

## Table ECM - 2 Environmental Component Follow-up Monitoring

**Whites Point Quarry and Marine Table**  
**Table ECM - 1 Summary Table**  
**Environmental Component Mitigation**

Environmental Component	Project Phase		Project Component		Proposed Mitigation	Reference Paragraph
	Construction	Operation	Land	Marine		
<b>Physical Environment</b> <b>Climate</b> Greenhouse Gas	X	X	X		<ul style="list-style-type: none"> <li>Creation of a permanent environmental preservation zone of approx. 80 acres</li> <li>Maintaining over 300 acres of land surrounding the quarry property in managed forest land</li> <li>Incremental forest clearing and reclamation procedures to maximize carbon dioxide uptake and oxygen production</li> <li>Reduction of greenhouse gas emissions by chipping and composting wood fibre from land clearing activities rather than burning</li> <li>Heavy operational equipment diesel engines meeting EPA Tier 3 emission specifications</li> <li>Recycling of waste oil and lubricants for heating buildings</li> <li>Stationary equipment using electrical energy</li> <li>Transport of quarry products directly by ship once per week rather than by ground transportation to port</li> </ul>	para. 9.1.1
	X	X	X			
		X	X			
	X	X	X			
		X	X			
		X	X			
		X		X		
<b>Geology</b> Basalt Rock		X	X		<ul style="list-style-type: none"> <li>Production of high grade aggregate for value added construction industry products</li> <li>Rock extraction will not be carried out below sea level to eliminate the possibility of salt water intrusion</li> </ul>	para. 9.1.2
		X	X			

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<i>Physical Environment</i> <b>Geology</b> Basalt Rock (Cont'd)		X	X		<ul style="list-style-type: none"> <li>Rock extraction will not be carried out below the contact of the middle and upper flow units</li> <li>Quarrying will be conducted to use surface water drainage and avoid dewatering by pumping</li> <li>A security fence will be installed along public property lines for public safety</li> </ul>	para. 9.1.2
		X	X			
	X	X	X			
<b>Hydrogeology</b> Groundwater		X	X		<ul style="list-style-type: none"> <li>Quarrying and adjacent water wells will occur in different geological horizons or hydro-stratigraphic units</li> <li>Adjacent water wells will be located hydraulically down gradient of the quarry and/or on opposite sides of the ground water divide</li> <li>Recharge and discharge areas for the quarry and adjacent water wells will be located in different watersheds</li> <li>Quarrying will be carried out above the natural water table and will not require mine dewatering and pumping or associated ground-water withdrawal or drawdown</li> <li>Quarrying will be a non-consumptive water use as only water that enters the quarry watershed will be used</li> <li>Construction aggregate operations have been used to enhance aquifer recharge via artificial surface recharge of the local groundwater regime</li> </ul>	para. 9.1.3
		X	X			
		X	X			
		X	X			
		X	X			
		X	X			

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<i>Physical Environment</i> <b>Hydrogeology</b> Groundwater	X		X		<ul style="list-style-type: none"> <li>Bilcon of Nova Scotia Corporation will conduct a pre-blast survey of adjacent water wells in the immediate area of the quarry in consultation with the NSDEL</li> <li>Bilcon of Nova Scotia Corporation will replace at their expense any existing water supply proven to be lost or damaged as a result of their quarrying operation</li> </ul>	para. 9.1.3
		X	X			
<b>Surficial Geology &amp; Soils</b> Soils	X	X	X		<ul style="list-style-type: none"> <li>Conserving soil resources with a permanent environmental preservation zone around the quarry site with approximately 80 acres in permanent vegetative cover to reduce runoff and potential soil loss from erosion</li> <li>Construction of an organic disposal area for clearing and grubbing materials before site construction begins</li> <li>Sediment and organic disposal areas will be dyked to control soil erosion and dykes will receive erosion control measures during construction</li> <li>Storage and recycling of waste materials (sediments and organics) for reclamation purposes</li> <li>Incremental forest clearing and reclamation to minimize potential soil loss from erosion</li> <li>Mixing of composted organics with mineral sediments for a healthy, productive, soil regime for reclamation</li> </ul>	para. 9.1.4
	X	X	X			
	X		X			
	X	X	X			
	X	X	X			
	X	X	X			

