

APPENDIX 2C

EFFECTS INTERACTION MATRICES

TABLE 2C-1
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT
EFFECTS INTERACTION MATRIX - MILNE PORT

		KEY INDICATORS			ATMOSPHERIC																	TERRESTRIAL																	FRESHWATER AQUATIC LIFE AND HABITAT																	MARINE																	SOCIO-ECONOMIC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
					Air quality																	Noise																	Vibration																	Sensitive Landforms																	Soil																	Vegetation health																	Plants used by Inuit, where they occur																	Biodiversity																	Penguin falcon																	Red-throated loon																	Elder																	Snow geese																	Songbirds																	Shorebirds																	SARA Species (Short-eared owl)																	Caribou																	Hydrology																	Water and sediment quality																	Freshwater fish and fish habitat																	Physical oceanography																	Chemical oceanography																	Sea ice																	Port site marine habitat																	Coastal fish communities																	Ringed seal																	Bearded Seal																	Bowhead whale																	Beluga whale																	Narwhal																	Walrus																	Polar bear																	Marine birds																	Cultural resources (archaeological sites)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Milne Port - Facility or Activity					1			1			0			1			1			2			2			2			1			2			2			2			2			2			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1			1		

Impact Ratings:
0 = no interaction
1 = minor interaction post mitigation, addressed as a subject of note and not evaluated further in the EIS
2 = interaction to be considered further in the EIS

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20-Oct-11

TABLE 2C-2
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

EFFECTS INTERACTION MATRIX - MILNE INLET TOTE ROAD

					KEY INDICATORS			ATMOSPHERIC			TERRESTRIAL			FRESHWATER AQUATIC LIFE AND HABITAT			MARINE			SOCIO-ECONOMIC														
					Air quality	Noise	Vibration	Sensitive Landforms	Soil	Vegetation health	Plants important to Inuit, where they occur	Biodiversity	Peregrine falcon	Red-throated loon	Elder	Snow geese	Caribou	Hydrology	Water and sediment quality	Freshwater fish and fish habitat	Physical oceanography	Chemical oceanography	Sea ice	Port site marine habitat	Coastal fish communities	Ringed seal	Bowhead whale	Beluga whale	Narwhal	Walrus	Polar bear	Marine birds	Cultural resources (archaeological sites)	
Tote Road - Facility or Activity																																		
Construction	Laydown areas (temporary): cleared land for storage of construction materials.	0	0	0	1	2	2	2	2	0	1	1	1	0	1	1	1	1	1	1													2	
	Vegetation clearing/ stripping: for footprint of all facilities and roads.	1	1	0	1	2	2	2	2	0	1	1	2	2	1	1	1	1	1	1													2	
	Aggregate sources/ borrow sites (permanent): drilling, blasting, extraction, hauling.	2	2	2	2	2	2	2	2	1	2	2	2	2	1	1	1	1	1	1													2	
	Earth moving: excavation, drilling, grading, trenching, backfilling.	2	2	2	2	2	2	2	2	0	1	1	1	1	1	1	1	1	1	1													2	
	Explosives storage and use (temporary): construction of a temporary facility, blasting.	2	2	2	1	2	2	2	2	0	0	0	0	0	0	0	0	0	1	2	2												2	
	Equipment and vehicle use: heavy machinery and trucks.	2	2	1	0	2	2	2	2	1	1	1	1	1	1	1	1	1	0	1	0													2
	Construction of roads: including riparian clearing, dust suppression, and bridge and culvert installation.	2	2	1	2	2	2	2	2	1	1	1	2	1	1	2	1	1	2	2	2													2
	Road usage.	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	2													1
	Spills and emergency management.	1	1	0	1	1	1	1	1	0	1	1	1	1	0	1	1	0	0	2	1													0.2
	Hazardous materials handling and storage.	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	2	0													
Water use and management: ditching, ponding, berms, snow clearing and stockpiling.	1	1	0	2	2	2	1	2	0	1	1	1	1	1	1	1	1	2	2	2														2
Operation- Occasional Use																																		
	Road usage.	2	2	0	1	0	1	0	1	1	1	1	1	1	1	1	1	2	0	1	2													1
	Spills and emergency management.	0	0	0	0	1	1	0	1	0	1	1	1	1	0	1	1	0	0	2	0													0.2
	Hazardous materials handling and storage.	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0													0
Water use and management including snow management and stockpiling.	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	2	2														0
Decommissioning																																		
	Facility/ road dismantling: including dismantling and removal of infrastructure, demolition, drainage restoration, excavation and backfilling/ plugging, waste management, and ground restoration.	2	2	1	2	2	2	1	2	1	2	2	2	2	2	2	1		2	1	2													1

