H.6.8, Table H.6.8-1 Tsuut'ina Nation: H.7.8, Table H.7.8-1 Ktunaxa Nation: H.8.5, Table H.8.5-1 Samson Cree Nation: H.9.8, Table H.9.8-1 Metis Nation of Alberta: Section H.12.8, Table H.12.8-1	
	- where and how Aboriginal traditional knowledge was incorporated into the environmental effects assessment (including baseline conditions and effects analysis for VCs) and the consideration of potential adverse impacts on potential or established Aboriginal or Treaty rights and related mitigation measures; and	H.1.1.4.3 H.2.2, H.3.4, H.4.4, H.5.4, H.6.4, H.7.4, H.8.4, H.9.4, H.10.4, H.11.4, H.12.4, H.13.4 and tables therein. Potential effects and mitigation measures for consulted Aboriginal groups Tables H.3.8-1, H.4.8-1, H.3.8-1, H.6.8-1, H.7.8-1, H.8.5-1, H.9.8-1, H.12.8-1 Feedback from and responses to consulted Aboriginal groups H.3.5, H.4.5, H.5.5, H.6.5, H.7.5, H.9.5, H.12.5: Characterization of residual effects for consulted Aboriginal groups H.3.6, H.4.6, H.5.6, H.6.6, H.7.6, H.9.6. H.12.6: Cumulative effects assessment for for consulted Aboriginal groups CR #1a Air Quality, Section 2.5.3.2 CR #5 Surface Water Quality, Section 3.2.2, 3.2.5 CR #8 Vegetation, Section 3.6, 4.6, Table 3.6-1 CR #9 Wildlife, Table 2.2-1, Section 3.2.3, 5.6, 7.1, 7.2 CR #11 Socio-economic, Section 9 CR #12 Human Health, Sections 2.2, 5.1.3.1	Addendum 1, (CEEA Doc#44), CR #6 Aquatic Resources, Section 4 Addendum 8, Part A, SIR# CEEA 1
	- any additional issues and concerns raised by Aboriginal groups in relation to the environmental effects assessment and the potential adverse impacts of the Project on potential or established Aboriginal and Treaty rights.	none	---
5.1	Aboriginal Groups to Engage & Engagement Activities		
	With respect to engagement activities, the EIS will document:		
	- the engagement activities undertaken with Aboriginal groups prior to the submission of the EIS, including the date and means of engagement (e.g., meeting, mail, telephone);	Consultation summaries and chronologies of key consultation activities for: Kainai Nation: H.3.2.1, Table H.3.2-1 Piikani Nation: H.4.2.1, Table H.4.2-1	---

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		Siksika Nation:H.5.2.1, Table H.5.2-1 Stoney Nakoda Nation: H.6.2.1, Table H.6.2-1 Tsuut’ina Nation: H.7.2.1, Table H.7.2-1 Ktunaxa Nation: H.8.2.1, Table H.8.2-1 Samson Cree Nation: H.9.2.1, Table H.9.2-1 Shuswap Indian Band: H.10.2.1, Table H.10.2-1 Foothills Ojibway First Nation: H.11.2.1, Table H.11.2-1 Metis Nation of Alberta Region 3: H.12.2.1, Table H.12.2-1 Metis Nation of BC Region 4: H.13.2.1, Table H.13.2-1 Appendix 7b: Records of Communication	
	- any future planned engagement activities; and	Follow-up & monitoring and ongoing consultation with: Kainai Nation: H.3.7, Table H.3.8-1 Piikani Nation: H.4.7, Table H.4.8-1 Siksika Nation: H.5.7, Table H.5.8-1 Stoney Nakoda Nation: H.6.7 Tsuut’ina Nation: H.7.7, Table H.7.8-1 Samson Cree Nation : H.9.7, Table H.9.8-1 Metis Nation of Alberta: H.12.7	---
	- how engagement activities by the proponent allowed Aboriginal groups to understand the Project and evaluate its effects on their communities, activities, potential or established Aboriginal or Treaty rights, and other interests.	H.1.1: Description of Aboriginal consultation activities H.1.1.1: Consultation with Treaty 7 First Nations H.1.1.2: Consultation with other Aboriginal groups H.1.1.4: TEK/TLU opportunities for Treaty 7 First Nations Consultation summaries: Kainai Nation: H.3.2.1, Table H.3.2-1 Piikani Nation: H.4.2.1, Table H.4.2-1 Siksika Nation: H.5.2.1, Table H.5.2-1 Stoney Nakoda Nation: H.6.2.1, Table H.6.2-1 Tsuut’ina Nation: H.7.2.1, Table H.7.2-1 Ktunaxa Nation: H.8.2.1, Table H.8.2-1 Samson Cree Nation: H.9.2.1, Table H.9.2-1 Shuswap Indian Band: H.10.2.1, Table H.10.2-1 Foothills Ojibway First Nation: H.11.2.1, Table H.11.2-1 Metis Nation of Alberta Region 3: H.12.2.1, Table H.12.2-1 Metis Nation of BC Region 4: H.13.2.1, Table H.13.2-1	---

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	In preparing the EIS, the proponent will ensure that Aboriginal groups have access to timely and relevant information on the Project and how the Project may adversely impact them. The proponent will structure its Aboriginal engagement activities to provide adequate time for Aboriginal groups to review and comment on the relevant information (see section 5.0). Engagement activities are to be appropriate to the groups' needs and should be arranged through discussions with the groups, as appropriate. The EIS will describe all efforts, successful or not, taken to solicit the information required from Aboriginal groups to support the preparation of the EIS.	Appendix 7a: First Nations Consultation Plan Appendix 7b : Aboriginal Consultation Records H.1.1.1: Consultation with Treaty 7 First Nations H.1.1.2: Consultation with Other Aboriginal Groups Consultation summaries: Kainai Nation: H.3.2.1, Table H.3.2-1 Piikani Nation: H.4.2.1, Table H.4.2-1 Siksika Nation: H.5.2.1, Table H.5.2-1 Stoney Nakoda Nation: H.6.2.1, Table H.6.2-1 Tsuut'ina Nation: H.7.2.1, Table H.7.2-1 Ktunaxa Nation: H.8.2.1, Table H.8.2-1 Samson Cree Nation: H.9.2.1, Table H.9.2-1 Shuswap Indian Band: H.10.2.1, Table H.10.2-1 Foothills Ojibway First Nation: H.11.2.1, Table H.11.2-1 Metis Nation of Alberta Region 3: H.12.2.1, Table H.12.2-1 Metis Nation of BC Region 4: H.13.2.1, Table H.13.2-1	---
	The proponent will ensure that views of Aboriginal groups are recorded. The proponent will keep detailed tracking records of its engagement activities, recording all interactions with Aboriginal groups, the issues raised by each Aboriginal group and how the proponent addressed the concerns raised. The proponent will share these records with the Agency.	Aboriginal issues and concerns for: Kainai Nation: H.3.8, Table H.3.8-1 Piikani Nation: H.4.8, Table H.4.8-1 Siksika Nation : H.5.8, Table H.5.8-1 Stoney Nakoda Nation: H.6.8, Table H.6.8-1 Tsuut'ina Nation: H.7.8, Table H.7.8-1 Ktunaxa Nation: H.8.5, Table H.8.5-1 Samson Cree Nation: H.9.8, Table H.9.8-1 Metis Nation of Alnerta: H.12.8, Table H.12.8-1 H.3.2.1, H.4.2.1, H.5.2.1, H.6.2.1, H.7.2.1, H.8.2.1, H.9.2.1, H.10.2.1, H.11.2.1, H.12.2.1, H.13.2.1: Consultation summaries and chronologies of key consultation activities Appendix 7b – Aboriginal Consultation Records	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 8
	The proponent will hold meetings with the following potentially affected Aboriginal groups and facilitate these meetings by making key EA summary documents (baseline studies, EIS (draft/final), key findings, plain language summaries) accessible:		
	- Blood Tribe (Kainai Nation);	Appendix 7a, Table 4.1 Table H.3.2.1: Chronology of key consultation activities	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 8, Table DFO 8-4

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	- Piikani Nation	Appendix 7a, Table 4.1 Table H.4.2.1: Chronology of key consultation activities	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 8, Table DFO 8-5
	- Siksika Nation;	Appendix 7a, Table 4.1 Table H.5.2.1: Chronology of key consultation activities	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 8, Table DFO 8-6
	- Stoney Nakoda Nation (Bears paw Nation, Chiniki Nation and Wesley Nation); and	Appendix 7a, Table 4.1 Table H.6.2.1: Chronology of key consultation activities	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 8, Table DFO 8-7
	- Tsuu T'ina Nation.	Appendix 7a, Table 4.1 Table H.7.2.1: Chronology of key consultation activities	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 8, Table DFO 8-8
	For the above groups, the proponent will ensure there are sufficient opportunities for individuals and groups to provide oral input in the language of their choice. The proponent will ensure that these Aboriginal groups' views are heard and recorded.	H.1.1: Aboriginal consultation Tables H.3.2.1, H.4.2.1, H.5.2.1, H.6.2.1, H.7.2.1, H.8.2.1: Chronologies of key consultation activities Appendix 7b: Records of Communication	---
	There are additional Aboriginal groups that are expected to be less affected by the Project and its related effects. The proponent will make key EA summary documents (EIS, key findings, plain language summaries) accessible to these Aboriginal groups and ensure their views are heard and recorded. These Aboriginal groups include:		
	- Samson Cree Nation;	Appendix 7a, Table 4.1 Table H.9.2.1: Chronology of key consultation activities	---
	- Foothills Ojibway First Nation;	Appendix 7a, Table 4.1 Table H.11.2.1: Chronology of key consultation activities	---
	- Métis Nation of Alberta – Region 3;	Appendix 7a, Table 4.1 Table H.12.2.1: Chronology of key consultation activities	---
	- Métis Nation British Columbia - Region 4;	Appendix 7a, Table 4.1 Table H.13.2.1: Chronology of key consultation activities	---
	- St. Mary's Indian Band;	Appendix 7a, Table 4.1 Table H.10.2.1: Chronology of key consultation activities	---
	- Lower Kootenay Indian Band;	Appendix 7a, Table 4.1 Table H.8.2.1: Chronology of key consultation activities	---
	- Tobacco Plains Indian Band; and	Appendix 7a, Table 4.1 Table H.8.2.1: Chronology of key consultation activities	---
	- Akisq'nuk First Nation.	Appendix 7a, Table 4.1 Table H.8.2.1: Chronology of key consultation activities	---

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	- Shuswap Indian Band	Appendix 7a, Table 4.1 Table H.10.2.1: Chronology of key consultation activities	
6	EFFECTS ASSESSMENT		
6.1	Project Setting and Baseline Conditions		
	Based on the scope of Project described in section 3 (Part 1), the EIS will present baseline information in sufficient detail to enable the identification of how the Project could affect the VCs and an analysis of those effects. Should other VCs be identified during the conduct of the EA, the baseline condition for these components will also be described in the EIS. To determine the appropriate spatial boundaries to describe the baseline information, refer to section 3.3.3 (Part 1). As a minimum, the EIS will include a description of:		
6.1.1	Atmospheric Environment		
	- ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following contaminants: total suspended particulates, fine particulates (PM2.5), particulate matters up to 10 micrometres in size (PM10), sulfur oxide (SOx), volatile organic compounds (VOCs), and nitrogen oxide (NOx);	A.4.7 C.5.1.1 E.1.2.2: Ambient measurements were taken from representative regional stations, not on-site stations CR #1a Air Quality, Section 3.1; Appendix C, Section 5, Table C5-1: Summary of background air quality results that were used for dispersion modeling	Addendum 2 (CEAA Doc#53), C.5.1 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 15
	- current ambient noise levels at key receptor points (e.g., Aboriginal communities), including the results of a baseline ambient noise survey. Information on typical sound sources, geographic extent, and temporal variations will be included;	E.2a.2, E.2b.2 CR#2a Noise, Section 2.1, Figure 1: Baseline noise sources, residential receptors CR #2b Noise (Loadout), Section 3.1: Baseline noise	---
	- existing ambient night-time light levels at the project site and at any other areas where project activities could have an effect on light levels. The EIS will describe night-time illumination levels during different weather conditions and seasons;	CR #1a Air Quality, Section 5.16.2, Figures 5.16-1 to 5.16-3 Figures show viewsheds for illumination at key project components	. ---
	- historical records of monthly and total precipitation (rain and snow) and temperatures, including means, maximums, and minimums.	CR #1a Air Quality, Appendix C Section 4 CR #4 Hydrology, Tables 1, 2 3: Regional temperature and precipitation data	---
6.1.2	Geology and Geochemistry		
	- the bedrock and host rock geology of the deposit, including a table of geologic descriptions, geological maps, and cross-sections of appropriate scale;	Section B, Figures B.1.0-1 to B.2.0-7, Table B.6.1-1 Maps of regional geology, stratigraphy, formation thickness, cross- sections; Table of coal resources	---