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<i>Physical Environment</i> Little River Watershed Drainage	X	X	X		<ul style="list-style-type: none"> <li>All of the Little River watershed on the quarry property, approximately 21 acres, will be within an environmental preservation zone and no quarrying will take place in the Little River watershed</li> <li>Surface water drainage from the quarry compound area within the Little River watershed will be routed toward the active quarry area</li> </ul>	para 9.1.5
On-site Surface Water Drainage	X	X	X		<ul style="list-style-type: none"> <li>Prior to land construction, sediment retention ponds will be constructed to retain surface water runoff from disturbed land areas</li> <li>Berms for sediment retention ponds will receive erosion control measures during construction to reduce soil erosion</li> <li>Water overflows from the sediment retention ponds will drain into a constructed wetland to provide greater retention time before entering the Bay of Fundy</li> <li>Drainage channels will be constructed as required to direct surface water runoff to the sediment retention ponds</li> </ul>	para 9.1.6
Wetlands	X	X	X		<ul style="list-style-type: none"> <li>Wetlands on the quarry site identified by the NSDNR wetlands database will be included in the permanent environmental preservation zone</li> <li>Intermittent surface water flow will be maintained to the “coastal bog” and the environmental preservation zone expanded in the bog area to conserve this natural wetland habitat</li> </ul>	para 9.1.6  para 9.2.1

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<i>Physical Environment</i> Physical Oceanography Site Location		X		X	<ul style="list-style-type: none"> <li>The location of the marine terminal will provide a short distance and direct route to and from the designated in bound/outbound shipping lanes with minimal shipping penetration into the outer Bay of Fundy</li> <li>The location of the marine terminal will be along a homogenous section of the coastline without islands or other physical navigational hazards</li> <li>The bathymetry of the marine terminal location provides adequate water depth without underwater blasting, dredging or dredge spoil disposal</li> <li>The location of the marine terminal will avoid the possible archaeological sensitive underwater ridge extending from Sandy Cove west during either construction or subsequent shipping activities</li> <li>The marine terminal will be located in an area of practically non-existent seismic activity</li> <li>Future effect of sea level rise on the marine terminal will be minimal, since this area of coastline has a “low sensitivity in dex” and will remain relatively stable even if sea level rises as predicted</li> </ul>	para. 9.1.7
	X	X		X		
	X	X		X		
	X	X		X		
	X	X		X		
			X			
Water Quality	X			X	<ul style="list-style-type: none"> <li>The bottom of the Bay in the location of the marine terminal is mainly exposed bedrock affording good foundation conditions with little sediment deposits for resuspension during marine construction activities</li> </ul>	para. 9.1.7

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<i>Physical Environment</i> <b>Physical Oceanography</b> Water Quality	X			X	<ul style="list-style-type: none"> <li>Bottom sediment contaminants including metals, PCBs, PAHs, and pesticides are within CCME Guidelines reducing the possibility of contaminate resuspension during marine construction activities</li> <li>If unexpected turbidity conditions develop during installation of the pipe piles for the marine terminal exceeding CCME Guidelines, controls such as silt curtains will be implemented</li> </ul>	para. 9.1.7
	X			X		
<b>Tides and Currents</b>		X		X	<ul style="list-style-type: none"> <li>The pipe pile construction method for the marine terminal will have minimal effect on intertidal and nearshore tides and currents allowing practically unobstructed movement and flows with no infilling</li> </ul>	para 9.1.7
<b>Air Quality</b> Particulate Emissions		X	X		<ul style="list-style-type: none"> <li>Quarry products will be transported by water, thereby eliminating heavy trucks travelling and raising dust on rural/residential roads</li> <li>A paved access road from Highway 217 to the quarry site will be constructed thereby practically eliminating dust generated by employee and delivery vehicles commonly associated with gravel access roads</li> <li>Water sprays will be used to control dust on quarry roads and work areas caused by quarry mobile equipment and on stockpiles</li> </ul>	para. 9.1.8
		X	X			
		X	X			

