

Appendix 2a

CEAA Terms of Reference

Table 2A 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					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		(no use identified) H.11.3 Foothills Ojibway First Nation traditional use (no use identified) H.12.3; Figure H.12.1-1, H.12.4-1 Métis Nation of Alberta Region 3 traditional use assessment area) H.13.3, Figure H.13.1-1 Métis Nation of BC Region 4 traditional use (no use identified)			
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	---	---

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	– 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 Land and resource use planning, zoning	---	---
	– 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 Evaluation of significance	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 #6 Aquatic Resources, Section 3.1. Westslope cutthroat Recovery Plans	---	SIR1 Q 14 – site-specific selenium objective information is included in CR #5 Water Quality, Section 2.2.2, 4.1.1.2, Appendix A1

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			<p>CR #7 Soil & Terrain, Section 4.2, 5.5</p> <p>CR #8 Vegetation & Wetlands, Section 2.3.10</p> <p>CR #9 Wildlife, Table 1.4-1</p> <p>CR #12 Human Health, Section 5.2, 5.3, 5.4</p>		
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	Discussion of Project need (purpose, benefits, economic consequences of delays)	---	---
	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.	<p>A.2 Project Need – includes discussion of economic benefits of Project</p> <p>E.11.7 Summary of economic and fiscal benefits</p> <p>F.1.7 Gold Creek Stewardship Program (to address environmental issues arising from lack of remediation plans for historic mining in the area)</p> <p>F.2.1 Mitigation and reclamation of legacy</p>	CR #11 Socio-economics, Sections 1.3, 4.2 to 4.5, 6.5, 7.4, 9.4	---	---

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		mining areas			
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	---	SIR1 Q 3 – additional alternative means information provided in A.7 SIR1 Q 18.1 – potential mitigations not proposed due to technical or economic limitations are provided in A.7	---
	– 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	---	SIR1 Q 3 – see comment above	---
	– 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.	---	SIR1 Q 3 – see comment above	---
	– 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	---	SIR1 Q 3 – see comment above	---
	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	---	SIR1 Q 3 – see comment above	---

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	– access to the project site, including highway access points and watercourse crossings;	A.7.2	---	SIR1 Q 3 – see comment above	---
	– energy sources to power the project site;	A.7.9	---	SIR1 Q 3 – see comment above	---
	– water supply;	A.7.10	---	SIR1 Q 3 – see comment above	---
	– mine waste disposal (methods and sites considered); and	A.7.2; A.7.5 Mine configuration – rock disposal areas; Coal processing fines management	---	SIR1 Q 3 – see comment above	---
	– water management	A.7.6 Water and selenium management	---	SIR1 Q 3 – see comment above	---
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 Project footprint, showing location, components, boundaries, existing infrastructure, UTMs	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 Adjacent land use figures CR #10, Figures 4.2-3, 4.2-4, 4.2-5 Important environmental features	SIR1 Q 1a – additional information on Project components is provided	---
	– 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	---	---	---

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		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	---	---	---
	– 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.1.0-3 Figure provide 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	---	---	---

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	– 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 Description of water management features. Figures show locations and Table summarizes water management plan	---	---	SIR1 Q 41a – information provided on physical characteristics of surge ponds (C.5.5) and saturated zones (C.5.3.4.2, Figure C.5.3-5, C.5.3-6)
	– equipment requirements (type, quantity);	C.1.4, Table C.1.4-1	---	---	---
	– 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	CR #11 Socio-economics, Sections 4.5, 10.4 Number of employees,	---	---

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		mine	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	---	---	---
	- coal treatment;	C.2.4	Wash plant and operations	---	---
	- petroleum products (source, volume, storage);	C.6.6	Fuel and lube storage	---	---
	- 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	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.		SIR1 Q 28 – additional information on waste rock blending is provided in Appendix 10A Section 5.4.3 SIR1 Q 29 – updated information provided in Appendix 10A

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		C.8.3.1 Selenium management C.8.3.2 Acid rock drainage management Appendix 10A. Section 5.4. Section 6 Geochemical Characterization Progress Report			
	- 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	---	---	SIR1 Q 19 – information on selenium management is included in C.8.2, CR #5 Water Quality Section 5 SIR1 Q 20 – Water management plan information provided in Section C.5
	- 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	CR #11 Socio-economics, Sections 4.5.8, 6.3.2, 10.4	---	---

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		E.11.3.3, E.11.3.4 Number of employees, housing requirements	Number employees, housing requirements, transportation of employees		
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 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.	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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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	<p>H.3.4; Tables H.3.4-1 to H.3.4-4 Kainai Nation</p> <p>H.4.4; Tables H.4.4-1 to H.4.4-5 Piikani Nation</p> <p>H.5.4; Tables H.5.4-1 to H.5.4-4 Siksika Nation</p> <p>H.6.4, Table H.6.4-1, H.6.4-2 Stoney Nakoda Nation</p> <p>H.7.4, Tables H.7.4-1 to H.7.4-4 Tsuut'ina Nation</p> <p>H.8.4 Ktunaxa Nation</p> <p>H.9.4, Tables H.9.4-1 to H.9.4-4 Samson Cree Nation</p> <p>H.10.4 Shuswap Indian Band</p> <p>H.11.4 Foothills Ojibway First Nation</p> <p>H.12.4, H.12.4-1 to H.12.4-3 Metis Nation of Alberta Region 3</p>	<p>CR #12 Human Health, Section 2.2 and 5.1.3 Human Health Assessment focus based on public and Aboriginal consultation; identification of receptors</p> <p>CR#11 Socio-economics, Section 9.3, Table 9.1 Effects on the local Aboriginal population</p>	<p>SIR1 Q 4.0– non-Treaty 7 groups have been included</p> <p>SIR1 Q 4.1 to 4.7 – information from responses has been incorporated into Section H, its Appendices, and ongoing consultation</p>	---

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		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			
	- 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	CR#8 Vegetation Section 4.4.1, Table 4.4-1; Section 4.6.1, Table 4.6-1 Potential effects Forestry Resources; on TEK Plant Potential CR#9 Wildlife, Section 5.6, Table 5.3-26, Table 6.4-1 Traditional resource use, wildlife residual and cumulative effects CR#10 Land & Resource Use, Section 5.4, 5.5, 5.6, 5.8 Potential effects on resource development, hunting & trapping, access, and unique sites CR#11 Socio-economics, Section 9.3, Table 9.1 Potential effects on traditional land use and Aboriginal culture	SIR1 Q 4.4 –response has been incorporated into Section H	---

