

New Number	Old Number	Commitment	Project Phase	Application Reference
ENVIRONMENTAL MANAGEMENT PLAN (EMP), MONITORING, AND REPORTING COMMITMENTS				
1		<p>BCTC will prepare Environmental Management Plans (EMPs) for the construction and operation of the overhead and submarine components of the Vancouver Island Transmission Reinforcement (VITR) Project to guide the implementation of the Commitments and Assurances listed below, in consultation with regulatory agencies, and with interested and affected First Nations.</p> <p>BCTC will prepare the following EMP component plans:</p> <ul style="list-style-type: none"> • Habitat Compensation Plan • Eelgrass Impact Minimization Plan for Vessel Operations • Wildlife Resource and Habitat Mitigation Plan <ol style="list-style-type: none"> 1. Riparian Habitat, Wetlands and Restoration Plan 2. Osprey Nest Relocation Plan (Salt Spring Island) 3. Bird Carcass Survey Plan • Public Communications Plan • Operation and Maintenance Plan for Submarine Cables and Cable Terminals • Site Access and Reclamation Plans for Agricultural Areas • Site Access and Restoration Plans for Private Properties <p>BCTC will comply with its existing Integrated Vegetation Management Plan (2005).</p> <p>The EMPs will provide the basis for preparation of site-specific Environmental Protection Plans (EPPs) to be prepared by BCTC's Contractors, which will identify detailed work procedures, controls, and mitigation measures consistent with these Commitments, and to achieve compliance with regulatory requirements, and best management practices.</p> <p>As referenced throughout this Commitments Table, the EPPs to be prepared by BCTC's Contractors will include, but will not necessarily be limited to the following:</p> <ul style="list-style-type: none"> • Sediment and Erosion Control Plan • Hazardous Materials Handling Plan • Emergency Response and Spill Prevention Plan • Concrete Handling, Placement, and Curing Plan • Occupational Health and Safety Plan • Traffic Management Plan • Marine Traffic Management Plan • Archaeological Impact Management Plan 	Construction and Operation	13 – Environmental Management

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2		<p>BCTC will retain Environmental Monitors to inspect, evaluate, and report on compliance with these Commitments, requirements set out in the EMPs, terms and conditions of environmental regulatory approvals, and best management practices.</p> <p>The Environmental Monitor(s) roles and responsibilities include, but are not limited to:</p> <ul style="list-style-type: none"> • Evaluating compliance with work practices, procedures, and effectiveness of mitigation measures during construction; • Providing recommendations for resolving non-compliant issues during construction; • Serving as a liaison with regulatory agencies and interested and affected First Nations to report on construction activities and mitigation measures; • Evaluating and reporting on the success of the habitat compensation works to be developed in accordance with the terms and conditions of the DFO Habitat Authorization Agreement during operation and maintenance of the Project; and • Preparing environmental monitoring reports to document effectiveness of mitigation measures, problems encountered, and how they were managed for review by regulatory agencies and interested and affected First Nations. <p>BCTC's Environmental Monitor will oversee compliance with the Table of Commitments during construction, and for a minimum period of 5 years post-construction to evaluate and report on compliance with these Commitments.</p>	Construction and Operation	10 – Environmental Monitoring and Follow-up

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3		<p>BCTC will prepare environmental monitoring reports during and following construction of the project.</p> <p>The purpose of these monitoring reports will be to:</p> <ul style="list-style-type: none"> Evaluate compliance with regulatory requirements, including compliance with the Table of Commitments; Ensure implementation of project activities, mitigation measures, and compensation activities occurs as intended; and Evaluate biological effectiveness (or success) of habitat compensation and site restoration activities. <p>BCTC will provide copies of the environmental monitoring construction reports, and the post-construction monitoring reports to regulatory agencies, local governments, and interested and affected First Nations for review.</p>	Construction and Operation	14.2.1 – Monitoring and Reporting
WATER QUALITY, SEDIMENT AND EROSION CONTROL PLANNING COMMITMENTS				
4	26	BCTC will require its Contractors to develop detailed site-specific Environmental Protection Plans including: sediment and erosion control plans, hazardous materials handling plans, spill prevention plans, and concrete handling plans to minimize potential for release of deleterious substances into watercourses. These plans may be reviewed and approved by regulatory agencies having jurisdiction, if and when requested.	Construction	6.2.5.2 – Fish and Aquatic Habitat 9.2.3.2 – Accidents and Malfunctions
5	2	BCTC will develop and implement a sediment and erosion control plan as part of the EMP in consultation with regulatory agencies having jurisdiction, and interested and affected First Nations.	Construction	6.1.5.1 – Geophysical Environment; 6.2.5.1, 6.2.5.2 – Fish and Aquatic Habitat; 6.3.5.6 – Wildlife and Terrestrial Habitat; 6.4.5.2 – Vegetation Resources 7.5.5.2 – Marine Mammals

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6	3	BCTC will make all reasonable efforts to minimize the areas of disturbance to soils and vegetation. BCTC will replace vegetation disturbed or removed with native plant species where it does not interfere with the footprint or operation of the transmission lines. These construction and restoration activities will be inspected, evaluated, and reported by an Environmental Monitor. BCTC will conduct post-construction monitoring to assess the effectiveness of the restoration activities.	Construction	6.1.5.1 – Geophysical Environment; 6.2.5.1 – Fish and Aquatic Habitat; 6.3.5.1, 6.3.5.4, 6.3.5.6, 6.3.5.8 – Wildlife and Terrestrial Habitat; 6.4.5.1, 6.4.5.2 – Vegetation Resources
7	4	BCTC will develop and implement best management practices in the EMP for the handling, placement, and curing of concrete.	Construction	6.1.5.1 – Geophysical Environment; 6.2.5.2 – Fish and Aquatic Habitat; 6.12.5.1 – Contaminated Sites Potential; 7.2.5.1 – Marine Fish
8	6	BCTC will require its Contractors to maintain construction equipment so that it is free of excess oil and grease.	Construction, Operation, Decommissioning	6.1.5.1 – Geophysical Environment; 6.2.5.2 – Fish and Aquatic Habitat
GEOTECHNICAL SOILS AND SLOPE HAZARD MANAGEMENT COMMITMENTS				
9	8	BCTC will have proposed construction techniques for mitigating slope instability reviewed by a Registered Professional Geotechnical Engineer, licensed and authorized to practice in British Columbia, prior to finalization.	Construction	6.1.5.2 – Geophysical Environment
10	9	BCTC will provide an Environmental Monitor to assess the effectiveness of mitigation measures on exposed slopes. The Environmental Monitor will be onsite for the duration of works that may affect exposed and unstable slopes.	Construction	6.1.5.2 – Geophysical Environment
ACID ROCK DRAINAGE (ARD) MANAGEMENT COMMITMENTS				
11	10	BCTC will minimize rock disturbance in areas with high pyrite and pyrrhotite content where possible.	Construction	6.1.5.3 – Geophysical Environment
12	11	BCTC will test rock in the vicinity of proposed tower locations in areas of high risk for acid rock disturbance and complete acid-base accounting to determine neutralizing capacity.	Pre-Construction	6.1.5.3 – Geophysical Environment
13	12	BCTC will seal exposed rock for tower foundations with concrete as required.	Construction	6.1.5.3 – Geophysical Environment

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14	13	BCTC will adhere to applicable federal and provincial guidelines for the management and disposal of acid rock.	Construction	6.1.5.3 – Geophysical Environment
15	14	BCTC will apply chemical treatment to neutralize acid rock drainage as required.	Construction	6.1.5.3 – Geophysical Environment
16	15	BCTC will use engineered rock covers to slow down sulphide oxidation and reduce potential leaching for acid rock drainage as required.	Construction	6.1.5.3 – Geophysical Environment
FRESHWATER FISHERIES AND AQUATIC HABITAT – INSTREAM WORKS AND RIPARIAN AREA MANAGEMENT COMMITMENTS				
17	5	BCTC will conduct works in and about wetted watercourses in accordance with DFO's Pacific Region Operational Statement for Overhead Line Construction. BCTC will contact the applicable local government regarding in-stream works to confirm that construction activities do not interfere with drainage networks.	Construction	6.1.5.1 – Geophysical Environment
18	7	BCTC will establish and maintain existing vegetation setbacks up to 30 m from watercourses and wetlands and preserve stream bank vegetation during clearing activities to the greatest extent possible.	Construction	6.2.5.1 – Fish and Aquatic Habitat; 6.3.5.6 – Wildlife and Terrestrial Habitat; 6.4.5.1 – Vegetation Resources
19	16	BCTC will use temporary clear-span watercourse crossings in Delta, on Galiano Island, Salt Spring Island, and on Vancouver Island for construction access to the right-of-way. BCTC will contact the applicable local government regarding in-stream works to confirm that construction activities do not interfere with drainage networks.	Construction	6.2.5.1 – Fish and Aquatic Habitat
20	17	BCTC will design culverts to enable unrestricted and safe passage of amphibians, reptiles and small mammals. Culverts will only be used for non fish-bearing watercourse crossings.	Construction	6.2.5.1 – Fish and Aquatic Habitat; 6.3.5.6 – Wildlife and Terrestrial Habitat
21	18	BCTC will conduct instream works within approved work windows as determined by the regulatory authorities. In-stream works at the un-named watercourse at Taylor Bay Terminal will be conducted during an approved work window to be specified in permits to be issued by regulatory agencies having jurisdiction.	Construction	6.2.5.1, 6.2.5.3 – Fish and Aquatic Habitat
22	19	BCTC will consult with DFO's Area Habitat Biologist (Nanaimo Office) regarding the re-location of the un-named watercourse for the facility modifications at Taylor Bay Terminal (TBY).	Pre-Construction	6.2.5.1 - Fish and Aquatic Habitat Figure 6.2-7