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<b>Physical Environment</b> <b>Air Quality</b> Particulate Emissions (cont'd)		X	X		<ul style="list-style-type: none"> <li>• The processing plant will be located 1000m from the nearest residence with processing equipment enclosed whenever feasible to control fugitive dust</li> <li>• Vertical separation and vegetative buffer zones will further separate the processing plant from adjacent residences</li> <li>• Quarry products will be washed during processing with state of the art mist systems</li> <li>• Load out tunnels will be used to reduce product handling and associated dust generation; conveyors will be hooded to reduce fugitive dust</li> </ul>	para. 9.1.8
		X	X			
		X	X			
		X	X			
<b>Noise and Vibration</b> Blasting		X	X		<ul style="list-style-type: none"> <li>• Infrequent blasting is proposed to be once every two weeks during production for a duration of less than one second per blast event</li> <li>• Blasting will not be conducted on cloudy or overcast days to minimize sound propagation</li> <li>• No blasting will be conducted within 800 m of residential structures not located on quarry property without written permission of the property owner</li> <li>• An environmental preservation zone will be maintained around the perimeter of the quarry to further reduce sound levels by absorption from blasting activities</li> <li>• Noise and vibration from blasting will meet the requirements set forth in the NSDEL “Pit and Quarry Guidelines”</li> </ul>	para. 9.1.9, para. 9.1.10, para. 9.1.11
		X	X			
		X	X			
		X	X			
		X	X			



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<i>Physical Environment</i> <b>Noise and Vibration</b> Processing Plant		X	X		<ul style="list-style-type: none"> <li>• The processing plant will be located 1000m from the nearest residence with processing equipment enclosed whenever feasible to buffer sound levels at the source &amp; by attenuation</li> <li>• A minimum 30m wide environmental preservation zone will be maintained around the perimeter of the quarry property to further reduce sound levels by absorption</li> <li>• A vertical separation of approximately 60m will be maintained between the processing plant and the nearest residence to dissipate sound waves upward</li> <li>• Equipment such as truck bodies and screens will be rubberized to reduce sound levels when loading and screening rock products</li> <li>• Noise and vibration from the quarry will meet the requirements set forth in the NSDEL “Pit and Quarry Guidelines” at the quarry property line</li> </ul>	para. 9.1.9, para. 9.1.10, para. 9.1.11
		X	X			
		X	X			
		X	X			
		X	X			
Ship Loading		X	X		<ul style="list-style-type: none"> <li>• A horizontal separation distance of over 1.5km will be maintained between the ship loading activity and the nearest residence with vegetative buffer zones to further reduce sound levels by attenuation and absorption</li> <li>• Infrequent ship loading is proposed once per week during production for a duration of approximately 8 hours using double-hulled vessels to minimize noise during loading</li> </ul>	
		X	X			

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<i>Physical Environment</i> <b>Light</b> Artificial	X	X	X	X	<ul style="list-style-type: none"> <li>Adjacent residences will receive no direct light from quarry lighting infrastructure due to horizontal and vertical separation and visual buffers</li> <li>Quarry production will be concentrated during seasons of longer daylight hours, thereby reducing requirements for artificial light and for energy savings</li> <li>Except for regulatory navigational lighting, quarry lighting will be placed in buildings or be shielded whenever feasible to reduce “light spill”</li> </ul>	para. 9.1.12
<i>Biological Environment</i> <b>Terrestrial Ecology</b> Habitat	X	X	X		<ul style="list-style-type: none"> <li>Approximately 80 acres of quarry land is proposed to be conserved and managed as a permanent environmental preservation zone</li> <li>Over 300 acres of non-quarry land within the same ecosystem is proposed to be managed as forest/wildlife resource land for the 50 year life of the quarry project</li> <li>Incremental forest clearing and reclamation will be carried out during the 50 year life of the quarry project to maintain habitat stability</li> <li>Construction of sediment retention ponds and associated constructed wetlands will create habitat diversity</li> <li>In accordance with the Migratory Bird Protection Act, habitat alteration from clearing activities will generally take place during late fall and winter to avoid nesting periods and spring and fall migrations</li> </ul>	para. 9.2.1
	X	X	X			
	X	X	X			
	X	X	X			