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	- geomorphology, topography, and geotechnical characteristics of areas proposed for construction of major project components;	B.1 & B.1.1 App 9a – Sections 3.0 and 5.0 App. 9b – Sections 3, 4, 5, 6, 7 Site description, surficial rock general ground condition description, description of area proposed for major infrastructure	---
	- the geochemical characterisation of expected mine material such as waste rock, tailings, coal, reject material, overburden, and potential construction material in order to predict metal leaching and acid rock drainage;	C.8.1 & C.8.2: Description of sampling program and results App 9c – Section 2 & Fig 2, Section 4 App. 9d – Sections 2.1, 3.1, 5.1	---
	- geological hazards that exist in the areas planned for the project facilities and infrastructure, including:		
	✓ history of seismic activity in the area;	B.8.6, Tables B.8.6-3 and B.8.6-4 App 9a – Section 4.1 and Tables 2 & 3 Seismicity Rating	---
	✓ isostatic rise or subsidence; and	App 9a – Section 5.1: Notes about historic underground workings in area proposed for infrastructure	---
	✓ landslides, slope erosion and the potential for ground and rock instability, and subsidence following project activities;	F.4.4.4: Erosion control measures at closure. Appendix 9a – Section 4.4: Run-out analysis completed on external rock disposal areas	---
	✓ baseline concentrations of contaminants of concern (within the local, regional, and downstream receiving environments) (including by not limited to selenium, sulphate, cadmium, nitrate, and calcite);	Appendix 10A , Section 4.2.4: Site Seep Chemistry Appendix 10B: Baseline load balance inputs. CR #5 Water Quality, Section 3.2.3	---
	- geochemical characterisation of leaching potential, including, but not limited to, contaminants of concern from waste rock, pit walls, coal stockpiles, coarse coal rejects, and tailings.	C.8.2 App 9c – Section 4: Potential of ARD, Metal Leaching from waste rock, plant residues	---
6.1.3	Topography and Soil		
	- baseline mapping and description of landforms and soils within the local and regional project area;	E.7.2: Baseline soil conditions CR #7 Soils and Terrain, Section 3.3, Figures 3.3-1, 3.3-2 to 3.3-5: Description of soil map units, figures presenting slope classes and baseline soil and terrain of the RSA	---
	- maps depicting soil depth by horizon and soil order within the mine site	CR #7 Soils and Terrain Figures 3.3-2 to 3.3-5, and 4.1-1; Section 4.3:	---

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	area to support soil salvage and reclamation efforts, and to outline potential for soil erosion; and	Baseline soil and terrain of the RSA and soil layer thickness maps. Discussion of erosion risk assessment.	
	- suitability of topsoil and overburden for use in the rehabilitation of disturbed areas.	E.7.2.3: Reclamation suitability ratings CR #7 Soils and Terrain, Sections 4.2 (Table 4.1-2) and 5.3 (Table 5.3-1): Reclamation suitability ratings for soil models and overburden samples.	---
6.1.4	Groundwater and Surface Water		
	- the characterisation of the hydrogeology at the local and regional scales, including:		
	✓ the hydrogeological context (e.g., hydrostratigraphy with aquifers and aquitards, major faults, etc.) including the delineation of key stratigraphic and hydrogeologic boundaries;	E.3.2.1: Baseline conditions – regional geology CR #3 Hydrogeology , Section 4.4, Figures 4.2-1 to 4.2-8, 4.5-3 Groundwater conditions, springs and groundwater discharge features, and groundwater system summary and surface water-groundwater interactions	---
	✓ the physical properties of the hydrogeological units (e.g., hydraulic conductivity, transmissivity, saturated thickness, storativity, porosity, specific yield);	E.3.2.2, E.3.2.3: Hydrogeology baseline conditions CR #3 Hydrogeology , Section 3.2.2, 4.4, Figure 4.4-1, 4.4-3; Tables B3a and B3b: Groundwater conditions, hydraulic conductivity; Appendix C	---
	✓ the groundwater flow patterns and rates;	E.3.2.3, E.3.2.6 CR #3 Hydrogeology, Sections 4.4, 4.6, Figure 4.2-5, 4.2-8, 4.5-3; Table B5	---
	✓ a discussion of the hydrogeologic, hydrologic, structural, geomorphic, climatic, and anthropogenic controls on groundwater flow;	E.3.2.5, E.3.2.6: Discharge features, groundwater system summary CR #3 Hydrogeology , Section 4.1 to 4.6	---
	✓ temporal changes in groundwater flow (e.g., seasonal and long term changes in water levels);	E.3.2.3, E.3.2.6 CR #3 Hydrogeology , Section 4.4, 4.6, Figure 4.4-2	---
	✓ a delineation and characterisation of groundwater surface water interactions, including the locations of groundwater discharge to surface water and surface water recharge to groundwater;	E.3.2.5, E.3.2.6 CR #3 Hydrogeology, Section 4.5	Addendum 4 (CEAA Doc #55), Attachment 2, SIR #8,
	- hydrogeological maps and cross-sections for the mine area to outline the extent of aquifers and aquitards, including bedrock fracture and fault zones, locations and depths of wells and strainers, groundwater types springs, surface waters, and project facilities. Groundwater levels, potentiometric contours, flow directions, groundwater divides, and areas of recharge and discharge should be included;	CR #3 Hydrogeology , Figure 1.1-2, 3.1-1, 4.2-2, 4.2-3, 4.2-4 to 4.2-8, 4.3-1, 4.3-2, 4.5-1, 4.5-3, 5.1-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR #7,
	- all groundwater monitoring wells, including their location, in respect to the project area, including geologic, hydrostratigraphic, piezometric, and construction data (e.g., depths of surficial and bedrock units, quality,	CR #3 Hydrogeology, Figures 3.1-1, 4.2-5 to 4.2-8; Tables B2, B3a, B3b, B4, B6 to B10, B12	Addendum 6 (CEAA Doc#70) , Section C, SIR# DFO 15, 16, 17

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	fracture zones, piezometric levels, hydraulic conductivity, diameter and screen depth, and intercepted aquifer unit);		
	- monitoring protocol for collection of existing groundwater and surface water data;	CR #3 Hydrogeology, Section 7.1, 7.2, Appendix D: Groundwater field procedures CR #5 Water Quality, Section 3.1.3.2, Appendix A2	---
	- a conceptual hydrogeological model that integrates the geological, hydrogeological, and hydrological data to provide the overall conceptual understanding of groundwater flow and chemistry and their controls for the area;	CR #3 Hydrogeology, Section 4.6; Appendix C	---
	- an appropriate numerical hydrogeologic model for the project area, in which quantifies groundwater fluxes, flow path ways, and residence times; the model will be properly calibrated, fully documented and include a sensitivity analysis to test model sensitivity to climatic variations (e.g., recharge) and hydrogeologic parameters (e.g., hydraulic conductivity);	CR #3 Hydrogeology, Appendix C	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#9, ---
	- groundwater quality, including analytical results for metals, major ions, contaminants of concern, and physical parameters, including temperature	E.3.2.4 CR #3 Hydrogeology, Section 4.4, 4.6; Table B7 to B12	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#5
	- graphs or tables indicating the seasonal variations in groundwater levels, flow regime, and quality;	CR #3 Hydrogeology, Figure 4.4-2; Table B4, B7 to B9	---
	- local and regional potable groundwater supplies, including their current use and potential for future use;	E.3.2.7 CR #3 Hydrogeology, Section 4.7, Figure 4.7-1 to 4.7-3; Table B14, B15	---
	- bedrock fracture sizes and orientations in relation to groundwater flow;	E.3.2.3, E.3.2.6: Groundwater flow and groundwater system summary CR #3 Hydrogeology, Section 4.2, 4.4, Figure 4.2-2	---
	- the delineation of drainage basins, at appropriate scales (water bodies and watercourses), including intermittent streams, flood risk areas and wetlands, boundaries of the watershed and subwatersheds, overlaid by key project components;	CR #4 Hydrology, Figure 42	Addendum 1 (CEAA Doc#44), CR#6, Figures 1.1, 3.1
	- hydrological regimes, including monthly, seasonal, and annual water flow (discharge) data;	E.4.2.2, E.4.2.3 Appendix 10A CR #4 Hydrology, Section 3	Addendum 8, Part B, SIR# ECCC-R2-2
	- for each affected water body, the total surface area, bathymetry, maximum and mean depths, water level fluctuations, type of substrate (sediments);	---	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A1, Sections 3, 4

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	- seasonal surface water quality, including analytical results (e.g., water temperature, turbidity, pH, dissolved oxygen profiles, and contaminants of concern) and interpretation, for representative tributaries and water bodies, including all sites to receive mine effluents or runoff;	CR #5 Surface Water Quality, Section 3.1.3.1, 3.2.1, 3.2.3	Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 9 Addendum 8, Part B, SIR# ECCC-R2-2
	- surface water quantity, including seasonal changes in runoff entering watercourses;	E.4.3 CR #4 Hydrology, Section 5	Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 7 Addendum 8, Part B, SIR# ECCC-R2-2
	- any local and regional potable surface water resource;	CR #4 Hydrology, Section 5.1	---
	- sediment quality analysis for key sites likely to receive mine effluents.	CR #5 Water Quality, Section 3.2.3.1	Addendum 1 (CEAA Doc#44), CR#6, Section 4.2.1.1
6.1.5	Fish and Fish Habitat		
	For potentially affected surface waters:		
	- a characterisation of fish populations on the basis of species and life stage, including information on the surveys carried out and the source of data available (e.g., location of sampling stations, catch methods, date of catches, species, catch-per-unit effort);	E.6.2.1.1 and E.6.2.2: historical data sources and known population data. E.6.2.3.1: 2016 fish population study methods	Addendum 1 (CEAA Doc#44), CR#6, Sections 4, Appendix A1 Section 2, 3, 4
	- a description of primary and secondary productivity in affected water bodies, including a survey of benthic invertebrate communities with characterisation of seasonal variability;	E.6.2.2	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A1 Section 3 .2, 4.2
	- a list of any fish or invertebrate species at risk that are known to be present;	Section E.6.2.1, Table E.6.2-1	Addendum 1 (CEAA Doc#44), CR#6, Section 3.1, 4.0, Appendix A1
	- a description of the habitat by homogeneous section, including the length of the section, width of the channel from the high water mark (bankful width), water depths, type of substrate (sediments), aquatic and riparian vegetation, and photos;	Section E.6.2.2 and Section E.6.2.3.1	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A1 Section 3.1.1, 4.1.1, Appendix A2, Appendix A3 Addendum 6 (CEAA Doc#70), SIR #10 Addendum 8, Part B, SIR# DFO-R2-3, DFO-R2-4, DFO-R2-5,
	- a description of natural obstacles (e.g., falls, beaver dams) or existing structures (e.g., water crossings) that hinder the free passage of fish;	---	Addendum 1 (CEAA Doc#44), CR#6, Appendix A1, Section 3.1.1 and 4.1.1
	- maps, at a suitable scale, indicating the surface area of potential or confirmed fish habitat for spawning, nursery, feeding, overwintering, migration routes, etc. This information should be linked to water depths (bathymetry) to identify the extent of a water body's littoral zone;	---	Addendum 1 (CEAA Doc#44), CR#6, Appendix A1 Figure 4.10, 4.11, Section 3 and 4, Appendix A3