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23	20	BCTC will apply to the Ministry of Environment for a Section 9 <i>Water Act</i> Approval for the re-location of the un-named watercourse at Taylor Bay Terminal (TBY), incorporating input on design mitigation measures received from DFO.	Pre-Construction	6.2.5.1 - Fish and Aquatic Habitat Figure 6.2-7
24	21	BCTC will submit a Notification under Section 44 of the <i>Water Regulation</i> for installation of temporary watercourse crossings in Delta, on Galiano Island, Salt Spring Island, and on Vancouver Island to facilitate access to the overhead structures.	Pre-Construction	1.6.2 6.2.5 - Fish and Aquatic Habitat
25	22	BCTC will require its Contractors to exclude machinery from working within or crossing the wetted perimeter of surface watercourses, unless otherwise approved by regulatory agencies having jurisdiction.	Construction, Operation, Decommissioning	6.2.5.1 - Fish and Aquatic Habitat
26	23	BCTC will restore disturbed riparian areas along the right-of-way to pre-construction conditions immediately following construction, or as otherwise approved by regulatory agencies having jurisdiction. The only in-stream works anticipated along the terrestrial portion of the right-of-way will be those required for relocation of the un-named non fish-bearing watercourse at Taylor Bay Terminal. Good spawning habitat has been documented downstream of the proposed in-stream works at the head of Taylor Bay.	Construction	6.2.5.1 – Fish and Aquatic Habitat
27	24	BCTC will isolate work sites from flowing water in freshwater creeks, streams, and ditches through diversion of water around the work area, and subsequent discharge of water back into the same watercourse immediately downstream of the work site.	Construction	6.2.5.2, 6.2.5.3 – Fish and Aquatic Habitat
28	25	BCTC will require its Contractors to implement mitigation measures to prevent entry of materials with potential to degrade surface water quality into nearby watercourses.	Construction	6.2.5.2 – Fish and Aquatic Habitat
29	27	BCTC will provide habitat restoration for unavoidable habitat impacts associated with the un-named watercourse at Taylor Bay and other locations to achieve no net loss of productive fish habitat in consultation with DFO, other regulatory agencies having jurisdiction, as well as local governments and affected First Nations.	Construction	6.2.5.1 – Fish and Aquatic Habitat
30	29	BCTC will minimize potential disturbances within saturated or wetland areas that provide unique habitat.	Construction	6.3.5.1, 6.3.5.6 – Wildlife and Terrestrial Habitat

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31	30	BCTC will restore disturbed habitats with native plant species, in consultation with MOE, other regulatory agencies having jurisdiction, as well as the Corporation of Delta and affected First Nations. Restoration requirements will be outlined in the EMP, and implemented following completion of construction to minimize potential for invasive species to establish. Species selected will be compatible with the safe and reliable operation of the transmission system.	Construction and Decommissioning	6.3.5.1, 6.3.5.4, 6.3.5.6, 6.3.5.8 – Wildlife and Terrestrial Habitat; 6.4.5.2 – Vegetation Resources; 6.6.5.3 – Land Use; 6.8.5.2 – Parks and Recreation
TERRESTRIAL WILDLIFE AND VEGETATION MANAGEMENT COMMITMENTS				
32	31	BCTC will place coarse woody debris within the ROW to provide linkages between forested areas where it does not pose a wildfire hazard.	Construction	6.3.5.1, 6.3.5.6 – Wildlife and Terrestrial Habitat; 6.4.5.1 – Vegetation Resources
33	32	BCTC will comply with the procedure and protocols established in BCTC's Integrated Vegetation Management Plan (2005) to incorporate the use of approved herbicides for ROW vegetation management. No chemical spraying will occur adjacent to watercourses.	Operation	6.3.5.1 – Wildlife and Terrestrial Habitat
34	33	Trees which are not deemed to be hazardous along the ROW will be retained where possible as they will provide nesting opportunities for cavity-dependent birds.	Operation	6.3.5.1 – Wildlife and Terrestrial Habitat
35	183	BCTC will continue to manage tall growing vegetation such as trees within the ROW that pose risk to the overhead transmission lines if they were to fall. Trees outside the ROW not deemed hazardous will be retained.	Construction and Operation	6.3.5.1 – Wildlife and Terrestrial Resources 6.13.5.4 – Socio-Economic Environment 8.1.3.2 – Effects of the Environment on the Project

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36	34	BCTC will minimize clearing of natural habitats and removal of structures during the passerine bird nesting and breeding period, which is typically from March 15 to August 15 in the lower mainland and Gulf Islands. BCTC will make best efforts to avoid clearing during this period. Where work is required during this period, a nesting and breeding bird survey program will be undertaken by qualified professionals prior to construction for the purposes of identifying and protecting active migratory bird nests. BCTC will consult with the Canadian Wildlife Service (CWS), the Ministry of Environment MOE), and interested / affected First Nations for advice regarding survey and mitigation protocols. Appropriate permits and approvals will be obtained from the regulatory authorities where disturbance is unavoidable.	Construction, Operation and Decommissioning	6.3.5.1 – Wildlife and Terrestrial Habitat
37	35	BCTC will plan and schedule construction to minimize duration of potential sensory disturbance to wildlife.	Construction	6.3.5.1, 6.3.5.4, 6.3.5.6, 6.3.5.8 – Wildlife and Terrestrial Habitat; 7.2.5.1 – Marine Fish; 7.4.5.2 – Marine Invertebrates
38	36	BCTC will develop and implement a mitigation plan for the Osprey nest on Salt Spring Island in consultation with MOE. A <i>Wildlife Act General – Permit Application</i> for the relocation of the Osprey nest on Salt Spring Island was submitted to the Permit Authorization Service Bureau on December 18 th , 2006.	Construction	6.3.5.1 – Wildlife and Terrestrial Habitat
39	37	BCTC will minimize potential disturbances to raptor or heron nests located within construction areas, whether active or not, and a nest management plan will be developed in consultation with MOE, CWS, and interested and affected First Nations. Raptor nests found within the ROW will remain undisturbed until the chicks have fledged. Where nest disturbance is unavoidable, BCTC will consult with MOE, CWS, and interested and affected First Nations to discuss possible options and management strategies.	Construction	6.3.5.1 – Wildlife and Terrestrial Habitat
40	38	BCTC will design conductor configurations to maximize visibility to birds and minimize potential collisions with transmission lines. The conductors will be bundled in a triangular configuration in most locations along the right-of-way, rather than being strung horizontally, and will be larger in diameter than the existing conductors. Locations along the right-of-way where the conductors will be installed in a horizontal configuration will be limited to areas requiring long spans, such as the crossing of Montague Harbour, Sansum Narrows, and at locations where angles are required to facilitate alignment details.	Construction	6.3.5.1 – Wildlife and Terrestrial Habitat
41	39	BCTC will consult with MOE, CWS, and interested and affected First Nations on the use bird flight diverters (i.e. marker balls) to increase the visibility of the overhead transmission lines.	Construction	6.3.5.1 – Wildlife and Terrestrial Habitat

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42	40	<p>BCTC will conduct a follow-up carcass survey along the ROW within the first year following completion of construction in areas where there is a higher potential for bird collisions with transmission lines. The details of the carcass survey will be developed as a component of the post-construction Environmental Management Plan in consultation with MOE, CWS, and interested and affected First Nations. For the carcass survey, the EMP will specify such things as:</p> <ul style="list-style-type: none"> • Survey frequency • Survey locations • Mortality rates • Monitoring and mitigation requirements • Reporting requirements <p>BCTC will discuss the need for any additional or follow-up carcass surveys with MOE, CWS, and interested and affected First Nations.</p>	Operation	6.3.5.1 – Wildlife and Terrestrial Habitat
43	41	BCTC will consult with MOE, CWS, and interested and affected First Nations on the placement of perch deterrents such as triangles to minimize risk of avian electrocutions.	Pre-Construction	6.3.5.1 – Wildlife and Terrestrial Habitat
44	42	BCTC will evaluate habitat requirements of raptors, herons, and/or other specific bird species when selecting perch deterrents/ insulators. The results of this assessment will be reported to MOE, CWS, and interested and affected First Nations.	Pre-Construction	6.3.5.1 – Wildlife and Terrestrial Habitat
45	43	BCTC will provide the findings of the follow-up bird carcass surveys and proposed actions, if applicable, to MOE, CWS, and interested and affected First Nations.	Construction	6.3.5.3 – Wildlife and Terrestrial Habitat
46	44	BCTC will minimize the number of new access roads to the right-of-way.	Construction	6.3.5.4 – Wildlife and Terrestrial Habitat; 6.7.5.1 – Agriculture
47	45	BCTC will route access roads, if required, to minimize adverse effects on critical and high-value terrestrial habitat features. Routing of access roads within and outside of the right-of-way will be undertaken with assistance of a terrestrial biologist with local knowledge and experience to identify potential high value features.	Construction	6.3.5.4 – Wildlife and Terrestrial Habitat