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20-Oct-11

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

EFFECTS INTERACTION MATRIX - MINE SITE

		KEY INDICATORS	ATMOSPHERIC		TERRESTRIAL		FRESHWATER AQUATIC LIFE AND HABITAT		MARINE		SOCIO-ECONOMIC																				
		Air quality	Noise	Vibration	Sensitive Landforms	Soil	Vegetation health	Plants important to Inuit, where they occur	Biodiversity	Peregrine falcon	Red-throated loon	Elder	Snow geese	Caribou	Hydrology	Water and sediment quality	Freshwater fish and fish habitat	Physical oceanography	Chemical oceanography	Sea ice	Port site marine habitat	Coastal fish communities	Ringed seal	Bowhead whale	Beluga whale	Narwhal	Walrus	Polar bear	Marine birds	Cultural resources (archaeological sites)	
Mine Site - Facility or Activity																															
Construction	Open pit mining: stripping, excavation, drilling, blasting, heavy machinery.	2	2	1	0	2	2	2	2	1	1	1	1	2	2	2	2													0	
	Ore crushing: grading, construction of facility.	2	2	1	0	2	2	2	2	1	1	1	1	1	0	2	0													0	
	Waste rock management facilities: earth moving, heavy machinery use, grading.	2	2	1	0	2	2	2	2	1	1	1	1	1	2	2	2													0	
	Laydown areas (temporary): cleared land for storage of construction materials.	1	1	0	1	2	2	2	2	1	1	1	1	1	1	1	1													0	
	Camp and related facilities (permanent): construction of Project buildings.	1	1	1	0	2	2	2	2	1	1	1	1	2	2	2	1													1	
	Aggregate sources/ borrow sites (permanent): drilling, blasting, extraction, hauling.	2	2	2	2	2	2	2	2	1	1	1	1	2	1	2	1													0	
	Airstrip (permanent): land clearing., blasting, installation of lights.	1	1	1	1	2	2	2	2	1	1	1	2	2	1	1	1													0	
	Communications systems (permanent): installation of towers.	1	1	0	1	2	2	1	2	1	1	1	1	1	1	0	1	1												0	
	Fuel storage and distribution (permanent): construction of bermed facility, operation of trucks.	1	1	0	2	2	1	1	1	1	1	1	1	1	0	0	2	1												0	
	Concrete production (temporary): facility, production, waste.	1	1	0	0	2	1	1	1	0	1	1	1	1	0	2	2	2												0	
	Equipment and vehicle use: heavy machinery and trucks.	2	2	1	0	2	2	2	2	1	1	1	1	2	0	1	0														1
	Vegetation clearing/ stripping: for footprint of all facilities and roads.	1	1	0	1	2	2	2	2	1	2	2	2	2	2	1	1	1													1
	Explosives storage and use (temporary): construction of a temporary facility, blasting.	2	2	2	1	2	2	2	2	0	0	0	0	0	0	0	2	2													0
	Earth moving: excavation, drilling, grading, trenching, backfilling.	2	2	2	2	2	2	2	2	1	2	2	2	2	1	1	1	1													0
	Spills and emergency management	1	1	0	1	1	1	1	1	0	1	1	1	1	0	0	2	1													0-3
	Waste management: garbage and sewage waste facilities.	2	1	1	2	2	2	2	2	0	0	0	0	0	0	1	2	2													0
	Hazardous materials handling and storage	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	2	0													0
Construction of roads: land clearing and road installation, water body crossings.	2	2	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2													0	
Power generation and distribution: installation of surface structures, land clearing.	2	2	1	2	2	2	2	2	1	1	1	1	1	1	0	1	0													0	
Water use and management: ditching, ponding, berms, snow clearing and stockpiling.	1	1	0	2	2	2	2	2	0	1	1	1	1	1	2	2	2													0	
																														0	
Operation	Camp and related facilities.	2	2	0	1	0	1	0	0	1	2	2	2	2	2	2	1														0
	Open pit mining including blasting.	2	2	0	1	1	1	0	1	2	1	1	1	2	2	2	2														0
	Ore stockpiles and transport.	2	2	0	2	2	2	1	0	1	1	1	1	1	2	2	2														0
	Ore crushing.	2	2	0	0	2	2	1	1	1	1	1	1	1	0	2	2														0
	Airstrip.	1	1	0	0	0	1	0	0	0	1	1	2	2	0	1	0														0
	Communications systems.	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	0														0
	Fuel storage and distribution.	0	0	0	0	0	0	0	0	1	1	1	1	0	0	2	0														0
	Equipment, vehicle and aircraft use.	2	2	0	1	0	1	0	0	1	1	1	1	2	0	1	0														0
	Barge and ship traffic.	2	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0														0
	Waste and wastewater management.	2	1	0	0	2	1	0	0	0	0	0	0	0	0	2	2	2													0
	Spills and emergency management.	0	0	0	0	1	1	0	1	0	1	1	1	1	0	0	2	0													0
	Hazardous materials handling and storage.	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	2	0													0
	Road usage.	2	2	1	1	1	1	1	1	1	1	1	1	2	0	1	0														0
	Power generation and distribution.	2	2	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0													0
	Water use and management including snow management and stockpiling.	1	1	0	1	1	1	0	1	0	0	0	0	0	1	1	2	2													0
																															0
	Decommissioning																														
Mine site facilities: including open pit closure, waste rock storage facility restoration, dismantling and removal of infrastructure, drainage restoration, backfilling/plugging, waste management, ground restoration and revegetation.		2	2	1	2	1	1	1	1	1	2	2	2	1	1	1	1														1