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		<p>H.10.4 Shuswap Indian Band</p> <p>H.11.4 Foothills Ojibway First Nation</p> <p>H.12.5, H.12.6.3; Table H.12.5-1 Metis Nation of Alberta Region 3</p> <p>H.13.4 Metis Nation of BC Region 4</p> <p>E.8.3.4, E.8.3.6 Potential effects on forestry resources and traditional use vegetation</p> <p>E.9.3 Potential impacts on wildlife VCs (including traditional use species)</p> <p>E.10.3 Potential impacts land & resource use (including resource development, hunting, trapping, access, and unique sites)</p> <p>E.11.3.8 Potential impacts of socio-economic conditions related to traditional use</p>			
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:					

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	- 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#6 Fisheries Section 3.1.1, Table 3.2 Traditional use fish species in LSA and RSA 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	SIR1 Q 4.1 and 5 – additional information on VC selection has been provided	---
	- 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	---	CEEA Non-technical (conformity) SIR 4.2 response	---

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	- 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 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	SIR1 Q 4.5 - Appendix 2A provides Benga's mitigations and commitments	---
	- 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, Tsuu'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,	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	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEAA Conformity SIRs	CEAA Technical SIRs
		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	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		
	- 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	---	---	---
	- 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 yet provided feedback on effectiveness but these groups indicate monitoring will verify effectiveness))	---	SIR1 Q 4.6 – response incorporated into the listed subsections of H	---
	- 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;	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 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 Socio-economics Section 9.3 Effects assessment for traditional land use and Aboriginal culture	---	---

Table 2A 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					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		<p>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</p> <p>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>			
	- 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</p> <p>H.4.4, H.4.8 Tables H.4.4-2 to H.4.5-6, H.4.8-1 Piikani Nation</p> <p>H.5.4, H.5.8 Tables H.5.4-2 to H.5.4-4, H.5.8-1 Siksika Nation</p> <p>H.6.4, H.6.8 Table H.6.4-2, H.6.8-1 Stoney Nakoda Nation</p> <p>H.7.4, H.7.8</p>	CR #9 Wildlife Section 5.6	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		<p>Tables H.7.4-2 to H.7.4-4, H.7.8-1 Tsuut'ina Nation</p> <p>H.8.5 Table H.8.5-1 Ktunaxa Nation</p> <p>H.9.4, H.9.8 Tables H.9.4-2 to H.9.4-4, H.9.8-1 Samson Cree Nation</p>			
	- 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:</p> <p>Kanai Nation H.3.8, Table H.3.8-1</p> <p>Piikani Nation H.4.8, Table H.4.8-1</p> <p>Siksika Nation H.5.8, Table H.5.8-1</p> <p>Stoney Nakoda Nation H.6.8, Table H.6.8-1</p> <p>Tsuut'ina Nation H.7.8, Table H.7.8-1</p>	---	---	---

Table 2A 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

Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		<p>Ktunaxa Nation H.8.5, Table H.8.5-1</p> <p>Samson Cree Nation H.9.8, Table H.9.8-1</p> <p>Metis Nation of Alberta Section H.12.8, Table H.12.8-1</p>			
	- 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	<p>H.1.1.4.3</p> <p>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</p> <p>Potential effects and mitigation measures for consulted Aboriginal groups</p> <p>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</p> <p>Feedback from and responses to consulted Aboriginal groups</p> <p>H.3.5, H.4.5, H.5.5, H.6.5, H.7.5, H.9.5, H.12.5</p> <p>Characterization of residual effects for consulted Aboriginal groups</p> <p>H.3.6, H.4.6, H.5.6, H.6.6, H.7.6, H.9.6, H.12.6</p> <p>Cumulative effects assessment for for</p>	<p>CR #1a Air Quality, Section 2.5.3.2</p> <p>CR #5 Surface Water Quality, Section 3.2.2, 3.2.5</p> <p>CR #6 Aquatic Resources, Section 2.1, Section 3.1.1, Table 3.2</p> <p>CR #8 Vegetation, Section 3.6, 4.6, Table 3.6-1</p> <p>CR #9 Wildlife, Table 2.2-1, Section 3.2.3, 5.6, 7.1, 7.2</p> <p>CR #11 Socio-economic, Section 9</p> <p>CR #12 Human Health, Sections 2.2, 5.1.3.1</p>	SIR Q4.7 – information provided, plus see response to Q4.7	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		consulted Aboriginal groups			
	- 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);	<p>Consultation summaries and chronologies of key consultation activities for:</p> <p>Kainai Nation H.3.2.1, Table H.3.2-1</p> <p>H.4.2.1, Table H.4.2-1 Piikani Nation</p> <p>H.5.2.1, Table H.5.2-1 Siksika Nation</p> <p>H.6.2.1, Table H.6.2-1 Stoney Nakoda Nation</p> <p>H.7.2.1, Table H.7.2-1 Tsuu'ina Nation</p> <p>H.8.2.1, Table H.8.2-1 Ktunaxa Nation</p>	---	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		H.9.2.1, Table H.9.2-1 Samson Cree Nation			
		H.10.2.1, Table H.10.2-1 Shuswap Indian Band			
		H.11.2.1, Table H.11.2-1 Foothills Ojibway First Nation			
		H.12.2.1, Table H.12.2-1 Metis Nation of Alberta Region 3			
		H.13.2.1, Table H.13.2-1 Metis Nation of BC Region 4			
		Appendix 7b Records of Communication			

Table 2A 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					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	- any future planned engagement activities; and	<p>Follow-up & monitoring and ongoing consultation with:</p> <p>Kanai Nation H.3.7, Table H.3.8-1</p> <p>Piikani Nation H.4.7, Table H.4.8-1</p> <p>Siksika Nation H.5.7, Table H.5.8-1</p> <p>Stoney Nakoda Nation H.6.7</p> <p>Tsuut'ina Nation H.7.7, Table H.7.8-1</p> <p>Samson Cree Nation H.9.7, Table H.9.8-1</p> <p>Metis Nation of Alberta H.12.7</p>	---	---	---
	- 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.	<p>H.1.1 Description of Aboriginal consultation activities</p> <p>H.1.1.1 Consultation with Treaty 7 First Nations</p> <p>H.1.1.2</p>	---	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		<p>Consultation with other Aboriginal groups</p> <p>H.1.1.4 TEK/TLU opportunities for Treaty 7 First Nations</p> <p>Consultation summaries:</p> <p>H.3.2.1, Table H.3.2-1 Kainai Nation</p> <p>H.4.2.1, Table H.4.2-1 Piikani Nation</p> <p>H.5.2.1, Table H.5.2-1 Siksika Nation</p> <p>H.6.2.1, Table H.6.2-1 Stoney Nakoda Nation</p> <p>H.7.2.1, Table H.7.2-1 Tsuut'ina Nation</p> <p>H.8.2.1, Table H.8.2-1 Ktunaxa Nation</p> <p>H.9.2.1, Table H.9.2-1 Samson Cree Nation</p> <p>H.10.2.1, Table H.10.2-1 Shuswap Indian Band</p>			

