Guidelines	NIRB Guideline Section Title	Guideline Direction	NIRB Conformity Review Decision
Section No.	Purpose		Υ
1.1	NIRB Review		Y
			Y
2.0	Project Definition		
3.0	Overview		Υ
			N - Provide the following missing plans:
			Human Resource Plan (4.24.3.1), Public Involvment
		The proponent shall provide an EIS that is complete,	Plan (4.24.3.4) and Monitoring and Follow Up Plan (4.26.1). Provide an index for DEIS
		including scientific works and the Proponents sector	Part 2 Appendix B.
3.1	Presentation of EIS	studies, and all other sources of information including traditional knowledge	
		All scientific and sectoral studies shall be rendered current and shall be numbered and dated prior to their submission	Υ
		for examination	'
		Maps, other than those used for orientation and context, shall be contained in a separate volume.	Y - provide Maps in a separate volume.
		The EIS shall, wherever necessary for a full understanding, be supplemented by a series of complementary documents	Y
		providing technical and scientific support and containing appropriate bibliographic references	
		The Proponent shall prepare and incorporate in the EIS a	
		complete and detailed annotated bibliography of all studies and reports, including community consultations, carried out	Y
		in relation to the Project, and shall make such studies and	
		reports available.  The EIS shall be made available both electronically, if	V
		possible on searchable CD-ROM, and in hard copy.	Υ
		The Proponent is expected to observe the intent of the Guidelines, which will then lead to the preparation of a draft	
		EIS. Specific issues or directions described in the	Υ
3.2	Conformity	Guidelines must be easily identifiable in the draft EIS and incorporated into the final EIS.	
		The Guidelines for Environmental Impact Statements (NIRB,	
		1997b, Appendix F) do not permit the Proponent's EIS to	Y
3.3	Length	exceed 150 pages without the permission of the NIRB.	
3.4	Format	The EIS shall be double-spaced, and its sections numbered.	Y
		Subject to any other instructions given by NIRB, the following format shall be adopted, based on NIRB (1997a)	L.
		and adapted as much as possible to the specific circumstances of the Meadowbank Project:	Y
		•Title page	V
			I .
		•Executive summary	Y
		Executive summary     Popular summary     Table of contents, including list of tables, list of figures, list	Y Y Y
		Executive summary     Popular summary	Y Y Y
		Executive summary     Popular summary     Table of contents, including list of tables, list of figures, list	Y Y - Provide a corrected Concordance table
		Executive summary     Popular summary     Table of contents, including list of tables, list of figures, list of maps, list of acronyms	Y
		Executive summary     Popular summary     Table of contents, including list of tables, list of figures, list	Y Y - Provide a corrected Concordance table
		Executive summary     Popular summary     Table of contents, including list of tables, list of figures, list of maps, list of acronyms      Concordance table     The proponent     Sustainable development and precautionary principle	Y Y - Provide a corrected Concordance table that references supporting documentation. Y Y
		Executive summary     Popular summary     Table of contents, including list of tables, list of figures, list of maps, list of acronyms      Concordance table     The proponent     Sustainable development and precautionary principle     Baseline data collection     Traditional knowledge	Y Y - Provide a corrected Concordance table
		Executive summary     Popular summary     Table of contents, including list of tables, list of figures, list of maps, list of acronyms      Concordance table     The proponent     Sustainable development and precautionary principle     Baseline data collection	Y Y - Provide a corrected Concordance table that references supporting documentation. Y Y
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NIRB Guidelines Section No.	NIRB Guideline Section Title	Guideline Direction	NIRB Conformity Review Decision
		Glossary     Literature cited	Y Y
		Appendices     The Proponent shall provide charts, diagrams, aerial and	Y
3.5	Data Presentation	other photographs and maps wherever useful to clarify the text	Υ
		Where feasible, maps shall be of a common scale and projection to facilitate comparisons	Υ
3.6	Summaries	The Proponent shall prepare an Executive Summary that	Y
		describes the key Project elements and key findings of the EIS, with particular reference to the overall conclusions of	Y
		the assessment and a clear rationale relating those conclusions to the predicted impacts and the measures	
3.6.1	Executive Summary	proposed to address them  The Executive Summary shall focus on items of known or	
		expected public concern and shall focus on the significant potential impacts of the Project and the methods proposed	Υ
		to address them. It shall also address outstanding issues and the strategies	
		proposed to address them. The Executive Summary shall form part of the EIS, but it shall also be made available as a	Υ
		separate document. The Popular Summary shall have the same general	
		structure and objectives as the Executive Summary, but it shall be written in non-technical language and shall include	Υ
		such things as glossary and additional explanatory text to assist non-specialists in appreciating the content of the EIS	
3.6.2	Popular Summary	as a whole	
		The Proponent shall consider presenting the Popular Summary in hard copy and, if possible, in the form of a	Υ
		video. The Popular Summary shall form part of the EIS, but it shall also be made available as a separate document.	
		The Popular Summary shall be translated into the local languages and dialects prevalent in the Kivalliq Region.	
		Maps should indicate common and accepted place-names usually referred to by the local populations in their own	Y
3.7	Translation	language, in addition to their official toponyms.	
4.0	Substantive Directives		
		The Proponent shall identify itself and shall explain current and proposed ownership of rights and interests in the	Υ
4.1	The Proponent	Project, operational arrangements, and corporate and management structures.	
		It shall specify the mechanisms used to ensure that corporate policies are respected.	Y - Provide a discussion of mechanisms to ensure that policies are respected.
		osipoida ponose di respected.	
		It shall present its environmental policy and that of any parent company and shall specify whether and how it	Υ
		applies to all businesses for which it has an operating responsibility, to employees, to contractors, and to suppliers.	
		It shall also describe its reporting systems.	Y
		The Proponent shall describe its past experience in exploration or mining with particular reference to:	Υ
		•Its record of compliance with governmental policies and regulations pertaining to environmental and socio-economic	v
		issues  •Mine safety, major accidents, and spills and emergencies,	
		including responses  Its record in honouring commitments on environmental and	Y
		socio-economic matters in the event of planned or premature mine closure, whether temporary or permanent,	Y
		or change of ownership  Relations with Aboriginal peoples, including prior	
		experience with Impact and Benefits Agreements if appropriate	Υ
			Y
		Operations in Arctic and Sub-arctic regions     Its record in incorporating environmental and socio-	
		economic considerations into construction, operations, temporary closure, final closure, and postclosure	Υ
		Corrective actions undertaken in the past, distinguishing between those taken voluntarily and those taken at the	N
		insistence of a third party	
		•The provision of security to ensure payment of compensation in the event of accidents.	N
		The Proponent shall identify and describe any obligations or requirements that it must meet to post a bond or other form	
		of financial security to ensure payment of compensation in the event of accidents that directly or indirectly result in	N
		major damage by the Project to the environment, as well as to cover the cost of planned or premature closure, whether	
		temporary or permanent.  If the Proponent does not have prior experience in	
		exploration or mining, particularly for this region, it shall	Υ
		explain the safeguards that it intends to put in place to compensate for that lack.	

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4.2	Sustainable Development and Precautionary Principle	The Proponent shall explain how the Project will be made compatible with:  The preservation of ecosystem integrity and the	
		maintenance of biological diversity for Nunavut and the Project region	Υ
		Respect for the right of future generations to the sustainable use of Nunavut's resources     The attainment of durable social and economic benefits in	
		the Kivalliq Region •The well-being of the residents of Canada outside the	Y
		Nunavut Settlement Area  The Proponent shall discuss the precautionary principle; namely that, where there are threats of serious or irreparable damage, a lack of scientific certainty shall not be invoked as a reason for not implementing measures to prevent environmental degradation. In particular, it shall illustrate how that principle was applied to Project design and management, and how it would be applied during the construction, operation, temporary closure, final closure, and post-closure phases. Claims must be fully documented, and undertakings must be sufficiently specific to be verifiable. If possible, the Proponent shall demonstrate how the Project relates to any international commitments that Canada has made respecting sustainable development and the	Y
4.3	Baseline Data Collection	precautionary principle.  The EIS shall use an ecosystem-based approach, meaning that it shall describe the ecological function of each ecosystem component and shall indicate the ecological pathways of the impacts that it predicts.	Y
		The Proponent shall present baseline data, including Traditional Knowledge about the existing biophysical and socio-economic environments, including changes in baseline conditions due to exploration activities related to the Project. The EIS shall explain methodologies for baseline data collection, evaluate the adequacy and confidence levels of the baseline data, identify all significant gaps in knowledge and understanding and the associated uncertainties, and identify the steps to be taken to fill such gaps. Where technical, scientific, or Traditional Knowledge debate continues with respect to key issues, the Proponent shall provide a balanced discussion of the issues and state its position.	Y- Provide evaluation of the adequacy and confidence levels of the baseline data
		The Proponent shall strive to give sufficient time depth to baseline data, in order to permit the identification of natural fluctuations, trends and cyclical and other recurrent phenomena. Some species populations fluctuate in abundance every 3 to 4 years, for other populations longer	Y
		It shall also strive to evaluate the degree to which the baseline data characterize ecosystems that are relatively free of impacts and shall specify, where relevant, the sources of prior impacts where those can be identified with reasonable confidence, so as to assist in evaluating the thresholds of ecosystem components.	Y
4.4	Traditional Knowledge	Further, the Proponent shall present the likely future conditions of baseline data in the absence of the Project. The Proponent shall present and justify its definition of Traditional Knowledge in the Kivalliq Region and shall explain the methodology used to collect it, including the format and location of meetings, the types of background information provided at meetings, the level of community participation, the design of studies on Traditional Knowledge, and the selection process for participants in such studies, and shall summarize what kinds of Traditional Knowledge were collected.	Y
		The Proponent shall indicate whether special efforts were made to collect Traditional Knowledge from women. The Proponent shall discuss how it treated Traditional Knowledge in baseline data collection, impact prediction and significance assessment, and the development of mitigation and monitoring programmes.	Y
		It shall explain how it integrated Traditional Knowledge and western-based science, including the manner in which it reconciled any apparent discrepancies between the two Any assumptions shall be identified and justified Further, the Proponent shall describe any other past or current Traditional Knowledge studies in which it has participated or played a supporting role. The Proponent shall describe a program to pursue the collection of Traditional Knowledge and to integrate it into ongoing baseline data collection, mitigation, and monitoring programmes, and shall describe the roles and responsibilities of all concerned individuals and organizations in collecting, analyzing, interpreting, and synthesizing data, including Traditional Knowledge	Y Y - Provide detail on plans to pursue the collection and integration of Traditional Knowledge into phases of the project.

