

Table A1-1 Detailed Table of Concordance between the Approved AIR/EIS Guidelines and the EAC Application/EIS for the Proposed BURNCO Aggregate Project

Approved AIR/EIS Guidelines ^{Note 1}					EAC Application/EIS ^{Note 2}											
Section					Description of Relevant Section/Sub-section	No.	Item	Volume	Part	Section					Page (Note 3)	
Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X		
-	Table of Concordance	-	-	-	Table of Concordance	1	The Proponent will provide a Table of Concordance in the EAC Application/EIS formatted as shown in Table 1. The completed table will demonstrate concordance between the Approved AIR/EIS Guidelines and the EAC Application/EIS for the Proposed Project.	1	-	Table of Concordance	-	-	-	-	-	lxvi
-	Preface	-	-	-	Preface to the EAC Application/EIS	2	Describe the rationale for the review of the Proposed Project under the British Columbia Environmental Assessment Act, SBC 2002, c.43 (BCEAA), and the former Canadian Environmental Assessment Act;	1	-	Preface	-	-	-	-	-	lxvii
-	Preface	-	-	-	Preface to the EAC Application/EIS	3	Describe other EA approval processes the Proposed Project is undergoing, if any; and	1	-	Preface	-	-	-	-	-	lxvii
-	Preface	-	-	-	Preface to the EAC Application/EIS	4	Confirm that the EAC Application/EIS has been developed in accordance with the Approved AIR/EIS Guidelines and that relevant instructions and conditions described in the EA procedural order issued under Section 11 of BCEAA (Section 11 Order).	1	-	Preface	-	-	-	-	-	lxvii
-	Acronyms	-	-	-	Acronyms and Abbreviations	5	The EAC Application/EIS will contain a list of acronyms and abbreviations used throughout the document.	1	-	Acronyms	-	-	-	-	-	lxviii
-	Executive Summary	-	-	-	Executive Summary	6	Brief description of the Proposed Project;	1	-	Executive Summary	-	-	-	-	-	lxxiv
-	Executive Summary	-	-	-	Executive Summary	7	Brief description of the environmental setting;	1	-	Executive Summary	-	-	-	-	-	lxxiv
-	Executive Summary	-	-	-	Executive Summary	8	Summary of the key potential effects assessed;	1	-	Executive Summary	-	-	-	-	-	lxxiv
-	Executive Summary	-	-	-	Executive Summary	9	Summary of the proposed mitigation measures identified to address potential effects of the Proposed Project;	1	-	Executive Summary	-	-	-	-	-	lxxiv
-	Executive Summary	-	-	-	Executive Summary	10	Summary of the predicted potential residual effects (direct and cumulative) of the Proposed Project and their significance;	1	-	Executive Summary	-	-	-	-	-	lxxiv
-	Executive Summary	-	-	-	Executive Summary	11	Summary of proposed follow-up programs, if any;	1	-	Executive Summary	-	-	-	-	-	lxxiv
-	Executive Summary	-	-	-	Executive Summary	12	Summary of the estimated benefits of the Proposed Project benefits; and	1	-	Executive Summary	-	-	-	-	-	lxxiv
-	Executive Summary	-	-	-	Executive Summary	13	Conclusions of the assessment.	1	-	Executive Summary	-	-	-	-	-	lxxiv
-	Executive Summary	-	-	-	Executive Summary	14	The Executive Summary to the EAC Application/EIS will be provided in both official languages (English and French).	1	-	Executive Summary	-	-	-	-	-	lxxiv (Stand Alone versions provided in both English and French)

PART A - INTRODUCTION AND BACKGROUND

1.0 PURPOSE OF THE EAC APPLICATION/EIS

A	1	-	-	-	Part A - Introduction and Background	14a	Part A of the AIR/EIS Guidelines will address the purpose of EAC Application/EIS, provide an overview of the Proposed Project, and introduce BURNCO Rock Products Ltd. (BURNCO, the Proponent) and their Project Team.	1	A	1	-	-	-	-	-	1-1
A	1	-	-	-	1. Purpose of the EAC Application/EIS	15	The EAC Application/EIS is intended to fulfill the requirements for an environmental assessment (EA) under both the British Columbia Environmental Assessment Act, SBC 2002, c.43 (BCEAA), and the former Canadian Environmental Assessment Act (CEAA). The purpose of the EAC Application/EIS will be clearly described.	1	A	1	-	-	-	-	-	1-1