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Impact Ratings:

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BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

		KEY INDICATORS																															
		ATMOSPHERIC			TERRESTRIAL						FRESHWATER AQUATIC LIFE AND HABITAT																						
		Air quality	Noise	Vibration	Sensitive Landforms	Soil	Vegetation health	Plants important to Inuit, where they occur	Biodiversity	Peregrine falcon	Red-throated loon	Elder	Snow geese	Caribou	Hydrology	Water and sediment quality	Freshwater fish and fish habitat	MARINE	Physical oceanography	Chemical oceanography	Sea ice	Port site marine habitat	Coastal fish communities	Ringed seal	Bowhead whale	Beluga whale	Narwhal	Walrus	Polar bear	Marine birds	SOCIO-ECONOMIC	Cultural resources (archaeological sites)	
	Railway - Facility or Activity																																
Construction	Railway construction: excavation, blasting, grading, water crossings.	2	2	2		2	2	2	2	2	2	2	2	2		2	2	2														2	
	Vegetation clearing/ stripping: for footprint of all facilities and roads.	1	1	0		1	2	2	2	2	0	1	1	2	2		1	1	1													2	
	Laydown areas (temporary): cleared land for storage of construction materials.	1	1	0		1	2	2	2	2	0	1	1	1	1		1	1	1													2	
	Earth moving: excavation, drilling, grading, trenching, backfilling, tunnelling.	2	2	2		2	2	2	2	2	0	1	1	1	1		1	1	1													2	
	Aggregate sources/ borrow sites (permanent): drilling, blasting, extraction, hauling.	2	2	2		2	2	2	2	2	1	2	2	2	1		1	2	1													2	
	Explosives storage and use (temporary): construction of a temporary facility, blasting.	2	2	2		1	2	2	2	2	0	0	0	0	1		0	2	2													2	
	Airstrips (permanent): land clearing, installation of lights.	1	1	1		1	2	2	2	2	1	1	2	2	1		1	1	1													2	
	Construction of roads.	2	2	1		2	2	2	2	2	1	1	1	2	2		2	1	2													2	
	Equipment and vehicle use: heavy machinery and trucks.	2	2	1		0	1	2	1	1	1	1	1	1	1		0	1	0													2	
	Fuel storage and distribution (permanent): construction of bermed facility, operation of trucks.	1	1	0		2	2	1	1	1	0	1	1	1	1		0	2	1														2
	Concrete production (temporary): facility, production, waste.	1	1	0		0	2	1	1	1	0	1	1	1	1		2	2	2														0
	Communications systems (permanent): installation of towers.	1	1	0		1	2	2	1	2	1	1	1	1	1		0	1	1														2
	Camp and related facilities (permanent): construction of Project buildings.	1	1	1		0	2	2	2	2	1	2	2	2	2		2	2	1														0
	Waste management: garbage and sewage waste facilities.	2	1	1		2	2	2	2	2	1	1	1	1	1		1	2	2														0
	Spills and emergency management.	1	1	0		1	1	1	1	1	0	1	1	1	1		0	2	1														0-2
	Hazardous materials handling and storage.	1	1	0		1	1	2	1	2	0	0	0	0	1		0	2	0														0
	Power generation and distribution.	2	2	1		0	0	2	0	0	1	1	1	1	1		0	1	0														0
Water use and management: ditching, ponding, berms.	1	1	0		2	2	2	2	2	0	1	1	1	1		2	2	2														2	
Snow clearing and stockpiling: collection, storage, runoff.	1	1	0		1	1	1	1	1	0	0	0	0	2		1	2	1														2	
Operation	Railway: 2 trips daily.	2																															