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		The Proponent shall also discuss procedures for community-based monitoring of social, cultural, and ecological conditions in order to determine if, when, and how mining can contribute to community sustainability (Wismer, 1996).	Y
4.5	Public Consultation	Public consultation is required when:	
		identifying current and historical patterns of land- and resource-use	
		identifying Valued Ecosystem Components ("VECs") and Valued Socio-Economic Components ("VSECs")	Y N
		•determining criteria for evaluating the significance of potential impacts	
			Y- Provide clarification on how public consultation was used to determine mitigation measures.
		deciding upon mitigating measures     formulating compensation packages	Y - Provide clarification on how public
		•identifying and implementing monitoring measures, including post-project audits	consultation was used to determine monitoring activities.
		The Proponent shall explain where, how, why, and with whom it conducted public consultation, documenting its efforts to inform participants how the information that they supplied was or will be used. It shall demonstrate an understanding of the rights, interests, values, aspirations, and concerns of the potentially affected communities, with particular reference to those emanating from the NLCA, and an ability to recognize and respect them in planning and executing the Project.  Moreover, the Proponent shall explain the results of the consultation process, how the consultation process has influenced its decisions, and how it intends to address the unresolved concerns expressed.	Y
_		The Proponent shall describe the communications programme that will be implemented if the Project is approved, with particular reference to initiatives to communicate changes to information, plans, or strategies. It shall also discuss how the public, particularly the residents of the Kivalliq Region, could contribute to Project implementation, including the design of management and monitoring strategies.	Y
4.6	Regional Context	The Proponent shall describe in general terms the regional biophysical and socio-economic environments of the Central Kivalliq Region and Nunavut as a whole, including:	Y
		•ecological land classifications	Y
			Y
		ecological processes and relationships     the status of ongoing land claims discussions in the southern part of the Central Kivalliq Region	N
		•the location of other precious metal finds and other existing and potential developments	N Y
		•current and future land-use plans The proponent should follow current directions or guidelines from the NPC, especially the Keewatin Regional Land-Use plan.	Y

NIRB Guidelines Section No.	NIRB Guideline Section Title	Guideline Direction	NIRB Conformity Review Decision
4.7	Regulatory Regime	The Proponent shall present its understanding of the regulatory regime in which it would be operating by identifying all relevant federal, territorial, and local environmental and socio economic standards, laws, regulations, policies, and fiscal regimes relating to Project approval, construction, operations, monitoring, and closure, such as the NLCA, the Mine Site Reclamation Policy for Nunavut (DIAND), and the Metal Mining Effluent Regulations (Environment Canada), among others.	Y - Provide discussion on relevant regulations guidelines and policies and how they relate to the project. In particular the MMER with respect to tailings impoundment area, the proposed new Wildlife Act, GN regulations and various guidelines, INAC's Reclamation Policy.
	V / V	It shall further explain how such requirements would be met and what specific governmental permits and approvals would be required.	Y
		A list of currently held permits and licences, including dates of issue and expiry, should be appended.	Y-Address currently held water licences, land use permits and other authorizations currently in place including dates of issue and expiry
		The Proponent shall also identify relevant self-international regulatory regimes, such as the International Cyanide Management Code for the Gold Mining Industry developed by the United Nations Environment Programme and the International Council on Mining and Metals, and explain how it would comply with them.	Υ
4.8	Land Tenure	The Proponent shall delineate on a map of suitable scale the legal boundaries of any areas to which it will acquire rights through lease or other tenure arrangements.  It shall further describe those areas by providing such information as file numbers, start and end dates, fees, name of right holder, renewals, etc.	Y - provide map showing land tenure for site access and for Baker Lake storage and marshalling area.  Y- provide information for site access and Baker Lake storage and marshalling area.
4.9	Project Justification	The Proponent shall state the purpose of the Project and	
4.9.1 4.9.2	Project Purpose and Rationale  Project Need	shall explain the rationale for undertaking it.  The Proponent shall justify the need for the Project in terms of the economy of Nunavut and of the Kivalliq Region in particular, its economic viability and potential.	Y
		It shall submit any feasibility studies and supporting documentation. The Proponent shall also demonstrate that financing has been secured for all Project phases, including reclamation and security.	N
4.10 4.10.1	Project Description  Project Components and Activities	The Proponent shall describe Project components and activities, distinguishing where appropriate between the exploration, construction, operations, and closure phases, including where appropriate:	Y - Provide a description of any changes to project components and activities resulting from project design changes identified in Cumberland's letter dated March 8, 2005 regarding Feasibility Study Results on the Meadowbank Gold Project. DEIS Section 4.10.1 says there are five deposits, but only names four.
		•Exploratory work	
		Mineral resources (geology, geochemistry, drilling, and bulk sampling)	Y
		Site preparation and clearing, and site plan Earth works  Blasting, including a description of the types and quantities	Y Y
		Roads and airfields Work force requirements, including training required to maximize employment of Nunavummiut  Air, marine, and land transportation of workers and materials, with estimates of traffic types and frequencies  Use, transportation, handling, and storage of fuel, hazardous materials, concrete, and aggregates	Y - Provide information on all-weather road  N Y - Provide final decision for overland transport. Provide details on marine traffic. Provide details of traffic types and frequencies.  Y
		and aggregation	Υ
		•Housing	

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		•Water supply and sewage- and waste- handling/treatment/disposal facilities	Υ
		•Water retention dykes and natural drainage diversions	Y
			Y
		Water diversions, intakes, and outlets     Power generation and transmission facilities	Y
		•Off-site facilities related to expediting, transport, and storage of materials, including waste, and fixed housing and transport facilities	Y
		•Pits and quarries, including ore-removal methods	Y
		Mining methods	Y - Provide information on changes to
		Processing operations	processing operations.  N - Figure 2-4 does not show the location of
		<ul> <li>Stockpiling of ore and acid rock drainage</li> </ul>	the ore stockpile as referenced on page 54 of Part 1 DEIS. Address ARD potential of ore stockpile.
		Stockpiling of overburden and waste rock and acid rock drainage	Y
		■Tailings/processed ore handling/treatment/disposal  ■ Tailings/processed ore handling/treatment/disposal  ■ Tailings/processed ore handling/treatment/disposal	Y
		Effluents and emissions     Marine and ocean-going activity, including marine shipping	Y
		plans	
		•Site rehabilitation	Y
			Υ
		Project life expectancy The Proponent shall give a rationale for the selection of Project components and activities, with specific consideration given to industry best practices	Y
4.10.1.1	Geology / Mineralogy of the Ore Deposit and Mining Methods	The Proponent shall specifically address the following in describing Project components and activities:	
		The Proponent shall characterize the ore from the Meadowbank sites, including where appropriate:	
		Location, including detailed maps of the mine area     Resource assumptions	Y
			Y - Provide more detail on ore mineralogy
		*Mineralogy     *The type of deposit and associated bedrock (including faulting or fracturing)	Y
		•Identification of the ore deposit material, dimensions, and location	Υ
		•The lithologies and mineral associations found in the region	Υ
		•The average extraction rate and the amount of ore to be processed daily and the expected amount of ore to be extracted each year	Y - Provide average extraction rate, and the the expected amount of ore to be extracted each year.
		A mine management plan indicating the sequence of development of the open pits and underground mine	Y - Provide a mine management plan

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			Y
		The proposed characteristics of the mine shall be described, bearing in mind the need to control hazards, such as rockfalls.	
4.10.1.2	Ore Recovery Plant, Extraction and Concentration	Many of the foregoing can be described in the context of a mine management plan  The Proponent shall describe  The proposed recovery plant, including processing capacity	Y - Provide a mine management plan
		The location of the recovery plant and the site-selection criteria, the differing processing stages, and the different compounds emitted to the environment during ore processing, and the related quantities, concentrations, and dispersion paths after emission	Y - Provide discussion on the different compounds emitted to the environment during ore processing, the related quantities, concentrations, and dispersion pathways.
4.10.3	Processed Ore Containment (and Tailings Ponds)	•The location of the ore storage pads and plans to control and, if necessary, treat water run-off and seepage.  Bearing in mind the final paragraph of Subsection 4.16, the Proponent shall	Y - Provide location of the ore storage pads
		Describe the processed ore containment management plan, including a comprehensive description of the proposed process, structures, and operations. The Proponent shall include a contingency plan in the event that discharges from the containment area do not meet licensing criteria	Y N
		Describe all aspects of the processed ore composition, including the size and quantities of fines and their predicted settling characteristics, and anticipated water quality, providing data on the quantity and quality of material to be disposed of, and describing conservation and recycling options	Y - Provide more detail in tailings characterization.
		Present a chemical stability analysis  Discuss how geotechnical factors, including permafrost, clay slippage and pooling, the seasonal seepage conditions of sand, and water and ice in pores, were considered in the design and selection of the structures to contain the processed ore. It shall also discuss the stability of the structures, including, if applicable, the question of talik zones	N N
		*Describe methods of controlling and monitoring groundwater seepage from the processed ore and other containment area, and the capacity to cope with storms, floods, and other intermittent natural events, using a return period that is adequately conservative (e.g., 1/100 years), including a review of similar operations elsewhere, applicable modelling information, and the results of research on the long-term thermal stability of the underlying permafrost and frozen materials.	N
4.10.1.4	Overburden and Waste Rock Disposal	The Proponent shall:  •Provide a plan for overburden and waste rock handling, including the design and location of the storage sites, describing the options for each. The Proponent shall include a review of similar operations elsewhere, applicable modelling information, and the results of research on the long term thermal stability of the underlying permafrost and frozen materials;	Y - Table 4.7 : Decision Matrix for waste rock storage option is missing.
		*Describe the physical and chemical stability of the types of materials to be stored and those to be used for containment construction with regard to the long-term acid-generation potential of the waste rock, bearing in mind the latest monitoring results from mines near by or at least in the same general region, and present a water management plan. It shall also explain the relationship between the timing of acid generation and permafrost encapsulation and cold temperatures, where possible in reference to the region in which the Project will take place;	nearby or in the same general region to validate long term acid generating potential predictions. Explain the relationship between the timing of acid generation and
		Describe and assess the physical and chemical characteristics of seepage and runoff from the waste rock piles, and describe appropriate control measures. The potential for "rock glacier" phenomena;     Describe in qualitative and quantitative terms the chemistry of frozen groundwater from joints and fractures in the waste rock disposal area.	Y N

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4.10.1.5	Water Supply and Management	Bearing in mind the trend described in the final paragraph of Subsection 4.16, the Proponent shall:	
		•Present a water balance and provide a water management plan for the mine, processing facilities, stockpile and containment areas, and infrastructure. The water supply source, on-site use, storage, final discharge to the environment, alteration of drainage patterns, water treatment (including water containing nitrate residues from explosives), diversions, and water conservation and recycling measures shall be addressed:	Υ
		Water balance estimates for the water supply source;	Y
		•Include estimates of mine water volumes and potential uses of the mine water;	Y
		Address the issue of discharge or seepage of water;	Υ
		•Methods used to calculate the above volumes;	Υ
		Describe the facilities for washing bulk trucks and other equipment, as well as any treatment of water used for washing vehicles/equipment; and	N
		Describe how melt water, particularly with high metal content, and hydrocarbons will be managed.	N
4.10.1.6	Mine De-watering	If applicable, the Proponent shall provide:	
		•Information about de-watering methods, specifying the volumes to be pumped, the areas that may be affected, the quantities of bottom sediment requiring disposal, and the disposal methods;	Y
		aFish colvege programs:	Υ
		Fish salvage programs;     Mine inflow volumes and quality, considering seepage into the pits, pit water quality, as well as seepage from retention dykes.	Y - Provide mine inflow water quality to open pits.