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Guideline No.	Guideline Description	Section	Consultant Report	CEAA Conformity SIRs	CEAA Technical SIRs
		<p>H.11.2.1, Table H.11.2-1 Foothills Ojibway First Nation</p> <p>H.12.2.1, Table H.12.2-1 Metis Nation of Alberta Region 3</p> <p>H.13.2.1, Table H.13.2-1 Metis Nation of BC Region 4</p>			
	<p>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.</p>	<p>Appendix 7a First Nations Consultation Plan</p> <p>Appendix 7b Aboriginal Consultation Records</p> <p>H.1.1.1 Consultation with Treaty 7 First Nations</p> <p>H.1.1.2 Consultation with Other Aboriginal Groups</p> <p>Consultation summaries:</p> <p>H.3.2.1, Table H.3.2-1 Kainai Nation</p> <p>H.4.2.1, Table H.4.2-1 Piikani Nation</p>	---	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		H.5.2.1, Table H.5.2-1 Siksika Nation			
		H.6.2.1, Table H.6.2-1 Stoney Nakoda Nation			
		H.7.2.1, Table H.7.2-1 Tsuut'ina Nation			
		H.8.2.1, Table H.8.2-1 Ktunaxa Nation			
		H.9.2.1, Table H.9.2-1 Samson Cree Nation			
		H.10.2.1, Table H.10.2-1 Shuswap Indian Band			
		H.11.2.1, Table H.11.2-1 Foothills Ojibway First Nation			
		H.12.2.1, Table H.12.2-1 Metis Nation of Alberta Region 3			
		H.13.2.1, Table H.13.2-1 Metis Nation of BC Region 4			
	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	---	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		<p>Piikani Nation H.4.8, Table H.4.8-1</p> <p>Siksika Nation H.5.8, Table H.5.8-1</p> <p>Stoney Nakoda Nation H.6.8, Table H.6.8-1</p> <p>Tsuut'ina Nation H.7.8, Table H.7.8-1</p> <p>Ktunaxa Nation H.8.5, Table H.8.5-1</p> <p>Samson Cree Nation H.9.8, Table H.9.8-1</p> <p>Metis Nation of Alnerta H.12.8, Table H.12.8-1</p> <p>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</p> <p>Consultation summaries and chronologies of key consultation activities</p> <p>Appendix 7b – Aboriginal Consultation Records</p>			
	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				

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	summaries) accessible:				
	- Blood Tribe (Kainai Nation);	Appendix 7a Table 4.1 Table H.3.2.1 Chronology of key consultation activities	---	---	---
	- Piikani Nation	Appendix 7a Table 4.1 Table H.4.2.1 Chronology of key consultation activities	---	---	---
	- Siksika Nation;	Appendix 7a Table 4.1 Table H.5.2.1 Chronology of key consultation activities	---	---	---
	- 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	---	---	---
	- Tsuu T'ina Nation.	Appendix 7a Table 4.1 Table H.7.2.1 Chronology of key consultation activities	---	---	---
	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,	---	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEAA Conformity SIRs	CEAA Technical SIRs
		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	---	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		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	---	---	---
	- 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:	E.1.2.2 Ambient measurements were taken	CR #1a Air Quality,	SIR1 Q 6.1 – further station information has	SIR1 Q12 – information on dust suppression percentage used in

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	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);	from representative regional stations, not on-site stations	Section 3.1 Appendix C Section 5, Table C5-1 Summary of background air quality results that were used for dispersion modeling	been provided	other projects and water volume for haul roads A.4.7 and C.5.1.1.
	- 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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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	- 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	---	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	✓ 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 area to support soil salvage and reclamation efforts, and to outline potential for soil erosion; and	---	CR #7 Soils and Terrain Figures 3.3-2 to 3.3-5, and 4.1-1; Section 4.3 Baseline soil and terrain of the RSA and soil layer thickness maps.	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
			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 4.4 Figure 4.4-1, 4.4-3; Tables B3a and B3b Groundwater conditions, hydraulic conductivity	---	SIR1 Q 31 – additional information on groundwater quality at depth is provided in CR #3 Section 4.4.1, 4.4.2 SIR1 Q34 - additional information on hydraulic units is provided in CR #3 Section 3.2.2 and Appendix C

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	✓ 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	---	---
	- 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	---	SIR1 Q 32 – characteristics cross sections of the proposed mine permit boundary showing groundwater levels and pit contours provided in CR #3 Figures 4.2-5 to 4.2-8
	- 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, fracture zones, piezometric levels, hydraulic conductivity, diameter and screen depth, and intercepted aquifer unit);	---	CR #3 Hydrogeology Figures 3.1-1, 4.2-5 to 4.2-8; Tables B2, B3a, B3b, B4, B6 to B10, B12	---	---
	- monitoring protocol for collection of existing groundwater and surface water data;	---	CR #3 Hydrogeology Appendix D Groundwater field procedures CR #5 Water Quality Section 3.1.3.2	---	SIR1 Q 30 – additional information on monitoring parameters and mitigation triggers provided in CR #3 Section 7.1, 7.2

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			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	---	SIR1 Q 33, 35 – additional information on base flow rates and steady state flow model is provided in CR #3 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	---	---
	- 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	---	---
	- 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 CR#6 Aquatic Resources Figures 2.1, 2.2	---	---
	- hydrological regimes, including monthly, seasonal, and annual water	E.4.2.2, E.4.2.3	CR #4 Hydrology	---	SIR1 Q 25 – additional

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	flow (discharge) data;	Appendix 10A	Section 3		information on hydrological modelling is provided in Appendix 10A
	- for each affected water body, the total surface area, bathymetry, maximum and mean depths, water level fluctuations, type of substrate (sediments);	---	CR#6 Aquatic Resources Section 3.2.2, 3.3.2 Bathymetry not applicable, as there are no natural lakes occurring in Project LSA	---	---
	- 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 3.2	---	SIR1 Q 22 – information on winter sampling is provided in CR #5 Section 3.1.3.1, 3.2.3 SIR1 Q 23 – historical information is provided in CR #5 Section 3.2.1
	- surface water quantity, including seasonal changes in runoff entering watercourses;	E.4.3	CR #4 Hydrology Section 5	---	---
	- 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 CR #6 Aquatic Resources Section 3.3.2.2 Mine effluent will not be directly released from site.	---	---
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	Section E.6.2.1.1 and E.6.2.2 for historical data sources and known	CR #6 Aquatic Resources	---	---