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	- the description and location of suitable habitats for fish species at risk that appear on federal and provincial lists and that are found or are likely to be found in the study area and in particular the westslope cutthroat trout in Gold Creek and Blairmore Creek drainages; Note that certain intermittent streams or wetlands may constitute fish habitat or contribute indirectly to fish habitat. The absence of fish at the time of the survey does not irrefutably indicate an absence of fish habitat.	---	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A1, Appendix A3 Addendum 4 (CEAA Doc#55), Attachment 3, SIR#2 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 36, 37
6.1.6	Migratory Birds and Their Habitat		
	- the various ecosystems found in the project area likely to be affected based on existing information;	E.9.2.1: Baseline habitat availability CR#8 Vegetation & Wetlands: Section 4.1.1,4.1.2: Figure 3.1-1 CR #9 Wildlife: Table 5.1-1	---
	- wetlands, including classification, location, size, and function (biochemical, hydrological, and ecological) based on existing information and surveys, if existing information is insufficient;	CR #8 Vegetation & Wetlands: Section 3.7, Table 3.7-1, Figure 3.7-1 CR #9 Wildlife: Table 2.4-1: Wetland classification and size based on wetlands as wildlife habitat	---
	- migratory and non-migratory birds (including waterfowl, raptors, shorebirds, marsh birds, and other land birds) based on existing information and surveys, if existing information is insufficient;	E.9.2.3: Baseline wildlife diversity, including migratory and non-migratory birds CR #9 Wildlife:Section 2.4.3.2	Addendum 8, Part A, SIR# CEAA 2
	- year-round migratory bird use of the area (e.g., winter, spring migration, breeding season, fall migration) using existing data and literature as well as surveys to provide current field data; and	CR #9 Wildlife, Section 2.4.3.2: Indicates seasons in which observations were made for each identified species	---
	- exposure to relevant contaminants of concern (see section 6.1.2) based on data from existing sources.	CR #9 Wildlife, Section 4.1: Discussion of wildlife health assessment CR #12 Human and Wildlife Health, Appendix H: Wildlife screening level risk assessment	Addendum 4 (CEAA Doc#55), Attachment 2,SIR#16
6.1.7	Species at Risk		
	- a list of all potential or known federally listed species at risk that may be affected by the Project (fauna and flora), using existing data, literature, and surveys to provide current field data;	E.6.2.1, Table 6.2-1: Fish E.8.2.2.1: Vegetation E.9.2.1.3: Wildlife CR #8 Vegetation & Wetlands, Section 3.2.1 CR #9 Wildlife, Section 2.4.2, Table 2.4-2	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Resources, Section 3.1, Appendix A1 Sections 1.3, 2.0, 3.0, 4.0
	- a list of all federal species designated by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) for listing on Schedule 1 of	E.6.2.1, Table 6.2-1: Fish	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Resources, Section 3.1, Appendix A1

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	the <i>Species at Risk Act</i> . This will include those species in the risk categories of extirpated, endangered, threatened, and special concern ;	E.8.2.2.1: Vegetation E.9.5.2: Wildlife CR #8 Vegetation & Wetlands, Section 3.2.1 CR #9 Wildlife, Section 2.4.2, Table 2.4-2	Sections 1.3, 2.0, 3.0, 4.0
	- any published studies that describe the regional importance, abundance, and distribution of species at risk;	E.8.2.2.1: Recovery plans for whitebark pine and limber pine CR #8 Vegetation & Wetlands, Section 3.2.1 CR #9 Wildlife, Section 2.4.2	Addendum 1 (CEAA Doc#44), CR#6, Section 3.1, Appendix A1 Sections 1.3, 2.0, 3.0, 4.0: Recovery Strategy for the Alberta populations of WSCT Addendum 4 (CEAA Doc#55), Attachment 2, SIR #12 (Whitebark)
	- residences, seasonal movements, movement corridors, habitat requirements, key habitat areas, identified critical habitat and/or recovery habitat (where applicable), and general life history of species at risk that may occur in the project area or be affected by the Project; and	CR#8 Vegetation & Wetlands, Appendix D; Figures 3.2-2 and 3.2-3: Descriptions of whitebark pine and limber pine; maps depicting whitebark and limber pine occurrence in the RSA and LSA CR #9 Wildlife, Sections 4.4, 5.3 and 5.4: Traits are discussed for each valued component (4.4, 5.3) and special status species (5.4), in the context of the Application Case Assessment	Addendum 1 (CEAA Doc#44), CR#6, CR #6, Section 4, Appendix A1 and A3 Addendum 4 (CEAA Doc#55), Attachment 3, SIR#5 and Appendix 5A Addendum 6 (CEAA Doc#70), Section A, SIR#CEAA 1 and Appendix A-1 Addendum 8, Part B, SIR# ECCC-R2-4 (Bat)
	- exposure to relevant contaminants of concern (see section 6.1.2) based on data from existing sources;	CR #9 Wildlife, Section 4.1 CR #12 Human and Wildlife Health, Appendix H	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#16
6.1.8	Aboriginal Peoples		
	With respect to potential effects on Aboriginal peoples and the related VCs, baseline information will be provided for each Aboriginal group identified in section 5 (and any groups identified after these guidelines are finalized). Baseline information will describe and characterise the following, based on the spatial and temporal scope selected for the assessment:		
	- location of traditional territory (including maps where available);	Figures H.3.1-1 to H.13.4-1	---
	- location of reserves and communities;	Figures H.3.1-1 to H.13.4-1	---
	- location of hunting camps and cabins;	Figures H.3.1-1 to H.13.4-1	---
	- drinking water sources (permanent, seasonal, periodic, or temporary);	Figures H.3.1-1 to H.13.4-1	---
	- reliance on country foods;	H.3.3.2, H.4.3.2, H.5.3.2, H.6.3.2, H.7.3.2, H.12.3.2	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#18
	- commercial activities (e.g., fishing, trapping, hunting, forestry, outfitting);	Current use for: Kainai Nation, Piikani Nation, Siksika Nation, Stoney Nakoda Nation, Tsuut'ina Nation, Metis Nation of Alberta	---
	- recreational uses;		---
	- traditional uses currently practiced or practiced in recent history;		---

Table 2 CEEA Guidelines for the Preparation of Environmental Impact Statement for Benga Mining Limited (Benga Mining) Proposed Grassy Mountain Coal Project Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	- fish, wildlife, birds, plants, or other natural resources of importance for traditional use;	Aboriginal background information for: Kainai Nation H.3.3 Piikani Nation H.4.3 Siksika Nation H.5.3 Stoney Nakoda Nation H.6.3 Tsuut'ina Nation H.7.3 Ktunaxa Nation H.8.3, Samson Cree Nation H.9.3 Shuswap Indian Band H.10.3 Foothills Ojibway First H.11.3 Metis Nation of Alberta Region 3 H.12.3, Metis Nation of BC Region 4 H.13.3 CR #8 Vegetation & Wetlands, Section 3.6, Table 3.6-1 CR #9 Wildlife, Section 2.2.8	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Ecology, Section 4
	- places where fish, wildlife, birds, plants, or other natural resources are harvested;	Aboriginal background information; TK sites for: Kainai Nation H.3.3, Fig H.3.1-1 Piikani Nation H.4.3, Fig H.4.1-1 Siksika Nation H.5.3, Fig H.5.1-1 Stoney Nakoda Nation H.6.3, Fig H.6.1-1 Tsuut'ina Nation H.7.3, Fig H.7.1-1 Ktunaxa Nation H.8.3, Fig H.8.1-1 Samson Cree Nation H.9.3, Fig H.9.1-1 Shuswap Indian Band H.10.3, Fig H.10.1-1 Foothills Ojibway First Nation H.11.3 Metis Nation of Alberta Region 3 H.12.3, Fig H.12.1-1 Metis Nation of BC Region 4 H.13.3, Fig H.13.1-1 CR #12 Human Health, Sections 2.2.2 and 5.1.3	---
	- access and travel routes for conducting traditional practices;	Kainai Nation H.3.3.2.5 Piikani Nation H.4.3.2.5 Siksika Nation H.5.3.2.5 Stoney Nakoda Nation H.6.3.2.5 Tsuut'ina Nation H.7.3.2.5	---

Table 2 CEEA Guidelines for the Preparation of Environmental Impact Statement for Benga Mining Limited (Benga Mining) Proposed Grassy Mountain Coal Project			
Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
		Ktunaxa Nation H.8.3 Samson Cree Nation H.9.3 Shuswap Indian Band H.10.3 Foothills Ojibway First Nation H.11.3 Metis Nation of Alberta H.12.3.2.5 Metis Nation of BC H.13.3	
	- frequency, duration, or timing of traditional practices;	Kainai Nation H.3.3 Piikani Nation H.4.3 Siksika Nation H.5.3 Stoney Nakoda Nation H.6.3 Tsuut'ina Nation H.7.3 Metis Nation of Alberta H.12.3	---
	- cultural values associated with the area affected by the Project and the traditional uses identified;	Kainai Nation: H.3.3.5 Piikani Nation: H.4.3.5 Siksika Nation: H.5.3.5 Stoney Nakoda Nation: H.6.3.5 Tsuut'ina Nation: H.7.3.5 Ktunaxa Nation: H.8.3 Samson Cree Nation: H.9.3 Shuswap Indian Band: H.10.3 Foothills Ojibway First Nation: H.11.3 Metis Nation of Alberta: H.12.3 Metis Nation of BC: H.13.3	---
	- physical and cultural heritage (including any site, structure, or thing of archaeological, paleontological, historical, or architectural significance); and	E.13.1.2, E.13.1.3: Historical resources baseline conditions and site assessment Kainai Nation: H.3.3.5 Piikani Nation: H.4.3.5 Siksika Nation: H.5.3.5 Stoney Nakoda Nation: H.6.3.5 Tsuut'ina Nation : H.7.3.4 Metis Nation of Alberta: H.12.3.5	---

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Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	- changes to abundance, disturbance, residences, seasonal movements, movement corridors, and habitat requirements for species important to Aboriginal current use of resources for traditional purposes or physical and cultural heritage (e.g., grizzly bear).	E.9.3: Potential impacts to wildlife H.3.4.1, H.4.4.1, H.5.4.1, H.6.4.1, H.7.4.1, H.9.4.1, H.12.4.1 CR #9 Wildlife, Section 5.6.2	---
	Any other baseline information that supports the analysis of predicted effects on Aboriginal peoples will be included as necessary. The EIS will also indicate how input from Aboriginal groups was used in establishing the baseline conditions related to health and socio-economics, physical and cultural heritage, and current use of lands and resources for traditional purposes.	See Section 5 Aboriginal Consultation, in this table	---
6.1.9	Other Environmental Changes Arising as a Results of a Federal Decision of Authorisation		
	Should there be the potential for a change to the environment arising as a result of a federal decision(s), for example an authorisation under section 35 of the Fisheries Act, the EIS will include baseline information (not already covered in other subsections of these guidelines) in support of the assessment of the changes to the environment arising as a result of the specific components or directly linked or necessarily incidental activities being authorised and any changes to the environment that are directly linked or necessarily incidental to those authorisations.	---	---
6.1.10	Human Environment		
	The EIS will contain baseline information on the following:		
	- the rural and urban settings likely to be affected by the Project;	E.10.3 CR #10 Land & Resource Use, Section 4.1	---
	- the current use of land in the study area, including a description of hunting, recreational and commercial fishing, trapping, gathering, outdoor recreation, use of seasonal cabins, outfitters;	E.10.2: Current land use H.3.3.2, H.4.3.2, H.5.3.2, H.6.3.2, H.7.3.2, H.9.3, H.12.3.2, H.13.3: Current Aboriginal land use CR #10 Land & Resource Use, Sections 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10 CR #12 Human Health, Section 5.1.3: Aboriginal land uses/human health receptors	---
	- current use of all waterways and water bodies that will be directly affected by the Project, including recreational uses, where available;	CR #10 Land & Resource Use, Section 4.2.4	---