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4.10.1.7	All Weater Roads and Winter Roads	The Proponent shall describe, where useful with the assistance of maps and drawings:	
		How the selected route(s) correspond to the needs of other developers and of the Nunavummiut;	
		Proposed construction of all-weather road, including laydown aeas, on-site and off-site roads, alternative routes, with particular reference to stream crossings; The quantities and types of materials required for construction and maintenance;	N - Update required.
		Construction and maintenance methods for all site roads, frequency of use, road width, and dust-suppression methods; The types and numbers of vehicles to be used to transport materials and ore along the all weather access routes, including the total number of trips expected daily and seasonally;	
		Accident/incident reporting;  Accident/incident reporting;	
		Wildlife impact mitigation procedures and/or structures;     Site reclamation.	
44040	Africant Facilities	The Bosses of the Holes of the	
4.10.1.8	Airport Facilities	The Proponent shall describe:  •Airport facilities at the mine site. The duration, frequency, and extent of use of airport facilities and volumes of goods and passengers shall be estimated;	Y - Verify length of airstrip. Provide frquency of use.
		•The airport and infrastructure characteristics, service roads, fuel storage, deicing and containment systems, methods of dust suppression, drinking and waste water disposal systems, and solid waste management plans;	Y- Provide deicing and containment system.
		Construction methods;	Y- Provide quantities and sources of material for construction and maintenance
4.10.1.9	Fuel and Explosives Storage Sites	Accident/incident response reporting.  The Proponent shall describe:	Y
		•The location and characteristics of fuel and explosives storage infrastructure and systems, as well as the explosives factory;	Υ
		•Handling and containment methods;	Y
		•The quantities of fuel, explosives, and other similar materials required;	Y - Provide quantities of explosives to be stored.
		Accident/incident response reporting;	Y
		•Spill response training;	Y
		Location of spill kits on the site.	Y
4.10.1.10	Borrow Pits and Quarry Sites	The Proponent shall:	
		Describe and map at a scale of 1:5,000 all sites that are to be used for borrow pits or quarries, including a description and explanation of sites that were studied but rejected;     Estimate the quantities that will be extracted from quarry sites;	N - Update required.
		Describe access routes to those sites;     Present quarry management plans that describe proposed operations, methods of handling massive ice, and plans to manage water released by the thawing of permafrost and ground ice.	
4.10.1.11	Waste (Domestic and Hazardous) Management	The Proponent shall describe:  •Plans for sewage treatment and disposal, including the technology to be employed, the location of the facility and any point of discharge, and the volumes and chemical composition of the effluent;	N - Provide volumes and chemical composition of the effluent. Provide the location of the treatment system.
		•Plans for the handling, storage, treatment, and disposal of solid wastes and sewage sludge;	N - Provide information on landfill and solid wastes including sewage sludge

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		•The hazardous waste management plan, including a description of the types and volumes of hazardous wastes to be used or produced by all Project activities. Storage and disposal methods and destinations for each type of hazardous waste, including disposal of containers used to transport or store hazardous materials, shall be described;	Y
			Y
		Accident/incident response reporting;     Spill response training;	Υ
4.10.1.12	Power	Location of spill kits on the site.  The Proponent shall describe:	Y
		Any studies into sources of power other than diesel generators that it conducted; The location of the power house in relation to prevailing winds and other infrastructure; Utility corridors, including transmission lines;	Y N - Show on map Y
		All diesel power generation facilities, including sources, volumes and transportation of fuel, transfer points, and equipment and facilities for emergency clean-up;	Y
		The energy balance for the proposed Project, including strategies for optimization and conservation; and The anticipated types and quantities of emissions to the atmosphere.	N - Update based on potential increase of energy requirements Y
4.10.2	Project Design	The Proponent shall explain how the physical environment influenced Project design, and how design, engineering, and management plans are consistent with ecosystem function and integrity, bearing in mind the possibility of long-term climatic change.	Y
4.10.3	Pace, Scale and Timing of Project	The Proponent shall give a rationale for the pace, scale, and timing of the Project, including consideration of technical, marketing, and economic factors,	Y
		The Proponent shall specify how many tones of ore would be processed each day, The Proponent shall specify which factors would be considered in deciding whether to develop other ore bodies (e.g., respect of regulations, approval by affected communities of management and reclamation plans, compliance with conditions of Impact and Benefits Agreements ("IBAs")).	N - Update required
4.10.4	Future Development	Notwithstanding the currently planned short life-cycle of the mine, the Proponent shall evaluate, indicating the associated level of uncertainty, the potential for exploration and development of additional ores at the Project site and shall consider the associated impacts.  Among other things, the Proponent shall specify the additional quantities of ore that might be mined and any foreseeable expansions of the Project infrastructure.	Y
		The Proponent shall also consider whether proceeding with the Project, including the associated access infrastructure, might stimulate other development projects, either exploration/mining or other, in the region.	Y
4.10.5	Technology	The Proponent shall describe the state-of-the-art of proposed technologies and shall evaluate the reliability of each.  It shall also discuss programmes to monitor developments	Y
		in technology in such areas as:  •tailings management  •closure  •reclamation and beneficial landscaping of Arctic landscapes  •emissions-control	N - Discuss how developments in technology will be monitored.
		ore processing     dams/containment structures     permafrost management     environmental monitoring     community development	ieu iilology wiii be Horiitored.
4.11	Alternatives	The Proponent shall describe alternatives to the Project, including the "No-go" or no-project alternative  The Proponent shall describe alternatives to the Project, including other locations within the Kivalliq Region or Nunavut, if any, where the Proponent could conduct the	Y
		types of activities proposed.  It shall also consider alternative ways of carrying out the Project (i.e., alternatives to Project components or activities, including different locations or timings for such activities or components, that might have differing environmental or socioeconomic effects).	Y
		In each case, the Proponent shall give the reasons for selecting the preferred alternative and for rejecting the others, including economic and technical analyses of each alternative and the associated biophysical, social, economic, and cultural impacts.	Υ
		The Proponent shall present the preferences of those consulted respecting alternatives to the Project including the "no-go" alternative.	N

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4.12	Description of Physical Environment	The Proponent shall describe the components of the physical environment and the processes affecting them, as they exist without the Project so as to justify its selection of VECs and to serve as a baseline against which the potential impacts of the Project can be measured. Such components and processes shall include:	
			Y
		Bedrock lithology, morphology, and structures;	Y
		Geomorphology and soils (including eskers);     Permafrost (including areas of discontinuous permafrost, high ice-content soils, ice lenses, thaw-sensitive slopes, talik zones, and stream banks);	Y
		Evidence of potential for ground and rock instability (e.g., slumping, landslides, and potential slippage planes);     Hydrology/limnology (e.g., lakes and streams, lake sediment geochemistry, watershed boundaries, surface water flow, groundwater movement and aquifer recharge zones, flood zones, ice formation and melt patterns);	Y
			Y
			Y
		Sediment and soil quality and quantity;     Air quality and noise levels;	Y
		Sites of palaeontological or palaeobotonical significance;	Y
		Current climatic conditions and foreseeable future trends, bearing in mind the final paragraph of Subsection 4.16; and Any other issues identified through public consultation.	Y
4.40		The Proponent shall describe the components of the biological environment and the processes affecting them, as they exist without the Project so as to justify the selection of VECs and to serve as a baseline against which the potential	
4.13 4.13.1	Description of Biological Environment Vegetation	impacts of the Project can be measured.  The description of vegetation communities, including wetlands, shall include:	Υ
4.10.1	vegetation	Ecological zones, including ecozones, and ecoregions, or other appropriate ecological areas;	Y
		The local and regional presence of species/communities;  The health of these species/communities and their	Y N
		econtaminant loadings;  *Rare or regionally unique species or species assemblages, including species with federal, territorial, regional, or local designated status (e.g., vulnerable, threatened, endangered, extirpated, of special concern, as designated by the Committee on the Status of Endangered Wildlife in Canada ("COSEWIC") or other agencies);	Y
			Y
		Species that perform particularly significant ecological functions;     Species that are valuable for cultural reasons known to the lnuit, and     Any other issues identified through public consultation.	Y Y
		They denot located identified through public constitution.	
4.13.2	Wildlife	The Proponent shall describe:  •The local and regional presence of species populations;  •The relative trends in seasonal/annual abundance, and	Y Y
		distribution of these species populations;  •The health of these species populations and their	N
		contaminant loadings;  •The seasonal and annual trends in range or habitat use,	Y
		movements, and population status of these species;  The migratory patterns and routes of these species and the corresponding sensitive periods when the routes cross habitats affected by the Project:	Y
		Significant habitats for these species, such as eskers, calving and rearing areas, denning sites, and staging areas, and such special locations as licks, water crossings, and insect relief habitats;  Wildlife management areas or similar areas for these	Y
		species; •Habitats of any rare or regionally unique species or species with federal, territorial, regional, or local designated status (e.g., vulnerable, threatened, endangered, extirpated, of special concern);	Y

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		•Species that perform particularly significant ecological functions; and	Υ
		•Any other issues relating to these species identified through public consultation.	Υ
4.13.3	Birds	The Proponent shall describe:	
		•The local and regional occurrence of species populations; •The relative seasonal/annual abundance and distribution of	
		these species populations;  •The health of these species populations and their	
		contaminant loadings;  •The seasonal and annual trends in range or habitat use,	N
		movements, and population status of these species;	Υ
		•The migratory patterns and routes of these species and the corresponding sensitive periods when the routes cross habitats affected by the Project;	Y
		<ul> <li>Significant habitats for these species, such as breeding and nesting sites and staging areas for raptors, waterfowl, and other avifauna;</li> </ul>	Y
		•Established or proposed sanctuaries, refuges, or similar areas for these species;	Υ
		Habitats of any rare or regionally unique species or species with federal, territorial, regional, or local designated status (e.g., vulnerable, threatened, endangered, extirpated, of special concern) or cultural status;	Y
		•Species that perform particularly significant ecological functions; and	Y
		•Any other issues relating to these species identified through public consultation.	Υ
4.13.4	Fish and Other Aquatic Organisms	The Proponent shall describe:	
		Periphyton, phytoplankton, zooplankton, and fish;	Υ
		•The local and regional occurrence of species populations;	Y
		•The relative seasonal and annual trends in abundance and distribution of these species populations, and the estimated productive capacity of the water bodies;	Y
		Stream and lake bottom substrates and littoral zones, including aquatic and riparian vegetation;	Y
		Affected watercourses, including depths, widths, and maximum and minimum flows;	Y
		•The health of these species populations and their contaminant loadings;	Y
		•The migratory patterns and routes of these species, identifying preferred corridors, and the corresponding sensitive periods when the routes cross habitats affected by the Project;	Y
		<ul> <li>Habitat areas for these species, including spawning, nursery, feeding, and over-wintering areas, and any sensitive periods for each of the habitat areas;</li> </ul>	Y
			Y
		<ul> <li>Management or other protected areas for these species;</li> <li>Habitats of any rare or regionally or locally unique species or species with federal, territorial, regional, or local designated status (e.g., vulnerable, threatened, endangered, extirpated, of special concern);</li> </ul>	Y
		Species that perform particularly significant ecological functions; and	Y
		•Any other issues relating to these species identified through	Y
4.14	Description of Socio-Economic Environment	public consultation.  The Proponent shall describe the components of the socio- economic environment and the processes affecting them, as they exist without the Project so as to justify its selection of VSECs and to serve as a baseline against which the potential impacts of the Project can be measured. It shall present baseline data on a community-by-community basis on such components as:	Y
		Human health, defined broadly to include mental health and well-being;  Demographics;	Y
		Archaeological, cultural, heritage, and burial sites, as well as sites identified by Elders as being sacred or spiritual places (e.g., Aglinaqtut). Each site shall be described and	Y
			Y
		•Land and resource use, including national parks and similar areas;	

