

TABLE 6.4

**BAFFINLAND IRON MINES CORPORATION  
MARY RIVER PROJECT**

**DEVELOPMENT PROPOSAL FOR THE MARY RIVER PROJECT**

**TOPICS RAISED THROUGH CONSULTATION**

COMPONENT	TOPIC	QIA	Community and Hamlet Meetings						HTO and IQ Working Groups	Intervener Comments on Bulk Sampling Program	Nunavut Planning Commission North Baffin Land Use Plan
			Pond Inlet	Arctic Bay	Iqloolik	Hall Beach	Clyde River	Iqaluit			
ATMOSPHERE	Air Quality	emissions and dust (fuel consumption, ground transportation, power generation, equipment, incinerators, crushers, stockpiling, conveyors, ships, ore transport etc.)							√	√	
		drilling and blasting activities								√	
		green house gases/ carbon balance			√					√	
		cumulative effects								√	
	Noise	changes in atmospheric noise (power generation, equipment, blasting, crushing, construction, train, aircraft)					√			√	
		changes in marine noise (dock, blasting, shipping)								√	
		identify sensitivities for blasting								√	
	Climate	climate change and resulting changes in ice, precipitation etc.							√		
LAND RESOURCES		unique landforms (eskers)								√	
SURFACE AND GROUNDWATER WATER RESOURCES	Water Quality	uncontrolled release of contaminants								√	
		contaminant loading and dispersion including surface runoff and airborne contaminants)								√	
		acid generation and metal leaching predictions								√	
		• sources include ore stockpile, waste rock, borrow sources, pit runoff, air strip, road								√	
		• temporary storage of potential ARD/ML materials								√	
		• mitigation of ARD/ML from pit walls								√	
		surface runoff								√	
		drilling (including salts)							√	√	
		wastewater								√	
		sewage								√	
		nutrients and dissolved oxygen loadings								√	
		explosives management and blasting					√			√	
		effect of open pit mining on groundwater								√	
		effects of transport along rail and road								√	
		limnology								√	
		cumulative effects								√	
		compensation									
FRESHWATER AQUATIC RESOURCES	Fish	general including fish in Steensby				√			√		
		habitat alteration, destruction and/or disruption (i.e.. engineering road crossings)								√	
		potential for accidental spills								√	
		effect of water quality on fish bearing streams									
		effect of hydro power		√							
		effect of Ravn River water crossing		√							
		effect of dock activities on fish bearing lakes					√				
		habitat alteration or destruction (particularly due to engineering road crossings)									
		habitat mitigation, compensation, and monitoring options									
		bioaccumulation of contaminants							√		
		effects to fish from dust emissions in lakes/crossings along the rail line							√		
		general		√							
	Arctic Char	land locked char							√		

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MARINE ENVIRONMENT	Floe Edge Habitat	marine transportation								√	
	Water and Sediment Quality	general								√	
		accidental spills							√	√	
		dust								√	
	Marine Mammals and Habitat	general			√ (walrus, habitat, calving grounds, and food)			√ (walrus habitat and food)		√ (bowhead, narwhal, seal)	
		shipping route				√					
		shipping	√ (narwhal and their calving and feeding areas)	√ (narwhal and their calving and feeding areas)					√	√ (whales and seals)	
		effect of noise (including air traffic)		√ (narwhal and their calving and feeding areas)	√				√		
		effect of ice breaking		√ (narwhal and their calving and feeding areas)					√		
		effect of Steensby Dock			√						
		sound propagation of ship noise								√ (narwhal and bowhead)	
		activity near walrus "haul outs" (areas where walrus haul themselves out of water)									√
		concern for seal pups from April - June							√		
		science versus hunter observation							√		
		disturbance from on land activity and air traffic							√ (beluga and seal)	√	
		changes in marine mammal abundance, distribution and behaviour							√	√ (seal and narwhal in Milne)	
		cumulative effects of tourism activities, community and site resupply, Canadian Coast Guard and other marine traffic such as that for the High Lake Project, air traffic and local use								√	
		shipping spills of ore on marine life					√				
		bioaccumulation of contaminants							√		
		monitoring (transmitters on narwhal tusks)							√		
	Sea Bed	dock construction			√						
	Polar Bears	activity near denning areas								√	√
		shipping route along Baffin Bay, Pond Inlet, Eclipse Sound, Milne Inlet, and Koluktoo Bay								√	
		effect of potential spill or ship malfunction								√	
		attraction to camp food wastes								√	
		interaction with workers								√	

