

Table CI-1
Committments Table

Whites Point Quarry & Marine Terminal
Table C-1 Commitments Table

Bilcon Commitment	Project Phase	Responsibility	Approving Agency
<i>1) Project Design</i>			
1.1 Bilcon of Nova Scotia Corporation will design, construct, operate and decommission the project as set out in the EIS including subsequent specific changes required in future permits or authorizations.	Construction Operation Closure	Bilcon	EC, TC, DFO, NSDEL, NSM Municipality of Digby
1.2 Project construction, operation and closure will be in compliance with the terms and conditions set out in the Industrial Permit.	Construction Operation Closure	Bilcon	NSDEL
1.3 Bilcon will complete the environmental monitoring plans set out in the EIS in consultation with regulatory agencies and implement the plans when appropriate.	Operation	Bilcon	All Agencies
1.4 Bilcon will complete environmental contingency plans and spill response plans in consultation with regulatory agencies.	Operation	Bilcon	NSDEL, TC
1.5 Training programs will be implemented for operations staff.	Construction Operation	Bilcon	
1.6 Systems will be installed for the handling of domestic, sanitary and hazardous wastes.	Construction Operation	Bilcon	NSDEL, EC
1.7 No quarried rock product will be trucked on local roads.	Operation	Bilcon	
1.8 Bilcon will complete the reclamation plans and provide surety as required.	Operation	Bilcon	NSDEL

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2) Physical Environment			
2.1 No excavation will be carried out below sea level.	Operation	Bilcon	
2.2 No excavation will be carried out below the upper basalt flow unit.	Operation	Bilcon	
3) Groundwater			
3.1 Quarrying will not take place below the groundwater table.	Operation	Bilcon	NSDEL
3.2 Water for the wash cycle will be made up from surface water storage. No ground water will be used for processing.	Operation	Bilcon	NSDEL
3.3 A pre-blast survey will be carried out on wells as required by NSDEL.	Operation	Bilcon	NSDEL
3.4 Monitoring – groundwater levels will be monitored in the existing wells both on and off site.	Operation	Bilcon	NSDEL
3.5 Monitoring – groundwater analysis for bacteriology, general chemistry and trace metals will be carried out once per year in the monitoring wells	Operation	Bilcon	NSDEL
3.6 Monitoring – adjacent property owners with wells will be invited to sit on the Community Liaison Committee.	Operation	Bilcon	
4) Watershed			
4.1 No quarrying will take place in the Little River watershed.	Operation	Bilcon	NSDEL

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5) Marine Water Quality			
5.1 Monitoring – water quality monitoring of all outflows from sediment retention ponds will be conducted weekly for Total Suspended Solids and pH and monthly for general chemistry.	Operation	Bilcon	NSDEL
5.2 Monitoring – turbidity levels during pile installation will be monitored and if necessary silt curtains will be employed.	Operation	Bilcon	DFO
5.3 No bilge discharge or fuelling operations will be permitted at the marine terminal.	Operation	Bilcon	
5.4 Bilcon will require its shippers to comply with Transport Canada Guidelines for ballast water management.	Operation	Bilcon	TC
5.5 Bilcon will install the necessary equipment to prevent spillage of product during loading operations.	Operation	Bilcon	
6) Air Quality			
6.1 Bilcon will pave access roads from Hwy #217 to the quarry site.	Construction Operation	Bilcon	
6.2 Bilcon will enclose processing equipment which will be located approximately 1000 m from the nearest residence.	Operation	Bilcon	
6.3 All pit roadways will be watered during dry conditions to minimize dust.	Construction Operation	Bilcon	
6.4 Bilcon will chip remaining wood fibre following the harvesting of merchantable timber, rather than burning, to reduce emissions.	Construction Operation	Bilcon	