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	- location of and proximity of any permanent, seasonal, or temporary residences or camps;	Figure A.1.0-2 CR #10 Land & Resource Use, Figure 4.1-1, Fig 4.1-1 shows land ownership in LSA and RSA, including cabins. CR #12 Human Health, Section 5.1.3	---
	- health and socio-economic conditions, including the functioning and health of the socioeconomic environment, encompassing a broad range of matters that affect communities in the study area in a way that recognises interrelationships, system functions, and vulnerabilities; and	E.11.2 CR #11 Socio-economics, Section 3, 7.2, 8.2, 9.2: Socio-economic setting; Social infrastructure setting; Municipal infrastructure setting; TLU and Aboriginal culture setting CR #12 Human Health, Section 3.0: Summary of existing human health conditions	---
	- physical and cultural heritage, including structures, sites, or things of historical, archaeological, paleontological, or architectural significance.	E.13.1.2, E.13.1.3	---
6.2	Predicted Changes to the Physical Environment		
	The assessment will include a consideration of the predicted changes to the environment as a result of the Project being carried out or as a result of any powers duties or functions that are to be exercised by the federal government in relation to the Project. These predicted changes to the environment are to be considered in relation to each phase of the Project (construction, operation, decommissioning, and abandonment) and are to be described in terms of the geographic extent of the changes, the duration and frequency of change, and whether the environmental changes are reversible or irreversible. The EIS should consider changes to the environment that may result from landslides, slope erosion, ground and rock instability, and subsidence during and following project activities. The EIS will also include an assessment of any transboundary effects.		
6.2.1	Changes to the Atmospheric Environment		
	- changes in air quality;	E.1.3.3, E.1.3.4: Potential impacts CR #1a Air Quality, Sections 4.7, 5.1 to 5.13, 6.4; Table 6.4-1; Appendix A Table A3-3 and Section A.5.1; Appendix B Section 4.3	Addendum 4, (CEAA Doc#55), Attachment 2, SIR #2, 3, 4 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 10, 11, 12, 13, 14, 16, 17 (marine and rail), 18, 19 Addendum 8, Part B, SIR# ECCC-R2-5, ECCC-R2-6
	- changes in ambient noise levels; and	E.2.3.1: Potential impacts to noise levels CR #2a Noise, Sections 5.1 to 5.3, Figures 2 to 7; Section 5.4.2; Section 3.3	Addendum 6 (CEAA Doc#70), Section D, SIR# HC 17-28 Addendum 8, Part A, SIR# CEAA 4
	- changes in night-time light levels.	CR #1a Air Quality, Section 5.16.2	---
6.2.2	Changes to the Groundwater and Surface Water		
	- hydrogeological maps and cross-sections for the mine area modified to indicate project facilities and predicted changes in topography, hydrogeology, and groundwater flow;	CR #3 Hydrogeology, Figures 5.1-1, 5.3-1 to 5.3-9	---
	- changes groundwater flow patterns, fluxes, and divides based on the results of groundwater flow modelling that incorporates changes related to mining;	E.3.3.1: Effect of pit dewatering on groundwater quantity CR #3 Hydrogeology, Section 5.3, Figure 5.3-2, 6.3-6	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 19 Addendum 8, Part B, SIR# DFO-R2-9, DFO-R2-12, DFO-R2-14
	- changes to turbidity, oxygen level, water temperature, ice regime,	E.5.3: Potential surface water quality impacts	---

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Cross Reference (Concordance) Table to Location in Application and Submitted Addenda. Updated Oct. 17, 2018			
Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	water quality;	CR #5 Water Quality, Section 4	
	- changes in surface water quality and sediment quality associated with any mine effluent or releases or surface runoff;	E.5.3: Potential surface water quality impacts Appendix 10B Section 8.3; Appendix C C.8, C.6.17 CR# 5 Water Quality, Sections 3.2.3.1, 4.1.1.2, 4.1.1.3, 4.4.1.3	Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 4, 5
	- changes to the hydrological and hydrometric conditions including stream baseflow conditions;	E.4.3.2: Potential changes in base flows CR #4 Hydrology, Section 5, 6.4	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Ecology Section 4, Appendix A3 Addendum 4 (CEAA Doc#55), Attachment 3, SIR#3 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 4, 6, 8 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 9, 26-33 Addendum 8, Part B, SIR# DFO-R2-3, DFO-R2-13 to 19 Addendum 8, Part B, SIR# ECCC-R2-3
	- changes to groundwater recharge/discharge areas and groundwater surface water interactions; and	E.3.3.1: Effect of pit dewatering on groundwater quantity CR #3 Hydrogeology, Section 5.3	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 18, 20, 21, 22, 23, 24, 25 Addendum 8, Part B, SIR# DFO-R2-10, DFO-R2-11, DFO-R2-12
	- changes to groundwater quality associated with storage or release of any mine effluents or drainage, including runoff;	C.6.17 E.3.3.2, E.3.3.3: Potential impacts of mine waste rock and mine operations on groundwater quality CR #3 Hydrogeology, Section 5.3	Addendum 8, Part B, SIR# DFO-R2-10
	- an analysis of oxidation of primary sulphides and any occurrence of secondary soluble sulphate minerals susceptible to causing acid mine drainage when dissolved in groundwater or precipitation;	App 10A – Sec 4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.3.2 Sulphur Occurrences and Neutralization Potential	---
	- changes to groundwater and surface water quality attributed to acid or neutral rock drainage and metal leaching associated with the storage of waste rock, coal, tailings, overburden, and potential construction material:	C.8.2: Geochemistry and selenium management Acid rock drainage potential, trace elements, kinetic tests. App 10A – Sections 4.1.4, 4.2.3, 4.3.3, Sections 4.1.5, 4.2.4, 4.3.4: Metal leaching potential	Addendum #4 (CEAA Doc#55), Attachment 2, SIR #6
	✓ short term metal leaching properties;	C.8.2.1.2, C.8.2.2.2, C.8.2.3.2, C.8.3.2 Appendix 9c Section 2 Appendix 10A Sections 4.1.5, 4.2.4, 4.3.4	---
	✓ longer term rates of acid generation (if any) and metal leaching;	C.8.3.2 Appendix 9c Section 3 Appendix 10A Sections 4.1.4, 4.2.3, 4.3.3	---
	✓ estimates of the potential for mined materials (including waste rock, reject material, tailings, and coal) to be sources of acid rock drainage or metal leaching;	C.8.2.1.2, C.8.2.2.2, C.8.2.3.2, C.8.3.2 Appendix 9c – Sections 2 & 3: Potential for metal leaching and ARD.	---
	✓ estimates of potential time to the onset of acid rock drainage or	Appendix 10A, Section 5.0	---

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	metal leaching;		
	✓ quantity and quality of leachate from samples of reject material, waste rock, tailings, and coal;	C.8.2.1.4, C.8.2.3.3: Leachate quality Appendix 10A Section 4: Leachate quality and quantity	---
	✓ quantity and quality of effluent to be released from the site into the receiving waters;	No release of effluent to occur	---
	✓ quality of humidity cell or column test liquid from acid rock testing;	App 10A – Sections 4.1.6 and 4.3.5, and Figures 12 to 15	---
	✓ sensitivity analysis to assess the effects of imperfect segregation of waste rock;	Appendix 10B, Section 6.2	---
	✓ pit water chemistry during operation and post-closure, and pit closure management measures (e.g., flooding). This will include geochemical modelling of pit water quality in the post-closure period;	Appendix 10B, Section 8	Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 34
	✓ surface and seepage water quality from the waste rock dumps, tailings/waste rock impoundment facility, stockpiles, and other infrastructure during operation and post-closure; and	Appendix 10A, Section 5, 6 Appendix 10B, Section 2.3.4, Section 8 CR #5 Section 4.1.1.2, 4.1.1.3	---
	✓ changes in water quality and sediments due to contaminants of concern in potentially affected waterbodies and associated tributaries.	C.8 CR #5, Section 2.2.2, 4	---

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
6.2.3	Changes to Terrestrial Environment		
	– overall description of changes related to landscape disturbance;	E.7.3: Potential impacts to soils and terrain E.8.3: Potential impacts to vegetation and wetlands E.9.3.1, E.9.3.2, E.9.3.7: Potential impacts to wildlife habitat availability and fragmentation F.4.1, 4.4, 4.5, Table F.4.1-1, F.4.3-1: Reclaimed landscapes CR #7 Soils and Terrain, Sections 7.1.1, 7.2.1, 7.3.1, and 7.4.1 CR#8 Vegetation & Wetlands Section 4.1.1, 4.1.2, 4.2.1 to 4.2.3, 4.3.1, 4.4.1, 4.5.1, 4.5.2, 4.6.1, 4.7.1, 4.8.1, 4.9.1 CR#9 Wildlife, Section 5.1 to 5.5.	---
	– changes to migratory bird habitat, including losses, structural changes, fragmentation of habitat and wetlands (cover types, ecological land unit in terms of quality, quantity, diversity, distribution, and functions) used by migratory birds;	E.9.3.1, E.9.3.2, E.9.3.7, E.9.3.8: Potential impacts to wildlife habitat, habitat fragmentation, migratory birds CR #9 Wildlife, Section 4.6, 5.5, 5.1, 5.3.3.1, 5.3.3.2, 5.4.1, Table 5.1-1, Table 4.6-1	---
	– changes to critical habitat for federally listed species at risk; and	E.9.2.1.3 CR #9 Wildlife, 4.2.3	---
	– changes to key habitat for species important to Aboriginal people’s current use of resources.	H.3.4.1, H.4.4.1, H.5.4.1, H.6.4.1, H.7.4.1, H.9.4.1, H.12.4.1: Potential effects on current Aboriginal land and resource use CR#9 Wildlife, Sections 5.3.1.1/2, 5.3.4.1/2, 5.3.7.1/2, 5.3.8.1/2, 5.3.9.1/2, 5.3.10.1/2, 5.4.3 and tables therein: Potential effects on habitat availability and fragmentation for seven traditional use wildlife species CR#9 Wildlife Section 5.6: Effects on traditional use CR#8 Vegetation & Wetlands, Section 4.6.1, Table 4.6-1: Potential effects on TEK vegetation species	---
6.3	Predicted Effects on Valued Components		
	Based on the predicted changes to the environment identified in section 6.2, the proponent is to assess the environmental effects of the Project on the followings VCs:		
6.3.1	Fish and Fish Habitat		
	- the identification of any potential serious harm to fish, including the calculations of any potential habitat loss (temporary or permanent) in terms of surface areas (e.g., spawning grounds, fry-rearing areas, feeding), and in relation to watershed availability and significance. The assessment will include a consideration of:	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4 Addendum 4 (CEAA DOC#55), Attachment 3, SIR#1 Addendum 4 (CEAA Doc#55), Attachment 3, SIR#3, 4 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 1 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 41 Addendum 8, Part B, SIR# DFO-R2-20