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TABLE 2C-5

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

EFFECTS INTERACTION MATRIX - STEENSBY PORT

		KEY INDICATORS		ATMOSPHERIC		TERRESTRIAL		FRESHWATER AQUATIC LIFE AND HABITAT		MARINE		SOCIO-ECONOMIC																		
		Air quality	Noise	Vibration	Sensitive Landforms	Soil	Vegetation health	Plants important to Inuit, where they occur	Biodiversity	Peregrine falcon	Red-throated loon	Elder	Snow geese	Caribou	Hydrology	Water and sediment quality	Freshwater fish and fish habitat	Physical oceanography	Chemical oceanography	Sea ice	Port site marine habitat	Coastal fish communities	Ringed seal	Bowhead whale	Beluga whale	Narwhal	Walrus	Polar bear	Marine birds	Cultural resources (archaeological sites)
Steenby Port - Facility or Activity																														
Construction	Laydown areas (temporary): cleared land for storage of construction materials.	1	1	0			1	2	2	2	2	1	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	2	
	Vegetation clearing/ stripping: for footprint of all facilities and roads.	1	1	0			1	2	2	2	2	1	2	2	2	1	1	1	0	1	0	1	0	0	0	0	0	0	2	
	Earth moving: excavation, drilling, grading, trenching, backfilling.	2	2	2			2	2	2	2	2	1	2	2	2	1	1	1	0	1	0	1	0	0	0	0	0	0	2	
	Ore and freight dock: piling, blasting, dredging, extraction, drilling.	2	2	2			2	2	0	2	0	1	2	2	2	1	0	1	2	1	2	2	2	2	2	2	2	2	2	
	Aggregate sources/ borrow sites (permanent): drilling, blasting, extraction, hauling.	2	2	2			2	2	2	2	2	1	2	2	2	1	1	2	0	0	0	0	0	0	0	0	0	0	2	
	Explosives storage and use (temporary): construction of a temporary facility, blasting.	2	2	2			1	2	2	2	2	1	1	1	1	1	0	2	0	2	0	0	0	0	0	0	0	0	2	
	Airstrip and helipad (permanent): land clearing, installation of lights, and land use.	1	1	1			1	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	2	2	2	2	2	2	2	
	Fuel storage and distribution (permanent): construction of bermed facility, operation of trucks.	1	1	0			2	2	1	1	1	1	2	2	2	1	0	2	1	0	0	0	0	0	0	0	0	0	2	
	Concrete production (temporary): facility, production, waste.	1	1	0			0	2	1	1	1	1	1	1	1	1	1	2	0	1	0	0	0	0	0	0	0	0	0	
	Equipment and vehicle use: heavy machinery and trucks.	2	2	1			0	2	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	2	
	Barge and ship traffic: 1 barge per week during open water.	1	1	1			0	0	0	0	0	1	2	2	2	0	0	0	0	2	0	2	2	2	2	2	2	2	0	
	Camp and related facilities (permanent): construction of Project buildings.	1	1	1			0	2	2	2	2	2	2	2	2	1	2	2	1	0	0	0	0	0	0	0	2	0	1	
	Communications systems (permanent): installation of towers.	1	1	0			1	1	2	1	2	1	1	2	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	