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48	46	BCTC will avoid construction activities during critical breeding periods for mammals listed under the <i>Species at Risk Act</i> (SARA). Where disturbance is unavoidable, BCTC will consult with MOE, CWS, and interested and affected First Nations to discuss possible options and management strategies. Applicable permits and approvals will be obtained from the regulatory authorities.	Construction	6.3.5.4 – Wildlife and Terrestrial Habitat
49	47	BCTC will use reasonable efforts to adhere to the <i>Draft Best Management Practices</i> (Craig and Vennesland, April 2005) with respect to Pacific Water Shrew Recovery into the Environmental Management Plan (EMP) for overhead construction.	Pre-Construction and Construction	6.3.5.4 – Wildlife and Terrestrial Habitat
50	48	BCTC will minimize vehicle activity in the Project ROW by using gated roads and decommissioning of temporary accesses, where appropriate.	Construction and Operation	6.3.5.4 – Wildlife and Terrestrial Habitat
51	49	BCTC will require its employees and contractors to drive responsibly by enforcing low vehicle speeds on municipal roads leading to and from the right-of-way.	Construction and Operation	6.3.5.4 – Wildlife and Terrestrial Habitat
52	50	BCTC will develop and implement a wildlife awareness program for employees and contractors.	Construction, Operation and Decommissioning	6.3.5.4 – Wildlife and Terrestrial Habitat
53	51	BCTC will make all reasonable efforts to minimize, brushing, pruning and clearing activities to minimize habitat alteration. Disturbed and cleared areas will be replanted with native, low-growing plant species without interfering with the footprint or operation of the transmission lines. These construction and restoration activities will be inspected by an Environmental Monitor, and documented in the environmental monitoring reports for review by regulatory agencies and interested and affected First Nations. BCTC will conduct post-construction monitoring to assess the effectiveness of the restoration activities.	Construction and Operation	6.3.5.6 – Wildlife and Terrestrial Habitat
54	52	BCTC will protect the existing amphibian habitat to the greatest extent possible by minimizing the removal of shrubs within 30 m of all streams and only grubbing to within 10 m of the stream banks where absolutely required.	Construction	6.3.5.6 – Wildlife and Terrestrial Habitat
55	53	BCTC will consult with the regional offices of MOE, CWS, and interested and affected First Nations when developing the Wildlife Resource and Habitat Mitigation Plan as described in Section 13.3.2 of the EAC Application to ensure appropriate measures will be undertaken regarding listed wildlife species.	Pre-Construction and Construction	6.3.5.1, 6.3.5.4, 6.3.5.6, 6.3.5.8 – Wildlife and Terrestrial Habitat

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56	54	BCTC will require its Contractors to develop and implement waste management procedures, including the collection and removal of food wastes from the Project site to limit potential for attraction of wildlife. These requirements will be specified in the EMP for the overhead construction activities.	Construction	6.3.5.6 – Wildlife and Terrestrial Habitat
57	55	BCTC will mitigate or restore riparian habitats at watercourse crossings along the ROW, in accordance with DFO's <i>Overhead Line Construction Operational Statement</i> , and with the terms and conditions permits and approvals from regulatory agencies having jurisdiction.	Construction and Decommissioning	6.3.5.6 – Wildlife and Terrestrial Habitat
58	56	BCTC will consult with the Corporation of Delta's database of amphibian records when developing the Wildlife Resource and Habitat Mitigation Plan as described in Section 13.3.2 of the EAC Application. The Wildlife Resource and Habitat Mitigation Plan will be developed as a component of the EMP in consultation with MOE, CWS, and interested and affected First Nations.	Pre-Construction and Construction	6.3.5.6 – Wildlife and Terrestrial Habitat
59	57	BCTC will incorporate appropriate recommendations from MOE's <i>Best Management Practices for Amphibians and Reptiles in Urban Rural Environments in British Columbia</i> when developing the Wildlife Resource and Habitat Mitigation Plan as described in Section 13.3.2 of the EAC Application.	Pre-Construction and Construction	6.3.5.6 – Wildlife and Terrestrial Habitat
60	58	BCTC will replant cleared vegetation linkages from riparian habitat to adjacent forested areas with appropriate low growing tree and shrub species on a site-specific basis, in accordance with local growing and habitat conditions (i.e. with consideration with conditions such as soils, moisture, aspect, nearby vegetation, and land uses).	Construction	6.3.5.6 – Wildlife and Terrestrial Habitat
61	59	BCTC will work with others to control noxious weeds and occasionally invasive species such as Scotch broom, where a coordinated effort can be mounted.	Construction and Operation	6.3.5.8 – Wildlife and Terrestrial Habitat; 6.4.5.2 – Vegetation Resources
62	60	BCTC will plan and schedule works to minimize potential disruption to spring herptile breeding periods in aquatic environments, where reasonable. These efforts will be evaluated by the Environmental Monitor, and documented in the environmental monitoring reports for review by regulatory agencies and interested and affected First Nations.	Construction, Operation and Decommissioning	6.3.5.6 – Wildlife and Terrestrial Habitat

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63	61	BCTC will make all reasonable efforts will be made at all times to avoid mortality of amphibians and reptiles during brushing, pruning and clearing activities. Naturally saturated or wetland areas will be avoided where possible. If herptiles are present in an area that needs to be severely altered, individuals will be salvaged and moved to an appropriate area prior to the activity. Salvage activities will be overseen by a Registered Professional Biologist, or other suitably qualified professional, proficient at identifying amphibians to reduce the potential risk of disease transfer operations. Results of these salvage and relocation efforts will be documented in the environmental monitoring reports.	Construction	6.3.5.6 – Wildlife and Terrestrial Habitat
64	63	BCTC will plan and schedule construction activities to minimize potential disturbances to SARA-listed Lepidopteran species during breeding, in consultation with MOE and interested and affected First Nations.	Construction	6.3.5.8 – Wildlife and Terrestrial Habitat
65	64	BCTC will apply site-specific vegetation management techniques in critical Lepidopteron breeding areas.	Construction	6.3.5.8 – Wildlife and Terrestrial Habitat
66	65	BCTC will minimize potential disturbance to sensitive vegetation areas (such as wetlands and riparian sites) where possible. BCTC will minimize the removal of shrubs within 30 m of all streams and only grub to within 10 m of the stream banks where absolutely required. BCTC will replace vegetation disturbed or removed with native, low-growing plant species where it does not interfere with the footprint or operation of the transmission lines. These construction and restoration activities will be inspected and reported on by the Environmental Monitor. BCTC will conduct post-construction monitoring to assess the effectiveness of the restoration activities.	Construction	6.4.5.1 – Vegetation Resources
67	66	BCTC will allow natural re-growth of vegetation in the under and over-storey at several locations on Galiano, Parker, Salt Spring, and Vancouver Island, where a narrower portion of the right-of-way is possible without interfering with safety and integrity of the overhead transmission system.	Construction and Operation	6.4.5.1 – Vegetation Resources
68	67	BCTC will schedule activities to minimize potential for disturbance to vegetation during spring growth and flowering periods, where possible. These activities will be inspected and reported on by the Environmental Monitor. BCTC will conduct post-construction monitoring to assess the effectiveness of the restoration activities.	Construction, Operation and Decommissioning	6.4.5.1 – Vegetation Resources
69	68	For the Richards Creek riparian habitat, wetlands and riparian restoration plans will be developed in the EMP in consultation with regulatory agencies having jurisdiction, and interested and affected First Nations.	Construction and Decommissioning	6.4.5.1 – Vegetation Resources

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70	69	BCTC will establish and maintain vegetation setbacks from watercourses and wetlands and preserve stream bank vegetation during clearing activities to the greatest extent possible. These activities will be inspected and reported on by the Environmental Monitor to evaluate compliance with terms and conditions of regulatory approvals and with this commitment.	Construction	6.4.5.1 – Vegetation Resources
71	70	BCTC will preserve existing drainage patterns to avoid altering the hydrological regime in wetlands, creeks, or ditches.	Construction	6.4.5.1 – Vegetation Resources
72	71	BCTC will consider each ecosystem individually for pest control; procedures will be provided in the EMP in consultation with regulatory agencies having jurisdiction, and interested and affected First Nations.	Construction and Operation	6.4.5.2 – Vegetation Resources
73	72	BCTC will minimize potential effects on rare plants and plant communities by utilizing the existing ROW, restricting travel to established disturbed roads and trails along the ROW, avoiding sensitive areas, and maximizing the use of previously disturbed areas. Routing of access roads within and outside of the right-of-way will be undertaken with assistance of a terrestrial biologist with local knowledge and experience to identify potential high value features.	Construction, Operation and Decommissioning	6.4.5.1, 6.4.5.2 – Vegetation Resources
74	73	BCTC will hydro-seed or hand seed exposed soils following construction in appropriate areas to reduce potential for erosion in the rainier seasons. BCTC will use commercially available seed mixes free of invasive grass species, where applicable.	Construction	6.4.5.2 – Vegetation Resources
75	74	BCTC will salvage rare plants where possible in known locations along the ROW where disturbance is unavoidable and replant after construction. BCTC will undertake this work with assistance of a terrestrial biologist with local knowledge and experience in identifying rare plant species in the area of Maple Mountain and on the steep western slopes of Salt Spring Island prior to construction.	Construction	6.4.5.2 – Vegetation Resources
76	75	BCTC will require its Contractors to undertake reasonable efforts to avoid transport of invasive plants or seeds along the ROW, and to document these efforts through the construction EMP. Construction equipment will be cleansed before transport to remove weeds and mud that may contain seeds. Before heavy equipment or maintenance vehicles enter the project right-of-way, they will be inspected and, if required, cleansed to remove weed seeds prior to entry. Soil and vegetation will be removed and cleansed from construction equipment prior to entering and/or leaving each farm. All field equipment, including hiking boots, rain and safety gear, and vests will be cleaned before use in a new area.	Construction, Operation and Decommissioning	6.4.5.2 – Vegetation Resources; 8.1.3.2 – Effects of the Environment on the Project
ARCHAEOLOGICAL AND CULTURAL RESOURCES COMMITMENTS				