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VEGETATION		air emissions								√	
		effect of salt on vegetation							√		
		effect of fuel from spills on vegetation							√		
WILDLIFE	Wildlife and Wildlife Habitat	general							√		
		disruption of movement and migratory processes									√
		prevention of over-harvesting at mine site and along transportation routes					√ (caribou)			√	√
		abundance							√		
		effect of blast residue		√							
		effect from air traffic			√						
		effect of noise (including ship noise)	√							√	
		effect of hydro power	√								
		protection of wildlife areas						√			
		contaminants and bioaccumulation (including drilling salt)							√		
		effect of shipping							√		
		spatial and temporal distribution, critical life history events, important habitat and relationship to project activities								√	
		Elder consultation								√	
		habitat disruption, loss, or other alteration								√ (species at risk)	
		cumulative effects								√	
		effect of potential spill or ship malfunction								√	
	Caribou, their calving grounds, and migration	general	√			√			√ (at Steensby)		
		overhead flight disturbances									√
		disturbance							√		√
		activity within Caribou Protection Areas									√
		activity in calving areas									√
		activity or infrastructure (camp, fuel, blasting, drilling) within 10 km of Designated Caribou Crossings									√
		effect of railway on caribou, including caribou behaviour, such as becoming less afraid of rail		√			√				
		effect of noise and air traffic (i.e., helicopters)	√	√	√				√		
		effect from Ravn River railway crossing and Milne Inlet Road on caribou migration	√	√			√		√		
		monitoring							√		
		effect of flattening the mountain (caribou like high spot on mountain)							√		
		effects of monitoring (nets, collaring, tranquilizers, computer chips)							√		
	Other Wildlife (wolves, foxes, arctic hare)	interaction with workers	√ (general)							√	
BIRDS	Bird and Raptor species	disturbance/destruction of nests	√ (geese and ptarmigan)							√ (raptors and geese)	
		habitat loss, alteration, alienation or disturbance								√ (migratory birds)	
		water quality								√ (migratory birds)	
	Migratory Bird Sanctuaries, Terrestrial and Marine Habitat for Migratory Birds, Important Bird Area Sites	effect of potential spill or ship malfunction								√	
	Waterfowl and Seabirds and habitat	disturbance due to shipping route in close proximity to Bylot Island and the surrounding Key Migratory Bird Habitat Area								√	
HERITAGE RESOURCES	Archaeological Resources	disturbance of archaeological sites			√					√	√
		removal of artefacts									√

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			Pond Inlet	Arctic Bay	Iqloolik	Hall Beach	Clyde River	Iqaluit			
HERITAGE RESOURCES		identification of archaeological sites and artefacts and reporting of suspected sites to CLEY									√
		use of traditional knowledge	√								
		respect for Articles 21 and 33 of the NLCA	√								
SOCIO-ECONOMIC	General	effect of closure							√		
	Employment	Inuit employment	√	√	√	√	√				
		effect of education and training level			√		√	√			
		drug and alcohol policies					√		√		
		effect of criminal record on opportunity for employment				√					
		effect of unilingualism on opportunity for employment	√				√				
		effect of the hiring process, communities of hire, and informing people of opportunities for employment and training	√						√		
		effect of project feasibility on employment opportunities		√			√				
		attitudes towards employment							√		
		employment security	√	√					√		
		benefits							√		
	Training	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	√	√	√			√	√	√	
	Scholarship	administration	√								
	Income/Financial Management	effect of Project (i.e.. employment and cash) on substance abuse	√		√		√				
		pension planning					√				
	Local Labour Market and Wage Inflation	effects of industry wages on local labour market caused by differing industry and local wage scales, and the ability of local workers to match industry wage scales								√	
		the effect of competition for labour between the Project and existing businesses, institutions, and traditional activities								√	
	Demographics								√		
	Way of Life	traditional way of life and culture			√		√		√	√	
	Food Security	effect of any decreases in marine mammals and wildlife abundance on ability to obtain country food							√		
	Worker Health their families and other residents	effect of employment on workers and their families such as pride, wellbeing, financial dependence, absence induced jealousy, and addictions			√		√		√		
		effects of rotational work			√						
		workers compensation		√							
		worker access to country foods	√	√		√	√				
		worker recreation				√	√				
		workplace equality between Inuit and non-Inuit	√		√				√		
		communications with employees	√	√					√		
		Inuktitut and Inuit culture in the workplace	√						√		
	Worker Safety	effect of air emissions							√ (general)		
		medical care								√	
		camp sanitation								√	
		interaction with polar bears								√	
	Human Health and Well-being	suicide rates			√						
	Youth	employment and training		√	√		√		√	√	
	Local Businesses	effects of increased income on local business community		√	√						
		follow the practice of local purchase of supplies and services wherever practicable	√								√