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	(e.g., location of sampling stations, catch methods, date of catches, species, catch-per-unit effort);	population data. 2016 fish population study methods E.6.2.3.1. Results of survey to be provided in EIA Addendum report in Q1 2017.	Sections 3.1.1, and 3.2.1 Historical data sources and known population data Section 3.3.1.2 2016 fish population study methods. Results of survey to be provided in EIA Addendum report in Q1 2017.		
	- 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	CR #6 Aquatic Resources Section 3.2.2.1	---	---
	- 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	CR #6 Aquatic Resources Section 3.1, Table 3.1, Figure 3.1	---	---
	- 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	CR #6 Aquatic Resources Section 3.2.1, and 3.3.1.1	---	---
	- a description of natural obstacles (e.g., falls, beaver dams) or existing structures (e.g., water crossings) that hinder the free passage of fish;	---	CR #6 Aquatic Resources Section 3.2.1.1 and 3.1.1.2. Figure 3.1	---	---
	- 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;	---	Detailed IFN figures to be provided in EIA Fish & Aquatic Addendum (Q1 2017) Bathymetry not applicable, as there are no natural lakes occurring in Project LSA	---	---

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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.	---	CR #6 Aquatic Resources Figure 3.1 Detailed IFN figures to be provided in EIA Fish & Aquatic Addendum (Q1 2017)	---	---
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	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	- year-round migratory bird use of the area (<i>e.g.</i> , 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	---	SIR1 Q 39 – information provided in CR #12, Appendix H SIR1 Q40 - CR #12, Appendix H, Section 2.3. Table H.3 SIR1 Q 42 – CR #12, Appendix H, Section 2, 3, 5, 7
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 #6 Aquatic Resources, Section 3.1.1, Table 3.1 CR #8 Vegetation & Wetlands, Section 3.2.1 CR #9 Wildlife, Section 2.4.2, Table 2.4-2	---	---
	- a list of all federal species designated by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) for listing on Schedule 1 of the <i>Species at Risk Act</i> . This will include those species in the risk categories of extirpated, endangered, threatened, and special concern ;	E.6.2.1, Table 6.2-1 Fish E.8.2.2.1 Vegetation	CR #6 Aquatic Resources, Section 3.1.1, Table 3.1 CR #8 Vegetation & Wetlands, Section 3.2.1	---	---

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		E.9.5.2 Wildlife	CR #9 Wildlife, Section 2.4.2, Table 2.4-2		
	- 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#6, Sections 3.1, 8.0 (Fisheries and Oceans Canada 2014) Recovery Strategy for the Alberta populations of Westslope Cutthroat Trout CR #8 Vegetation & Wetlands, Section 3.2.1 CR #9 Wildlife, Section 2.4.2	---	---
	- 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	---	Detailed fish population and IFN data and figures to be provided in EIA Fish & Aquatic Addendum (Q1 2017) 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	---	SIR1 Q 37 – information provided for whitebark pine SIR1 Q 38 – a final response to information request will be provided once all 2016 bat surveys have been completed.

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			the Application Case Assessment		
	- 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	---	SIR1 Q 39 – information provided in CR #12, Appendix H SIR1 Q 42 – CR #12, Appendix H, Section 2, 3, 5, 7
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	---	---	---

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	- 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 Current use for: Kainai Nation Piikani Nation Siksika Nation Stoney Nakoda Nation Tsuut'ina Nation Metis Nation of Alberta	---	---	---
	- commercial activities (e.g., fishing, trapping, hunting, forestry, outfitting);	H.3.3.2, H.4.3.2, H.5.3.2, H.6.3.2, H.7.3.2, H.12.3.2 Current use for: Kainai Nation Piikani Nation Siksika Nation Stoney Nakoda Nation Tsuut'ina Nation Metis Nation of Alberta	---	---	---
	- recreational uses;	H.3.3.2, H.4.3.2, H.5.3.2, H.6.3.2, H.7.3.2, H.12.3.2 Current use for: Kainai Nation Piikani Nation Siksika Nation Stoney Nakoda Nation Tsuut'ina Nation Metis Nation of Alberta	---	---	---
	- traditional uses currently practiced or practiced in recent history;	H.3.3.2, H.4.3.2, H.5.3.2, H.6.3.2, H.7.3.2, H.12.3.2	---	---	---

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		Current use for: Kainai Nation Piikani Nation Siksika Nation Stoney Nakoda Nation Tsuut'ina Nation Metis Nation of Alberta			
	- 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	---	---
	- 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	CR #12 Human Health, Sections 2.2.2 and 5.1.3	---	---

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		<p>H.5.3, Fig H.5.1-1</p> <p>Stoney Nakoda Nation</p> <p>H.6.3, Fig H.6.1-1</p> <p>Tsuut'ina Nation</p> <p>H.7.3, Fig H.7.1-1</p> <p>Ktunaxa Nation</p> <p>H.8.3, Fig H.8.1-1</p> <p>Samson Cree Nation</p> <p>H.9.3, Fig H.9.1-1</p> <p>Shuswap Indian Band</p> <p>H.10.3, Fig H.10.1-1</p> <p>Foothills Ojibway First Nation</p> <p>H.11.3</p> <p>Metis Nation of Alberta Region 3</p> <p>H.12.3, Fig H.12.1-1</p> <p>Metis Nation of BC Region 4</p> <p>H.13.3, Fig H.13.1-1</p>			
	- access and travel routes for conducting traditional practices;	<p>Kainai Nation</p> <p>H.3.3.2.5</p> <p>Piikani Nation</p> <p>H.4.3.2.5</p>	---	---	---

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		<p>Siksika Nation H.5.3.2.5</p> <p>Stoney Nakoda Nation H.6.3.2.5</p> <p>Tsuut'ina Nation H.7.3.2.5</p> <p>Ktunaxa Nation H.8.3</p> <p>Samson Cree Nation H.9.3</p> <p>Shuswap Indian Band H.10.3</p> <p>Foothills Ojibway First Nation H.11.3</p> <p>Metis Nation of Alberta H.12.3.2.5</p> <p>Metis Nation of BC H.13.3</p>			
	- frequency, duration, or timing of traditional practices;	<p>Kainai Nation H.3.3</p> <p>Piikani Nation</p>	---	---	---

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		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	---	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		<p>H.8.3 Samson Cree Nation</p> <p>H.9.3 Shuswap Indian Band</p> <p>H.10.3 Foothills Ojibway First Nation</p> <p>H.11.3 Metis Nation of Alberta</p> <p>H.12.3 Metis Nation of BC</p> <p>H.13.3</p>			
	- physical and cultural heritage (including any site, structure, or thing of archaeological, paleontological, historical, or architectural significance); and	<p>E.13.1.2, E.13.1.3 Historical resources baseline conditions and site assessment</p> <p>Kainai Nation H.3.3.5</p> <p>Piikani Nation H.4.3.5</p> <p>Siksika Nation H.5.3.5</p>	---	---	---