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77	76	BCTC will avoid known Archaeological and Cultural resources, unless otherwise authorized to do so in accordance with a permit issued under the <i>Heritage Conservation Act</i> .	Construction	6.5.5 – Archaeological and Cultural Resources
78	77	BCTC will conduct further archaeological testing where high potential areas were identified during the Archaeological Impact Assessment (AIA), and where archaeological assessment work to date was not conclusive.	Pre-Construction	6.5.5 – Archaeological and Cultural Resources
79	78	BCTC will obtain appropriate permitting where avoidance of Archaeological and Cultural resources is not possible.	Pre-Construction	6.5.5 – Archaeological and Cultural Resources
80	79	BCTC will conduct archaeological monitoring of works adjacent to known Archaeological and Cultural Resources. The results of these monitoring activities will be reported to the Archaeology Branch and interested and affected First Nations.	Construction	6.5.5 – Archaeological and Cultural Resources
81	80	BCTC will complete an archaeological assessment of the area surrounding Tower 9/4 and submit an addendum to the AIA under HCA Permit 2005-396 as soon as property access is possible. The results of this archaeological assessment will be reported to the Archaeology Branch and interested and affected First Nations.	Pre-Construction	6.5.5 – Archaeological and Cultural Resources
82	81	BCTC will suspend work in the event that a suspected archaeological site is uncovered during any phase of the VITR Project, and the Project supervisor will be required to contact the Archaeology Branch and the relevant First Nation communities and/or organizations for direction.	Construction	6.5.6 – Archaeological and Cultural Resources
LAND USE PLANNING COMMITMENTS				
83	28	BCTC will use an existing ROW for the entire length of the Project corridor, with the exception of an approximate 500 m long parcel of Crown land at Roberts Bank, to minimize habitat alteration. BC Hydro filed an Application for a Licence of Occupation with the Integrated Land Management Bureau on October 11, 2006 for an easement to use this parcel of land.	Construction	6.3.5.1–Wildlife and Terrestrial Habitat
84	86	BCTC will provide contractors' personnel working within Environmentally Sensitive Areas (ESAs) and Development Permit Areas (DPAs) with environmental awareness training.	Construction, Operation and Decommissioning	6.6.5.3 – Land Use

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85	82	BCTC will develop individual site restoration plans with those private landowners in Tsawwassen, where site access will be required for removal and installation of the overhead structures. BCTC will make all reasonable efforts to replace compatible plantings and structures to meet the needs of the owner while ensuring the safety and security of the electrical facilities. BCTC will attempt, where reasonable, to salvage urban vegetation and structures (i.e., garden sheds) of particular value to an owner for subsequent replacement during ROW restoration.	Construction	6.6.5.1 – Land Use
86	83	BCTC will implement construction schedule modifications such that access restrictions will be minimized.	Construction	6.6.5.1, 6.6.5.2 – Land Use
WORKER AND PUBLIC SAFETY MANAGEMENT COMMITMENTS				
87	84	BCTC will restrict access to the ROW, substations and other Project facilities during active Project construction to maintain worker and public safety.	Construction	6.6.5.1 – Land Use; 6.11.5.2, 6.11.5.3 – Transportation and Utilities
88	85	BCTC will develop and implement an Occupational Health and Safety Plan, (including procedures for decommissioning of existing structures), in consultation with regulatory agencies having jurisdiction and interested and affected First Nations.	Pre-Construction, Construction, Operation and Decommissioning	6.6.5.1, 6.6.5.3 – Land Use 6.11.5.3 – Transportation and Utilities; 9.1.1.2 – Accidents and Malfunctions
89	127	BCTC will require its Contractors to confirm that their personnel are aware of work-site safety regulations and rules of conduct on the job site and safety standards related to employment on the Project.	Construction, Operation and Decommissioning	6.13.5.4 – Socio—Economic Environment
90	129	BCTC will assess potential security risks to the transmission lines through the effort of BCTC's Critical Infrastructure Protection Program, and the RCMP's Integrated National Security Enforcement Team.	Construction, Operation and Decommissioning	6.13.5.4 – Socio—Economic Environment
91	87	BCTC will plan and schedule construction activities to minimize potential for disturbance to sensitive areas.	Construction and Decommissioning	6.6.5.3 – Land Use
92	125	BCTC will require its Contractors to provide detailed information about local health services to employees.	Construction, Operation and Decommissioning	6.13.5.4 – Socio—Economic Environment

New Number	Old Number	Commitment	Project Phase	Application Reference
93	187	BCTC will develop an Occupational Health and Safety Plan in accordance with relevant legislation and guidelines. Personnel involved with helicopter operations will comply with provincial regulations and standards established by the WCB.	Construction	6.6.5.1, 6.6.5.3 – Land Use 6.13.5.4 – Socio-Economic Environment 7.11.5.1 – Public Health 9.1.2.2, 9.1.3.2 – Accidents and Malfunctions
AGRICULTURAL LAND USE COMMITMENTS				
94	88	BCTC will reduce the number of access routes to the ROW through private agricultural land, minimize the size of the assembly and construction sites in the ROW, and design and schedule exclusion areas to provide farm operators and their animals with safe passage around construction sites.	Construction	6.7.5.1 – Agriculture
95	89	BCTC will take all reasonable efforts to maximize the amount of supplies per load to minimize frequency of construction vehicle traffic, and provide advance notice for access to the ROW prior to scheduled construction dates. BCTC will make all reasonable efforts to schedule the construction activities for the Project in relation to the optimal timing for grazing and forage harvesting.	Construction	6.7.5.1 – Agriculture

New Number	Old Number	Commitment	Project Phase	Application Reference
96	90	<p>BCTC will implement the following consultation process and mitigation protocols prior to and during construction of the Project within agricultural areas:</p> <ul style="list-style-type: none"> • Retain a registered and experienced Professional Agrologist with agricultural soil reclamation and restoration experience to liaise with the Ministry of Agriculture and Lands, the Agricultural Land Commission, local municipalities, and the farmers, and to receive information, monitor and advise the project on soils issues, including reclamation; • Communicate with affected individual farmers during the pre-construction and construction phases to identify known areas where problematic soil conditions exist and can be avoided, minimized and corrected; • Develop reclamation plans with individual farmers, Ministry of Agriculture and Lands, and Agricultural Land Commission (ALC) staff for areas within the ALR who will pass reclamation plans and protocols on to the respective certification agencies for review prior to construction or access; • Develop an access plan to limit the area of field damage; • Implement procedures to minimize soil compaction, and to protect subsoil drainage; • Restore affected areas after construction by removing stones, debris and excess material; • Use clean sources of imported soils and fill for levelling, where necessary; • Restore affected drainages to proper functioning condition; • Monitor affected areas for a period of two (2) growing seasons following construction to determine if productivity has been achieved; • Preclude use of pesticides to control weeds, diseases, and insects; • Preclude use of chemical fertilizers in seed, grass or hedgerow applications; • Ensure that preservatives, if any, from remnants of the existing poles cannot contaminate field; • Ensure that, if required fill comes from a source that meets organic certification requirement; and • Require that excavated soils for the structure foundations do not spill from trucks during removal. 	Pre-Construction Construction	6.7.5.2 - Agriculture

New Number	Old Number	Commitment	Project Phase	Application Reference
97	91	BCTC will access fields on clay soils during dry conditions where reasonable to prevent damage such as rutting and associated mobility problems, segregate the upper organic topsoil layers from underlying soil layers during construction for replacement after backfilling of the excavations to re-establish preconstruction status and promote growing conditions for agricultural crops, and limit access to mid-April and later during dry weather conditions where reasonable, and coordinate entry and specific access routes onto and across properties in discussions with property owners.	Construction	6.7.5.2 – Agriculture
98	92	BCTC will implement measures to mitigate effects on natural subsurface drainage on agricultural lands affected by the Project, where appropriate:	Construction	6.7.5.3 – Agriculture
99	93	BCTC will work to reduce disruption to agricultural lands and activities. Where appropriate, BCTC will retain the services of a qualified agricultural professional with experience and mutually acceptable to BCTC, land owners/users and government agencies including the Ministry of Agriculture and Lands and the Agricultural Land Commission.	Construction	6.7.5.1 – Agriculture
100	94	BCTC will coordinate installation activities with the seasonality of agricultural activities, minimize the area required for installation of foundations, storage of excavated materials, assembly of the tower structures, and conservation of topsoil.	Construction	6.7.5.4 – Agriculture
101	95	BCTC will, where appropriate, notify affected farmers in advance of seeding and prior to the growing season, and identify with farmers specific layouts to be used for structure construction, dismantling and materials assembly.	Pre-Construction, Construction	6.7.5.4 – Agriculture
102	96	BCTC will retain the services of a qualified registered agricultural professional with experience in establishing crop loss, business inconvenience, and land rental rate compensation procedures to negotiate an acreage rate based on market rental rates for the period required for annual crops, where appropriate. BCTC will negotiate an acreage rate for perennial crops for the period required and restoration of productive capability, where appropriate.	Pre-Construction, Construction	6.7.5.4 – Agriculture
103	97	BCTC will advise the Delta Farmers' Institute of the final tower locations and project schedule in advance of work on agricultural lands commencing.	Pre-Construction	6.7.5.4 – Agriculture