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<i>Biological Environment</i> Terrestrial Ecology Habitat (cont'd)		X	X		<ul style="list-style-type: none"> <li>To reduce the possibility of migratory bird collisions with lighted structures, night lighting will be kept to a minimum and shielded whenever possible to direct light downward</li> </ul>	para. 9.2.1
Species at Risk	X	X	X		<ul style="list-style-type: none"> <li>Three provincially designated Flora species at risk will be permanently preserved in an environmental preservation zone for the 50 year life of the quarry project</li> <li>No federal or provincial designated vertebrate species at risk are expected to breed on the quarry site - no mitigation proposed</li> <li>Preservation and creation of wetland habitats will provide potential habitat for some Odonata species at risk</li> <li>Maintaining early successional stages of vegetation on dykelands will provide potential habitat for some Lepidoptera species at risk</li> <li>All toxic substances will be stored appropriately and not be accessible to wildlife</li> </ul>	para. 9.2.1
Aquatic Ecology On-site Freshwater	X	X	X		<ul style="list-style-type: none"> <li>The two watercourses at the north and south property lines of the quarry will be included in the environmental preservation zone</li> <li>The watercourse in the active quarry was determined to be not suitable fish habitat by DFO, however, surface water flow to the coastal bog will be maintained</li> <li>All outflows from the sediment retention ponds and/or constructed wetlands into the Bay of Fundy will meet the NSDEL "Pit and Quarry Guidelines" for Total Suspended Solids and pH</li> </ul>	para. 9.2.2

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<i>Biological Environment</i> <b>Aquatic Ecology</b> Marine Intertidal Zone	X	X		X	<ul style="list-style-type: none"> <li>The conveyor system for ship loading quarry products will be designed to span the majority of the intertidal zone with only one group of pipe piles installed directly in the intertidal zone affecting .001 acres of intertidal bottom habitat</li> <li>A fish habitat compensation plan has been approved in principle by DFO at three times the loss of bottom habitat in the intertidal zone</li> <li>Installation of the pipe piles will be conducted from the shore at low tide by socket drilling, producing aggregate size waste material with minimal fines</li> <li>The conveyor over the intertidal zone will be hooded to control dust and equipped with spill containment to catch any product from entering the intertidal zone</li> <li>The surface of selected pipe piles will be equipped with wire cages to enhance pelagic fish food sources</li> </ul>	para. 9.2.2
		X		X		
	X			X		
		X		X		
		X		X		
Coastal/Nearshore Marine Habitat	X	X		X	<ul style="list-style-type: none"> <li>The foundation system selected for the ship loader and mooring dolphins in nearshore waters will be pipe piles anchored to the bedrock bottom resulting in minimal effect on bottom habitat of approximately .008 acres</li> <li>A fish habitat compensation plan has been approved in principle by DFO at three times the loss of bottom habitat in the nearshore waters and with pelagic fish food enhancements</li> <li>Installation of the marine terminal infrastructure will be done from shore and floating platforms to minimize disturbance to the nearshore bottom habitat</li> </ul>	para. 9.2.3
		X		X		
	X			X		