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		Stoney Nakoda Nation H.6.3.5 Tsuut'ina Nation H.7.3.4 Metis Nation of Alberta H.12.3.5			
	- 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	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.	---	---	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
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	---	---
	- 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	---	---

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	- 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 5.1 to 5.13, 6.4; Table 6.4-1	---	SIR1 Q 10 – equipment requirements table has been updated in CR #1a Appendix A Table A3-3 and Exhaust emissions have been updated in CR #1a Appendix A Section A.5.1. SIR1 Q 11 – CALPUFF parameters are provided in CR #1a Appendix B Section 4.3 SIR1 Q 13 – cumulative effects information provided in CR #1a Section 4.7
	- 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	---	SIR 1 Q 46a – impact of blasting noise noise is provided in CR #2a Section 5.4.2 SIR 1 Q 46b – noise assessment for Project phases. CR #2a Section 3.3 indicates three scenarios (years) modeled. Not

Table 2A 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					
Guideline No.	Guideline Description	Section	Consultant Report	CEAA Conformity SIRs	CEAA Technical SIRs
					practical to model phase because phases overlap as the mine progresses.
	- 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	---	---
	- changes to turbidity, oxygen level, water temperature, ice regime, water quality;	E.5.3 Potential surface water quality impacts	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	CR# 5 Water Quality, Sections 4.1.1.3, 4.4.1.3	---	SIR1 Q 16a Comparison of background and modeled selenium levels provided in Appendix 10B Section 8. SIR1 Q16b selenium mitigation information provided in Section C.8, CR #5 Section 4.1.1.2 SIR1 Q 17 – additional information about the water quality model is provided in Appendix 10B SIR1 Q 18 – discharging anoxic water to Blairmore Creek from saturated zones + mitigations – information provided in CR #5 Section 4.1.1

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
					<p>SIR1 Q 24 – information on water quality reference sites provided in CR #5 Section 3.2.3.1; CR #6 Section 3.3.2.1</p> <p>SIR1 Q26 – wastewater is no longer being discharged to subsurface, rather being trucked away (Section C.6.17)</p> <p>SIR1 Q 27 – water quality inputs/outputs are provided in Appendix 10B and its Appendix C; effluent volumes and quality prior to release are provided in Appendix 10B (Appendix C1 and C2 – quantity; Section 8.3 - quality)</p>
	- 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	---	---
	- 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	---	---
	- changes to groundwater quality associated with storage or release of any mine effluents or drainage, including runoff;	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	---	SIR1 Q26 – wastewater is no longer being discharged to subsurface, rather being trucked away (Section C.6.17)
	- 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	---	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	- 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	---	---	---
	✓ 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 The potential for metal leaching and ARD described in both sections.	---	---	---
	✓ estimates of potential time to the onset of acid rock drainage or metal leaching;	Appendix 10A, Section 5.0	---	---	---
	✓ 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	---	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	✓ 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	---	---	---
	✓ 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 10B Section 8	---	---	SIR1 Q 21 – additional information on seepage management is provided in Appendix 10A Section 5, 6; Appendix 10B Section 2.3.4; 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.	---	CR #5 Section 4	---	SIR1 Q 14– additional information is provided in C.8, CR #5 Section 2.2.2

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
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 Application case assessments for soils and terrain 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 Application case assessments for vegetation and wetlands CR#9 Wildlife, Section 5.1 to 5.5. Potential impacts to wildlife and wildlife habitat	SIR1 Q 7.1 – additional information has been provided in the Closure Plan (F.4)	---
	– 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 5.5, 5.1, 5.3.3.1, 5.3.3.2, 5.4.1, Table 5.1-1, Table 4.6-1	SIR1 Q 10- migratory bird information has been provided in CR #9 Section 4.6, 5.5	---
	– changes to critical habitat for federally listed species at risk; and	E.9.2.1.3	CR #9 Wildlife, 4.2.3	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	- 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	CR #6 Aquatic Resources, Section 4	Conformance SIR1 Q 8, 9 and Technical SIR1 Q 1 to 9 will be provided in Fish and Aquatic Resources Addendum in Q1 2017. Work Plan to address these information requests have been reviewed and approved by AER and DFO.	
	✓ 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	CR #6 Sections 3.3.1.1 outlines methodology for full geomorphology assessment as part of 2016 IFN study	See above statement	
	✓ the modifications of hydrological and hydrometric conditions on fish habitat and on the fish species' life cycle activities (e.g., reproduction,	Section E.6.3	CR #6 Section 4.1.2.1 overview of changes	See above statement	

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	fry-rearing, movements);		in flow. IFN methodology on 2016 assessment provided in Section 3.3.1.3		
	✓ 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	CR #6 Section 4.1.2.1 overview of changes in flow, which will incorporate changes in surface drainage. IFN methodology on 2016 assessment provided in Section 3.3.1.3	See above statement	
	✓ any potential imbalances in the food web in relation to baseline;	Section E.6.3	CR #6 Section 4.1.2.1 overview of changes in flow and Section 4.1.2.2 changes in water quality. Fish health and aquatic resources survey for 2016 described in Section 3.3.2	See above statement	
	✓ 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	CR #6, Section 4.1.2.1 overview of changes in flow and Section 4.1.2.2 changes in water quality. Fish health and aquatic resources survey for 2016 described in Section 3.3.2	See above statement	
	- the effects of changes to the aquatic environment on fish and their habitat, including;	---	---	---	
	✓ the anticipated changes in the composition and characteristics of the populations of various fish species, including and forage fish;	Section E.6.3	CR #6 Section 3.3.1.2 for 2016 fish population assessment methodology	See above statement	
	✓ 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	CR #6 Section 3.3.1.2 for 2016 fish population assessment methodology	See above statement	
	✓ 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	CR #6 Section 3.3.1.2 for 2016 fish population assessment	See above statement	

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
			methodology		
	✓ 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	CR#6 Section 4.1.2.1 overview of changes in flow, which will incorporate changes in surface drainage. IFN methodology on 2016 assessment provided in Section 3.3.1.3	See above statement	
	- a discussion of how project construction timing correlates to key fisheries windows for fish species, and any potential impacts resulting from overlapping periods;	---	CR#6 Section 4.1	See above statement	
	- a discussion of how vibration caused by blasting may affect fish behaviour, such as spawning or migrations;	---	CR#6 Section 4.1.2.2	See above statement	
	- 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	CR#6 Section 4.1.2.1 overview of changes in flow Section 4.1.2.2 changes in water quality. Section 3.3.2 Fish health and aquatic resources survey for 2016	See above statement	
	- changes to fish health resulting from increased contaminants of concern.	Section E.6.3.1.3.2	CR#6 Section 4.1.2.1 overview of changes in flow Section 4.1.2.2 changes in water quality. Section 3.3.2 Fish health and aquatic resources survey for 2016	See above statement	
	- 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	CR#6 Section 3.3.1.3 describes IFN Study approach.	See above statement	
6.3.2	Migratory Birds				