New Number	Old Number	Commitment	Project Phase	Application Reference
104	98	BCTC will contact farmers in advance of cropping intentions to advise of project scheduling. Where Delta Farmland and Wildlife Trust contracts are entered into one time or year to year, such as cover cropping, prior notice of project activity will allow farmers to adjust their stewardship commitments accordingly. In the instances of multi-year commitments (such as may be required for grass set-asides and field margin stewardship), BCTC will replant and/or reseed affected areas to restore them for their intended purpose post-construction.	Pre-Construction	6.7.5.4 - Agriculture
105	99	BCTC will ground metal trellises, fence lines, and irrigation pipes where appropriate, to minimize risk of induced/stray voltage.	Construction	6.7.5.5 – Agriculture
106	100	BCTC will notify local farm operators and their workers in advance to communicate traffic situations.	Construction	6.7.5.5 – Agriculture
107	101	BCTC will address stray voltage concerns by using additional grounding on metal trellises, fence lines, and irrigation pipes, where appropriate.	Construction	6.7.5.5 – Agriculture
PARKS AND RECREATION USE ACTIVITIES				
108	102	BCTC will place notices in the local newspapers and on the internet to advise the local residents of the construction schedule. Construction in Tsawwassen and on Galiano Island is scheduled to occur over the fall, winter and spring months thus avoiding seasonal peak periods of park use and minimizing the magnitude of disruption for access.	Pre-Construction and Construction	6.8.5.1, 6.8.5.2, 6.8.5.3 – Parks and Recreation
109	103	BCTC will water access roads where dust generation is unavoidable, maximize the use of existing access roads and schedule work around day(s) of extreme dry conditions as well as peak park use (June-September).	Construction	6.8.5.2 – Parks and Recreation
NAVIGATION, TRAFFIC MANAGEMENT, AND PUBLIC UTILITIES NOTIFICATION COMMITMENTS				
110	104	Access to Sansum Narrows and Montague Harbour will be restricted and monitored by a security vessel during construction activities for the safety of vessel operators and Project workers. BCTC will comply with all applicable federal and regulatory requirements for marine vessel notification.	Construction and Decommissioning	6.10.5.1 – Navigation 7.8.5.1 – Navigation 9.2.1.2 – Accidents and Malfunctions
111	105	BCTC will apply for Highway Use Permits, if required, for work undertaken within a municipal right-of-way.	Pre-Construction	6.11.3.1 – Transportation and Utilities
112	106	BCTC will obtain an access permit from BNSF, if required, for construction activities adjacent to the railway within the Corporation of Delta.	Construction	6.11.5.1 – Transportation and Utilities

New Number	Old Number	Commitment	Project Phase	Application Reference
113	107	BCTC will modify construction schedules to minimize potential disturbance to transportation routes.	Construction	6.11.5.1, 6.11.5.2 – Transportation and Utilities
114	108	BCTC will comply with applicable federal, provincial, and municipal regulatory requirements with respect to transportation and infrastructure.	Construction	6.11.5.1, 6.11.5.2, 6.11.5.3 – Transportation and Utilities; 7.9.5.1 – Infrastructure and Utilities; 9.1.4.2 – Accidents and Malfunctions
115	109	BCTC will prepare and implement a Traffic Management Plan to address safety and transportation issues. BCTC will provide the Traffic Management Plan to the Corporation of Delta a minimum of two weeks prior to commencement of construction for review and comment regarding hours of work, lane closures, and signage.	Pre-Construction Construction	6.7.5.5 – Agriculture; 6.11.5.1 – Transportation and Utilities; 9.1.3.2 – Accidents and Malfunction
116	110	BCTC will notify BC One Call to locate existing utilities in the Project area.	Construction	6.11.5.3 – Transportation and Utilities; 7.9.5.1 – Infrastructure and Utilities
117	111	BCTC will adhere to applicable provincial occupational health and safety regulations.	Construction, Operation and Decommissioning	6.11.5.3 – Transportation and Utilities; 9.1.3.2, 9.1.4.2 – Accidents and Malfunctions
CONTAMINATED SITES POTENTIAL AND MANAGEMENT COMMITMENTS				
118	112	BCTC will visually inspect soils during removal of wooden poles along the Project ROW to determine the presence or absence of visibly-stained soils related to wood treatment products. If soil contamination is suspected, the potentially affected soils would be removed and disposed of in accordance with applicable regulatory requirements and replaced with clean mineral fill to backfill the excavated areas.	Pre-construction	6.12.5.1 – Contaminated Site Potential

New Number	Old Number	Commitment	Project Phase	Application Reference
119	114	BCTC will monitor soils excavated in the vicinity of the foundations required for overhead structures, modifications at the substations and cable terminals, and from areas where treated poles are removed. Suspect contaminated soils, if any, will be stockpiled on liners and covered. If suspect contaminated soils are encountered, representative samples will be submitted to an independent laboratory for chemical characterization. Contaminated soils will either be treated onsite, or excavated and transported to an appropriate facility for treatment and disposal.	Construction	6.12.5.1, 6.12.5.2 – Contaminated Site Potential
120	115	BCTC will set aside treated wooden planks that are to be removed on tarps and covered to minimize potential for leaching of contaminants and disposed at an appropriate facility.	Construction	6.12.5.1 –Contaminated Site Potential
121	116	BCTC will donate the wood poles from the Project corridor to BC Wood Recycling.	Construction	6.12.5.1 –Contaminated Site Potential
122	117	BCTC will monitor work adjacent to the Shell service station near the Arnott Substation for the presence of contamination as a component of the construction environmental monitoring program.	Construction	6.12.5.1 – Contaminated Site Potential
123	118	BCTC will, where appropriate, over-excavate soil to remove residual sources of contamination, or pump affected groundwater directly from the open excavation areas into storage tanks or vacuum trucks for subsequent offsite disposal, and/or implement an <i>in-situ</i> treatment system to prevent groundwater contamination.	Construction	6.12.5.2 –Contaminated Site Potential
EMPLOYMENT AND HOUSING COMMITMENTS				
124	119	BCTC will work with its Contractors to develop and implement a housing and accommodations plan, where appropriate.	Construction	6.13.7.1 – Socio—Economic Environment
125	120	BCTC will direct its Contractors to notify local companies of contract opportunities and will hire competitive, qualified local workers if available and where appropriate to carry out Project activities.	Construction	6.13.7.1 – Socio—Economic Environment
FIRE HAZARD MANAGEMENT COMMITMENTS				
126	62	BCTC will develop and implement fire prevention and suppression measures, in consultation with local fire departments.	Construction, Operation and Decommissioning	6.3.5.8 – Wildlife and Terrestrial Habitat
127	121	BCTC will construct the overhead portions of the transmission line outside of peak fire season where reasonable.	Construction	6.13.5.4 – Socio—Economic Environment

New Number	Old Number	Commitment	Project Phase	Application Reference
128	122	BCTC will provide on-site fire fighting equipment and ensure that construction crews and contractors are familiar with the use of the equipment. BCTC will require workers to follow fire prevention measures outlined in the Project emergency response plan and EMP.	Construction	6.13.5.4 – Socio—Economic Environment
129	123	BCTC will require cable laying ships to have fire protection systems and staff trained in emergency medical response onboard that meet Canadian Coast Guard standards and will require that cable laying ships are equipped with staff trained in first aid to deal with onboard emergencies.	Construction	6.13.5.4 – Socio—Economic Environment
130	181	BCTC will implement the mitigation measures outlined in its Wildlife Risk Management System, Fuel Management Handbook and Vegetation Management Standard VM 06.190. BCTC will also adhere to applicable provincial legislation with respect to wildfires.	Construction, Operation and Decommissioning	8.1.3.2 – Effects of the Environment on the Project
EMERGENCY RESPONSE, PREPAREDNESS, SPILL PREVENTION AND REPORTING COMMITMENTS				
131		BCTC will establish an Operation and Maintenance Plan for Submarine Cables and Cable Terminals regarding use of insulating fluids, oils, fuels and other hazardous products employed in the construction and operation of the Project. The Operation and Maintenance Plan for Submarine Cables and Cable Terminals will also include immediate reporting to relevant regulatory authorities, including Environment Canada, of any spills, releases, leakages or losses of insulating fluid detected in the operation of the cable.	9.1.5.1	9.1.4.2 – Accidents and Malfunctions
132		BCTC will prepare its emergency contingency plans to meet current <i>BC Guidelines for Industry Emergency Response Plans</i> and/or the <i>CSA Z731-03-CAN/CSA Emergency Preparedness and Response standards</i> . Project personnel will be trained in plan implementation, and regular reviews will be undertaken to demonstrate the viability and currency of the emergency contingency plans.	9.1.5.1	9.1.4.2 – Accidents and Malfunctions
133		BCTC will prepare an Environmental Response Plan (ERP) related to the storage of Environmental Emergency (E2)-listed chemicals, where such chemicals are stored above specified threshold values, as defined by the <i>Canadian Environmental Protection Act (CEPA)</i> . Depending on the quantity at site(s), a specific Environmental Response Plan (ERP) or sections of an existing ERP may be required to address a particular chemical.	9.1.5.1	9.1.4.2 – Accidents and Malfunctions
134	124	BCTC will provide copies of emergency response plans, construction schedules, contact phone numbers, maps and other relevant materials to public support and emergency services in the Project area.	Construction, Operation and Decommissioning	6.13.5.4 – Socio—Economic Environment