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SOCIO-ECONOMIC	Community Relations and Consultations	consistency and effectiveness of communications with communities	√	√		√	√	√	√	√	
		communication between communities							√		
		community involvement in planning, monitoring and follow-up	√	√			√		√	√	
		Inuit involvement in archaeological surveys or investigations	√								
		Elder involvement	√		√			√			
		communications with CLARCS and communities regarding research ensuring translation into Inuktitut									√
		consultation with NWB and NPC			√						
		consultation with Qikiqtaaluk					√				
		academic and scientific research consultation with NRI									√
		magnitude of revenues to public/inuit	√	√	√	√	√	√		√	
		NTI involvement						√			
	Services and Infrastructure (social, economic)	effect of increased pressure on existing social, institutional, and community services, transportation facilities and services, and infrastructure								√	
		public use of project services and infrastructure such as scheduled flights, camp, road, shipping, emergency assistance to communities	√	√	√		√		√		
		community access to project infrastructure upon closure			√		√				
		community access to project infrastructure upon closure			√		√				
	Renewable Resources	identification of carving stone sites			√	√	√				√
		harvest compensation (narwhal, caribou, char, ringed seal)	√	√	√				√		
	Evolution of the Local, Regional, Territorial and National Economies	conservation of renewable resources									√
		wage and salary employment by skills category over the life of the Project (including estimates of Nunavummiut and other participation)								√	
		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								√	
LAND USE	Land Use	effect of shipping	√				√				
		effect of low level flights								√	√
	Fisheries									√	
		Recreation and Tourism Areas and Recognized Scenic Areas (use of Sirmilik National Park, land adjacent to project area and marine transportation corridor to Milne Inlet)								√	
		effect of shipping on marine mammals								√	
		effect of shipping schedules								√	
		effects on raptors and geese								√	
		effects of air and marine traffic								√	
	Use of Mine site as Town Site		√		√						√
	Land Use Values										
		conservation of land use values identified as essential, important, general use and areas of unknown or little importance taking into consideration wildlife species harvested by affected communities, travel routes, type of wildlife habitat, and archaeological sites (see North Baffin Land Use Plan Appendix G)								√	√