2.0 PROPOSED PROJECT OVERVIEW

A	2	2.1	-	-	2.1 Proponent Description	16	The EAC Application/EIS will provide information (history, description and contact information) on BURNCO Rock Products Ltd. (BURNCO, the Proponent).	1	A	2	2.1	-	-	-	-	2-1
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A	2	2.1	-	-	2.1 Proponent Description	17	The qualifications and expertise of the professional(s) who prepared each section of the Application/EIS will also be presented.	1	A	2	2.1	2.1.1	-	-	2-2
A	2	2.1	-	-	2.1 Proponent Description	17a	BURNCO is a private business that was founded in 1912, with BC operations established in the Metro Vancouver, Shuswap and Okanagan regions in 2004. The Proponent has operations in Saskatchewan, Alberta and BC, and is Canada's largest independent ready-mix concrete and aggregate company. The Proponent employs over 1,000 people nationally and has developed four main divisions within its operations, as follows: - Aggregate operations to supply sand, gravel and crushed stone used in construction (i.e., a permitted aggregate project near West Kelowna has recently been developed to supply the central Okanagan); - Landscape centres to distribute landscape materials to contractors and homeowners in Alberta and BC; - Ready-mix operations to provide concrete to construction projects throughout BC and Alberta; and - Asphalt operations to produce a range of hot and cold mixes for paving projects in Alberta.	n/a - Contextual/Descriptive							
A	2	2.1	-	-	2.1 Proponent Description	17b	Key Proponent Contacts are as follows: Proponent: BURNCO Rock Products Ltd www.BURNCO.com Mr. Derek Holmes, Regional Manager B.C. Aggregate Division BURNCO Rock Products Ltd 1A, 2760 Emerson Street. Abbotsford, BC V2T 3J6 Phone: 604-345-4382, Fax: 604-859-3319 E-mail: Derek.holmes@burnco.com Mr. J. Kim Titus, Vice President Aggregate Division BURNCO Rock Products Ltd 200, 155 Glendeer Circle S.E. Box 1480, Station T Calgary, AB T2H 2P9 Phone: 403-255-2600, Fax: 403-255-0323 E-mail: Kim.titus@burnco.com	n/a - Contextual/Descriptive							
A	2	2.2	-	-	2.2 Proposed Project Description	18	The EAC Application/EIS will describe all phases of the Proposed Project to sufficient detail to predict potential effects. The EAC Application/EIS will include the following:	1	A	2	2.5	-	-	-	2-19
A	2	2.2	-	-	2.2 Proposed Project Description	19	Proposed Project location and the longitude and latitude of the site and maps showing both regional context (including the identification of nearby communities), and site-specific setting;	1	A	2	2.4	2.4.1	-	-	2-14
A	2	2.2	-	-	2.2 Proposed Project Description	20	Purpose and need for the Proposed Project;	1	A	2	2.2	-	-	-	2-3
A	2	2.2	-	-	2.2 Proposed Project Description	21	Geographic setting and topographic setting, including drainages and watersheds, in which the Proposed Project is proposed to take place;	1	A	2	2.3	-	-	-	2-4
A	2	2.2	-	-	2.2 Proposed Project Description	22	Summary of the regional ecosystems of the Proposed Project setting;	1	A	2	2.3	2.3.4	2.3.4.1	2.3.4.1	2-7
A	2	2.2	-	-	2.2 Proposed Project Description	23	Summary of environmentally sensitive areas. This is defined by the CEA Agency as areas that already have a land-use designation assigned by the province, or habitat/places identified through baseline work that would warrant special avoidance/mitigation measures (e.g., stick nests, rare plant areas, stands of culturally modified trees);	1	A	2	2.3	2.3.4	2.3.4.2	2.3.4.2	2-7
A	2	2.2	-	-	2.2 Proposed Project Description	24	General climatic conditions of the Proposed Project setting;	1	A	2	2.3	2.3.2	-	-	2-5
A	2	2.2	-	-	2.2 Proposed Project Description	25	General surface and groundwater systems, including proposed sources of water and the number of required stream/creek/river crossings;	1	A	2	2.3	2.3.3	2.3.3.3	2.3.3.3	2-7