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		<ul> <li>Local and regional economy (distinguishing between the traditional and wage economies and specifying the value or the replacement value of the traditional economy in dollars and in terms of local consumption and cultural and physical wellbeing);</li> </ul>	Y
		•Employment, education, and training;	Y
		•Services and infrastructure;	Y
		•Government; and	Υ
			Y
		•Other components identified through public consultation.  The Proponent shall provide a rationale for the selection of communities for which baseline data are provided.	N
		The Proponent shall describe the interactions between the socio-economic and biophysical environments, including the roles of the land- and wage-based economies and the nature of the mixed economy of the North.	Y
		The Proponent shall identify and justify indicators, which, to the extent feasible, shall be identical or complementary to those used or being developed by the NPC. Indicators might include the following:	
		•Average income of residents; •Employment levels and participation rates in both the wage-	Y
		and land-based economies;  •Rates of high school completion;	Y
		•Housing (e.g., number of dwellings, average number of persons per dwelling, average number of persons per bedroom, percentage of units with full plumbing and heating systems);	Y
		•Teen birth rates;	Y
			Y - Provide number of childern under care of the state/ territory.
		Number of children in care;	
			Y
		Number of suicides;  Number, type, and severity of accidents;	Y
			Y
		•Life expectancy;	Y
		Types and frequencies of communicable diseases;     Social Assistance cases;	N
		Number of alcohol- and drug-related crimes;	Υ
		Number of property crimes; Number of complaints of family violence;	Y
		Types and quantities of wildlife harvested; and Seasonality and geographic distribution of harvesting activities.	Y Y
		Whenever relevant, data shall be disaggregated by age, gender, and ethnic affiliation.  The foregoing is not to suggest that the Proponent is responsible for the current socio-economic situation of the Kivalliq Region or of Nunavut, or that it is expected to resolve any problems that are identified. Nevertheless, a proper understanding of the structure and functioning of the potentially affected societies is needed in order to identify	Y
		the potential of the Project to affect them, whether positively or negatively, and to ensure that any socio-economic mitigating measures put in place by the Proponent have a reasonable likelihood of attaining their objectives. The indicators selected must be adequate to address all types of foreseeable impacts, including cumulative and residual impacts.  Spatial and temporal boundaries must be determined on the	
4.15	Spatial Boundaries	basis of the potential impacts on the particular biophysical or social phenomenon being addressed.	Y
		Ecoregions and ecozones should be considered as factors, where relevant, in determining spatial boundaries.	Υ

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		The types of data collected and the methodologies, including public consultation and discussions with technical experts, for collecting, presenting, and analyzing such data must, to the extent possible, be consistent with the General Monitoring Program of Article 12 of the NLCA.	Y
		The Proponent shall define the spatial boundaries of the maximum area potentially affected by the Project, based on the boundaries for each individual type of impact, taking into account an analysis of such impact pathways as pollutant transport and accumulation mechanisms.	Y
		Spatial boundaries may vary according to seasons and impact pathways. For example, the spatial boundaries for hydrographical studies related to tailings pond design will probably differ from those for studies on caribou migration.  The boundaries for socio-economic assessment shall be	Υ
		based on an analysis of the socio-economic effects directly and indirectly associated with the Project	N
		In all cases, priority shall be given to potential impacts within Nunavut, but the NLCA requires that potential impacts outside Nunavut shall also be considered wherever there is reason to anticipate that they might occur.	Y
		The spatial boundaries for assessing the cumulative effects on a VEC or VSEC should be set at the maximum range or distribution of the potential cumulative effects.	Y
		Like spatial boundaries, temporal boundaries may vary with, among other things, with the type of impact and with season. The establishment of temporal boundaries has two aspects: the time horizon that will be used in predicting change; and the temporal variability and periodicity that characterize the predicted impacts (Whitney and Maclaren, 1985). The time-horizon used for predicting change must be a function of the anticipated duration of the Project, including the final closure and post-closure phases, and its predicted impacts and of	Y - Provide temporal boundaries for socio- economic impacts
4.16	Temporal Boundaries	the predictive capability of the various disciplines at play.	
		The Proponent shall determine the temporal boundaries separately for the construction, operations, temporary closure, final closure, and post-closure periods.	Y
		The closure period covers decommissioning, abandonment, and reclamation. The post-closure period covers the period after the mine has been decommissioned and the site reclaimed and returned as much as possible to its natural state.	Y
		The temporal boundaries of the post-closure period may encompass many years, depending on the site and on the methods of closure. The Proponent shall give a rationale and justification for the boundaries chosen, including a description of any consultation with members of the public or technical experts.	N
		In doing so, the Proponent shall recognize that, over the past 50 years, the western Arctic has experienced a warming trend accompanied by increased annual precipitation and increases in the magnitude and frequency of extreme weather events. Some General Circulation Models predict continued warming at high latitudes over the next century. There may be no immediate danger of permafrost degradation, but the Proponent must incorporate that possibility into the design of certain Project components.	Y
4.17	Data Acquisition Methodology and Documentation	The Proponent shall specify and justify all sampling methods and statistical processes employed in both the biophysical and social contexts.	Y
		The reliability and scope of the results, the possibility of reproducing the analyses (repeatability), and quality control of laboratory analyses shall be analyzed critically.	N - Provide QA/ QC analyses for results
		All data based on environmental sampling necessarily involve some variability, which must be determined to assess the reliability and scope of the data. The Proponent shall, for all data obtained from environmental sampling, provide a dispersion or variability coefficient (variance, standard deviation, or preferably 95 % confidence interval, etc.) and indicate the size of the sample used.  Similarly, when using mathematical models, the Proponent	N - Provide as part of QA/QC analyses
		shall indicate the assumptions employed, the prototype used, the accuracy, and the inherent limits of interpretation. As noted in Subsection 4.15 every effort must be made to harmonize the types of data collected and their statistical treatment with the NPCs General Monitoring Program outlined in Article 12 of the NLCA.	Y

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4.18	Data Analysis and Reporting	Wherever the Proponent makes use of qualitative criteria to compare various design and development options, to describe the environment, or to assess impacts, each of these criteria shall be defined, their relative importance stated, and the differences between the categories (e.g., desirable, acceptable, unacceptable) indicated.  The Proponent shall justify the classification of each criterion.	Y
		The Proponent shall support all analyses, interpretations of results, and conclusions with a review of the relevant literature, providing all references required and indicating the public availability of all works consulted.	Y
		Any contribution based on Traditional Knowledge shall also be specified and sources identified, subject to any concerns relating to ownership or confidentiality.  The Proponent shall correlate its conclusions about impact	Y
		significance with any thresholds identified in relevant literature or regional policies.	Y
		The Proponent shall provide clear statements regarding the availability, relevance, and quality of the data.	N
4.19	Impact Assessment Methodology	The Proponent shall explain and justify the methods used for impact prediction, which can include mathematical or mechanical modelling, previous experience, statistical modelling (e.g., variance and correlation analyses), the analysis of sequential series, prediction of tendencies, expert opinion, and Traditional Knowledge.	Υ
0	m.puor issuement maniessegy	All studies used in the prediction of impacts must be specified, a database organized, the original authors identified, and the studies made public.	Υ
		All statements based on public consultation shall be justified, and the sources and methodology specified.	Υ
		The choice of methodologies and interpretation of results shall be justified in light of current theories, knowledge and standards.  The Proponent shall assess the direct, indirect, short-term, and long-term impacts of the Project on the biophysical and socio-economic environments, and the interactions between them, focusing on the anticipated response of the VECs and VSECs.  It shall also assess the degree of uncertainty associated with each predicted effect.  Impact significance is based on comparing the predicted state of the environment with and without the Project and expressing a judgment as to the importance of the changes identified.	Y Y Y
		Assessing the significance of potential impacts is, arguably, the single most important aspect of an Environmental Impact Statement. The determination of significance shall take into account the following attributes of each impact: magnitude; geographic extent; timing; duration; frequency; reversibility; probability of occurrence; effect on ecosystem functioning and integrity; the capacity of resources to meet present and future needs; and the value attached to the impacted VEC or VSEC by those who identified them.	Y
		Hence, the concerned communities, as well as other individuals and organizations, shall be fully consulted in defining impact significance.  The Proponent shall describe how it will ascertain the significance that different interveners assign to each impact and how it will proceed if different interveners ascribe varying significance to VECs, VSECs, or the associated impacts.	N - Clarify how this was done.
		If it is impossible to attain a consensus on the significance of certain impacts, the Proponent shall present the range of viewpoints expressed and shall present and justify its preference, if any.  The dynamic change of ecosystems and their components	N
		must also be considered in determining impact significance. Changes in ecosystems can be cyclical, gradual, or the result of disasters; they can be local, regional, universal, anticipated, or unexpected.	Y

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		The significance of an effect on an ecosystem component can, therefore, change through time and can vary according to the "state of health" of the ecosystem or the component at the time of the impact. EISs often "freeze" ecosystems and societies at a specific moment in time, often providing "snapshots" when collecting baseline data, and therefore evaluate the significance of the potential impacts upon them at that specific time. The Proponent shall evaluate the significance of potential impacts in the light of data on the dynamism and the current "state of health" of ecosystems and their components and societies and their predictable evolution in the light of, among other phenomena, global climate change.	Y
		Consistent with the ecosystem approach required above, the Proponent shall strive to highlight the interactions within and between ecosystem components, and overall trends, in an effort to increase understanding of the dynamism of the ecosystems in question and the nature and severity of the predicted impacts.  The Proponent shall identify potential impacts separately for each Project phase, including exploration. It shall also assess the potential impacts arising from accidental events and malfunctions. Any terms used to describe the significance of impacts, such as "low", "medium", or "high", must be clearly defined, where possible in quantitative terms.	
4.20	Indicators and Criteria	The Proponent shall identify the indicators and/or criteria selected for assessing the potential impacts of the Project, including its cumulative impacts, and shall justify their selection.	Y
		In doing so, the Proponent shall describe the role played by consultation with members of the public and technical experts.	
		In every case where a potential impact or an area of ignorance or uncertainty is identified, the Proponent must give a clear commitment in the appropriate section of the EIS as to how it will address it.	Y
		The Proponent must clearly distinguish the impacts at each stage of the Project, including temporary closure, final closure and post-closure.	Υ
4.21	Impact Assessment	The Proponent must clearly distinguish the impacts at each stage of the Project, including temporary closure, final closure and post-closure.  Consistent with the principle expressed in the first paragraph of Subsection 4.3, the consequences of each predicted impact for the functioning and integrity of its ecosystem must be considered in addition to the consequences for the VEC or VSEC in question.	Y - Provide a description of any changes to project impact assessment resulting from project design changes identified in Cumberland's letter dated March 8, 2005 regarding Feasibility Study Results on the Meadowbank Gold Project. Provide assessment of impacts for temporary closure.
			Υ
4.21.1	Project Components and Activities		