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6.5 Heavy operational mobile equipment will be equipped with diesel engines meeting the US EPA Tier 3 emission standards and maintained in good operating condition.	Operation	Bilcon	
6.6 Monitoring – Bilcon will monitor particulate emissions when requested.	Operation	Bilcon	EC, NSDEL
7) Noise			
7.1 Monitoring – All blasts will be monitored for concussion and ground vibration in consultation with NSDEL	Operation	Bilcon	NSDEL
7.2 Bilcon will enclose its crushing and screening operation.	Operation	Bilcon	
7.3 Bilcon will employ quarry trucks with rubber lined boxes and rubberized screens.	Operation	Bilcon	
7.4 Bilcon will employ alternate back up warning devices.	Operation	Bilcon	
7.5 Bilcon will drill sockets in the bedrock for seating the piles rather than a continuous pile driving process.	Operation	Bilcon	
7.6 Preservation zones will be kept in a forested condition between the quarry and adjacent residences.	Operation	Bilcon	
7.7 Monitoring – sound level monitoring stations will be established in consultation with NSDEL.	Operation	Bilcon	NSDEL

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8) Employment and Training			
8.1 Bilcon will engage staff whenever possible from the local area and will not recruit from existing businesses.	Operation	Bilcon	
8.2 Bilcon will establish a training program for all staff. All training will be funded by Bilcon.	Operation	Bilcon	
8.3 Bilcon will give preference to hiring women.	Operation	Bilcon	
9) Archaeology			
9.1 Monitoring – if significant heritage resources are discovered an appropriate monitoring or recovery program will be developed in consultation with the Nova Scotia Museum.	Operation	Bilcon	NSM
9.2 All staff will be given special training in recognising heritage resources and the procedures to be followed.	Operation	Bilcon	
9.3 All contractors and sub contractors will be required to follow procedures set out by Bilcon with respect to recognising heritage resources and the procedures to be followed.	Operation	Bilcon	
9.4 Bilcon will conduct a program of archeological investigation in the nearshore waters prior to pile installation. Professional divers trained in archaeological techniques will conduct the investigations.	Operation	Bilcon	NSM

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10) Marine Fish Habitat			
10.1 Bilcon has received approval in principal for a Compensation Plan under Section 35(2) Fisheries Act. Bilcon will further develop a monitoring plan in concert with DFO.	Construction	Bilcon	DFO
10.2 Commitments regarding sediment entering the marine habitat are detailed above under marine water quality.	Construction and operation	Bilcon	NSDEL, DFO
11) Lobster Fishery			
11.1 Bilcon will advise lobster fishers using Whites Cove on the arrival and departure times of all bulk carriers during the lobster season.	operation	Bilcon	
11.2 Bilcon will ensure that all bulk carriers enter and leave Whites Cove, from and to the shipping lanes, on the same predetermined bearing.	operation	Bilcon	
11.3 Bilcon will provide compensation to a Committee of Whites Cove lobster fishers who will assess and compensate for loss of lobster gear due to ship movements. Compensation as a fixed sum will be paid on an annual basis.	operation	Bilcon	
12) Marine Species			
12.1 Bilcon will not carry out any blasting in marine waters.	operation	Bilcon	DFO
12.2 Bilcon will conduct on land blasting in accordance with the “Guidelines for the Use of Explosives in or near Canadian Fisheries Waters”.	operation	Bilcon	DFO

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12.3 Bilcon will triple the setback distances indicated in the “ Guidelines for the Use of Explosives in or near Canadian Fisheries Waters”when iBoF Atlantic salmon may be present in nearshore waters.	Operation	Bilcon	DFO
12.4 Bilcon will use experienced observers to identify the possible presence of marine mammals within safety radii as set out in the Blasting Protocol.	Operation	Bilcon	DFO
12.5 Bilcon will monitor noise levels in the marine environment as set out in the EIS and will work with DFO to increase the knowledge base with respect to species at risk.	Operation	Bilcon	DFO
12.6 Bilcon will visually monitor and measure noise levels at the seal colony at Crowells Cove during the initial blast in consultation with DFO.	Construction	Bilcon	DFO
12.7 Bilcon will advise its shipper of any whale sightings in the area between the shipping lanes and the marine terminal.	Operation	Bilcon	DFO
12.8 Bilcon will not permit a ship speed in excess of 12 kn/hour during the transit from shipping lanes to the marine terminal.	Operation	Bilcon	DFO
12.9 Bilcon will work with other groups to provide better data to ships captains with respect to the location of marine mammals.	Operation	Bilcon	DFO