New Number	Old Number	Commitment	Project Phase	Application Reference
135	128	BCTC will require its Contractors to provide trained personnel, equipment, and vehicles at the Project work sites capable of providing emergency medical treatment and transportation to medical service providers in accordance with WorkSafe BC and Occupational Health and Safety regulations.	Construction, Operation and Decommissioning	6.13.5.4 – Socio—Economic Environment
136	113	BCTC will maintain spill containment kits; regularly monitor equipment and vehicles for leaks; store chemicals in sealed containers with labels; and securely store waste materials to prevent leachate. Herbicides will not be stored at cable terminals or substations.	Construction, Operation and Decommissioning	6.12.5.1 – Contaminated Site Potential; 9.1.5.1, 9.1.4.2 – Accidents and Malfunctions
137		The Emergency Response and Spill Prevention Plan to be prepared by BCTC will require its Contractors to provide details on the contents and size of spill containment kits and how they will be deployed in the event of an environmental emergency or exercise.		
138	126	BCTC will provide information about road closures to public support and emergency services so they do not attempt to use roads that are closed when responding to calls.	Construction, Operation and Decommissioning	6.13.5.4 – Socio—Economic Environment
139		<p>BCTC will prepare an EMP for the operation and maintenance of the submarine cables and cable terminals that describes procedures and protocols for responding to a potential release, leakage, or loss of cable insulating fluid into the marine environment.</p> <p>BCTC will submit this EMP to Environment Canada – Emergencies, and other applicable agencies and interested and affected First Nations for review, prior to construction and operation of the submarine cables and modifications of the cable terminals.</p> <p>This EMP will provide independent confirmation from marine salvage experts that procedures to be used for stopping the flow of leaking cable insulating fluid in marine sections can be concluded within a 12 day time period. The EMP will also specify post-incident monitoring of the environment in the vicinity of affected areas. In the event of an incident, BCTC will commit to restoring affected areas and/or compensating for effects on fish and fish habitats following discussions with regulatory agencies, and interested and affected First Nations.</p>	9.1.5.1	9.1.4.2 – Accidents and Malfunctions

New Number	Old Number	Commitment	Project Phase	Application Reference
140	189	BCTC will implement its existing protocols to monitor equipment for leaks and contain leaked gasses, oils, fluids and implement repairs as soon as practically and feasibly possible. BCTC will consult with regulatory agencies and interested / affected First Nations on efforts being undertaken and time frames required to implement repairs related to equipment leaks and fluid losses.	Construction, Operation and Decommissioning	9.1.5.2 – Accidents and Malfunctions
141	191	<p>BCTC will employ an advanced leak detection system and flow limiting system on the cable fluid system.</p> <p>The cable fluid pumping equipment at each of the cable terminals will be designed to automatically monitor and regulate cable fluid pressure on a normal day-to-day basis. The system will be able to automatically detect events, such as equipment failure and loss of vacuum or pressures, and will trigger an alarm.</p> <p>In the event of a fluid leak and/or cable failure, the insulating fluid flows will be controlled automatically or by Supervisory Control and Data Acquisition (SCADA). The SCADA system at each cable terminal will provide control, with telemetry and alarms at BCTC's Control Centre. Reservoirs at each end of the cable terminals will be sufficient to supply fluid to a fully severed cable for up to 14 days, and restricted to a rate of 10 litres per hour.</p>	Operation	9.2.4.2 – Accidents and Malfunctions
142		BCTC will report any cable insulating fluid spills, releases, leakages or losses to the B.C. Environmental Emergency Program (1-800-663-3456), and to Environment Canada Emergencies (1-604 666-6100.)		
NOISE AND AIR QUALITY MANAGEMENT COMMITMENTS				
143	130	BCTC will schedule construction activities during daylight hours and will time equipment intensive work to occur Monday to Saturday where reasonable. The work schedule will however be dictated by tides and currents in the nearshore cable laying/ burial activities.	Construction	6.14.5.1 – Public Health; 7.11.5.1 – Public Health
144	131	BCTC will abide with local noise bylaws and implement noise controls.	Construction, Operation and Decommissioning	6.14.5.1 – Public Health; 7.11.5.1 – Public Health

New Number	Old Number	Commitment	Project Phase	Application Reference
145	133	BCTC and its Contractors will follow equipment maintenance schedules, use lowest sulphur-content fuel commercially available where reasonable, and minimize the area of activity.	Construction, Operation and Decommissioning	6.14.6.2 – Public Health
146	174	BCTC will require its cable removal and installation Contractors to maintain marine vessels, including workboats, outboard engines, power equipment, and machinery in good working order to reduce operational noise.	Construction	6.14.5.1 – Public Health; 7.11.5.1, 7.11.5.3 – Public Health
147	134	BCTC will control fugitive dust emissions by maintaining vehicles, and applying dust suppressants where appropriate.	Construction	6.14.6.2 – Public Health; 7.11.5.3 – Public Health
148	175	BCTC will limit the extent of clearing and restrict activities during windy conditions to minimize fugitive dust.	Construction	7.11.5.3 – Public Health
EMF MONITORING AND REPORTING COMMITMENTS				
149	132	BCTC will continue to monitor and report on the state of scientific and health research data, conclusions and public policy with respect to EMF exposure at power frequencies. BCTC has been direct to file a public report with the British Columbia Utilities Commission (BCUC) every two years, or sooner if there are major developments in the field, that summarizes the latest results of EMF risk assessments and any changes in guidelines developed by the World Health Organization, International Commission on Non-Ionizing Radiation Protection (ICNIRP), Health Canada and others where relevant. BCTC has an on-going program to make information available on its website.	Construction, Operation and Decommissioning	6.14.5.2 – Public Health
FIRST NATIONS EMPLOYMENT, COMMUNICATIONS, AND CULTURAL AWARENESS TRAINING COMMITMENTS				
150	135	BCTC will encourage Contractors to provide advance notice to local First Nations about potential opportunities and required qualifications. BCTC will provide equal opportunities to hire First Nations people with appropriate qualifications and skills from local communities when opportunities become available. BCTC will also purchase goods and services from First Nations businesses where such goods and services are available on a competitive basis.	Construction	6.15.5.1 – First Nations
151	136	BCTC will maintain communications through First Nations consultation, and will advise First Nations of construction schedule modifications. BCTC will also continue to collaborate with interested and affected First Nations.	Pre-Construction	6.15.5.2 – First Nations

New Number	Old Number	Commitment	Project Phase	Application Reference
152	137	BCTC's construction and decommissioning activities will incorporate considerations to minimize access restrictions in First Nations traditional and cultural use areas along the Project route.	Construction	6.15.5.2 – First Nations
153	138	BCTC will provide environmental and First Nations cultural awareness training for personnel to educate workers and contractors undertaking construction activities near traditional and cultural use areas. Native vegetation will be used during restoration activities.	Construction	6.15.5.3 – First Nations
MARINE RESOURCE MANAGEMENT COMMITMENTS – FISHERIES, INVERTEBRATES, & WATER QUALITY				
154	141	BCTC will develop an EMP for submarine cable burial which will describe monitoring of turbidity during cable burial, including cable chaseway work. Work will cease when turbidity thresholds are exceeded; work will not resume until turbidity is below threshold levels. BCTC will produce as part of the EMP, a project-specific Sediment Control Plan (SCP) which will be written in consultation with DFO and interested and affected First Nations.	Construction	7.1.5.2 – Geophysical Environment; 7.2.5.2 – Marine Fish; 7.3.5.2 – Marine Invertebrates; 7.4.5.1 – Marine Birds; 7.5.5.2 – Marine Mammals; 7.6.5.1, 7.6.5.3, 7.6.5.4 – Marine Vegetation 7.10.5.1 – Contaminated Sediments Potential
155	142	BCTC will conduct work within timing windows specified by DFO for marine operations.	Construction	7.2.5.1, 7.2.5.2 – Marine Fish; 7.3.5.1 – Marine Invertebrates; 7.4.5.1 – Marine Birds
156	140	BCTC will bury the submarine cables via water-jetting at English Bluff Terminal (EBT) and Taylor Bay Terminal (TBY) to minimize potential for suspension of sediments. BCTC will consider the use of a plow or other alternative methods to bury the cables at Montague Terminal (MTG) and Maracaibo Terminal (MBO). If alternate installation methods are required to minimize volume of sediment suspended (e.g., water jetting), BCTC will consult with DFO and interested and affected First Nations to evaluate differences in potential impacts among methods.	Construction	7.1.5.2 – Geophysical Environment; 7.2.5.1 – Marine Fish; 7.5.5.2 – Marine Mammals; 7.6.5.1 – Marine Vegetation; 7.10.5.1 – Contaminated Sediments Potential