	Waste management: garbage and sewage waste facilities, including incinerator use.	2	1	1			2	2	2	2	2	0	0	0	0	0	1	2	2	0	1	0	1	1	1	1	1	2	1	
	Spills and emergency management.	1	1	0			1	1	1	1	1	0	1	1	1	1	0	2	2	1	0	2	2	2	2	2	2	2	0-2	
	Hazardous materials handling and storage.	1	1	0			1	1	1	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
	Construction of roads.	2	2	1			2	2	2	2	1	2	2	2	2	2	2	1	2	0	0	0	0	0	0	0	0	0	2	
Power generation and distribution.	2	2	1			0	0	2	1	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Water use and management: water supply intake, pump/house, pipeline, ditching, ponding, berms, and snow management and stockpiling.	1	1	0			2	1	2	1	1	0	1	1	1	1	0	2	2	2	0	1	0	0	0	0	0	0	2		
Snow clearing and stockpiling: collection, storage, runoff.	1	1	0			0	1	1	1	1	0	0	0	0	1	1	2	1	0	1	0	0	0	0	0	0	0	2		
Operation	Camp and related facilities.	2	2	0			1	0	0	0	0	1	2	2	2	1	2	2	1	0	0	0	0	0	0	0	0	2	1	
	Ore stockpiles and transport.	2	2	0			2	1	1	1	0	1	2	2	2	0	2	2	2	0	2	1	1	2	0	0	0	0	0	
	Ore and freight dock: one boat every two days, all year.	2	2	0			0	0	0	0	0	1	2	2	2	0	0	1	0	2	2	2	2	2	2	2	2	0	0	
	Dock ice management (winter).	2	2	2			0	0	0	0	0	0	0	0	0	1	0	1	0	2	2	2	2	2	2	2	2	0	0	
	Airstrip.	1	1	0			0	0	1	1	0	2	2	2	2	2	0	1	0	0	0	0	1	2	1	1	1	2	1	
	Communications systems.	0	0	0			0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	
	Fuel storage and distribution.	0	0	0			0	0	0	0	0	1	2	2	2	0	0	2	0	0	0	0	0	0	0	0	0	1	0	
	Equipment, vehicle and aircraft use.	2	2	0			1	0	1	0	0	1	1	1	1	0	0	1	0	0	0	0	2	1	1	1	2	2	1	
	Barge and ship traffic (noise).	2	2	0			0	0	0	0	0	1	2	2	2	0	0	0	1	0	2	0	2	2	2	2	2	2	0	
	Waste and wastewater management.	2	1	0			0	1	1	0	0	0	0	0	0	0	2	2	2	2	2	1	1	1	1	1	2	1	0	
	Spills and emergency management.	0	0	0			0	1	0	0	0	0	1	1	1	0	0	2	0	2	0	2	2	2	2	2	2	2	0-2	
	Hazardous materials handling and storage.	1	1	0			0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
Power generation and distribution.	2	2	0			0	0	1	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Water use and management including snow management and stockpiling.	1	1	0			1	1	1	0	0	0	1	1	1	0	1	2	2	0	1	0	0	0	0	0	0	0	0		
Decommissioning	Terrestrial facilities dismantling: dismantling of infrastructure, demolition, drainage restoration, excavation and backfilling/plugging, waste management, and ground restoration.	1	1	0			2	1	2	1	1	1	2	2	2	0	2	1	2	0	0	0	0	0	0	0	0	0	1	
	Marine facility dismantling: dismantling and removal of infrastructure.	1	1	2			0	1	0	0	0	0	1	1	1	0	0	0	2	0	2	0	1	0	1	1	1	1	0	
	Sealift removal of equipment and materials.	1	1	0			0	0	0	0	0	0	2	2	2	0	0	0	0	1	0	1	1	2	2	2	2	2	0	