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4.21.1.1	Underground Mining	The Proponent shall assess the potential impacts of underground mining, taking into account the following:  •Mine permeability	
		The immediate and downstream effects of de-watered areas on habitat, aquatic organisms, and water circulation Plans for managing mine water and groundwater seepage	
		into the mine	ALA.
		Permafrost intrusion and winter operations	NA 
		•The effects on receiving water bodies of water pumped from the mine	
		Any effects of exposure to air or water on ore     Rock stability	
		•The impacts of blasting on air and water quality, with particular reference to dust and wastewater containing	
		nitrites or nitrates from explosives	
4.21.1.2	Processed Ore Containment (and Tailings Ponds)	The Proponent shall assess the potential impacts of the processed ore containment area, taking into account:	
		alto degian legation and appositu	Y
		Its design, location, and capacity     The permeability of the impoundment structure and the	Y
		effectiveness of seepage containment  •The technique and plans for filling the facility, including	Υ
		winter operations  •The characteristics and toxicity of the processed ore,	
		including fines, and windblown dust	N Y
		•Effluent treatment and discharge	Y
			Y
		Any effects of talik development on the long-term stability of the processed ore containment area  Typical questions that arise include:	
		A see description and arise unique.	Y
		Current and predicted water quality     Discharge point for effluent	
		Discharge point for effluent     Microclimate	Y
		•Fish and fish habitat	Y
		Need for control or retention structures	Υ
		•Anticipated volume of tailings in relation to the storage capacity of the lake	Y - Update required
		•Use/rejection of polishing pond	Υ
		Supernatant retention time and natural cyanide destruction rates in Arctic environments.  Particular attention shall be paid to potential impacts on wildlife, including caribou, muskox, and waterfowl.	Y
	Waste Rock, Ore and Overburden	The Proponent shall assess the potential impacts of the waste rock, ore, and overburden storage, taking into	
4.21.1.3	Storage	account:  •The design (height, topography, spatial extent, volume, etc.) and location of the waste rock, ore, and overburden	Y - Provide information for ore stockpiles
		storage sites;	Y
		•The characteristics of the material to be stored	
		Plans for transporting and handling materials	Υ
		•The characteristics and volumes of seepage, techniques for collecting and disposing of seepage, and the effectiveness of drainage containment	Y
			Y
		Acid rock drainage	N
		•The metal content of frozen groundwater in the waste rock	
		Windblown dust     The suitability of the overburden as a substrate for	Y
		reclamation activities  •The potential for re-vegetation	N N
		Particular attention shall be devoted to potential disruptions to the movements of wildlife.	Y
4.21.1.4	Processing and Plant Infrastructure	The Proponent shall assess the potential impacts of the processing and plant infrastructure, including:	
		Noise from plant operations and transportation to and from the plant	Y
		•Runoff from the plant or stored materials	Y
		Sources and disposal of water and effluent	Y

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		Wastes produced and their storage Chemicals used, with particular reference to hazardous materials  Particular ottention about the dependent of the potential disputations.	Y
		Particular attention shall be devoted to potential disruptions to the movements of wildlife.  The Proponent shall assess the potential impacts of any	Y
4.21.1.5	Natural Drainage Diversion	diversions of natural drainage systems The analysis must consider the challenges encountered by other mines and comparable operations in constructing	
		drainage diversions (such as mass erosion and melting ice lenses and the resulting nutrient loadings in water bodies), and the potential for mobilizing sediments and disturbing terrain.	Y
4 24 4 6	Sewage and Solid Waste	Particular attention shall be paid to the impacts on fish, waterfowl, and aquatic mammals resulting from the modification or redirection of natural flows.  The Proponent shall assess the potential impacts of solid waste and sewage, identifying whether either might act as a contract to contain species of wildlife.	Y
4.21.1.6	Management	an attractant to certain species of wildlife.  The analysis shall consider the challenges encountered by comparable mining operations in treating and disposing of sewage and solid waste in a northern ecosystem, as well as the nutrient levels, biological oxygen demand, and winter oxygen levels of any receiving water bodies.	Y
		The Proponent shall also consider the potential impacts of any recycling options, back hauling, landfill segregation, and leaching.	Y - Provide information of landfill segregation and leaching
4.21.1.7	Hazardous Materials Management	The Proponent shall assess the potential impacts associated with the transporting, handling, storing, using, and disposing of hazardous materials, including explosives, hydrogen cyanide, and hydrocarbons.	Y
		The analysis shall include the potential impacts on water quality from blasting residues, and the possibility that some such materials may act as attractants to some species of wildlife.	Y
4.21.1.8	Power	The Proponent shall assess the potential impacts associated with power production, transmission and distribution	Y
4.21.1.9	Air and Ground Traffic	The Proponent shall assess the potential impacts, including those resulting from interactions with wildlife, relating to air and road traffic, taking into account the type, frequency, and timing of traffic, particularly low-flying fixed- and rotary-wing aircraft, noise levels, and, in the case of road traffic, stream crossings.	Y - Update required
4.21.1.10	Borrow Pits and Quarry Sites	The Proponent shall assess the potential impacts of borrow pits and quarry sites, including noise and dust levels, slope stability, thawing of permafrost and ground ice, melt water runoff, habitat loss, and interactions with wildlife.	Y - Update required
4.21.1.11	Other Site Facilities and Infrastructure	The Proponent shall assess the potential impacts, including those resulting from interactions with wildlife, of all other site facilities and associated infrastructure.	Y
		The Proponent shall assess the potential impacts of processing operations, including those resulting from	Y
4.21.1.12	Processing Operations	interactions with wildlife.	
4.21.1.13	Accidents and Malfunctions	The Proponent shall assess the potential impacts, including those resulting from interactions with wildlife, of accidents and malfunctions, including worst-case scenarios, and shall evaluate their probability of occurrence.	Y - Provide worst case scenarios and probabilities of occurrence.
		Internal and external reporting procedures shall also be described.	Y
4.21.1.14	Exploration Programme	The Proponent shall assess the potential impacts of exploration activities, whether by the Proponent or others that utilize Project infrastructure.	N
4.21.1.15	Temporary Closure, Final Closure and Reclamation Programmes	The Proponent shall assess the potential impacts associated with temporary closure, final closure, and reclamation of the Project.	Y
4.21.2 4.21.2.1	Physical and Biological Environmental Components  Terrain and Landscape	The Proponent shall assess the potential impacts on such factors as terrain stability, permafrost and ground ice (including ground ice in eskers, kames, or deltas used as quarries or borrow pits), ice lenses, seismicity, rock heave, and geochemistry.	Y
		Attention shall be paid to sites of palaeontological and palaeobotanical significance.	Y

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		The Proponent shall pay attention to such potential impacts as disturbance to the active layer of permafrost and the resultant ecological effects, permanent changes in the local use of the landscape by wildlife, and permanent aesthetic and physical changes to the landscape.	Y
		Other potentially important impacts are those on eskers (e.g., by quarrying for granular material) and the resultant effects on wildlife. Eskers are important to wildlife, as they provide migration routes for caribou, offer habitat for small mammals, and are used by carnivores, including Grizzly bears, foxes and wolves, for travelling, denning, and feeding.	Y
		The Proponent shall also discuss the use The Proponent shall also discuss the use of Traditional Knowledge in assessing eskers in relation to both wildlife use and as burial grounds, as studies have shown that eskers are in some areas the landforms with the greatest archaeological potential. The Proponent shall quantify the gaseous emissions from	Y
4 24 2 2	Air	fuel consumption, air-borne dust from road transportation, blasting and crushing operations, and wind erosion of waste rock dumps and exposed tailings, and shall discuss the possible effects of such activities (e.g., effects on lichen,	Y
4.21.2.2	All	effects on workers' safety. The analysis shall also address the following:  The atmospheric dispersion of emissions on a local and regional scale;	Y
		Atmospheric conversion processes of emissions (e.g., secondary particulates) and linkages between chemicals, the environment, and human health Potential biological receptors, such as vegetation and	Y
		wildlife;  •The potential for the release of any "greenhouse" gases;	Y
		The effects on plant phenology and wildlife if changing albedo alters the timing or pattern of snow melt.  Relevant indicators may include the Canadian	Y
		Environmental Quality Guidelines and Guidelines Respecting Ambient Air Standards for Sulphur and Total Suspended Particulate Matter in the Northwest Territories, under the Environmental Protection Act.	
4.21.2.3	Water Quality and Quantity	The Proponent shall assess the potential impacts on surface and ground waters.	Y
		The analysis shall include the impacts on water quality and quantity, catchment areas, and permafrost in elation to:	
		Site facilities and infrastructure;	Y
		•In-filling and blasting	Y
		Collecting and treating wastewater and surface runoff	Υ
		•Mine water	Y
		•Groundwater seepage	Y
		Water management (inputs, outputs, re-use) Contaminant loading and dispersion (including surface runoff and airborne contaminants)	Y Y
		Acid rock drainage, metal leaching (including metal leaching from frozen groundwater in the waste rock), and geochemistry;	Y
		Sedimentation (plumes and dispersion)     Changes in water flow caused by stream diversions or	Y
		otherwise  •Processed ore containment area operation, discharge, and de-watering	Y
		•The release of contaminants, including ores, that could	Y
		affect water quality and/or potable water, and human health •The contamination of waste rock drainage by residual nitrogen in the form of nitrates or nitrites from ammonium-	Y
		nitrate-based explosives.  Moreover, the Proponent shall indicate where day-to-day operational problems might occur, particularly regarding runoff control and treatment, and predict the effects of a worst-case scenario in which there is an uncontrolled	N
		release of contaminants, including, for example, hydrocarbons, nitrate-contaminated water, or cyanide into the aquatic environment.	
		The Proponent shall identify water quality objectives from the perspectives of socioeconomic/ human health and ecological health. For example, the receiving water criteria of the Canadian Council of Ministers of the Environment and the Canadian Environmental Quality Guidelines for fresh water and aquatic life for total suspended solids, total	Y
		arsenic, total copper, and any other relevant metals shall be referred to for comparative purposes.	
4.21.2.4	Vegetation	The Proponent shall assess the potential impacts on  *Local plant communities (i.e., vascular, non-vascular, wetland, and riparian)	Y

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		•Plant phenology	Y
		Any rare, endangered, or highly valued species;     Wildlife dependent, whether seasonally or otherwise, on	Y 
		specific habitats or species of vegetation	Υ
		The analysis shall address the loss of vegetation due to mine development and haul and access roads, covering of	
		vegetation by waste rock dumps, and contaminant uptake by	Υ
		vegetation.	
		The Proponent shall include a quantitative account of the loss of plant communities in different ecozones, and	Y
		ecoregions.	Ť
		Special consideration shall be given to species listed as	
		vulnerable, endangered, or a species of special concern by COSEWIC, to those that residents of the Kivalliq Region	
		record as being vulnerable or endangered locally or	
		regionally, and to species of particular social, cultural, and	
4.21.2.5	Wildlife	economic importance, including those for human consumption purposes.	
4.21.2.3	Wildine	The analysis of the potential impacts shall include:	
			Υ
		Habitat loss or alteration (e.g. fragmentation, connectivity)     Mortality (including sport hunting by Project staff)	Y
		Displacement and/or crowding	Y
		•Disruption of movement (e.g. migratory, or within home	Y
		ranges)  •Altered inter-specific relationships (e.g., predator-prey),	
		•Altered inter-specific relationships (e.g., predator-prey), including those with humans	Υ
		•Noise or other forms of disturbance on the ground or by	Y
		aircraft;	
		Bioaccumulation and biomagnification of toxins	N
		The Proponent shall assess the implications of the above on	
		the overall health of wildlife populations, communities, and ecosystems.	Y
4.21.2.5 a	Caribou	Potential impacts on caribou could include:	
		•disruption of movements and migration corridors (due to the	
		mine site, roads, or air traffic, particularly lowlevel flying by	Y
		fixed- or rotary-wing aircraft)	v
		•deflection of migratory routes from traditional hunting areas	Y
		<ul> <li>loss or alteration of habitat or calving grounds; deaths or injuries due to collisions with vehicles;</li> </ul>	Υ
		•disturbance when feeding or resting	Y
			Υ
		•the possibility that caribou may be trapped in the tailings  The Proponent shall evaluate how the potential effects could	
		affect caribou harvesting, as well as the potential effects of	
		diverting caribou around the mine site on their energy	Υ
		balance, which, among other things, can affect the quality of	
		the meat and reproductive success.	
		This evaluation should also consider different seasons and	
		life processes (e.g., migration, calving, winter foraging),	Υ
		focusing on periods when thermoenergetic factors may be important determinants of population trends.	
		Indicators could include: the number of caribou using a	
		specific crossing, calving ground, or winter range; the	Y
		number of caribou in a herd; physical condition as evidenced	
		by body or marrow fat or other indicators; and the level of contaminants in tissues and organs.	
		Grizzly bears are listed as a species of special concern by	
4.21.2.5 b	Grizzly Bear	COSEWIC based on their low densities and productivity.  Baseline data shall relate to such topics as:	
		•movements	Υ
		•habitat use	Y
		diet     den locations (dens are often found near eskers)	Y Y
		The effects of camp infrastructure, attractant sources,	
		including the possibility of habituation, and human-bear	Υ
		interactions shall be considered.  The cumulative effects of habitat loss and of the increased	
		frequency of interactions with humans shall also be	Υ
4.04.0.5	Mush Ours	considered.	
4.21.2.5 c	Musk-Oxen	Potential impacts on musk-oxen may include:  •loss or alteration of habitat	Y
		•collisions with vehicles	Y
		•susceptibility of herds to mine-related sources of	Y
		disturbance during calving  Potential impacts may relate to habitat, including denning	
		and other critical areas. Wolverines are listed as a species	Y
42425=	Wolves Welverines and France	of special concern by COSEWIC based on their low	[
4.21.2.5 d	Wolves, Wolverines and Foxes	densities and productivity.	
4.21.2.6	Birds	Potential impacts on birds include:	
		•loss	Y
		•alteration of habitat, such as staging or nesting habitats (e.g., wetlands)	Y
		•alienation of habitat, such as staging or nesting habitats	Υ
		(e.g., wetlands)	
		odisruption of migration routes     odisturbance by human activity such as blasting and air and	Y
		road traffic the alteration of habitats	Υ
		L. La	N
		•bioaccumulation  The analysis of potential impacts on aquatic organisms and	N