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<i>Biological Environment</i> Coastal/Nearshore Marine Habitat (cont'd)	X			X	<ul style="list-style-type: none"> <li>• Socket drilling for anchoring the pipe piles will be done to produce aggregate size waste material with minimal fines and turbidity</li> <li>• During the infrequent, once per week, vessel arrival and departure, a trained observer will be stationed on the ship loader and if marine mammals or waterbirds are sighted, their location will be communicated to the ship's captain</li> <li>• The loading of vessels at night will be avoided whenever possible to minimize the possibility of lights attracting coastal migrant waterbirds and subsequent collisions</li> </ul>	para. 9.2.3
		X		X		
		X		X		
Species at Risk	X	X		X	<ul style="list-style-type: none"> <li>• Three federally designated fish species at risk may frequent nearshore waters at the marine terminal: Bilcon of Nova Scotia Corporation will work with the appropriate Recovery Teams in their efforts to re-establish fish species at risk populations such as the inner Bay of Fundy Atlantic salmon, Atlantic cod, and striped bass</li> <li>• A fish habitat compensation plan has been approved in principal by DFO for intertidal and nearshore bottom habitat at three times the direct loss and for alteration of pelagic fish habitat</li> <li>• Two federally designated waterfowl species at risk may occur in nearshore waters at the marine terminal: Bilcon of Nova Scotia Corporation will continue to coordinate with the Canadian Wildlife Service in their efforts to re-establish waterfowl species at risk populations such as the Harlequin duck and Barrow's goldeneye</li> </ul>	para. 9.2.5, para.. 9.2.6
		X		X		para. 9.2.7
		X		X		

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<i>Biological Environment</i> Species at Risk (cont'd)		X		X	<ul style="list-style-type: none"> <li>One federally designated marine reptile species at risk could occur in nearshore waters at the marine terminal: Bilcon of Nova Scotia Corporation will coordinate any sightings of leatherback turtles to the Nova Scotia Leatherback Turtle Working Group</li> </ul>	para. 9.2.8
<b>Blasting</b> Fish Habitat	X	X		X	<ul style="list-style-type: none"> <li>Blasting will be guided by “Bilcon of Nova Scotia Corporation’s ‘Blasting Protocol’” and adhere to the Department of Fisheries and Oceans “Guidelines for the Use of Explosives in or Near Canadian Fisheries Waters”</li> </ul>	para. 9.2.9 para. 9.2.10
		X		X	<ul style="list-style-type: none"> <li>Blasting will be conducted infrequently, once every two weeks during production, with a duration of each blast event of less than one second, blasts will be conducted when no atmospheric inversions are present and as close to low tide as feasible to maximize setback distances from the blast and fish habitat</li> </ul>	
		X		X	<ul style="list-style-type: none"> <li>An additional mitigative measure will be adopted of three times the designated setback indicated in the “Guidelines for the Use of Explosives in or Near Canadian Fisheries Waters” from the blast to fish habitat during times of the year when inner Bay of Fundy Atlantic salmon could be present in these coastal waters</li> </ul>	

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<i>Biological Environment</i>						
<b>Blasting</b> Marine Mammals	X	X		X	<ul style="list-style-type: none"> <li>Blasting will not be conducted if marine mammals (whales, porpoises, or dolphins) are observed within 500m of the detonation site or if seals are within 170m of the detonation site</li> </ul>	para. 9.2.11
	X	X		X	<ul style="list-style-type: none"> <li>Blasting will not be conducted if marine mammal species at risk (fin, blue or North Atlantic right whales) are observed within 2500m of the detonation site</li> </ul>	
		X		X	<ul style="list-style-type: none"> <li>An experienced marine mammal observer will be employed to verify any marine mammals present within the safety radii and will communicate with the blast coordinator an “all clear” signal if no marine mammals are observed</li> </ul>	
	X			X	<ul style="list-style-type: none"> <li>Monitoring of an initial blast is proposed to verify modeling procedures with results from this initial blast being used to further define mitigative setback distances from the detonation to a marine mammal</li> </ul>	
<b>Blasting</b> Waterbirds		X		X	<ul style="list-style-type: none"> <li>An experienced waterbird observer will be employed to verify any waterbirds present within the 170m safety radii and will communicate with the blast coordinator an “all clear” signal if no waterbirds are observed</li> </ul>	para. 9.2.12