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	- 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	CR #9 Wildlife Section 5.5.1, 5.5.3, 5.3.3.1, 5.3.3.3, 5.4.1, 5.4.2 Effects due to habitat loss and change in mortality risk for migratory birds in general, and for individual species of migratory birds assessed	SIR1 Q 10.1, 10.2 – additional migratory bird information is provided in CR #9 Section 5.5	SIR1 Q 41b, c – impact of surge ponds (selenium) on migratory birds/wildlife. Information provided in CR #9 Section 5.5.3, 5.3.1.3, 5.3.1.4, 5.4.4, 5.4.5. Mitigations provided in Section C.8, CR #9 Section 7.1.4, 7.1.5, 7.2.
	- collision risk of migratory birds with any project components or activities;	E.9.3.3 Summary of potential mortality risks to wildlife, including collision risk to migratory birds	CR #9 Wildlife Section 5.5.3, 4.4.3.4, 5.3.3.3, 5.4.1, 5.4.2.1 Sections discuss potential collisions for migratory birds in general, and for individual species of migratory birds assessed	SIR1 Q 10.1, 10.2 – additional migratory bird information is provided in CR #9 Section 5.5	---
	- 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 Potential effects of sensory disturbance are discussed for wildlife in general, migratory birds in general, and two assessed migratory bird species	SIR1 Q 10.1, 10.2 – additional migratory bird information is provided in CR #9 Section 5.5	---
	- 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 Discussion of wildlife health assessment CR #12 Human and Wildlife Health, Appendix H Wildlife screening level risk	SIR1 Q 10.1, 10.2 – additional migratory bird information is provided in CR #9 Section 5.5	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
			assessment		
6.3.3	Species at Risk				
	- 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:	<p>E.6.2.1 Westslope cutthroat trout</p> <p>E.8.3.2 Effects assessment on whitebark pine and limber pine</p> <p>E.9.3.1 to E.9.3.5; E.9.3.7 Potential impacts to wildlife in general; potential impacts to VCs, including SARA and COSEWIC species</p>	<p>CR #6 Aquatic Resources Section 2.1, 3.1 Summary of predicted effects on VCs, including westslope cutthroat trout</p> <p>CR #8 Vegetation & Wetlands Section 4.2.1 Assessment for whitebark pine and limber pine.</p> <p>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 Effects assessments for four SARA-listed species and four COSEWIC-listed species. Discussion of critical habitat for SAR (4.2.3)</p>	SIR1 Q 11 will be provided in Fish and Aquatic Resources Addendum in Q1 2017.	SIR1 Q 1 to 9 will be provided in Fish and Aquatic Resources Addendum in Q1 2017. Work Plan to address these information requests have been reviewed and approved by AER and DFO.
	✓ direct and indirect effects resulting from increased exposure to contaminants of concern.	---	<p>CR #5 Water Quality Section 4</p> <p>CR #9 Wildlife Section 4.1</p> <p>CR #12 Human and Wildlife Health Appendix H</p>	---	---
	✓ direct and indirect effects on the survival or recovery of federally listed species (e.g., westslope cutthroat trout);	---	<p>CR#6 Aquatic Resources Section 3.3.1.2</p> <p>CR #8 Vegetation & Wetlands</p>	---	Responses to Technical SIR #1-9 will be provided in Fish and Aquatic Resources Addendum in Q1 2017. Work Plan to

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Cross Reference (Concordance) Table to Location in Application					
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			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		address these information requests have been reviewed and approved by AER and DFO.
	✓ 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#6 Aquatic Resources, Section 5 CR #8 Vegetation & Wetlands Section 4.2.6.3 Discussion of Alberta Recovery Plans for whitebark pine and limber pine CR #9 Wildlife Section 5.3.3.5 and Section 5.4.2.2 Discussions of Project effects on federal recovery strategies of olive-sided flycatcher and common nighthawk	---	Responses to Technical SIR #1-9 will be provided in Fish and Aquatic Resources Addendum in Q1 2017. Work Plan to address these information requests have been reviewed and approved by AER and DFO.
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	---	SIR1 Q 5.1 – see response	---
	✓ 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	---	---	---

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		and resources			
	✓ any effects on cultural value or importance associated with traditional uses or areas affected by the Project (e.g., inter-generational teaching of language or traditional practices, communal gatherings);	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 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	---	---	---

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		Residual effects to current use of lands and resources			
	✓ 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 Residual effects to Aboriginal health	CR #12 Human Health Risk Assessment	---	SIR1 Q 43 – information provided in CR #12 SIR1 Q 44 – information on country foods is provided in CR #12 Section 5.1.3.2 (exposure estimates are conservative if they include foods not consumed, such as fish) SIR1 Q 45 – health risk from leachate – not assessed as Project assumed to have no significant effect on water quality (CR #12 Section 5.1.1, CR #3 Section 5.6, CR #5 Table 18) SIR1 Q 46 - impact of blasting noise noise is provided in CR #2a Section 5.4.2

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	– 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 Potential effects to Aboriginal socio-economic conditions H.4.5.3, H.12.5.3 Residual effects to Aboriginal socio-economic conditions (Piikani Nation and Metis Nation of Alberta)	---	---	---
	✓ commercial fishing, hunting, trapping, and gathering activities;	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 H.4.5.3, H.12.5.3 Residual effects to Aboriginal socio-economic conditions (Piikani Nation and Metis Nation of Alberta)	---	---	---
	✓ commercial outfitters; and	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 H.4.5.3, H.12.5.3 Residual effects to Aboriginal socio-economic conditions (Piikani Nation and Metis Nation of Alberta)	---	---	---

Table 2A 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					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	✓ recreational use, including wildlife viewing;	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 H.4.5.3, H.12.5.3 Residual effects to Aboriginal socio-economic conditions (Piikani Nation and Metis Nation of Alberta)	---	---	---
- 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 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 the cultural value or importance associated with 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	---	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		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			
	- 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	---	---
	- 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				
	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.				