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	✓ the geomorphological changes and their effects on hydrodynamic conditions and fish habitats (e.g., modification of substrates, dynamic imbalance, silting of spawning beds);	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A2 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 9, 10, 11, 12, 13, 14 Addendum 8, Part B, SIR# DFO-R2-4, DFO-R2-5, DFO-R2-6, DFO-R2-7, DFO-R2-8
	✓ the modifications of hydrological and hydrometric conditions on fish habitat and on the fish species' life cycle activities (e.g., reproduction, fry-rearing, movements);	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A3 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 2, 5, 12, 14, 40 Addendum 8, Part B, SIR# DFO-R2-6
	✓ potential impacts on riparian areas that could affect aquatic biological resources and productivity taking into account any anticipated modifications to fish habitat;	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4.2.3, 4.3.1, 4.5 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 14 Addendum 8, Part B, SIR# DFO-R2-8
	✓ any potential imbalances in the food web in relation to baseline;	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4.2.2, Appendix A1 Section 3.2, 4.2
	✓ effects on primary and secondary productivity of water bodies, including a discussion of sensitive species in the benthic invertebrate communities and how mine-related effects may affect fish food sources;	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A1 Section 3.2, 4.2
	- the effects of changes to the aquatic environment on fish and their habitat, including;	---	Addendum 4 (CEAA Doc#55), Attachment 3, SIR#3 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 9
	✓ the anticipated changes in the composition and characteristics of the populations of various fish species, including and forage fish;	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4
	✓ any modifications in migration or local movements (upstream and downstream migration, and lateral movements) following the construction and operation of works;	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4,
	✓ any reduction in fish populations as a result of potential overfishing due to increased access to the project area; and	Section E.6.3.1.3.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4.2.1.2
	✓ any modifications and use of habitats by federally or provincially listed fish species (i.e. westslope cutthroat trout) including anticipated changes in water quantity and influence on the ability of fish to access spawning, nursery, rearing, food supply and migration habitat;	Section E.6.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A3 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 37, 39 Addendum 8, Part B, SIR# DFO-R2-1
	- a discussion of how project construction timing correlates to key fisheries windows for fish species, and any potential impacts resulting from overlapping periods;	---	Addendum 1 (CEAA Doc#44), CR#6, Section 4
	- a discussion of how vibration caused by blasting may affect fish	---	Addendum 1 (CEAA Doc#44), CR#6, Section 4.2.1.3

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	behaviour, such as spawning or migrations;		Section 4.1.2.2
	- changes in concentrations of contaminants of concern in the aquatic ecosystem (including, but not limited to, westslope cutthroat trout, rainbow trout, and mountain whitefish) ; and	Section E.6.3.1.3.2	Addendum 1 (CEAA Doc#44), CR#6, Section 4.2.1.1, 4.2.2.4
	- changes to fish health resulting from increased contaminants of concern.	Section E.6.3.1.3.2	Addendum 1 (CEAA Doc#44), CR#6, Section 4.2.1.1, 4.2.2.4 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 21
	- a description, or conceptual model as appropriate, of how changes in water quantity in watercourses will influence the ability of fish to access spawning, nursery, rearing, food supply and migration habitat.	Section E.6.2.3.1	Addendum 1 (CEAA Doc#44), CR#6, Section 4, Appendix A3
6.3.2	Migratory Birds		
	- direct migratory bird mortality from project activities, such as clearing of sites, or birds and nests being in contact with contaminated waters (e.g., surface water drainage ponds);	E.9.3.3, E.9.3.8 C.8 CR #9 Wildlife, Section 5.5.1, 5.5.3, 5.3.1.3, 5.3.1.4, 5.4.4, 5.4.5, 5.3.3.1, 5.3.3.3, 5.4.1, 5.4.2, 7.1.4, 7.1.5, 7.2.	Addendum 8, Part A, SIR# CEAA 2 (Clark's Nutcracker)
	- collision risk of migratory birds with any project components or activities;	E.9.3.3 CR #9 Wildlife, Section 5.5.3, 4.4.3.4, 5.3.3.3, 5.4.1, 5.4.2.1	---
	- changes to relative abundance, movements, and use of habitat, including wetlands, by migratory birds due to increased disturbance (e.g., noise, light, presence of workers); and	CR #9 Wildlife, Section 3.1.1, 5.5.1, 5.3.3.1, 5.4.1, 5.4.2.1	Addendum 8, Part A, SIR# CEAA 2 (Clark's Nutcracker)
	- direct and indirect effects to migratory birds resulting from increased exposure to contaminants of concern.	E.9.3.5 CR #9 Wildlife, Section 4.1, 5.5: Discussion of wildlife health assessment CR #12 Human and Wildlife Health, Appendix H: Wildlife screening level risk assessment	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#14 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 21, 22
6.3.3	Species at Risk		

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	- direct and indirect effects of the Project on federally listed species at risk and those species listed by COSEWIC classified as extirpated, endangered, threatened, or of special concern (flora and fauna) and their critical habitat including:	E.6.2.1: Westslope cutthroat trout E.8.3.2: Whitebark pine and limber pine E.9.3.1 to E.9.3.5; E.9.3.7 CR #8 Vegetation & Wetlands, Section 4.2.1: whitebark pine and limber pine. CR #9 Wildlife, Sections 5.3.2, 5.3.3, 5.3.5, 5.3.8, 5.4.1, 5.4.2, 5.4.3, 5.4.8; Section 4.2.3	Addendum 1 (CEAA Doc#44), CR#6, Section 4 Addendum 4 (CEAA Doc#55), Attachment 2, SIR#12, (whitebark) Addendum 4 (CEAA Doc#55), Attachment 2, SIR#13, (bat) Addendum 4 (CEAA Doc#55), Attachment 2, SIR #25, Table 25-3 Addendum 6 (CEAA Doc#70), Section A, SIR# CEAA 1 and Appendix A-1 Addendum 6 (CEAA Doc#70), Section A, SIR# CEAA 4 Addendum 8, Part A, SIR# CEAA 2 (Clark’s Nutcracker)
	✓ direct and indirect effects resulting from increased exposure to contaminants of concern.	CR #5 Water Quality, Section 4 CR #9 Wildlife, Section 4.1 CR #12 Human and Wildlife Health, Appendix H	Addendum 1 (CEAA Doc#44), CR #6, Section 4.2.1.1, 4.2.2.4 Addendum 4 (CEAA Doc#55), Attachment 2, SIR#14 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 21
	✓ direct and indirect effects on the survival or recovery of federally listed species (e.g., westslope cutthroat trout);	CR #8 Vegetation & Wetlands, Section 4.2.1 CR #9 Wildlife , Section 5.3.2.3, 5.3.3.3, 5.3.5.3, 5.3.8.3, 5.4.1, 5.4.2, 5.4.3, 5.4.8	Addendum 1 (CEAA Doc#44), CR#6 Aquatic Resources, Section 4
	✓ direct and indirect impacts to existing Recovery Strategy and Action Plans including a discussion of how population and distribution objectives set out in those documents would be affected.	E.6.3.1.1 E.8.5.1 E.9.5.1 CR #8 Vegetation & Wetlands, Section 4.2.6.3 Whitebark pine and limber pine CR #9 Wildlife, Section 5.3.3.5 and Section 5.4.2.2: Olive-sided flycatcher and common nighthawk	Addendum 1 (CEAA Doc #44), CR#6 Aquatic Resources, Section 4, Appendix A4 Addendum 4 (CEAA Doc#55), Attachment 2, SIR #12 (Whitebark) Addendum 4 (CEAA Doc#55), Attachment 3, SIR#4
6.3.4	Aboriginal Peoples		
	With respect to Aboriginal peoples, a description and analysis of how changes to the environment caused by the Project will affect:		
	- the current uses of land and resources for traditional purposes, including, but not limited to:		
	✓ any effects on resources (fish, wildlife, birds, plants, or other natural resources) used for traditional uses (e.g., hunting, fishing, trapping, collection of medicinal plants, use of sacred sites); and	H.3.5.1, H.4.5.1, H.5.5.1, H.6.5.1, H.7.5.1, H.9.5.1, H.12.5.1 Residual effects on current use of lands and resources	---
	✓ any effects of alterations to access into the areas used for traditional uses, including development of new roads, deactivation or reclamation of access roads, and changes to waterways that affect navigation;	H.3.5.1, H.4.5.1, H.5.5.1, H.6.5.1, H.7.5.1, H.9.5.1, H.12.5.1 Residual effects on current use of lands and resources	---
	✓ any effects on cultural value or importance associated with	H.3.5.3, H.4.5.4, H.5.5.3, H.6.5.3, H.7.5.3, H.12.5.4	---

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	traditional uses or areas affected by the Project (e.g., inter-generational teaching of language or traditional practices, communal gatherings);	Residual effects on Aboriginal physical and cultural heritage	
	✓ how project construction timing correlates to the timing of traditional practices, and any potential impacts resulting from overlapping periods;	H.3.4.1.3, H.4.4.1.3, H.5.4.1.3, H.6.4.1.3, H.7.4.1.2, H.9.4.1.4, H.12.4.1.5: Potential effects to current plant gathering H.3.5.1.3, H.4.5.1.3, H.5.5.1.3, H.6.5.1.3, H.7.5.1.2, H.9.5.1.4, H.12.5.1.5: Residual effects to current plant gathering	---
	✓ the regional value of traditional use of the project area and the anticipated effects to traditional practice of the Aboriginal group, including alienation of lands from Aboriginal traditional use;	H.3.4.1, H.4.4.1, H.5.4.1, H.6.4.1, H.7.4.1, H.9.4.1, H.12.4.1 Potential effects to current use of lands and resources H.3.5.1, H.4.5.1, H.5.5.1, H.6.5.1, H.7.5.1, H.9.5.1, H.12.5.1 Residual effects to current use of lands and resources	---
	✓ indirect effects such as avoidance of the area by Aboriginal peoples due to increased disturbance (e.g., noise, presence of workers); and	H.3.4.1, H.4.4.1, H.5.4.1, H.6.4.1, H.7.4.1, H.9.4.1 Potential effects to current use of lands and resources (avoidance was not mentioned by an Aboriginal group) H.3.5.1, H.4.5.1, H.5.5.1, H.6.5.1, H.7.5.1, H.9.5.1, H.12.5.1 Residual effects to current use of lands and resources	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#20
	✓ an assessment of the potential to return affected areas to pre-disturbance conditions to support traditional practices;	H.3.5.1, H.4.5.1, H.5.5.1, H.6.5.1, H.7.5.1, H.9.5.1, H.12.5.1 Residual effects to current use of lands and resources F.1.6 End land use F.1.9 TEK in reclamation planning	---
	– human health, considering, but not limited to, potential changes in air quality, quality and availability of country foods, drinking water quality, and noise exposure. When risks to human health due to changes in one or more of these components are predicted, a complete Human Health Risk Assessment examining all exposure pathways for pollutants of concern may be necessary to adequately characterise potential risks to human health;	E.12: Summary of full HHRA H.3.5.2 H.4.5.2, H.5.5.2, H.6.5.2, H.7.5.2 CR #12 Human Health Risk Assessment, Section 5.1.3.2, 5.1.1 CR#3, Section 5.6 CR #5 Table 18 CR #2a Section 5.4.2	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#17, 18, 19 Addendum 6 (CEAA Doc#70), Section D, SIR# HC 1-4, 6-15 Addendum 8, Part A, SIR# CEAA 3 (HHRA) Addendum 8, Part B, SIR# HC-R2-1, HC-R2-2, HC-R2-3, HC-R2-5, to HC-R2-17