New Number	Old Number	Commitment	Project Phase	Application Reference
157	1	BCTC will apply for a Disposal at Sea Permit from Environment Canada under Part 7, Division 3 of the <i>Canadian Environmental Protection Act</i> for the suspension of sediments while burying the cables in the intertidal areas at each cable landing site.	Pre-Construction	1.6.1 - Introduction
158	143	BCTC will apply to DFO for a Habitat Authorization Agreement under Section 35(2) of the <i>Fisheries Act</i> for construction of the marine aspects of the project.	Pre-Construction	7.2.5.2 – Marine Fish 7.6.5.1 – Marine Vegetation
159	144	BCTC will work with both DFO and Environment Canada to develop a long-term monitoring program that addresses the concerns regarding stability of the dendritic channel, and to identify methods to be applied if the existing channel begins to destabilize or new channels begin to form. If the dendritic channel becomes de-stabilized, BCTC will commit to compensating for additional effects on marine fish, invertebrates, and eelgrass habitats as specified following consultation with regulatory agencies and interested / affected First Nations.	Pre-Construction Construction	7.2.5.2 – Marine Fish 7.6.5.4 – Marine Vegetation
160	145	BCTC will conduct on-shore concrete pouring during low tides and implement best management practices in the EMP for the handling, placement, and curing of concrete to prevent concrete leachate from raising the pH of the surrounding waters.	Construction	7.2.5.1 – Marine Fish

New Number	Old Number	Commitment	Project Phase	Application Reference
161	146	<p>BCTC will remove encrusted organisms from the three 138 kV cables and return them to the marine environment through the use of high-pressure water, under the guidance and supervision of an Environmental Monitor. Efforts to remove motile invertebrates attached to the cables and return them to the marine environment during removal operations will be conducted under the guidance of the Environmental Monitor.</p> <p>The selection of BCTC's Environmental Monitor will be subject to review and approval by DFO based on their professional qualifications.</p> <p>In some instances, such as deep reef sponge sampling, the sampling program will be administered under the direct supervision of DFO scientists. Invertebrate and sponge sampling protocols will be developed by DFO Science in consultation with BCTC.</p> <p>The Environmental Monitor will report on the approximate quantity and species of marine organisms displaced during the removal of the 138 kV cables.</p> <p>Based on the monitoring results, compensation requirements for impacts on deep water habitats may be adjusted following consultation with regulatory agencies and interested / affected First Nations.</p>	Construction	7.3.5.1 – Marine Invertebrates
162	147	<p>BCTC will minimize sea bottom disturbance to a width of 1.0 m for each cable, or as permitted by DFO in the Habitat Authorization Agreement. If the width of disturbance exceeds a width of 1.0 m, habitat compensation requirements will be adjusted to reflect increases in project footprint. Adjustments to compensation requirements will be specified on the basis of area of impact and loss of productive capacity to existing habitats through consultation with regulatory agencies and interested / affected First Nations.</p>	Construction	7.3.5.1, 7.3.5.2 – Marine Invertebrates; 7.4.5.1 – Marine Birds
163	148	<p>BCTC will use an ROV during removal and installation of the submarine cables within the Strait of Georgia and Trincomali Channel as a tool for viewing and inspecting cable removal and installation procedures to avoid, and where avoidance is not possible, to minimize potential impacts to sponge reef species.</p>	Construction	7.3.5.1 – Marine Invertebrates
164	149	<p>BCTC will work in consultation with Environment Canada to determine if additional sampling to delineate cadmium levels at Montague Harbour Terminal will be required.</p>	Pre-construction	7.3.5.2 – Marine Invertebrates

New Number	Old Number	Commitment	Project Phase	Application Reference
165	150	BCTC will require its contractors to select work boats and work methods which limit propeller wash when used in shallow waters in accordance with the marine EMP, and as per the <i>Draft Eelgrass Impact Minimization Plan for Vessel Operations</i> , dated November 2, 2006. BCTC's cable installation contractor will be required to prepare an Environmental Protection Plan (EPP) describing work methods and mitigation measures to be employed for controlling propeller wash disturbance in consultation with DFO and interested and affected First Nations.	Construction	7.3.5.2 – Marine Invertebrates; 7.4.5.1 – Marine Birds
166	151	BCTC will continue to provide information about the project to First Nations, as well as commercial and recreational shellfish organizations for dissemination to their respective members. BCTC will provide advance notification to Fisheries and Oceans Canada (DFO), interested / affected First Nations, and each of the commercial and recreational shellfish organizations of the scheduled cable removals (summer 2007), and cable installation (summer 2008) to minimize possible conflicts with their respective harvesting operations.	Pre-Construction Construction	7.3.5.1, 7.3.5.2, 7.5.3.3 – Marine Invertebrates
MARINE RESOURCE MANAGEMENT COMMITMENTS – MARINE BIRDS & MAMMALS				
167	152	BCTC will minimize habitat alteration within 4 km of known Great Blue Heron nesting colonies to protect foraging areas, particularly at English Bluff.	Construction	7.4.5.1 – Marine Birds
168	153	BCTC applied for a <i>Wildlife Act</i> Permit on December 18 th , 2006 to relocate an Osprey nest from one of the overhead structures on Salt Spring Island.	Pre-Construction	7.4.5.1 – Marine Birds
169	154	BCTC will, where reasonable, schedule work outside the peak marine bird migration periods (Spring and Fall).	Construction, Operation, Decommissioning	7.4.5.1, 7.4.5.2 – Marine Birds
170	155	Bird sensitivities relating to the marine environment during the fall, spring, and winter periods will be incorporated into the development of the Wildlife Resource and Habitat Mitigation Plan as described in Section 13.3.2 of the EAC Application. The Wildlife Resource and Habitat Mitigation Plan will be developed as a component of the EMP in consultation with MOE, CWS, and interested and affected First Nations.	Pre-Construction Construction	7.4.5.1, 7.4.5.2, 7.4.5.3 – Marine Birds
171	156	BCTC will limit disturbances at traditional coastal moulting sites to the greatest degree possible.	Construction	7.4.5.2 – Marine Birds
172	157	BCTC will restrict vessel speeds to 7.2 m/s (14 knots) in the Strait of Georgia.	Construction	7.5.5.1 – Marine Mammals

New Number	Old Number	Commitment	Project Phase	Application Reference
173	158	BCTC will contact the marine mammal observer daily to assess proximity of marine mammals to the Project area. Cable laying will commence when marine mammals are not in the vicinity.	Construction	7.5.5.2 – Marine Mammals
174	159	BCTC will monitor marine mammals with onboard qualified observers who will conduct visual survey techniques and remain in communication with the vessel operator.	Construction	7.5.5.1, 7.5.5.2 – Marine Mammals
175	160	BCTC will provide a shore based marine mammal observer to be present during cable burial in shallow water (<3 m).	Construction	7.5.5.2 – Marine Mammals
176	188	BCTC will develop and implement a Hazardous Materials Handling Plan and an Emergency Response and Spill Prevention Plan to minimize potential impacts to marine birds, as part of the overall EMP for the marine component of the Project. The EMP will be prepared in consultation with regulatory agencies having jurisdiction, and interested and affected First Nations.	Construction, Operation and Decommissioning	7.4.5.3 – Marine Birds 9.1.4.2, 9.1.5.2, 9.2.3.2 – Accidents and Malfunctions
MARINE RESOURCE MANAGEMENT COMMITMENTS – MARINE VEGETATION & EELGRASS HABITAT MITIGATION AND COMPENSATION				
177	161	BCTC will reduce the temporal loss of eelgrass at Roberts Bank and Taylor Bay by developing eelgrass habitat compensation in advance of cable installation for review and approval by DFO, and by restoring disturbed areas immediately following cable installation. At Taylor Bay, BCTC will work with its contractor to locate the cables where the minimum level of environmental disturbance will occur. BCTC will replace gravel, cobble, and boulders that are removed from the ROW immediately following cable installation to allow seaweeds to become re-established.	Construction	7.6.5.1 – Marine Vegetation
178	162	BCTC will conduct cable burial outside critical April to June growth period for eelgrass, where reasonable. BCTC will conduct work within timing windows specified by DFO for marine operations.	Construction	7.6.5.2 – Marine Vegetation
179	163	BCTC will plan and schedule cable burial activities to coincide with high and ebb tides where reasonable.	Construction	7.6.5.2, 7.6.5.3 – Marine Vegetation; 7.10.5.1 – Contaminated Sediments Potential

New Number	Old Number	Commitment	Project Phase	Application Reference
180	164	<p>BCTC will prepare a scientifically defensible Habitat Compensation Plan to achieve no-net-loss of aquatic habitat on Roberts Bank, Taylor Bay, Galiano Ridge and other affected areas, consistent with DFO's Policy for the Management of Fish Habitat, and with the provisions of Section 35(2) of the <i>Fisheries Act</i> for review and approval by DFO.</p> <p>The Habitat Compensation Plan will specifically address impacts of the project on:</p> <ul style="list-style-type: none"> • Eelgrass habitats (at Roberts Bank and Taylor Bay), • Sponges and deep water areas (across the Strait of Georgia and Trincomali Channel), • Rocky reef habitats (across Galiano Ridge and Trincomali Channel), and • Intertidal areas (at four Terminal landings EBT, TBY, MBO, MTG). <p>Details of the Habitat Compensation Plan will be determined in discussions with DFO, Washington State Department of Fish and Wildlife, interested and affected First Nations, and the Islands Trust. These details will include, but will not necessarily be limited to:</p> <ul style="list-style-type: none"> • identifying clear goals, measurable objectives, and performance measures for implementing compensation activities and evaluating compensation success; • using a compensation ratio of up to 2:1 (area of compensated habitat to habitat lost), or as otherwise specified by DFO; • site-specific requirements for creation and re-establishment of eelgrass habitats at the English Bluff and Taylor Bay cable landing sites; • reduction of the temporal loss of eelgrass habitat by developing eelgrass habitat compensation in advance of cable installation for review and approval by DFO, and restoring disturbed areas immediately following cable installation; • protocols for transplanting of donor eelgrass along the trenches following installation of the three submarine cables; • requirements for location and source of donor eelgrass; • re-contouring and re-instatement of substrate; • protection of sponge reefs in the vicinity of Galiano Ridge; • using a scientifically rigorous and long-term (minimum 5-year period, as per Commitment No. 2) environmental monitoring program that evaluates the biological effectiveness of compensation activities; • committing to future compensation actions (based on discussions with regulatory agencies and interested / affected First Nations) if criteria for compensation success are not achieved; and environmental reporting requirements. 	Construction	7.6.5.2 – Marine Vegetation