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	<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	CR#1a Air Quality & Climate Section 6.6	---	---
	Greenhouse Gas & Climate	E.1.4.1	CR#1a Air Quality & Climate Section 6.6	---	SIR1 Q48 – A.82, C.7.9 – GHG project contribution and mitigations, respectively
	Noise	A.11.2.1 E.2a.5.1, E.2a.5.2	CR #2a Noise Section 5.4	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	Hydrogeology	A.11.3.1 E.3.5.1	CR #3 Hydrogeology Sections 5.3.3, 5.4.3, 5.5.3	---	---
	Hydrology	A.11.4.1 E.4.5.1 C.5	CR #4 Hydrology Section 6.4	---	---
	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	---	---
	Fisheries/ Aquatic Ecology	A.11.6.1 E.6.3.1.1 F.2.1.4	CR #6 Aquatic Resources Section 6.0	SIR1 Q9.1 response (impacts to fish and fish habitat, mitigation) will be provided in Fish and Aquatic Resources Addendum in Q1 2017.	---
	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	---	---
	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	---	---
	Wildlife	A.11.9.1 E.9.5.1 F.2.6, F.3.2	CR #9 Wildlife Section 7.1	---	---
	Land Use	A.11.10 E.10.5 F.1.6, F.6	CR #10 Land & Resource Use Section 6.0	---	---
	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,	---	---

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Cross Reference (Concordance) Table to Location in Application					
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			10.4		
	Human Health	A.11.12 E.12.5	CR #12 Human Health Section 6.5 (Refers to CR #1a Air Quality, Section 6.6 monitoring program, and all mitigation summaries provided in Section A.11)	---	SIR1 Q 43 – information on mitigation provided in CR #12 Section 6.5 and CR #1a Section 6.6
	Historical Resources	A.11.13.1 E.13.3.3 E.13.5	---	---	--
	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	---	SIR1 Q 3 – additional information on additional means is provided in Section A.7	---
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	---	---	---
	Air Quality	Table E.1.5-4	CR #1a Air Quality Section 6.6, Table 6.5-1	---	---
	Greenhouse Gas & Climate	Table E.1.5-4	CR #1a Air Quality Table 6.5-1	---	---
	Noise	Table E.2-1	CR #2 Noise Table 6.3-1	SIR1 Q 12.1 – significance of effects now provided	---
	Hydrogeology	Table E.3.6-1	CR #3 Hydrogeology Section 5.6 Table 5.6-1	---	---
	Hydrology	Table E.4.6-1	CR #4 Hydrology Section 6.4 Table 18	---	---
	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,	---	---

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Cross Reference (Concordance) Table to Location in Application					
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			4.4.1.4; Table 18		
	Fisheries / Aquatic Resources	E.6.3	CR #6 Aquatic Resources, Section 4	---	SIR #1-9 responses will be provided in Fish and Aquatic Resources Addendum in Q1 2017. Work Plan to address these information requests have been reviewed and approved by AER and DFO. Final impact ratings to be provided as part of the Addendum.
	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	---	---
	Vegetation & Wetlands	Table E.8.6-1	CR #8 Vegetation & Wetlands Section 5.1, Table 5.1-1	---	---
	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	---	---
	Land Use	Table E.10.6-1	CR #10 Land & Resource Use Section 5.2 to 5.8 Table 8.0-1	---	---
	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	SIR1 Q 12.1 – significance of effects now provided	---
	Human Health	Table E.12.4-1	CR #12 Human Health, Section 8 Table 8.0-1	SIR1 Q 12.1 – significance of effects now provided	---
	Historical Resources	Table E.13.6-1	---	SIR1 Q 12.1 – significance of effects now provided	---

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	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 #6 Aquatic Resources Section 5 CR #8 Vegetation & Wetlands, Section 5.1, Table 5.1-1 (See TEK VC) 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 (Several assessed species have traditional value)	---	---
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	---	SIR1 Q 13.1 - Risk assessments of seven reasonably potential accidents and malfunctions and their potential effects have been provided in Section C.9 SIR1 Q14 – ERP information provided in C.9.5.2.2 and C.7.6.3	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	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)	---	SIR1 Q 13.1 – see comment above	---
	This assessment will include an identification of the magnitude of an accident and/or malfunction, including the quantity, mechanism, rate, form, and characteristics of the contaminants and other materials likely to be released into the environment during the accident and/or malfunction events and would potentially result in an adverse environmental effect as defined in section 5 of CEEA 2012.	C.9.3 to C.9.9; C.9.10, Table C.9.10-1	---	SIR1 Q 13.1 – see comment above	---
	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	---	SIR1 Q 13.1 – see comment above	---
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 Climate change	SIR1 Q 15.1, 15.2 – information is provided on effects of local conditions, hazards, and climate change on the Project in C.10	SIR1 Q 36 - potential for induced seismicity that could possibly result from fracking in the Project's vicinity. Information will be provided under separate cover.
	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	---	---	---

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		(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)			
6.6.3	Cumulative Effects Assessment				
	<p>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>.</p> <p>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:</p> <ul style="list-style-type: none"> - 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. <p>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 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.</p>			SIR1 Q 16.1 – cumulative effects project inclusion information provided in Section D Table 2.4-2	---
	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	SIR1 Q 16.1, 16.2 – cumulative effects information is provided	---
	✓ fish and fish habitat, including westslope cutthroat trout, mountain whitefish, as well as other valued fish species;	E.6.4	CR #6 Aquatic Resources Section 5.0	SIR1 Q 16.1, 16.2 – cumulative effects information will be provided in Fish and Aquatic Resources Addendum in Q1 2017.	---
	✓ migratory birds (including habitat loss and contaminant exposure);	E.9.4 Olive-sided flycatcher	CR #9 Wildlife Section 6.3.1 Olive-sided flycatcher	SIR1 Q 16.1, 16.2 – cumulative effects information provided	---
	✓ species at risk; and	E.9.4	CR #9 Wildlife, Section 6.3.1, Table	SIR1 Q 16.1, 16.2 –	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEAA Conformity SIRs	CEAA Technical SIRs
		Olive-sided flycatcher, little brown myotis and grizzly bear	6.4-1	cumulative effects information provided	
	✓ 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 Cumulative effects assessments for Aboriginal groups 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 American marten, Canada lynx, grizzly bear CR #10 Land Use Table 3.2-1 CR #12 Human Health Section 4.1, 4.2	SIR1 Q 16.1, 16.2 – cumulative effects information provided	---
	Hydrogeology	E.3.4	CR #3 Hydrogeology, Section 6	SIR1 Q 16.1, 16.2 – cumulative effects information provided	---
	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	SIR1 Q 16.1, 16.2 – cumulative effects information provided	---
	Land Use	E.10.4	CR #10 Land & Resource Use Section 3.2	SIR1 Q 16.1, 16.2 – cumulative effects information provided	---
	Socio-economic	---	CR #11 Socio-economics, Sections	SIR1 Q 16.1, 16.2 –	---