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LAND USE	Hunting marine and terrestrial wildlife	general	√ (caribou, wolves, fox, arctic hare and ptarmigan hunting)	√ (caribou)	√ (walrus)	√ (caribou)				√ (seal, caribou, whales)	
		effect to marine mammals summering areas in Milne Inlet, Eclipse Sound and Navy Board Inlet								√ (marine mammals, arctic char)	
		effect of shipping schedules								√	
		effect of noise							√		
		effect of road								√	
		effect of aircraft movements							√	√	
		effect of shipping							√	√	
		project communication with hunters							√		
		effect of shipping (ice-breaking)					√		√		
	Travel Routes										
HUMAN AND ECOLOGICAL HEALTH	Traditional Land Use Areas	effects of railway		√			√				
		associated with changes in water quality, air quality, noise and foods, including the effect on workers								√	
		impacts to drinking and recreational water use in the headwater tributary of the Mary River, Sheardown Lake and Milne Inlet								√	
		impacts to drinking and recreational water use								√	
ENVIRONMENTAL MANAGEMENT		spill prevention		√							
		concern for compensation due to accident		√							
		caribou management and monitoring plan	√						√		
		marine mammal monitoring							√		
		wildlife monitoring plan	√								
		noise monitoring plan with thresholds for noise levels								√	
		air quality monitoring								√	
		water quality monitoring	√								
		ability to detect water quality exceedances with the appropriate degree of accuracy and ability to apply adaptive management measures								√	
		sewage management plan that includes operation and maintenance procedures, waste management options for sewage sludge and contingency measures in case of RBC failure								√	
		spill contingency plan								√	
		site cleanliness							√		
		use of best management practices	√								
		timing of ground disturbances, archaeological survey completion and approval of archaeology mitigation plans by CLEY								√	
		construction environmental management and monitoring plan	√								
		ARD/ML mitigation and management plan that includes the amounts and locations of rock to be neutralized, engineered drainage plans for the pits and waste storage areas, the amount and ability of calcareous rock to buffer run-off, effluent monitoring plans, and an account of how this method would work in perpetuity								√	
		adaptive management measures and triggers that would be used if ARD/ML mitigation measures prove ineffective								√	

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ENVIRONMENTAL MANAGEMENT		monitoring plan for use of the road by hunters and complaints regarding Baffinland's use of the land								✓	
		emergency response plans	✓			✓				✓	
		search and rescue							✓		
		employment, education and training plan								✓	
		employment policy								✓	
		incorporation of traditional knowledge into management and monitoring plans								✓	
PROJECT COMPONENTS AND ACTIVITIES	Energy Sources and alternatives	hydro power	✓						✓		
		wind power	✓								
	Project Alternatives	no project alternative	✓		✓						
	Project Need and Purpose								✓		
	Closure	site reclamation/restoration		✓							✓
		plans and financial guarantees for eventual abandonment and restoration of the site addressing waste sites and toxic waste removal	✓								✓
		responsibility									✓
	Shipping	effect of ARD and ML potential								✓	
		Steensby and Milne port site alternatives			✓	✓			✓		
		Steensby east and west route alternatives			✓	✓		✓	✓		
		other port site alternatives and no shipping alternative			✓						
		public consultation on alternatives			✓						
		Button Point (SE tip of Bylot Island)	✓								
		seasons						✓			
		general	✓		✓						
		marine security, infrastructure and the transport of dangerous goods								✓	
		multi-year ice							✓		
		bathymetry							✓		
		methods of loading ore							✓		
	Baseline Studies		✓							✓	
	Port				✓						
	Road	reclamation	✓								
		present and long term costs and legal responsibilities for Milne Inlet Tote Road	✓								
	Rail	winter operation			✓						
		alternatives transportation methods			✓						
		assessment of alternative routes, cumulative effects of preferred route, reasonable options for other identifiable facilities						✓	✓		✓
		design for wildlife							✓		
	Traditional Knowledge	use of traditional knowledge in project design and research	✓		✓					✓	✓
	Airstrip	airfield lighting, airstrip construction, aerodrome certification, pilots, aircraft, operations and safety, wind direction indicators, prohibitions, and fire prevention							✓	✓	
	Explosives	distance of explosives storage from other mine site and camp facilities								✓	
	Water crossings	restricted navigability due to any works built in or placed in, over, under through or across a navigable waterway								✓	
	Waste	mine waste		✓							
		handling, storage and removal of hazardous wastes	✓						✓	✓	
		incineration operational procedures	✓								

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PROJECT COMPONENTS AND ACTIVITIES		operation and monitoring of landfill	√								
		ensure no new waste creation, recycling (refuse, fuel drums, scrap metal), prevention of contamination and recovery of all drums									√
	Schedule								√		
ASSESSMENT	Traditional Knowledge								√		
PROJECT OWNERSHIP		concern for responsibility of future owners of mine			√				√		

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