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		•The productive capacity of aquatic ecosystems, with particular reference to species of fish that are important for recreational or subsistence purposes:	Y
		Water quality, bearing in mind the Canadian Environmental Quality Guidelines	Y
		Habitat loss, alteration, or alienation     Rare and/or sensitive aquatic organisms and habitats	Y
		Mortality (including sport fishing by Project workers)     Noise and blasting	Y Y
			N
		Bioaccumulation and biomagnification of toxins	
		The Proponent shall evaluate potential impacts against the Policy for the Management of Fish and Fish Habitat (1986)	Y
		as well as the applicable Metal Mining Regulations (June 2002).	
4.21.3	Biodiversity	The Proponent shall consider potential impacts on the biodiversity and richness of local and regional flora and fauna.	Y
1.21.0	Social, Economic and Cultural	The Proponent shall assess the potential impacts on socio- economic and cultural components, taking into account the	
4.21.4	Components	following:	
		•The health of the workers, their families, and other residents (human health includes physical, psychological, emotional, spiritual, and mental health)	Y
		Demographics, such as Project-induced changes in population numbers, migration, and distribution, and the effects of those changes, including interactions between	Y
		local residents and non-residents	
		•The traditional way of life of the residents of the Region especially their use of the land for economic, cultural, and other purposes, including the Project's contribution, if any, to increased levels of contaminants in traditional foods	Y - Provide project contribution to increased levels of contaminants in traditional foods
		•The cultural well-being of the communities, based on indicators defined in collaboration with the concerned communities	Υ
		•The social life of the concerned communities, family and community stability, problems of substance abuse, and crime and violence, including the effects of a major	Y
		employment base away from the communities	Y
		Archaeological, burial, cultural, heritage, and sacred sites     Changes in	
			Y
		(a) hunting, trapping, or guiding areas	
		(b) commercial, Nunavummiut, and sport fishing areas	Y
		(c) conservation areas, territorial and federal parks, International Biological Program sites, or other ecological	Υ
		reserves or preserves (d) recreation and tourism areas and recognized scenic areas	Y
		(e) the "wilderness experience" (including the potential for compromising the development of protected areas in the region)	Y
		(f) navigable waters	N
			Y
		(g) industrial and commercial areas The Proponent shall pay particular attention to local	
		perceptions of the preceding effects:  •The likely evolution of the local, regional, territorial, and	
		national economies over the life of the Project, having regard to direct, indirect, and induced effects on income and employment, in particular the effects on:  (a) wage and salary employment by skills category over the	Υ
		life of the Project (including estimates of Nunavummiut and other participation)	Y
		(b) opportunities for local, regional, and territorial businesses to supply goods and services both directly to the Project and to meet the demand created by the expenditure of new income by employees and suppliers;	Y

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		(c) opportunities to diversify the economic base of Nunavut to produce and to supply new goods and services; (d) prices and the cost of living;  Opportunities for participation by Nunavummiut workers from the Central Kivalliq Region and Nunavut in wage and salary employment, considering such factors as:	Y - Provide Appendix B of Socioeconomic and Archaeology Impact Assessment  N
		(a) the number of jobs to be created and the required skills	Y
		(b) the effect of competition for labour between the Project and existing businesses, institutions, and traditional activities	Y
		(c) the adequacy of training opportunities available to Nunavummiut to take advantage of jobs created by the Project, including apprenticeship opportunities and training organized by the Proponent	Y
		(d) the extent to which the skills of the available workers match job requirements; the level of interest in mining work	Y
		(e) commuting arrangements for workers	Y
			Y
		(f) barriers to employment, such as issues pertaining to the care of children and Elders	
		Increased pressure on existing social, institutional, and community services, transportation facilities and services, and infrastructure  Any permanent changes to infrastructure and services	Y
		•Revenues accruing to federal, Nunavut, and local governments, and net incremental costs imposed on governments by the Project, including savings realized and incremental costs of infrastructure and services;	Y
		Community and local government organizations	Y
		The impact of an industrial development in this region, particularly where human populations are low, is directly related both to its pace and scale. For example, given the small and relatively untrained work force, the scale of the Project might affect employment benefits, whereas its pace, if abrupt, could cause social or cultural disruption and prove to be more significant than its scale. The Proponent shall address the potential for social and cultural disruption by, among other things, discussing social problems and evaluating the potential impacts of the Project on exacerbating or relieving such problems  The fear that the difficulties of coping with prolonged absences of family members might increase stress in families already dealing with cultural disruption should also be addressed.	Y
		If a community, such as Baker Lake or Rankin Inlet, is to serve as the main point of hiring for non-Nunavummiut, Nunavummiut living there might suffer from the effects of immigration by job-seekers, which could include housing shortages, prostitution, an increase in poverty, and strains on community resources to deal with such issues. Even if the foregoing are not considered to be probable direct effects of the proposed Project, they should be addressed in the assessment of its indirect and cumulative effects.	Y
4.21.5	Impacts of the Environment on the Project	The Proponent must evaluate how the temporary or final closure of the mine would affect workers and communities. For example, how does it perceive its responsibility to its work force and the local economy once operations shut down either temporarily or permanently? Would it put in place a programme of work force adjustment for the last few years of operations, assuming that the Project life extends, to provide such things as employee assistance, career counselling, educational subsidies, and re-training programmes? It would be desirable to use an input-output model to assess potential economic impacts, including indirect and induced effects.  The Proponent shall discuss the potential impacts of the environment on the Project, considering such things as:	Y
		•seismicity	Y
		•severe weather events	Y
		•global climate change  The discussion must specifically describe and assess how the potential for climate change (global warming) could affect permafrost and soils with high ice content and the long term impacts of such changes on Project infrastructure, particularly the processed ore containment impoundment and waste rock piles.	Y

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	0 10 50	The Proponent shall provide a brief overview of the theory and practice of Cumulative Effects Assessment ("CEA") especially as it applies to the ecosystem model of evaluating	Y
4.22	Cumulative Effects Assessment	environmental impacts, and shall justify the methodology adopted in relation to the design of the Project, its management, and the proposed	Υ
		approach to impact assessment.  The Proponent shall demonstrate how Project-specific CEA fits into regional planning initiatives.	Y
		It shall assess the potential cumulative effects of the Project to determine its impacts in combination with past, current, or probable future developments of mines and other projects within a designated distance of the site of the Project determined in conformity with Subsection 4.15.	Y
		The Proponent shall determine which other human activities have affected or are likely to affect the same VECs, VSECs, or ecosystems as the Project.	Y
		The Proponent shall then predict the impacts of the Project in combination with those of the other past, present, and reasonably foreseeable future projects, using the most appropriate methodology on a case-by-case basis that is capable of incorporating all of the relevant impacts.  At a minimum, it shall consider the cumulative effects of other existing and reasonably foreseeable mines and	Y
		exploration camps in the region.  The term "probable future development" is defined to mean: projects or activities that are currently under regulatory review, and those that will be submitted for regulatory review in the near future, as determined by the existence of a project description in the possession of a government department or agency. Nevertheless, where less precise information about a possible development exists, the Proponent shall refer to it and shall offer its opinion on whether it might need to be taken into account at a later	Y
		date.  The Proponent shall give due consideration to transboundary impacts, including the effects of the Project outside Nunavut and the interactions between the effects of the Project and the effects of projects located outside Nunavut. Trans-boundary effects originating from the Project should be clearly identified.  The discussion of cumulative effects shall include a comparison of the incremental contribution of the Project to regional thresholds for VECs and VSECs, as established by the Proponent or by any other authoritative source, and shall	Y
		indicate to what degree a threshold is likely to be approached or exceeded.  It shall also acknowledge the influence of biophysical cumulative effects on socioeconomic systems, and shall evaluate how cumulative socio-economic effects might influence the regional environment.	Y
		The Proponent shall describe and justify all assumptions, models, and information limitations and associated levels of uncertainty.	N
		It shall explain its approach to handling the uncertainty associated with CEA.	Y
4.23	Summary of Impacts	The Proponent shall present a documented summary of the potential impacts, addressing fully their significance in the light of Subsection 4.19.	Y
		The summary shall clearly highlight those impacts judged to be of greater importance and those that may require extensive mitigation measures and monitoring.	N
4.24	Environmental Management and Mitigation		
		The Proponent shall present environmental management plans to prevent or mitigate all the potential impacts of the Project identified in Subsection 4.21, and shall identify residual effects. Mitigation is defined as the elimination, reduction, or control of the adverse effects of the Project. It includes restitution for any damage to the environmentthrough replacement, restoration, compensation, or any	Υ
4.24.1	Overview	other means.  In the case of water, the Proponent shall take into account Article 20 of the NLCA.	
		The description of mitigation measures shall include:  •procedures to avoid environmentally sensitive areas or	Y
		seasons,  •contingency programmes to respond to accidents and emergencies,  •restorative procedures to be implemented on disturbed sites,	Y Y
		*compensation programmes for damage caused by the Proponent's activities to the environment, property, or the land- and resource-use of others.	Y
		Any impacts that cannot be mitigated should be clearly	Y
		identified.  Management plans shall target at a minimum the following, as well as any other VECs or VSECs identified by the Proponent or any other stakeholder/intervenor/participant:	