Impact Ratings:
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1 = minor interaction post mitigation, addressed as a subject of note and not evaluated further in the EIS
2 = interaction to be considered further in the EIS

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TABLE 2C-6
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT
EFFECTS INTERACTION MATRIX - SHIPPING

		KEY INDICATORS			ATMOSPHERIC			TERRESTRIAL			FRESHWATER AQUATIC LIFE AND HABITAT			MARINE			SOCIO-ECONOMIC		
		Air quality			Noise			Vibration			Sensitive Landforms			Soil			Vegetation health; wildlife habitat		
		Plants important to Inuit, where they occur			Biodiversity			Peregrine falcon			Red-throated loon			Elder			Snow geese		
		Caribou			Hydrology			Water and sediment quality			Freshwater fish and fish habitat			Physical oceanography			Chemical oceanography		
		Sea ice			Port site marine habitat			Coastal fish communities			Ringed seal			Bowhead whale			Beluga whale		
		Nanwhal			Walrus			Polar bear			Marine birds			Archaeological and cultural historic sites					
Shipping - Facility or Activity																			
Construction	Sealift of equipment and materials to site.																		
	barges to Milne Port (open water only)	1	2	0															
	barges to Steensby Inlet port (open water only)	1	2	0															
Operation	Ore shipment off-site to smelters.																		
	ships from Milne Port (open water)	2	2	0															
	ships from Steensby Port (open water)	2	2	0															
	icebreaking ships from Steensby Inlet (winter)	2	2	0															
Decommissioning	Sealift removal of equipment and materials.	1	1	0															

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TABLE 2C-7

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

INTERACTION MATRIX - SOCIO-ECONOMIC COMPONENTS

Project Component	SOCIO-ECONOMIC	Population Demographics	Education & Training	Livelihood and Employment	Economic development & self-reliance	Human Health & Well-Being	Community Infrastructure & Public Service	Cultural Resources (archaeology)	Resources and Land Use	Cultural Well-being	Contracting & business opportunities	Benefits, Royalty & Taxation	Governance & Leadership
Jobs													
Employment		2	2	2	2	2	2	0	2	1	1	0	0
Payment of wages and salary		1	2	2	2	2	1	0	2	1	2	0	0
Training													
Orientation and training		0	2	0	2	1	1	0	0	1	0	0	0
Procurement													
Procurement of goods and services from RSA/LSA		1	0	0	2	0	0	0	0	1	2	0	0
Project Construction and Operations													
Milne Port		0	0	0	0	0	0	2	2	0	0	0	0
Milne Inlet Tote Road		0	0	0	0	0	1	2	2	0	0	0	0
Mine Site		0	0	0	0	0	0	2	2	0	0	0	0
Railway		0	0	0	0	0	0	2	2	0	0	0	0
Steensby Port		0	0	0	0	0	0	2	2	0	0	0	0
Shipping		0	0	0	1	0	0	2	2	0	0	0	0
Temporary closure		0	0	1	1	0	0	1	1	1	0	0	0
Final closure		0	0	1	1	0	0	2	2	0	0	0	0
Payment of taxes and royalties													
Payments to government		1	0	0	2	0	1	0	0	0	0	2	1
Payments to private organizations (NTI, QIA)		1	0	0	2	0	0	0	0	0	0	1	0

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