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Ship Interactions Marine Mammals		X		X	<ul style="list-style-type: none"> <li>Vessels transporting quarry products will not have to pass through the North Atlantic right whale conservation area</li> </ul>	para. 9.2.13
		X		X	<ul style="list-style-type: none"> <li>The proposed ship route to and from the marine terminal and the shipping lanes will pass through an area of low sightings of North Atlantic right whales per unit of effort</li> </ul>	
		X		X	<ul style="list-style-type: none"> <li>The proposed ship route to and from the marine terminal and the shipping lanes will pass through an area of low sightings of humpback, fin and minke whale, and harbour porpoises</li> </ul>	
		X		X	<ul style="list-style-type: none"> <li>The speed of the vessel in waters between the shipping lanes and the marine terminal will be less than 12 knots/hour, i.e., significantly less than the speed of most severe and lethal ship strikes</li> </ul>	
		X		X	<ul style="list-style-type: none"> <li>Coordination with whale and seabird cruises operating in the waters of the Bay of Fundy between the shipping lanes and the marine terminal will be maintained on days when vessels are due to arrive and depart for reports of marine mammal sightings</li> </ul>	
Ballast Water		X		X	<ul style="list-style-type: none"> <li>Compliance with ballast water management guidelines and pending regulations are the responsibility of the shipping industry: Bilcon of Nova Scotia Corporation will contract reputable shipping companies</li> </ul>	para. 9.2.14



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<b><i>Biological Environment</i></b> Noise and Vibration Marine					<ul style="list-style-type: none"> <li>Large vessel traffic is minimal in waters between the shipping lanes and marine terminal and cumulative noise from the quarry vessel is not expected to be as great as presently experienced in the North Atlantic right whale conservation area - no mitigation proposed</li> </ul>	para. 9.2.15
<b><i>Human Environment</i></b> <b>Heritage Resources</b> Marine Archaeology	X			X	<ul style="list-style-type: none"> <li>Prior to marine construction, Bilcon of Nova Scotia Corporation will have the appropriate archaeological investigations conducted under permit with the Nova Scotia Museum: if archaeological resources are discovered as a result of this investigation, appropriate mitigation actions will be taken in consultation with the Nova Scotia Museum</li> </ul>	para. 9.3.1
<b>Heritage Resources</b> Land Archaeology	X	X	X		<ul style="list-style-type: none"> <li>Archaeological recording and limited testing of the Hersey House foundation will be conducted under permit with the Nova Scotia Museum if the foundation cannot be avoided during quarry construction or operations</li> </ul>	para. 9.3.2
	X	X	X		<ul style="list-style-type: none"> <li>Before construction and operation of the quarry, an educational briefing concerning archaeological and historical resources will be conducted for all quarry employees</li> </ul>	para. 9.3.3

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<i>Human Environment</i> <b>Aboriginal Land and Resource Use</b>	X	X	X	X	<ul style="list-style-type: none"> <li>Bilcon of Nova Scotia Corporation will continue its efforts to consult with First Nations and address their concerns.</li> </ul>	para. 9.3.3
<b>Heritage Resources</b> History	X	X	X		<ul style="list-style-type: none"> <li>As part of the educational briefing concerning archaeological and historical resources, training with respect to the requirements of the Cemeteries Protection Act will be conducted for all quarry employees</li> </ul>	para. 9.3.4
<b>Heritage Resources</b> Heritage Properties	X	X	X		<ul style="list-style-type: none"> <li>Registered or designated heritage properties are not located within view planes of the quarry - no mitigation proposed</li> </ul>	para. 9.3.5
<b>Aesthetics</b>	X	X	X		<ul style="list-style-type: none"> <li>The quarry will not be visible in a view plane from the land along Highway 217 - no mitigation proposed</li> </ul>	para. 9.3.6
	X	X		X	<ul style="list-style-type: none"> <li>A minimum 30m wide environmental preservation zone will be maintained along the coastline of the quarry as a buffer to enhance visual qualities when viewed from the Bay of Fundy with incremental forest clearing and incremental reclamation</li> </ul>	
<b>Community Profile</b>					<ul style="list-style-type: none"> <li>The community profile presents historical background data - no mitigation proposed</li> </ul>	para. 9.3.7