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		Tailings;  Waste rock;	Y Y
		-waste rook,	
			N
		Domestic and industrial solid wastes;     Liquid waste;	Υ
		Spill contingency plan (transport and storage of fuels and other hazardous materials)	Y
		<ul> <li>Hazardous waste (including the use, handling, transportation, storage, production, and disposal of toxic substances, chemicals, and fuel);</li> </ul>	Y - Provide location of landfarm
		•Acid rock drainage;	Υ
		•Emergency response plan	Y
		•Water supply (including potable and process water)	Y
			Y
		•Landscape;	Y
		Permafrost;	
		Water quality;  Water management plan, including natural and on-site drainage;	Y
		•Air quality;	Y
		•Vegetation;	Y
		Caribou and their habitats	Y
		•Grizzly bears and other scavengers and wildlife potentially attracted to the site	Y
		•Other bird and wildlife species and their habitats;	Y
		Aquatic organisms and habitats	Υ
		Archaeological sites and sacred or spiritual sites;	Y
		•Traffic:	Y
		•Human resources;	N
		Nunavummiut involvement;	Y
		Public involvement, including a communications strategy	N - Provide Public Involvement Plan as noted in Guideline 4.24.3.4
		•Education and orientation;	Y
		Occupational health and safety     Emergency response and contingency plans (including)	
		plans for wildlife encounters, fires, aircraft/vehicle crashes, medical emergencies, mine rescue, hazardous materials spills, malfunctions of key Project components, natural disasters, and discoveries of historic resources);	Y
		Site rehabilitation;	Υ
		•Ability to post full security	N
		The Proponent shall evaluate the costs and economic and technical feasibility of the mitigation measures considered, specify who would be responsible for their implementation, and provide a timetable for implementing them.	Y
		The Proponent shall discuss the flexibility of the proposed environmental management plans to respond to changes in the mine development plan, the regulatory regime, the natural or socio-economic environment, technology, research results, or the understanding of Traditional Knowledge.	Y
		It shall discuss how the results from the environmental management plans would be used in applying adaptive environmental management, and identify criteria or indicators to trigger management action.	Y
		The Proponent shall give a rationale for the proposed management plans and shall assess their likely effectiveness.  It shall also give a rationale for the rejection of mitigation	Y
		measures and justify trade-offs between cost savings and effectiveness.	Y

NIRB Guidelines Section No.	NIRB Guideline Section Title	Guideline Direction	NIRB Conformity Review Decision
		It shall provide a risk assessment of those economic or other conditions that might impair the effectiveness of mitigation measures.	Υ
		Adaptive environmental management revises traditional conceptions conditioning environmental impact review procedures. Its principles are outlined by Holling (1978) and refer to intra-ecological connections, spatial behaviour of events, erratic alterations in natural systems, and dynamic variability. Holling also identifies several misconceptions commonplace in the environmental review process. Moreover, the Proponent shall discuss the negotiation of an agreement or agreements with the concerned communities that would permit them to participate fully in the planning, execution, and evaluation of mitigation measures.	N - Include in Public Involvement Plan
4.24.2	Management of Impacts on Physical Environment	The present Subsection is <i>only</i> illustrative of what might be done. The Proponent should present specific measures for each VEC that is likely to be significantly impacted.	
4.24.2.1	Caribou	Mitigation measures for impacts on caribou could include:	
		Fencing of roads, landing strips, and other potentially dangerous areas  Education of employees  Speed restrictions (the Proponent must show how they will be enforced) during caribou migration to reduce the risk of vehicles' colliding with caribou;  Designing roads and other infrastructure in ways that discourage caribou from interacting with them.	Y Y Y
		The Proponent shall integrate mitigation measures into a detailed caribou management and monitoring plan.	Y
		The use of Traditional Knowledge in minimizing the effects of the Project on caribou (e.g., diverting caribou from tailings) and in establishing a monitoring programme shall be discussed.	Y
		The Proponent shall discuss how it intends to use and/or support such initiatives as the Bathurst Caribou Management Committee.	N
4.24.2.2	Fish	The Proponent shall discuss measures to compensate for the loss of aquatic habitat, including habitat replacement.  The principle of No Net Loss (Policy for the Management of Fish Habitat, Department of Fisheries & Oceans, 1986) for fish habitat shall be applied.	Y
4.24.2.3 4.24.3	Bears  Management of Impacts on Socio- Economic Environment	Mitigation measures designed to prevent bears from becoming habituated to the mine site might include fencing, the removal of solid wastes, and devices to frighten them.  The Proponent shall present policies and programmes to minimize potential negative socioeconomic effects and to optimize potential positive effects.  The general areas that shall be considered are:	Y
		•human resources	N
		•occupational health and safety	Y
		•Nunavummiut involvement	Υ
		•public involvement	N
			Y
		•IBAs.	

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4.24.3.1	Human Resources	The Proponent shall prepare a Human Resources Plan, which might consider: human resources legislation; organization planning; succession and career plans; compensation plans and profit-sharing; benefit programmes (e.g., health care plan, work clothing and safety equipment, vacation leave); work rotation and pay schedules; health and safety programmes; hiring practices and procurement; skills and entry requirements; training and development; control of movements to and from the Project site; on-site public safety with respect to firearms, while respecting the rights and needs of harvesters from adjacent communities to travel freely through the country; alcohol and drugs; smoking; sexual and gender harassment; employment for women; human resource information systems; labour relations (e.g., procedure for submitting grievances or concerns, disciplinary procedures); employee communications; incorporation of relevant IBA terms and conditions; and the use of and payment for municipal facilities and services in local communities.  The Proponent shall also develop an Education and Orientation Plan to help all employees to understand their responsibilities in environmental and health and safety management.	
		The Proponent shall give special consideration to promoting the participation of Nunavummiut in Project employment and related business opportunities by addressing, for example: employment preferences to Nunavummiut; recruitment strategies to overcome entry barriers; education and training programmes (e.g., partnerships with local schools and other educational institutions, on-the-job learning, and apprenticeships); cross-cultural orientation; preference to northern usinesses; commuting arrangements; northern allowances; the types of food available to workers at the mine site; and the pursuit of on-site sport hunting and fishing by non- Nunavummiut employees, while respecting the rights and needs of Nunavummiut employees to harvest and pursue traditional activities and all applicable regulations,	
		including the use of local guiding services.  The Proponent might note that hunting and fishing are usually prohibited at the Nunavut mining sites. And for example, recreational angling was determined to have the greatest single potential impact on fish populations of all the activities associated with the Diavik project. For this reason, prohibiting recreational angling by all employees at or near the Project site might go a long way towards avoiding impacts on fisheries resources.	
		The Proponent shall discuss the extent to which its policies regarding such things as preferential hiring, northern allowances, safety, and alcohol and drugs would be applied to contractors and sub-contractors.  It shall also discuss criteria for selecting contractors	N - Provide the Human Resources Plan
		Some mines have initiated a Job Development Strategy under the stewardship of northern businesses, which aims to identify and cultivate employment and business opportunities for northern workers and entrepreneurs that reflect the goals and desires of northern residents and of the business community. The strategy also has the potential for creating opportunities for those who prefer not to work at the mine site. The Proponent should evaluate the feasibility of becoming a partner in the Job Development Strategy or, if that is not feasible, coordinating its activities with it so as to avoid competition and duplication.  The Proponent shall describe a programme to invest a specified portion of the wealth created by the Project in the natural and human capital of the region. Such a programme can be likened to an economic diversification or development trust fund.  The Proponent shall also consider the necessity and/or desirability of an economic transition fund upon final closure	
		of the mine.  Should said fund be necessary/desirable, the Proponent shall set out how it would be established.  The Proponent shall describe mitigation and monitoring measures to reduce social and cultural disruption, which	
		could include:  *work schedules that are adapted to traditional activities;  *the provision of no-cost commuting to allow workers to continue to live in their own communities and to participate in their traditional economic and cultural activities;  *assistance to communities to address social problems, whether solely related to the Project or not  *counselling services to employees and their families regarding financial management, substance abuse, and	
		work-related stress management.  The Proponent shall discuss environmental management and monitoring techniques designed to mitigate potential cumulative effects and to increase understanding of cumulative effects.  That discussion shall include follow-up plans to verify the accuracy of the environmental assessment and determine the effectiveness of mitigation measures.  The Proponent's responsibilities shall reflect the Project's anticipated contribution to cumulative environmental effects	

NIRB Guidelines Section No.	NIRB Guideline Section Title	Guideline Direction	NIRB Conformity Review Decision
		The Proponent shall present an Occupational Health and Safety Plan that focuses on good safety practices, safety awareness, risk management, mine rescue, employee	
4.24.3.2	Occupational Health and Safety	involvement, and management commitment.  It shall address:	
		•safety reporting	Y
		•safety orientation	Y
		hazard analysis     training in first-aid, cardio-pulmonary resuscitation, firefighting and -prevention, and spill response	Y Y
		•workplace monitoring and control	Y
		•medical surveillance  In discussing means to involve Nunavummiut, the Proponent might consider on-site observers (who would be responsible	
		for monitoring certain Project activities), liaison committees (to facilitate communications, consultation, and the resolution of environmental matters), and the compilation, review, and use of Nunavummiut place names and other	Y
4.24.3.3	Nunavummiut Involvement	Traditional Knowledge.  The Proponent shall describe a Public Involvement Plan, the	
4.24.3.4	Public Involvement	objectives of which shall be to:  *provide information to the public and concerned communities on Project design and activities  *identify mitigation needs  *gain understanding of public concerns	
		develop two-way communications with the concerned communities     obtain input to environmental and health and safety management decisions.	
		Public involvement techniques could include: mail or handouts to households; videos on Project components; communication sessions to explain the results of the EIS; information sessions on specific subjects; corporate public offices in the Region or in Nunavut; open houses; workshops on Project development; meetings with government officials, interest groups, and other parties; presentations to interest groups and the public; community forums; site visits; toll-free telephone lines; a company newsletter; annual environmental reporting; release of Project documents; local monitoring committees; and media releases.	
		Wherever the Proponent undertakes public consultation and involvement, it shall ensure that participants and the public in general are subsequently informed how their views and knowledge were taken into consideration and applied.	
		Appendices to the EIS must contain full documentation on public consultation, including records of any follow-up.	
4.24.3.5	Impact and Benefits Agreement	The EIS must respect all of the provisions of the NLCA relating to impact and benefits agreements, including Article 6, Part 4 of Article 9, Part 3 of Article 20, Article 26, and Article 27.  The Proponent shall discuss the negotiation of IBAs, including with whom such agreements might be negotiated and whether they will be concluded prior to the construction of the Project.	Y
		The NLCA empowers the NWB to request from the applicant, when considering a water application, information regarding thesteps which the proponent proposes to take to compensate interests adversely affected by water use (NLCA, s. 13.8.1(d)) and theinterests in the lands and waters which the proponent has secured or seeks to secure (NLCA, s. 13.8.1(f)). This might be an issue since the NWB will have water and waste-in-water jurisdiction and otherwise might be conducting joint hearings with the NIRB.	Y
		Issues that shall be covered in IBAs include:  *assurances that local communities are able to take advantage of job opportunities	Y
		etraining	Y
		•preferential hiring programmes •financial transfer payments	Y
		•royalties •equity participation	Y Y
		•new business development and contract arrangements	Y
		*compensation for declines in harvests of fish and wildlife     *participation in monitoring activities     *dispute-resolution	Y Y Y
		•the other issues raised by the signatories In discussing compensation, the Proponent shall address	Y
		such issues as eligibility, burden of proof, access by individuals to resources to help them to pursue claims, and dispute-resolution mechanisms.	Y