New Number	Old Number	Commitment	Project Phase	Application Reference
181		<p>BCTC will conduct a long term adaptive monitoring program in partnership with DFO Science and academic institution(s) to assess current and future effects on sub-tidal sponge reef habitats along Galiano Ridge, related to the removal and installation of the submarine cables.</p> <p>The monitoring program will be established in consultation with DFO Science and is expected to identify a variety of short and long-term monitoring objectives, including but not limited to:</p> <ul style="list-style-type: none"> • data collection requirements, • control sites, • monitoring frequency, • data sharing agreements, and • recovery criteria which may terminate or modify the frequency and or duration of the program. <p>BCTC acknowledges that DFO may require the monitoring objectives to be established for cable removal and installation within the first 5 years of the long term adaptive monitoring program within the Section 35(2) <i>Fisheries Act</i> Habitat Authorization Agreement.</p> <p>BCTC will participate in a program developed by regulatory agencies, interested / affected First Nations, academic institution(s) and/or other industries or organization operating in the Roberts Bank area to monitor biological and habitat changes over the long-term within Roberts Bank.</p>	Construction	
182	165	<p>BCTC will remove hard substrates prior to trenching and replace them after construction to allow for seaweeds to re-establish and to ensure that the elevation and substrate composition are similar to pre-VITR Project conditions.</p>	Construction	<p>7.1.5.1 – Geophysical Environment; 7.6.5.2, 7.6.5.3 – Marine Vegetation</p>

New Number	Old Number	Commitment	Project Phase	Application Reference
183	167	<p>BCTC will establish a goal of maintaining a minimum of 9 metres of eelgrass between each of the cable trench corridors.</p> <p>In the event that this goal may not be possible due to construction procedures or due to the physical attributes and limitations of the work areas, BCTC is committed to adjusting its fish habitat compensation requirements to reflect adverse effects on marine fish and habitats. Compensation adjustments will be based on consultation with regulatory agencies, and interested / affected First Nations.</p> <p>Success criteria for eelgrass compensation works will be established by regulatory agencies and include a post construction monitoring assessment.</p>	Construction	7.6.5.1 – Marine Vegetation
184	173	BCTC will remove three of the 138 kV submarine cables from the Strait of Georgia and Trincomali Channel.	Construction	7.10.5.2 – Contaminated Sediments Potential
MARINE ARCHAEOLOGICAL RESOURCE MANAGEMENT COMMITMENTS				
185	168	BCTC will provide archaeological awareness training to the cable burial personnel at TBY, as well as conducting archaeological monitoring during cable burial at TBY, where necessary, to monitor the process and inspect bulk sediment samples for archaeological artifacts.	Construction	7.7.3.1 – Archaeological and Cultural Resources
186	169	Archaeological monitoring of the intertidal trench excavation will be conducted with First Nation witnesses along the nearshore area of the cable landing at Taylor Bay Terminal.	Construction	7.7.3.1 – Archaeological and Cultural Resources
MARINE NAVIGATION & INFRASTRUCTURE MANAGEMENT COMMITMENTS				
187	170	BCTC will develop and implement a Marine Traffic Management Plan in consultation with Marine Communications and Traffic Services (MCTS), BC Ferries, the Vancouver Port Authority and the Canadian Coast Guard. The Marine Traffic Management Plan will include measures to address the potential for disruption of marine traffic.	Construction	6.10.5.1 – Navigation 7.8.5.1 – Navigation 9.2.1.2 – Accidents and Malfunctions

New Number	Old Number	Commitment	Project Phase	Application Reference
188	171	<p>BCTC will notify the following organizations, local governments, and in some cases private landowners, prior to undertaking work within each of the following areas:</p> <ul style="list-style-type: none"> Galiano Island / Parker Island (TBY): Water supply distribution line (CRD) and Private wells and septic fields (Landowners); and Salt Spring Island (MBO): Private wells and septic fields (Landowners), Cedar Lane Water District, North Salt Spring Island Water District, and Ganges Sewer Commission <p>BCTC will advise these organizations, where required, of the intended scope and schedule of the work, including the mitigation measures to minimize effects, if any, on the respective infrastructure and utilities.</p>	Construction	6.11.5.3 – Transportation and Utilities 7.9.5.1 – Infrastructure and Utilities
ENGINEERING DESIGN AND QUALITY CONTROL/ QUALITY ASSURANCE COMMITMENTS				
189	176	BCTC will require that cable terminals have been seismically tested to confirm that the guaranteed minimum strength of individual components will not be less than two times the stress induced by the combined loading of insulating fluid pressure and seismic loading.	Construction	8.1.1.2 – Effects of the Environment on the Project
190	177	BCTC will have detailed engineering drawings of the overhead transmission infrastructure, including modifications at ARN and VIT prepared and sealed by Registered Professional Engineers, licensed and authorized to practice in British Columbia. During construction, all works will be inspected to confirm compliance with engineering specifications.	Pre-Construction	8.1.1.2 – Effects of the Environment on the Project
191	178	BCTC will apply hard and soft engineering solutions to provide cut slope stability.	Construction	8.1.2.2 – Effects of the Environment on the Project
192	179	BCTC will design and construct all infrastructure associated with substation and cable terminal improvements, and overhead structures and structure to withstand operational and seismic conditions. All buildings will be designed in accordance with the National Building Code of Canada and new station equipment to be designed in accordance with the High Seismic Qualification Level in IEEE Standard 693.	Pre-Construction	8.1.1.2, 8.2.1.2 – Effects of the Environment on the Project
193	139	BCTC will require that a detailed survey of the cable route be undertaken by the cable contractor to establish the exact location where each cable will be laid to prevent excess strain on a segment of cable resulting in damage or failure of submarine cables.	Pre-Construction	7.1.3.4 – Geophysical Environment

New Number	Old Number	Commitment	Project Phase	Application Reference
194	180	BCTC will locate the new overhead structures at sufficient distances from the 34 watercourses along the ROW to minimize potential for scour and erosion of the foundations caused by flows.	Construction	8.1.2.2 – Effects of the Environment on the Project
195	182	BCTC will limit work during extreme weather conditions, and cease work if weather conditions are considered unsafe to personnel.	Construction	8.2.2.2, 8.1.4.2 – Effects of the Environment on the Project
196	184	BCTC will protect submarine cables in the upper intertidal areas with protective split covers.	Construction	8.2.1.2 – Effects of the Environment on the Project
197	185	BCTC will incorporate corrosion resistance into the submarine cables design.	Construction	8.2.1.2 – Effects of the Environment on the Project
198	186	BCTC will require personnel to have electrical hazard training to reduce the risk of potential accidents.	Construction	9.1.1.2 – Accidents and Malfunctions
199	190	BCTC will specify cable construction with protective coverings to minimize the effects of abrasion, and cables will be buried in the shallow waters (i.e. rises) of Trincomali Channel and the Strait of Georgia to reduce the risk of cable damage from anchors, bottom-trawling, tugboats and vessel grounding.	Construction	9.2.2.2, 9.2.4.2 – Accidents and Malfunctions
COMMUNICATIONS PLAN COMMITMENTS				
200	192	BCTC will develop and implement a Public Communications Plan to detail how BCTC will notify the public and other stakeholders regarding project schedule, major construction activities, environmental management planning procedures, environmental monitoring programs, and reporting feedback systems. The public and other stakeholders will be notified of maintenance, repair and decommissioning activities in a manner appropriate to the timing and scope of work.	Construction, Operation and Decommissioning	6.6.5.1, 6.6.5.2, 6.6.5.3, 6.6.5.4 – Land Use 6.7.5.4, 6.7.5.5 - Agriculture 6.8.7.1, 6.8.7.3 – Parks and Recreation 6.10.5.1 - Navigation 6.11.5.1, 6.11.5.2, 6.11.5.3 – Transportation and Utilities 6.13.7.1, 6.13.5.4 – Socio-Economic Environment 7.8.5.1 – Navigation 7.9.5.1 – Infrastructure 9.2.1.2 – Accidents and Malfunctions

New Number	Old Number	Commitment	Project Phase	Application Reference
TRADITIONAL USE STUDIES COMMITMENTS				
201	193	Upon completion of the Traditional Use Studies (TUS) that are currently in progress, BCTC will work with First Nations to avoid, mitigate, and compensate for un-mitigated potential effects on traditional use resulting during construction and operation of the Project, that may not have already been addressed through the EAC Application.	Construction and Operation	6.15