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	Construction	Operation	Land	Marine		
<i>Human Environment</i> <b>Transportation</b>		X	X	X	<ul style="list-style-type: none"> <li>Shipping quarry products directly by water will eliminate heavy truck traffic on rural, two-lane highways, truck traffic inconveniences for residents and tourists, and associated noise and vibration for those residents and school along Highway 217</li> <li>Upgrading of the intersection of the quarry entrance road and Highway 217 will be done to meet Nova Scotia Department of Transportation and Public Works standards</li> </ul>	para. 9.3.8
	X	X	X			
<b>Economy - Whites Point Quarry and Marine Terminal</b>	X	X	X	X	<ul style="list-style-type: none"> <li>The construction and operation of the quarry and marine terminal will provide positive aspects for local employment, community development through economic spin-off, and municipal tax revenues - no mitigation proposed</li> </ul>	para. 9.3.9
<b>Economy - Fishery / Aquaculture</b>		X	X	X	<ul style="list-style-type: none"> <li>Blasting in proximity to land and water based aquaculture will be subject to the same setbacks as outlined in DFO's "Guidelines for the Use of Explosives in or Near Canadian Fisheries Waters"</li> </ul>	para. 9.3.10, para. 9.3.11
<b>Economy - Fishery / Intertidal</b>	X	X		X	<ul style="list-style-type: none"> <li>Continued access through quarry property to the beach for harvesting will be provided for beach harvesters upon appropriate arrangements with quarry management</li> </ul>	para. 9.3.12

**Whites Point Quarry and Marine Table**  
**Table ECM - 1 Summary Table**  
**Environmental Component Mitigation**

Environmental Component	Project Phase		Project Component		Proposed Mitigation	Reference Paragraph
	Construction	Operation	Land	Marine		
<i>Human Environment</i> <b>Economy - Fishery / Nearshore</b>		X		X	<ul style="list-style-type: none"> <li>• Coordination of a designated ship route to and from the marine terminal to the inbound / outbound shipping lanes in the Bay of Fundy is proposed with all stakeholders</li> <li>• Coordination of the approach / departure area for the vessel at the marine terminal is proposed with local fishers</li> <li>• Re-establishment of the Community Liaison Committee with a local fisherman representative is proposed to maintain lines of communication between the quarry and fishing industries</li> <li>• To minimize possible inconvenience to local fishers, advance notice of shipping schedules will be made available</li> <li>• A “lobster trap fund” will be established and funded by Bilcon of Nova Scotia Corporation and administered by a designated fisher group to compensate for fishing gear destroyed as a result of the vessel transporting quarry products</li> </ul>	para. 9.3.13
		X		X		
		X		X		
		X		X		
		X		X		
<b>Economy - Tourism</b>		X	X		<ul style="list-style-type: none"> <li>• Re-establishment of the Community Liaison Committee with a local tourism representative is proposed to maintain lines of communication between the quarry and tourism industries</li> </ul>	para. 9.3.14
<b>Economy - Land Value</b>		X	X		<ul style="list-style-type: none"> <li>• Compensation will be paid to adjacent property owners within 800m of the active quarry if property values are shown to be diminished</li> </ul>	para. 9.3.15