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	– socio-economic conditions, including, but not limited to;		
	✓ the use of navigable waters;	Not applicable	---
	✓ forestry and logging operations;	H.3.4.3, H.4.4.3, H.5.4.3, H.6.4.3, H.7.4.3, H.9.4.3, H.12.4.3	---
	✓ commercial fishing, hunting, trapping, and gathering activities;	Potential effects to Aboriginal socio-economic conditions	---
	✓ commercial outfitters; and	H.4.5.3, H.12.5.3: Residual effects to Aboriginal socio-economic conditions (Piikani Nation and Metis Nation of Alberta)	---
	✓ recreational use, including wildlife viewing;		---
	- physical and cultural heritage, and structure, site, or thing of historical, archaeological, paleontological, or architectural significance to Aboriginal groups, including, but not limited to:		
	✓ the loss or destruction of physical and cultural heritage;	E.13.1.4.1, E.13.1.4.2: Potential archaeological impacts; potential paleontological impacts H.3.4.4, H.4.4.4, H.5.4.4, H.6.4.4, H.7.4.4, H.9.4.4, H.12.4.4: Potential effects H.3.5.3, H.4.5.4, H.5.5.3, H.6.5.3, H.7.5.3, H.12.5.4: Residual effects	---
	✓ changes to access to physical and cultural heritage; and,	H.3.4.4, H.4.4.4, H.5.4.4, H.6.4.4, H.7.4.4, H.9.4.4, H.12.4.4: Potential effects	---
	✓ changes to the cultural value or importance associated with physical and cultural heritage;and	H.3.5.3, H.4.5.4, H.5.5.3, H.6.5.3, H.7.5.3, H.12.5.4: Residual effects	---
	- Other effects of changes to the environment on Aboriginal peoples should be reflected as necessary.		
6.3.5	Other Valued Components that may be Affected as a Result of a Federal Decision		
	If there is the potential for a change to the environment arising as a result of a federal decision(s), for example an authorisation under section 35 of the Fisheries Act, the EIS should include a description of the specific project components for which a federal authorisation/decision is required, and an assessment of any other valued components (not already covered in other subsections of these guidelines) that may be affected by the changes to the environment caused by these specific project components. Such an assessment may include a consideration of the following:		
	– effects on hunting, recreational and commercial fishing, trapping, gathering, outdoor recreation, use of seasonal cabins, outfitters;	E.10.3.1, E.10.3.4, E.10.3.6 CR #10 Land Use, Section 5.2, 5.5, 5.7	---
	– changes to the use of waterways and water bodies;	Not Applicable	---
	– location of and proximity of any permanent, seasonal, or temporary residences or camps;	Figure A.1.0-2 CR #10 Land & Resource Use, Figure 4.1-1 CR #12 Human Health, Figure A.2	---

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	– effects on the health and socio-economic conditions, including the functioning and health of the socio-economic environment, encompassing a broad range of matters that affect communities in the study area in a way that recognises interrelationships, system functions and vulnerabilities; and	E.11.2, E.11.3 CR#11 Socio-economics, Sections 2 to 10 CR#12 Human Health Section 6, 7	---
	– effects on physical and cultural heritage, including structures, sites, or things of historical, archaeological, paleontological, or architectural significance.	E.13	---
6.4	Mitigation		
	<p>Every EA conducted under CEEA 2012 will consider measures that are technically and economically feasible and that would mitigate any significant adverse environmental effects of the Project. Each measure will be specific, achievable, measurable, and verifiable, and described in a manner that avoids ambiguity in intent, interpretation, and implementation. Mitigation measures may be considered for inclusion as conditions in the EA decision statement and in other compliance and enforcement mechanisms provided by other authorities' permitting or licensing processes.</p> <p>As a first step, the proponent is encouraged to use an approach based on the avoidance and reduction of the effects at the source. Such an approach may include the modification of the design of the Project or relocation of project components.</p> <p>The EIS will describe the standard mitigation practices, policies, and commitments that constitute technically and economically feasible mitigation measures and that will be applied as part of standard practice regardless of location (including the measures directed at promoting beneficial or mitigating adverse socio-economic effects). The EIS will then describe the Project's environmental protection plan and its environmental management system, through which the proponent will deliver this plan.</p> <p>The plan will provide an overall perspective on how potentially adverse effects would be minimised and managed over time. The EIS will further discuss the mechanisms the proponent would use to require its contractors and sub-contractors to comply with these commitments and policies and with auditing and enforcement programs.</p> <p>The EIS will then describe mitigation measures that are specific to each environmental effect identified. Measures will be written as specific commitments that clearly describe how the proponent intends to implement them and the environmental outcome the mitigation is designed to address. Where mitigation measures have been identified in relation to species and/or critical habitat listed under the Species at Risk Act, the mitigation measures will be consistent with any applicable recovery strategy and action plans.</p> <p>The EIS will specify the actions, works, minimal disturbance footprint techniques, best available technology, corrective measures, or additions planned during the Project's various phases to eliminate or reduce the significance of adverse effects. The impact statement will also present an assessment of the effectiveness of the proposed technically and economically feasible mitigation measures. The reasons for determining if the mitigation measure reduces the significance of an adverse effect will be made explicit.</p> <p>The EIS will indicate what other technically and economically feasible mitigation measures were considered, and explain why they were rejected. Trade-offs between cost savings and effectiveness of the various forms of mitigation will be justified. The EIS will identify who is responsible for the implementation of these measures and the system of accountability.</p> <p>Where mitigation measures are proposed to be implemented for which there is little experience or for which there is some question as to their effectiveness, the potential risks and effects to the environment should those measures not be effective will be clearly and concisely described, and, where appropriate, contingency measures should be identified. In addition, the EIS will identify the extent to which technology innovations will help mitigate environmental effects. Where possible, it will provide detailed information on the nature of these measures, their implementation, management, and the requirements of the follow-up program.</p> <p>Adaptive management is not considered as a mitigation measure, but, if the follow-up program (refer to section 9) indicates that corrective action is required, the proposed approach for managing the action should be identified.</p>		
	Environmental Protection Plan	C.7.6 (refers to Section F for site reclamation – see F.2.3, F.2.5, F.2.6, F.2.7, F.3, F.4)	---
	Environmental Management System	C.7	---
	Air Quality	A.11.1.1, E.1.4.1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#3 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 12, 13, 20

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		CR#1a Air Quality & Climate, Section 6.6	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3 Addendum 8, Part B, SIR# HCC-R2-4
	Greenhouse Gas & Climate	E.1.4.1, A.82, C.7.9 CR#1a Air Quality & Climate, Section 6.6	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Noise	A.11.2.1, E.2a.5.1, E.2a.5.2 CR #2a Noise, Section 5.4	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3 Addendum 8, Part B, SIR# HCC-R2-16
	Hydrogeology	A.11.3.1, E.3.5.1 CR #3 Hydrogeology, Sections 5.3.3, 5.4.3, 5.5.3	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Hydrology	A.11.4.1, E.4.5.1, C.5 CR #4 Hydrology, Section 6.4	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 21 Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Surface Water Quality	A.11.5.1, E.5.5.1, C.5, C.8 CR #5 Surface Water Quality, Sections 4.1.1.2, 4.2.1.2, 4.3.1.2, 4.4.1.2	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 21 Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Fisheries/ Aquatic Ecology	A.11.6.1, E.6.3.1.1, F.2.1.4	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Resources, Section 4.3, 6.0 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 21 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 3 Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3 Addendum 8, Part B, SIR# DFO-R2-1, Appendix B-1 (Fisheries Offsetting Plan)
	Terrain & Soils	A.11.7.1, E.7.5.1, F.3.4, F.3.6.1, F.3.6.2 CR #7 Soils & Terrain, Sections 7.1.3, 7.2.3, 7.3.3, and 7.4.3	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Vegetation & Wetlands	A.11.8.1, E.8.5.1 F.2.5, F.2.7, F.3.1, F.3.2, F.3.3, F.3.6.3 CR #8 Vegetation & Wetlands, Sections 4.1.5.1, 4.2.6, 4.3.4.1, 4.4.4.1, 4.5.4, 4.6.4.1, 4.7.4.1, 4.8.4.1, 4.9.4.1, 4.10.3, 5.2	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Wildlife	A.11.9.1, E.9.5.1, F.2.6, F.3.2 CR #9 Wildlife, Section 7.1	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Land Use	A.11.10, E.10.5, F.1.6, F.6 CR #10 Land & Resource Use, Section 6.0	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Socio-Economics	A.11.11, E.11.5 CR #11 Socio-economics, Sections 1.2, 5.4, 6.4, 7.4, 8.4, 9.4, 10.4	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3

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	Human Health	A.11.12 E.12.5 CR #12 Human Health, Section 6.5 CR #1a Air Quality, Section 6.6	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3 Addendum 8, Part B, SIR# HCC-R2-4, HC-R2-9, HC-R2-10
	Historical Resources	A.11.13.1 E.13.3.3 E.13.5	Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Traditional Land and Resource Use	H.3.4, H.4.4, H.5.4, H.6.4, H.7.4, H.8.4, H.9.4, H.10.4, H.11.4, H.12.4, H.13.4	---
	Accidents or Malfunctions Assessment	C.9 See Design and Operations Safeguards section for each accident and malfunction	---
	Alternative Means Assessment – Environmental Evaluations	A.7 See Environmental Evaluation sections of A.7.2 to A.7.11	---
6.5	Significant Residual Effects		
	<p>After having established the technically and economically feasible mitigation measures, the EIS will present any residual environmental effects of the Project on the VCs identified in section 6.3. The residual effects, even if very small or deemed insignificant, will be described.</p> <p>The EIS then will provide an analysis of the significance of the residual environmental effects that are considered adverse, using guidance described in section 4 of the Agency’s reference guide Determining Whether a Project is Likely to Cause Significant Adverse Environmental Effects.</p> <p>The EIS will identify the criteria used to assign significance ratings to any predicted adverse effects. It will contain clear and sufficient information to enable the Agency, technical and regulatory agencies, Aboriginal groups, and the public to review the proponent's analysis of the significance of effects. The EIS will document the terms used to describe the level of significance.</p>		

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	<p>The following criteria should be used in determining the significance of residual effects:</p> <ul style="list-style-type: none"> - magnitude; - geographic extent; - duration; - frequency; - reversibility; - ecological and social context; and - existence of environmental standards, guidelines, or objectives for assessing the impact. <p>In assessing significance against these criteria the proponent will, where possible, use relevant existing regulatory documents, environmental standards, guidelines, or objectives such as prescribed maximum levels of emissions or discharges of specific hazardous agents into the environment. The EIS will contain a section which explains the assumptions, definitions, and limits to the criteria mentioned above in order to maintain consistency between the effects on each VC.</p> <p>Where significant adverse effects are identified, the EIS will set out the probability (likelihood) that they will occur, and describe the degree of scientific uncertainty related to the data and methods used within the framework of its environmental analysis.</p>		
	All VCs	Section D.2.5.3 Table D.2.5-2	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Air Quality	Table E.1.5-4 CR #1a Air Quality, Section 6.6, Table 6.5-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Greenhouse Gas & Climate	Table E.1.5-4 CR #1a Air Quality, Table 6.5-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Noise	Table E.2-1 CR #2 Noise, Table 6.3-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Hydrogeology	Table E.3.6-1 CR #3 Hydrogeology , Section 5.6, Table 5.6-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Hydrology	Table E.4.6-1 CR #4 Hydrology, Section 6.4, Table 18	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Surface Water Quality	Table E.5.6-1 CR #5 Water Quality, Section 4.4.1.4, 4.2.1.4, 4.3.1.4, 4.4.1.4; Table 18	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Fisheries / Aquatic Resources	E.6.3	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Resources, Section 4.5, Table 4.11 Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3