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12.10 Bilcon will maintain communications with local whale watch and seabird cruise operators operating in the Digby Neck area.	Operation	Bilcon	DFO
12.11 Bilcon will report sightings of marine reptiles during routine monitoring of the arrival and departure of the vessel at the marine terminal to the Nova Scotia Leatherback Turtle Working Group and the Nova Scotia Museum of Natural History.	Operation	Bilcon	DFO
<p>13) Terrestrial Species</p> <p>13.1 Bilcon will establish and maintain 78.9 acres of environmental preservation zone as set out in the EIS.</p>	Construction Operation	Bilcon	NSDEL
13.2 Monitoring – a breeding bird survey will be conducted every five years to document any change in species composition.	Operation	Bilcon	NSDEL
13.3 Monitoring – an Odonata survey will be conducted every five years to document any changes in species composition.	Operation	Bilcon	NSDEL
13.4 Monitoring – a Lepidoptera survey will be conducted every five years to document any changes in species composition.	Operation	Bilcon	NSDEL
13.5 Monitoring – an invasive plant species survey will be conducted every five years to document the level of success of the program to detect and remove invasive plant species.	Operation	Bilcon	NSDEL

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13.6 Monitoring – Flora species at risk will be monitored as indicated in the EIS.	Operation	Bilcon	NSDEL
13.7 Bilcon will store any toxic substances used during quarry operations (diesel fuel, gasoline, hydraulic fluids etc) in a safe manner such that they are not accessible to wildlife.	Operation	Bilcon	NSDEL
13.8 During clearing operations Bilcon will comply with all relevant federal and provincial legislation protecting birds, nests and eggs.	Operation	Bilcon	NSDEL, EC
13.9 Bilcon will continue coordination and cooperation with CWS in monitoring waterfowl of special concern (harlequin duck and Barrow’s goldeneye).	Operation	Bilcon	NSDEL, CWS
14) Light			
Bilcon will design lighting for operations, security and safety so as to minimize night glow.	Operation	Bilcon	NSDEL
Bilcon will employ minimal lighting on the ship loading structure commensurate with safe loading operations and navigation.	Operation	Bilcon	NSDEL, TC
15) Vegetation			
15.1 Bilcon will monitor the health and integrity of trees in all preservation zones.	Operation	Bilcon	NSDEL
15.2 Bilcon will carry out a silviculture program on lands owned by Bilcon adjacent to the quarry property.	Operation	Bilcon	NSDEL

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16) Reclamation			
16.1 Reclamation will be incremental throughout the life of the project.	Operation	Bilcon	NSDEL
16.2 No top soil will be removed from the quarry site. All top soil and chipped material from the clearing and grubbing operation will be stored on site and mixed with the stored waste fines for reclamation.	Operation Closure	Bilcon	NSDEL
16.3 All reclaimed areas will be reforested with native tree species under the direction of a professional forester.	Operation Closure	Bilcon	NSDEL
16.4 Reclamation will be monitored by a professional forester to ensure the success of the program.	Operation Closure	Bilcon	NSDEL
16.5 The reclamation program will include a program for the control of invasive species.	Operation Closure	Bilcon	NSDEL
17) First Nations			
17.1 Bilcon will continue its efforts to involve the Design First Nations in the project.	Design Operation	Bilcon	NSDEL
18) Land Values			
18.1 Bilcon will carry out an appraisal of residential properties within 800 m of the quarry prior to operations and after five years of operation. Compensation will be offered where property values have been diminished	Operation	Bilcon	NSDEL

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<p><i>19) Economy</i></p> <p>19.1 Bilcon will wherever possible, procure supplies in the local area and generally support local business both during construction and operation.</p>	<p>Construction Operation</p>	<p>Bilcon</p>	

Abbreviations

CWS	Canadian Wildlife Service
DFO	Department of Fisheries and Oceans
EC	Environment Canada
NSM	Nova Scotia Museum
NSDEL	Nova Scotia Department of Environment and Labour
TC	Transport Canada