**Whites Point Quarry and Marine Table**  
**Table ECM - 1 Summary Table**  
**Environmental Component Mitigation**

Environmental Component	Project Phase		Project Component		Proposed Mitigation	Reference Paragraph
	Construction	Operation	Land	Marine		
<i>Human Environment</i> <b>Recreation</b>		X	X		<ul style="list-style-type: none"> <li>Continued access through quarry property to the beach will be provided for non-motorized recreation users upon appropriate arrangements with quarry management</li> </ul>	para. 9.3.16
<b>Human Health and Community Wellness</b>					<ul style="list-style-type: none"> <li>Human health and community wellness presents background data - see noise, dust, water quality, etc.</li> </ul>	para. 9.3.17
<b>Human Health</b> Drinking Water Quality	X		X		<ul style="list-style-type: none"> <li>All wells constructed on-site for domestic water supply will meet the NSDEL requirements for the construction of water wells - no mitigation proposed</li> </ul>	para. 9.3.18
<b>Human Health</b> Marine Contaminates	X	X		X	<ul style="list-style-type: none"> <li>On-land environmental control structures and quarry operating procedures will be designed to control any on-site contaminants from entering the marine environment</li> </ul>	para. 9.3.19
		X		X	<ul style="list-style-type: none"> <li>The risk of spills in the marine environment will be minimal since ships will not be fueled at the marine terminal</li> </ul>	
		X		X	<ul style="list-style-type: none"> <li>Electrical motors for the conveyor systems will be used over the intertidal and nearshore waters which require minimal lubricants and will be equipped with drip pans and maintained</li> </ul>	
<b>Human Health</b> Land Contaminates	X	X	X		<ul style="list-style-type: none"> <li>Only pesticides, herbicides, and other chemical agents registered for their particular use and application by licensed persons will be used on-site</li> </ul>	para. 9.3.20

**Whites Point Quarry and Marine Table**  
**Table ECM - 1 Summary Table**  
**Environmental Component Mitigation**

Environmental Component	Project Phase		Project Component		Proposed Mitigation	Reference Paragraph
	Construction	Operation	Land	Marine		
<i>Human Environment</i> <b>Human Health</b> Land Contaminates (cont'd)	X	X		X	<ul style="list-style-type: none"> <li>Explosives will not be stored on-site and will be delivered and handled by qualified persons in accordance with provincial and federal regulations</li> <li>Fuels, oils, lubricants, and coolants will be stored on-site in spill containment areas and vehicle fueling will be done using closed systems with dry break disconnect couplings</li> <li>Sewage disposal will be by on-site sewage disposal systems designed and maintained in accordance with NSDEL guidelines</li> </ul>	para. 9.3.20
	X	X		X		
<b>Human Health</b> Country Foods	X	X	X	X	<ul style="list-style-type: none"> <li>Mitigation measures regarding potential pathways (air, water, and soil) for country food contaminants are presented in previous paragraphs</li> </ul>	para. 9.3.21
<b>Socio-economic Patterns</b>	X	X	X	X	<ul style="list-style-type: none"> <li>Communication and community involvement of the pre-project environmental assessment and pre-project engineering will be continued by Bilcon of Nova Scotia Corporation through open houses, newsletters, and with interested individuals</li> <li>Bilcon of Nova Scotia Corporation intends to re-establish the Community Liaison Committee and invite an adjacent property owners to be members of the Committee</li> </ul>	para. 9.3.22
	X	X	X	X		

**Whites Point Quarry and Marine Table**  
**Table ECM - 1 Summary Table**  
**Environmental Component Mitigation**

Environmental Component	Project Phase		Project Component		Proposed Mitigation	Reference Paragraph
	Construction	Operation	Land	Marine		
<i>Human Environment</i> <b>Socio-economic Patterns</b> (cont'd)	X	X	X	X	<ul style="list-style-type: none"> <li>A complaint process will be established by Bilcon of Nova Scotia Corporation to address environmental matters and any quality of life issues</li> </ul>	para. 9.3.22
<b>Education, Training, and Skills</b>		X	X	X	<ul style="list-style-type: none"> <li>Training for quarry employees will be provided by Bilcon of Nova Scotia Corporation at the Company's expense</li> </ul>	para. 9.3.23
		X	X	X	<ul style="list-style-type: none"> <li>Hiring priority will be given to Digby Neck residents with emphasis on education and skill development to introduce and maintain women in the workforce</li> </ul>	
<b>Infrastructure and Institutional Capacity</b>	X	X	X	X	<ul style="list-style-type: none"> <li>No burden on existing infrastructure or institutional capacity is anticipated and no mitigation is proposed</li> </ul>	para. 9.3.24