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	Terrain & Soils	Table E.7.6-1 CR #7 Soils & Terrain, Section 7.1.4, 7.2.4, 7.3.4, 7.4.4, Table 7.5-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Vegetation & Wetlands	Table E.8.6-1 CR #8 Vegetation & Wetlands, Section 5.1, Table 5.1-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22 Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Wildlife	Table E.9.3-3, E.9.4-1 CR #9 – Wildlife, Section 5.3.11, Table 5.3-26; Section 5.4.9, Table 5.4-1; Section 6.4, Table 6.4-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22 Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Land Use	Table E.10.6-1 CR #10 Land & Resource Use, Section 5.2 to 5.8; Table 8.0-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Socio-Economics	Table E.11.6-1 CR #11 Socio-economics Section 4, 5.3.1.2, 6.3.2, 7.3, 8.3.2, 9.3, 10.3.2	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Human Health	Table E.12.4-1 CR #12 Human Health, Section 8, Table 8.0-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Historical Resources	Table E.13.6-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
	Traditional Knowledge and Land Use	H.3.5.4, H.4.5.5, H.5.5.4, H.6.5.4, H.7.5.4, H.9.5.2, H.12.5.5 CR #8 Vegetation & Wetlands, Section 5.1, Table 5.1-1 CR #9 – Wildlife, Section 5.3.11, Table 5.3-26; Section 5.4.9, Table 5.4-1; Section 6.4, Table 6.4-1	Addendum 1(CEAA Doc#44), CR #6 Aquatic Resources Section 4 Addendum 4 (CEAA Doc#55), Attachment 2, SIR#22, Appendix 22A Addendum 6 (CEAA Doc#70), Part A, SIR #CEAA 3, Appendix A-3
6.6	Other Effects to Consider		
6.6.1	Effects of Potential Accidents of Malfunctions		
	The failure of certain works caused by human error or exceptional natural events (e.g., flooding, earthquake) could cause major effects. The proponent will, therefore: conduct an analysis of the risks of accidents and malfunctions, determine their effects, and present a preliminary emergency measures	C.9 C.9.5.2.2 and C.7.6.3	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#23, 24 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 5 Addendum 6 (CEAA Doc#70), Section D, SIR# HC 16 Addendum 6 (CEAA Doc#70), Section E, SIR# NRC 3
	Taking into account the lifespan of different project components, the proponent will identify the probability of potential accidents and malfunctions related to the Project, including an explanation of how those events were identified, potential consequences (including the environmental effects as defined in section 5 of CEEA 2012), the plausible worst case scenarios, and the effects of these scenarios	C.9, Table C.9.10-1 Methodology (C.9.1), Risk Assessment (C.9.2); discussions of seven identified accidents and malfunctions (C.9.3 to C.9.9); summary of risks and potential effects (Table C.9.10-1)	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#23, 24 Addendum 6 (CEAA Doc#70), Section E, SIR# NRC 3
	This assessment will include an identification of the magnitude of an accident and/or malfunction, including the quantity, mechanism, rate,	C.9.3 to C.9.9; C.9.10, Table C.9.10-1	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#23

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	form, and characteristics of the contaminants and other materials likely to be released into the environment during the accident and/or malfunction events and would potentially result in an adverse environmental effect as defined in section 5 of CEEA 2012.		Addendum 6 (CEAA Doc#70), Section E, SIR# NRC 3
	The EIS will describe the safeguards that have been established to protect against such occurrences and the contingency and emergency response procedures in place if such events do occur.	C.9.3.2, C.9.4.2, C.9.5.2, C.9.6.2, C.9.7.2, C.9.8.2, C.9.9.2 Design and Operations Safeguards	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#23 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 5 Addendum 6 (CEAA Doc#70), Section D, SIR# HC 16 Addendum 6 (CEAA Doc#70), Section E, SIR# NRC 3
6.6.2	Effects of the Environment on the Project		
	The EIS will take into account how local conditions and natural hazards, such as severe and/or extreme weather conditions and external events (e.g., flooding, drought, ice jams, landslides, avalanches, erosion, subsidence, fire, outflow conditions, and seismic events), could adversely affect the Project, and how this in turn could result in impacts to the environment (e.g., extreme environmental conditions result in malfunctions and accidental events). These events will be considered in different probability patterns (i.e., 5-year flood vs. 100 year flood). Longer term effects of climate change also will be discussed up to the projected post-closure phase of the project. This discussion will include a description of climate data used.	C.10 E.1.3.5.2, E.1.3.5.3: Effects of climate change on air quality CR#1a Air Quality, Section 5.14	Addendum 4 (CEAA Doc#55), Attachment 2, SIR#10, 11, 25 Addendum 6 (CEAA Doc#70), Section A, SIR# CEAA 4 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 1, 2, 3, 4 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 6 Addendum 6 (CEAA Doc#70), Section E, SIR# NRC 1, Appendix E-1 Addendum 6 (CEAA Doc#70), Section E, SIR# NRC 2 Addendum 8, Part B, SIR# ECCC-R2-1, NRCan-R2-01
	The EIS will provide details of planning, design, and construction strategies intended to minimise the potential environmental effects of the environment on the Project.	C.10 refers to: C.1.2, C.2 to C.6 (design), C.7 (environmental management plans) A.6.4, A.11.4, A.11.5, A.11.6, A.11.7 (mitigations) F.1.5, F.2.7, F.3.1, F.3.6.2, F.3.6.3.2, F.3.8, F.4.2, F.4.4.4 (C&R Plan)	Addendum 4 (CEAA Doc#55), Attachment 2, SIR# 25 Addendum 6 (CEAA Doc#70), Section A, SIR# CEAA 4 Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 1, 2, 3, 4 Addendum 8, Part B, SIR# ECCC-R2-1
6.6.3	Cumulative Effects Assessment		
	The proponent will identify and assess the Project’s cumulative effects using the approach described in the Agency’s Operational Policy Statement entitled <i>Addressing Cumulative Environmental Effects under the Canadian Environmental Assessment Act, 2012</i> and the guide entitled <i>Technical Guidance for Assessing Cumulative Environmental Effects Under the Canadian Environmental Assessment Act</i> . Cumulative effects are defined as changes to the environment due to the Project combined with the existence of other past, present, and reasonably foreseeable physical activities. Cumulative effects may result if: - implementation of the Project being studied may cause direct residual adverse effects on the valued components, taking into account the application of technically and economically feasible mitigation measures; and, - the same valued components may be affected by other past, present, or reasonably foreseeable physical activities. Valued components that would not be affected by the Project or would be affected positively by the Project can, therefore, be omitted from the cumulative		Addendum 8, Part A, SIR# CEAA 5, Appendix A-1

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	effects assessment. A cumulative effect on an environmental component may, however, be important even if the assessment of the Project's effects on this component reveals that the effects of the Project are minor.		
	In its EIS, the proponent will:		
	- identify and provide a rationale for the valued components that will constitute the focus of the cumulative effects assessment, emphasizing this assessment on the VCs most likely to be affected by the Project and other projects and activities. To this end, the proponent must consider, without limiting itself thereto, the following components likely to be affected by the Project:		
	✓ surface water quality in the Crowsnest River, Gold Creek, Blairmore Creek, and associated tributaries;	E.5.4 CR #5 Water Quality, Section 4.1.3, 4.2.3, 4.3.3 4.4.3, 4.5.2	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 7.1.1
	✓ fish and fish habitat, including westslope cutthroat trout, mountain whitefish, as well as other valued fish species;	E.6.4	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Resources, Section 4.4 Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 8.1.1
	✓ migratory birds (including habitat loss and contaminant exposure);	E.9.4: Olive-sided flycatcher CR #9 Wildlife, Section 6.3.1: Olive-sided flycatcher	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 11.1.1
	✓ species at risk; and	E.9.4: Olive-sided flycatcher, little brown myotis and grizzly bear CR #9 Wildlife, Section 6.3.1, Table 6.4-1	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 10.1.1, 11.1.1
	✓ Aboriginal peoples;	H.2.5, H.2.6, H.3.6, H.4.6, H.5.6, H.6.6, H.7.6, H.9.6, H.12.6 E.13.4: Historical resources CR #1a Air Quality, Section 6.1 CR #8 Vegetation & Wetlands, Section 1.4.6, 4.6.2 CR #9 Wildlife, Section 6.3.1, 6.3.3, 6.3.6, Table 6.4-1 CR #10 Land Use, Table 3.2-1 CR #12 Human Health Section 4.1, 4.2	Addendum 6 (CEAA Doc#70), Section D, SIR# HC 5: Health Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 15.1.1
	Hydrogeology	E.3.4 CR #3 Hydrogeology, Section 6	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 5.1.1
	Soils and Terrain	E.7.4 CR #7 Soils & Terrain, Section 6.3, 7.1.2, 7.2.2, 7.3.2, 7.4.2	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 9.1.1
	Land Use	E.10.4 CR #10 Land & Resource Use, Section 3.2	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 13.1
	Socio-economic	CR #11 Socio-economics, Sections 2.1.1, 2.1.2	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 12.1.1
	- identify and justify the spatial and temporal boundaries for the cumulative effect assessment for each VC selected. The boundaries for the cumulative effects assessments will generally be different for each VC considered. These cumulative effects boundaries will also generally be larger than the boundaries for the corresponding project effects;		
	All disciplines	D.2.4.3	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1
	✓ surface water quality in the Crowsnest River, Gold Creek,	CR #5 Water Quality, Section 2.3, 2.4	Addendum 8, Part A, SIR# CEEA 5, Appendix A-1, Section 7.1.2

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	Blairmore Creek, and associated tributaries;		
	✓ fish and fish habitat;	---	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Resources, Section 2, 5 Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 8.1.2
	✓ migratory birds;	E.9.9.4 CR #9 Wildlife, Section 3.2.1.2, 3.2.1.3	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 11.1.2
	✓ species at risk; and	E.9.9.4 CR #9 Wildlife, Section 3.2.1.2, 3.2.1.3	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 10.1.2, 11.1.2
	✓ Aboriginal peoples;	H.2.3 E.5.1 Surface Water Quality E.8.1, E.8.4 Vegetation E.9.4 Wildlife E.12.1 Human Health CR #1a Air Quality, Section 2.3.1 CR #5 Surface Water Quality, Section 2.3.2 CR #8 Vegetation & Wetlands, Section 2.4.1 CR #9 Wildlife, Section 3 CR #10 Land Use, Section 3.1 CR #12 Human Health, Section 4.3, 4.4	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 15.1.2
	Hydrogeology	CR #3 Hydrogeology Section 2.4, 6.0	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 5.1.2
	Soils and terrain	E.7.1, E.7.4 CR #7 Soils & Terrain, Section 2.1.2, 6.1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 9.1.2
	Land Use	E.10.1 CR #10 Land & Resource Use, Section 3.1, 3.3, 7.0	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 13
	Socio-economics	E.11.1 CR #11 Socio-economics, Section 2.4	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 12.1.2
	– identify the sources of potential cumulative effects. Specify other projects or activities that have been or that are likely to be carried out that could cause effects on each selected VC within the boundaries defined, and whose effects would act in combination with the residual effects of the Project. This assessment may consider the results of any relevant study conducted by a committee established under section 73 or 74 of CEAA 2012		
	✓ surface water quality in the Crowsnest River, Gold Creek, Blairmore Creek, and associated tributaries;	CR #5, Section 2.5, 4.1.3, 4.2.3, 4.3.3 4.4.3, 4.5.3	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 7.1.3
	✓ fish and fish habitat;	E.6.4	Addendum 1 (CEAA Doc#44), CR #6, Section 4.4 Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 8.1.3

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	✓ migratory birds;	CR #9 Wildlife, Section 6.1, Table 6.2-1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 11.1.3
	✓ species at risk; and	CR #9 Wildlife, Section 6.1, Table 6.2-1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 10.1.3, 11.1.3
	✓ Aboriginal peoples;	E.1.4 Air Quality E.12.1 Human Health H.3.6.2, H.4.6.3, H.5.6.2, H.6.6.2, H.7.6.2, H.9.6.2, H.12.6.2 CR #1a Air Quality, Section 2.1.1 CR #8 Vegetation & Wetlands, Section 2.4.1, Table 2.4-1 CR #9 Wildlife, Section 6.1, Table 6.2-1 CR #10 Land Use, Section 7.0 CR #12 Human Health, Section 4.2	Addendum 8, Part A, SIR# CEAA 3 (HHRA) Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 15.1.3
	Hydrogeology	CR #3 Hydrogeology Section 6	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 5.1.3
	Soils and terrain	E.7.4 CR #7 Soils & Terrain, Section 6.1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 9.1.3
	Land Use	E.10.4 CR #10 Land & Resource Use, Section 7.0	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 13
	Socio-economics	E.11.4 CR #11 Socio-economics, Section 2.3	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 12.1.3
	- describe the mitigation measures that are technically and economically feasible. The proponent shall assess the effectiveness of the measures applied to mitigate the cumulative effects. In cases where measures exist that are beyond the scope of the proponent's responsibility that could be effectively applied to mitigate these effects, the proponent will identify these effects and the parties that have the authority to act. In such cases, the EIS will summarise the discussions that took place with the other parties in order to implement the necessary measures over the long term;		
	✓ surface water quality in the Crowsnest River, Gold Creek, Blairmore Creek, and tributaries;	E.5.5 CR #5 Sections 4.1.1.2, 4.2.1.2, 4.3.1.2, 4.4.1.2	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 7.3
	✓ fish and fish habitat;	E.6.3.1.1	Addendum 1 (CEAA Doc#44), CR#6, Section 4.3, 6 Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 8.3
	✓ migratory birds;	E.9.5.1 CR #9 Wildlife, Section 7	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 11.3