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4.24.3.6	Pollution Prevention	The Proponent shall highlight any pollution prevention measures to be implemented. Pollution prevention is defined by the Federal Government in the document Pollution Prevention: A strategy for Action (Environment Canada, June, 1995), which links the concept of pollution prevention with sustainable development - a vision that includes a clean healthy environment and a strong, healthy economy, and that focuses on avoiding the creation of pollution rather than trying to manage it after it has occurred. Residual impacts are those for which feasible mitigation measures could not be conceived and for which compensation has not yet been determined. They also include the effects that persist after mitigation measures have been successfully applied. Both short-term and long-	Y
4.25	Residual Impacts	term residual impacts must be considered.  The Proponent shall describe the residual effects of the Project in a way that permits comparisons with the Project's potential effects in the absence of mitigation, and shall express their significance in the same manner as for the said potential effects, using the same criteria.  It shall also assess the reliability of the planned mitigation measures and the environmental consequences of their failure.	Y
	Monitoring and Follow-Up	The Proponent shall present a Monitoring and Follow-Up Plan that includes compliance, biophysical and socio-economic monitoring programmes, and a follow-up programme to integrate the monitoring results into a coherent programme of action and to evaluate the effectiveness of mitigation measures during operation and after the final closure of the Project. (Compliance monitoring refers to verifying the Proponent's conformity with regulatory standards. Biophysical monitoring involves the monitoring of such biophysical components as air, water, and land. Socio-economic monitoring involves the monitoring of socioeconomic parameters, for example employment of Nunavummiut and other northerners and the purchase of	N - Provide a Monitoring and Follow Up Plan
4.26.1	Overview	goods and services in the Region.) In every case, the Proponent shall explain what is to be monitored, why it needs to be monitored, and how it will be monitored.  The Proponent shall discuss:	Y - Integrate into Monitoring and Follow Up Plan
		•how its monitoring programme would distinguish between natural environmental changes and those caused by the Project,	N
		<ul> <li>how it would assess the validity of impact predictions, how monitoring results would be used to modify management programmes and Project policies,</li> <li>how it would respond to unexpected adverse effects.</li> </ul>	Y - Provide information regarding permafrost monitoring and integrate all components into Monitoring and Follow Up Plan  Y - Provide information for noise, air and permafrost monitoring and integrate into Monitoring and Follow Up Plan
		It shall also discuss the use of criteria or thresholds to assess impacts (e.g., the use of lichen as an indicator species due to its sensitivity to sulphur dioxide and nitrogen dioxide and its importance in the diet of caribou).	Y - Integrate into Monitoring and Follow Up Plan'
		The Proponent shall strive at every phase of the Project to collect data in a manner that is consistent with existing databases, including those of the West Kitikmeot Slave Study, the NPC and the Department of Sustainable Development, provided that doing so will not significantly compromise its ability to monitor effectively given Project-specific conditions.	Y - Integrate into Monitoring and Follow Up Plan'
		The description of the approach to monitoring shall address:	
		•Monitoring methodologies, standards, objectives and a corresponding datacollection schedule. The schedule shall describe the frequency of datacollection and analysis, sampling locations, and shall distinguish between on	Y - Provide information and integrate into Monitoring and Follow Up Plan
		•The subjects and parameters to be monitored, and the criteria used in their selection;	Y - Provide information and integrate into Monitoring and Follow Up Plan

NIRB Guidelines Section No.	NIRB Guideline Section Title	Guideline Direction	NIRB Conformity Review Decision
Section No.		•The geographic extent of monitoring •Internal and external reporting and response mechanisms and structures, including procedures to be followed in the event that monitored results deviate significantly from	Y - Provide information and integrate into Monitoring and Follow Up Plan  Y - Provide information and integrate into Monitoring and Follow Up Plan
		predicted results;      Approaches and methods for monitoring the cumulative effects of the Project;	Y - Provide information and integrate into Monitoring and Follow Up Plan
		Integration of monitoring results with other aspects of the Project, including adjustments to operating procedures and refinements to mitigation measures	Y - Provide information and integrate into Monitoring and Follow Up Plan
		•Experience gained from prior and current monitoring programmes	Y - Provide information and integrate into Monitoring and Follow Up Plan
		•The roles of independent experts, government agencies, communities, holders of Traditional Knowledge, and renewable-resource users, and any joint monitoring programmes	Y - Provide information and integrate into Monitoring and Follow Up Plan
		Procedures to assess the effectiveness of monitoring programmes, mitigation measures, and recovery programmes for disturbed areas	Y - Provide information and integrate into Monitoring and Follow Up Plan
		•The role of communications plans in monitoring, and procedures to communicate the results of monitoring to interested parties.	Y - Provide information and integrate into Monitoring and Follow Up Plan
4.26.2	Community Liason Committees	In the case of post-closure monitoring, the Proponent shall describe how long term monitoring will continue and shall identify who will assume the costs and responsibility, especially in the event of changes of corporate ownership.  The Proponent shall consult with all concerned regulatory authorities and stakeholders to maximize the chances that it proposes a clear, comprehensive, and proactive Monitoring and Follow-Up Plan.  If the Proponent proposes that one or more Community Liaison Persons or Committees ("CLCs") be established to participate in monitoring activities, then the following shall be considered:  •The level of community support for participating on a CLC. The community shall treat the CLC seriously and the community appointees shall be accountable in practical and identifiable ways to the community. Community appointees shall be given time and assistance to familiarize themselves with all of the relevant aspects of mining;  •Reaching a clear understanding among all involved of the role of the CLC, its purpose and its limitations. Impact monitoring shall be clearly defined and written into the mandate of the CLC, and all participants shall agree on the meaning. Consensus shall be reached regarding the framework for the monitoring activities, such as about what is being monitored, what data and how much of it is required, and whether the monitoring activities themselves are sustainable;	Y - Provide confirmation that the provisions under section 4.26.2 will be met through
		Methods for maintaining the CLC's visibility in the community  The Proponent's accountability to the CLC and to the community. The Proponent must be as a matter of policy willing to respond to the findings of monitoring  The provision of information and reporting on the activities of the CLC to the communities. For example, if community members are to be involved in monitoring impacts, they must be adequately informed of the types of effects that they are likely to encounter. Likewise, community members must have access to the results of the monitoring to which they contribute;  The provision of sufficient financial, technical, and administrative resources to the community members so that they can participate in a meaningful way in the CLC. The budget for the CLC should depend on the scale and complexity of the mining operation and should be	the IIBA.

NIRB Guidelines Section No.	NIRB Guideline Section Title	Guideline Direction	NIRB Conformity Review Decision
		The Proponent shall also set out the mechanisms by which a CLC would be created (e.g., environmental agreements,	
		IBAs). The Proponent shall prepare an Auditing and Continual	
		Improvement System to review and continually improve	
4.27	Auditing and Continual Improvement System	environmental and health and safety management. Such a system shall address:	
1.21	- Cystom	oyatan anan adaress.	
		•monitoring and measurement	
		•non-conformance reporting	
			N - Provide details of Auditing and Continual Improvement System.
			,
		•corrective and preventive action plans	
		•record-keeping and documentation control	
		•audits of environmental and health and safety management.	
		The Proponent shall describe the implementation of the system by discussing such things as training, awareness,	
		competence, documentation, operational control, and	
		records. The Proponent shall present a Closure and Reclamation	
		Plan that respects all applicable regulations, standards, and policies and addresses the mine, mine rock, overburden,	
		and tailings disposal facilities and areas, water retention	Y
		and diversion structures, buildings and site infrastructure, fuel and hazardous materials storage facilities, wastes,	
4.28	Closure and Reclamation	borrow pits and quarries, roads and airport, and all disturbed areas.	
4.20	Olosure and Neclamation	It shall state its goals for reclamation, such as the re-	
		establishment of stable physical landforms and land-use productivity, and the long-term physical and chemical	Y
		stability of water resources.  It shall discuss reclamation methods and the schedule and	
		time frame (e.g., progressive reclamation).	Υ
			Y - Provide discussion on how research and on-going technological advances will be
		It shall also discuss how the Closure and Reclamation Plan would be updated periodically by, for example, incorporating	incorporated into updates of the
		ongoing research and technological advances.	Reclamation and Closure plan
			Y
		Moreover, the Proponent shall describe the extent to which it	
		believes that the Project site can be restored to its previous ecological diversity and ecological productivity.	
		The Proponent shall specify when a temporary closure	N
		should be considered to be permanent.	14
		The Proponent shall discuss a research programme that is	
		consistent and compatible with broader efforts under way within Nunavut to address challenges to reclamation, such	N
		as the cold environment, poor soil development, limited topsoil resources, slow growth rates, limited seed	
		production, low soil moisture, and short growing seasons.  The Proponent shall evaluate the cost and feasibility of	
		going beyond mere reclamation by enhancing wildlife	N
		habitats and undertaking other forms of beneficial landscaping.	
		The Proponent shall discuss post-closure monitoring of such environmental components as wildlife,re-vegetation,	
		landform stability, and water quality. Issues such as the	Y
		introduction of exotic species of plants for purposes of revegetation shall be discussed.	
		The Proponent shall describe any outstanding issues that are not identified elsewhere in the EIS and shall indicate	Y
4.29	Outstanding Issues	are not identified elsewhere in the EIS and shall indicate how it intends to address them.	Y
4.29	Outstanding Issues	are not identified elsewhere in the EIS and shall indicate	
		are not identified elsewhere in the EIS and shall indicate how it intends to address them.  A list of all the consultants who contributed to the preparation of the EIS, including their role and contact information (mailing address, telephone number, fax	Y
4.29 4.30	Outstanding Issues List of Consultants	are not identified elsewhere in the EIS and shall indicate how it intends to address them.  A list of all the consultants who contributed to the preparation of the EIS, including their role and contact information (mailing address, telephone number, fax number, and e-mail address), shall be presented.  The Proponent shall prepare a list of the organizations	
		are not identified elsewhere in the EIS and shall indicate how it intends to address them.  A list of all the consultants who contributed to the preparation of the EIS, including their role and contact information (mailing address, telephone number, fax number, and e-mail address), shall be presented.  The Proponent shall prepare a list of the organizations consulted, including: the time, place, and purpose of the consultation; the number and, subject to confidentiality, other	Y
		are not identified elsewhere in the EIS and shall indicate how it intends to address them.  A list of all the consultants who contributed to the preparation of the EIS, including their role and contact information (mailing address, telephone number, fax number, and e-mail address), shall be presented.  The Proponent shall prepare a list of the organizations consulted, including: the time, place, and purpose of the consultation; the number and, subject to confidentiality, other details of the participants; and a list, including mailing	Y
4.30	List of Consultants	are not identified elsewhere in the EIS and shall indicate how it intends to address them.  A list of all the consultants who contributed to the preparation of the EIS, including their role and contact information (mailing address, telephone number, fax number, and e-mail address), shall be presented.  The Proponent shall prepare a list of the organizations consulted, including: the time, place, and purpose of the consultation; the number and, subject to confidentiality, other details of the participants; and a list, including mailing address, telephone number, fax number, and e-mail address, of all organizations to which the Project proposal	Y
		are not identified elsewhere in the EIS and shall indicate how it intends to address them.  A list of all the consultants who contributed to the preparation of the EIS, including their role and contact information (mailing address, telephone number, fax number, and e-mail address), shall be presented.  The Proponent shall prepare a list of the organizations consulted, including: the time, place, and purpose of the consultation; the number and, subject to confidentiality, other details of the participants; and a list, including mailing address, telephone number, fax number, and e-mail	Y
4.30	List of Consultants	are not identified elsewhere in the EIS and shall indicate how it intends to address them.  A list of all the consultants who contributed to the preparation of the EIS, including their role and contact information (mailing address, telephone number, fax number, and e-mail address), shall be presented.  The Proponent shall prepare a list of the organizations consulted, including: the time, place, and purpose of the consultation; the number and, subject to confidentiality, other details of the participants; and a list, including mailing address, telephone number, fax number, and e-mail address, of all organizations to which the Project proposal was sent.	Y