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			2.1.1, 2.1.2 Key issues for identifying VCs; list of VCs	cumulative effects information provided	
	- 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	---	---	---
	✓ surface water quality in the Crowsnest River, Gold Creek, Blairmore Creek, and associated tributaries;	---	CR #5 Water Quality, Section 2.3, 2.4	SIR1 Q 16.1, 16.2 – cumulative effects information provided	---
	✓ fish and fish habitat;	---	CR #6 Aquatic Resources Section 2, 5	SIR1 Q 16.1, 16.2 – cumulative effects information will be provided in Fish and Aquatic Resources Addendum in Q1 2017.	---
	✓ migratory birds;	E.9.9.4	CR #9 Wildlife Section 3.2.1.2, 3.2.1.3	SIR1 Q 16.1, 16.2 – information provided	---
	✓ species at risk; and	E.9.9.4	CR #9 Wildlife Section 3.2.1.2, 3.2.1.3	SIR1 Q 16.1, 16.2 – information provided	---
	✓ 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 #6 Aquatic Resources Section 2, 5 CR #8 Vegetation & Wetlands	SIR1 Q 16.1, 16.2 – information provided	---

Table 2A 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					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
			Section 2.4.1 CR #9 Wildlife Section 3.2.1.2, 3.2.1.3 American marten, Canada lynx, grizzly bear CR #10 Land Use Section 3.1 CR #12 Human Health, Section 4.3, 4.4		
	Hydrogeology	---	CR #3 Hydrogeology Section 2.4, 6.0	SIR1 Q 16.1, 16.2 – information provided	---
	Soils and terrain	E.7.1, E.7.4	CR #7 Soils & Terrain, Section 2.1.2, 6.1	SIR1 Q 16.1, 16.2 – information provided	---
	Land Use	E.10.1	CR #10 Land & Resource Use, Section 3.1, 3.3, 7.0	SIR1 Q 16.1, 16.2 – information provided	---
	Socio-economics	E.11.1	CR #11 Socio-economics, Section 2.4	SIR1 Q 16.1, 16.2 – information provided	---
	– 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 CEEA 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	---	---
	✓ fish and fish habitat;	E.6.4	CR #6, Section 5	---	---
	✓ migratory birds;	---	CR #9 Wildlife, Section 6.1, Table 6.2-1	---	---
	✓ species at risk; and	---	CR #9 Wildlife, Section 6.1, Table 6.2-1	---	---
	✓ Aboriginal peoples;	E.1.4 Air Quality	CR #1a Air Quality, Section 2.1.1	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
		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 #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		
	Hydrogeology	---	CR #3 Hydrogeology Section 6	---	---
	Soils and terrain	E.7.4	CR #7 Soils & Terrain, Section 6.1	---	---
	Land Use	E.10.4	CR #10 Land & Resource Use, Section 7.0	---	---
	Socio-economics	E.11.4	CR #11 Socio-economics, Section 2.3	---	---
	- 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 Same as for Application Case	---	---
	✓ fish and fish habitat;	E.6.3.1.1	CR#6, Section 6	---	---
	✓ migratory birds;	E.9.5.1	CR #9 Wildlife, Section 7	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	✓ species at risk; and	E.6.3.1.1 E.8.5.1 Vegetation & Wetlands E.9.5.1 Wildlife	CR #6, Section 6 CR #8 Vegetation & Wetlands, Section 4.2.6 CR #9 Wildlife, Section 7	---	---
	✓ 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	---	---
	Hydrogeology	---	CR #3 Hydrogeology Section 5.3.3, 5.4.3, 5.5.3	---	---
	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	---	---
	Land Use	E.10.5	CR #10 Land & Resource Use Section 6.0	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	Socio-economics	E.11.5	CR #11 Socio-economic, Section 1.2, 5.4, 6.4, 7.4, 8.4, 9.4, 10.4	---	---
	- 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	---	---
	✓ fish and fish habitat;	E.6.5	CR#6 Aquatic Resources Section 5	---	SIR #1-9 responses will be provided in Fish and Aquatic Resources Addendum in Q1 2017. Work Plan to address these information requests have been reviewed and approved by AER and DFO. Final impact ratings to be provided as part of the Addendum.
	✓ migratory birds;	E.9.4, Table E.9.4-1	CR #9 Wildlife Section 6.3.2, 6.4 Table 6.4-1	---	---
	✓ 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 #6 Aquatic Resources Section 5.0 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	---	SIR #1-9 responses will be provided in Fish and Aquatic Resources Addendum in Q1 2017. Work Plan to address these information requests have been reviewed and approved by AER and DFO. Final impact ratings to be provided as part of the Addendum.

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEEA Conformity SIRs	CEEA Technical SIRs
	✓ 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 Risk assessment results for Application Case; Summary of effects.	---	---
	Hydrogeology	---	CR #3 Hydrogeology Section 6, 5.5-1	---	---
	Soils and terrain	E.7.6; Table E.7.6-1	CR #7 Soils & Terrain, Table 7.5-1	---	---
	Land Use	E.10.6, Table E.10.6-1	CR #10 Land & Resource Use Section 8.0, Table 8.0-1	---	---
	Socio-economics	E.11.6	CR #11 Socio-economic, Sections 5.3.1.3, 6.3.3, 8.3.3, 10.3.3	---	---
	- 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	---	---
	✓ fish and fish habitat;	E.6.3.1.1	CR#6 Aquatic Resources Section 6.0	---	---
	✓ migratory birds;	A.11.9.3 E.9.5	CR #9 Wildlife Section 7.2 Preliminary wildlife monitoring program	---	---

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Guideline No.	Guideline Description	Section	Consultant Report	CEAA Conformity SIRs	CEAA Technical SIRs
	✓ 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#6 Aquatic Resources Section 6.0 Westslope cutthroat trout CR #8 Vegetation & Wetlands Section 4.2.6 Mitigation and monitoring for whitebark pine and limber pine CR #9 Wildlife Section 7.2 Preliminary wildlife monitoring program	---	---
	✓ 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 Preliminary wildlife monitoring program	---	---
	Hydrogeology	A.11.3.3 E.3.5.2	CR#3 Hydrogeology Section 7.1	---	---
	Soils and terrain	A.11.7.3 E.7.5.2	CR #7 Soils & Terrain, Sections 7.1.3, 7.2.3, 7.3.3, 7.4.3	---	---

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Cross Reference (Concordance) Table to Location in Application					
Guideline No.	Guideline Description	Section	Consultant Report	CEAA Conformity SIRs	CEAA Technical SIRs
		Section F C&R Plan, F.3.8.3 Monitoring Focus			
	Land Use	A.11.10.3 E.10.5	CR#10 Land & Resource Use Section 6.0	---	---
	Socio-economics	A.11.11.3 E.11.5	CR#11 Socio-economic Section 7.4, 9.4	---	---
	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 CR #9 Wildlife Section 3.2.3 CR #10 Land & Resource Use Section 3.2	SIR1 Q 4.1 and Q 5 – VC selection information has been provided	---
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	---	SIR1 Q 17.1 and 17.2 – information included in Appendix 2B, 2C, 2D SIR1 Q 18.3 – information provided in Appendix 2D	---
8	FOLLOW-UP AND MONITORING PROGRAMS				