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	✓ species at risk; and	E.6.3.1.1 E.8.5.1 Vegetation & Wetlands E.9.5.1 Wildlife CR #8 Vegetation & Wetlands, Section 4.2.6 CR #9 Wildlife, Section 7	Addendum 1 (CEAA Doc#44), CR #6, Section 6 Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 10.3, 11.3
	✓ Aboriginal peoples;	E.1.4.1 Air Quality E.8.5.1 Vegetation & Wetlands E.9.5.1 Wildlife E.12.4 Human health H.3.6.3, H.4.6.3, H.5.6.3, H.6.6.3, H.7.6.3, H.9.6.1, H.12.6.3: Mitigations for potential effects on traditional land and resource use CR #1a Air Quality, Section 6.6 CR #8 Vegetation & Wetlands, Section 4.6.4.1 CR #12 Human Health, Section 6.4	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 15.2
	Hydrogeology	CR #3 Hydrogeology Section 5.3.3, 5.4.3, 5.5.3	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 5.3
	Soils and terrain	E.7.5 CR #7 Soils & Terrain, Section 7.1.3, 7.2.3, 7.3.3, 7.4.3, Table 7.5-1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 9.3
	Land Use	E.10.5 CR #10 Land & Resource Use, Section 6.0	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 13
	Socio-economics	E.11.5 CR #11 Socio-economic, Section 1.2, 5.4, 6.4, 7.4, 8.4, 9.4, 10.4	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 12.3
	- determine the significance of the cumulative effects; and		
	✓ surface water quality in the Crowsnest River, Gold Creek, Blairmore Creek, and associated tributaries;	E.5.4 CR #5 Water Quality, Table 18	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 7.4
	✓ fish and fish habitat;	E.6.5	Addendum 1 (CEAA Doc#44), CR#6 Aquatic Resources, Section 4.4, 4.5 Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 8.4
	✓ migratory birds;	E.9.4, Table E.9.4-1 CR #9 Wildlife. Section 6.3.2, 6.4, Table 6.4-1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 11.4
	✓ species at risk; and	E.6.4 E.8.6.1, Table E.8.6-1 Vegetation & Wetlands E.9.4, Table E.9.4-1 Wildlife CR #8 Vegetation & Wetlands, Section 4.2.4, Table 5.1-1 CR #9 Wildlife, Section 6.3.2, 6.3.3, 6.3.6, 6.4, Table 6.4-1	Addendum 1 (CEAA Doc#44), CR #6 Aquatic Resources, Section 4.4, 4.5 Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 10.4, 11.4

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	✓ Aboriginal peoples;	E.1.5.3, Table E.1.5-2 Air Quality E.8.6.1, Table E.8.6-1 Vegetation & Wetlands E.9.4, Table E.9.4-1 Wildlife E.12.5 Human health H.3.6.3, H.4.6.3, H.5.6.3, H.6.6.3, H.7.6.3, H.9.6.1, H.12.6.3: Cumulative effects on traditional land and resource use CR #1a Air Quality, Table 6.5-1 CR #12 Human Health, Section 6.0, 7.0	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 15.2
	Hydrogeology	CR #3 Hydrogeology Section 6, 5.5-1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 5.4
	Soils and terrain	E.7.6; Table E.7.6-1 CR #7 Soils & Terrain, Table 7.5-1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 9.4
	Land Use	E.10.6, Table E.10.6-1 CR #10 Land & Resource Use, Section 8.0, Table 8.0-1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 13
	Socio-economics	E.11.6 CR #11 Socio-economic, Sections 5.3.1.3, 6.3.3, 8.3.3, 10.3.3	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 12.4
	- develop a follow-up program to verify the accuracy of the assessment or to dispel the uncertainty concerning the effectiveness of mitigation measures for certain cumulative effects.		
	✓ surface water quality in the Crowsnest River, Gold Creek, Blairmore Creek, and associated tributaries;	A.11.5.3 CR #5 Water Quality, Section 5	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 7.5
	✓ fish and fish habitat;	E.6.3.1.1	Addendum 1 (CEAA Doc#44), CR#6 Aquatic Resources, Section 6.0 Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 8.5
	✓ migratory birds;	A.11.9.3 E.9.5 CR #9 Wildlife, Section 7.2	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 11.5

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	✓ species at risk; and	A.11.6.3, A.11.8.3, A.11.9.3 E.6.3.1.1 - Fish E.8.5 Vegetation & Wetlands E.9.5.2 Wildlife CR #8 Vegetation & Wetlands, Section 4.2.6 CR #9 Wildlife, Section 7.2	Addendum 1 (CEAA Doc#44), CR#6 Aquatic Resources, Section 6.0 Westslope cutthroat trout Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 10.5, 11.5
	✓ Aboriginal peoples;	A.11.1.3, E.1.4.2 Air Quality A.11.8.3, E.8.5.2 Vegetation & Wetlands A.11.9.3, E.9.5.2 Wildlife H.3.7, H.4.7, H.5.7, H.6.7, H.7.7, H.9.7, H.12.7: Follow-up and monitoring programs for Aboriginal VCs CR #1a Air Quality, Section 6.5 CR #8 Vegetation & Wetlands, Section 4.6.4.2: Monitoring for TEK vegetation resources CR #9 Wildlife, Section 7.2	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 15.3
	Hydrogeology	A.11.3.3 E.3.5.2 CR#3 Hydrogeology Section 7.1	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 5.5
	Soils and terrain	A.11.7.3 E.7.5.2 Section F C&R Plan, F.3.8.3 Monitoring Focus CR #7 Soils & Terrain, Sections 7.1.3, 7.2.3, 7.3.3, 7.4.3	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 9.5
	Land Use	A.11.10.3 E.10.5 CR#10 Land & Resource Use, Section 6.0	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 13.2
	Socio-economics	A.11.11.3 E.11.5 CR#11 Socio-economic, Section 7.4, 9.4	Addendum 8, Part A, SIR# CEAA 5, Appendix A-1, Section 12.5
	The proponent is encouraged to consult with key stakeholders prior to finalizing the choice of VCs and the appropriate boundaries to assess cumulative effects.	G (Public Engagement) H.1.1.4.3 (Aboriginal Consultation) CR #8 Vegetation, Section 1.4.6, 3.6	---

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		CR #9 Wildlife, Section 3.2.3 CR #10 Land & Resource Use, Section 3.2	
7	SUMMARY OF ENVIRONMENTAL EFFECTS ASSESSMENT		
	The EIS will contain a table summarising the following key information: - potential environmental effects; - proposed mitigation measures to address the effects identified above; and - potential residual effects and the significance of the residual environmental effects.		
	The summary table will be used in the EA Report prepared by the Agency. An example of a format for the key summary table is provided in Appendix 1 of this document. In a second table, the EIS will summarise all key mitigation measures and commitments made by the proponent which will more specifically mitigate any significant adverse effects of the Project on valued components (<i>i.e.</i> , those measures that are essential to ensure that the Project will not result in significant adverse environmental effects).	Appendix 2B – summary of effects on CEEA-specific VCs Appendix 2C – summary of effects on other VCs Appendix 2D – mitigations and commitments	Addendum 6 (CEAA Doc#70), Section A, SIR#CEAA 3 and Appendix A-3
8	FOLLOW-UP AND MONITORING PROGRAMS		
	A follow-up program is designed to verify the accuracy of the effects assessment and to determine the effectiveness of the measures implemented to mitigate the adverse effects of the Project. The goal of a monitoring program is to ensure that proper measures and controls are in place in order to decrease the potential for environmental degradation during all phases of project development, and to provide clearly defined action plans and emergency response procedures to account for human and environmental health and safety.		
8.1	Follow-up Program	A.11	---
	The duration of the follow-up program shall be as long as required for the environment to regain its equilibrium and to evaluate the effectiveness of the mitigation measures. The EIS shall present a preliminary follow-up program in particular for areas where scientific uncertainty exists in the prediction of effects. This program shall include:		
	- objectives of the follow-up program and the VCs targeted by the program;	A.11.1.3, A.11.2.3, A.11.3.3, A.11.4.3, A.11.5.3, A.11.6.3, A.11.7.3, A.11.8.3, A.11.9.3, A.11.10.1, A.11.11.1, A.11.12.1, A.11.13.3	---
	- list of elements requiring follow-up;		---
	- number of follow-up studies planned as well as their main characteristics (list of the parameters to be measured, planned implementation timetable, etc.);		Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 4
	- intervention mechanism used in the event that an unexpected deterioration of the environment is observed;		---
	- mechanism to disseminate follow-up results among the concerned populations;	A.11.1.3, A.11.2.3, A.11.3.3, A.11.4.3, A.11.5.3, A.11.6.3, A.11.7.3, A.11.8.3, A.11.9.3, A.11.10.1, A.11.11.1, A.11.12.1, A.11.13.3	---
	- accessibility and sharing of data for the general population;		---

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Guideline No.	Guideline Description	EIS and Consultant Report (CR) Sections (Aug 2016 Submission)	Addendum #
	- opportunity for the proponent to take advantage of the participation of Aboriginal groups and stakeholders on the affected territory, during the implementation of the program; and		---
	- involvement of local and regional organizations in the design, implementation, and evaluation of the follow-up results as well as any updates, including a communication mechanism between these organizations and the proponent.		---
8.2	MONITORING		
	The proponent will prepare an environmental monitoring program for all phases of the Project. This program will help ensure that the Project is implemented as proposed, that the mitigation or compensation measures proposed to minimise the Project's environmental effects are effectively implemented, and that the conditions set at the time of the Project's authorisation and the requirements pertaining to the relevant laws and regulations are met. The monitoring program will also make it possible to check the proper operation of works, equipment, and facilities. If necessary, the program will help reorient the work and possibly make improvements at the time of construction and implementation of the various elements of the Project. Specifically, the EIS shall present an outline of the preliminary environmental monitoring program, including the:		
	- identification of the interventions that pose risks to one or more of the components and the measures and means planned to protect the environment;	A.11.1.3, A.11.2.3, A.11.3.3, A.11.4.3, A.11.5.3, A.11.6.3, A.11.7.3, A.11.8.3, A.11.9.3, A.11.10.1, A.11.11.1, A.11.12.1, A.11.13.3 CR #3 Section 7.1, 7.2	Addendum 8, Part B, SIR# DFO-R2-2, Appendix B-2 (Offsetting Monitoring Plan)
	- description of the characteristics of the monitoring program where foreseeable (e.g., location of interventions, planned protocols, list of measured parameters, analytical methods employed, schedule, human and financial resources required);		Addendum 6 (CEAA Doc#70), Section B, SIR# ECCC 21 Addendum 6 (CEAA Doc#70), Section C, SIR# DFO 7 Addendum 8, Part B, SIR# DFO-R2-2, Appendix B-2 (Offsetting Monitoring Plan) Addendum 8, Part B, SIR# DFO-R2-4 Addendum 8, Part B, SIR# HCC-R2-18
	- description of the proponent's intervention mechanisms in the event of the observation of non-compliance with the legal and environmental requirements or with the obligations imposed on contractors by the environmental provisions of their contracts;		---
	- guidelines for preparing monitoring reports (number, content, frequency, format) that will be sent to the authorities concerned; and		---
	- monitoring and management practices and procedures to be applied during all phases of the Project in relation to selenium releases and cumulative selenium loading. This may also include a description of how these monitoring and management practices may be integrated into and influence any local or regional water quality plans.	Section A.11.4.3, A.11.5.3, A.11.6.3 Section C.5, C.8	Addendum 2 (CEAA Doc#53), C.5.1, C.5.2