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A	2	2.2	-	-	2.2 Proposed Project Description	26	Project-related water requirements and associated water uses;	1	A	2	2.3	2.3.3	2.3.3.3	2.3.3.3	2-7
A	2	2.2	-	-	2.2 Proposed Project Description	27	Indication of the distance to nearby communities and temporary human receptor sites (i.e., youth camps) in the Howe Sound area, and notations for these locations on the regional map;	1	A	2	2.3	2.3.5	2.3.5.1	2.3.5.1	2-8
A	2	2.2	-	-	2.2 Proposed Project Description	28	Description of the Aboriginal groups' traditional territories in which the Project is proposed to take place;	1	A	2	2.3	2.3.5	2.3.5.2	2.3.5.2	2-10
A	2	2.2	-	-	2.2 Proposed Project Description	29	Indication of the distance to the locations of First Nations reserves and temporary First Nation use sites (i.e., areas used for ceremonial purposes, fishing/hunting camps, etc.);	1	A	2	2.3	2.3.5	2.3.5.2	2.3.5.2	2-10
A	2	2.2	-	-	2.2 Proposed Project Description	30	Description of the relevant history of the Proposed Project (e.g., mineral exploration history, industrial use, past proposals to BCEAO or federal agencies);	1	A	2	2.4	2.4.2	-	-	2-14
A	2	2.2	-	-	2.2 Proposed Project Description	31	Description of all on-site components and associated on-site and off-site infrastructure and other facilities associated with the Proposed Project, including figures of components (during site enabling, aggregate mining, processing, barge loading and progressive remediation);	1	A	2	2.5	2.5.1	-	-	2-22
A	2	2.2	-	-	2.2 Proposed Project Description	32	Specifications and other supporting documents for proposed aggregate processing equipment (i.e., for screening, crushing, and washing);	1	A	2	2.5	-	-	-	2-19
A	2	2.2	-	-	2.2 Proposed Project Description	33	A list of anticipated project-related gas powered on-site equipment;	1	A	2	2.5	-	-	-	2-19
A	2	2.2	-	-	2.2 Proposed Project Description	34	Description and notional schedule of the activities associated with construction, operation, and reclamation and closure of the Proposed Project;	1	A	2	2.5	-	-	-	2-19
A	2	2.2	-	-	2.2 Proposed Project Description	35	Description of the capital construction phase and length or lifetime of the Proposed Project in years; and	1	A	2	2.5	-	-	-	2-19
A	2	2.2	-	-	2.2 Proposed Project Description	36	A summary of the Environmental Management System (EMS) and adaptive management approach for the Proposed Project. This will include a description of the Proponent's approach to development of the Proposed Project within the framework of sustainable development, including stewardship for the environment.	1	A	2	2.5	2.5.3	2.5.3.1	2.5.3.1	2-35
A	2	2.2	-	-	2.2 Proposed Project Description	36a	A detailed Project Description (dated February 8, 2010) was submitted to the BCEAO as the basis for designating the Proposed Project as a "reviewable project" under BCEAA. The February 8, 2010 Project Description was also provided to the CEA Agency; an updated Project Description (dated December 16, 2011) was subsequently submitted to both the BCEAO and the CEA Agency. Refinements to the size and orientation of some on-site components were made following detailed engineering design of the processing area and the associated system of tunnels and above ground conveyors.	n/a - Contextual/Descriptive							

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A	2	2.2	-	-	2.2 Proposed Project Description	36b	A general description of the proposed BURNCO Aggregate Project is described below. Refinements made to the Proposed Project over time to address operational issues, and comments and concerns raised by agencies, First Nations and the public are presented in Table 2.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.1	-	2.2.1 Project Location	36c	The Proposed Project is located on a flat, glacial fan-delta deposit comprising sand and gravel on the western shore of Howe Sound's Thornbrough Channel, north of Gambier Island. The Proposed Project is located approximately 22 km west-southwest of Squamish and 35 km northwest of Vancouver (Figure 1), with geographic coordinates of 49degrees 34' 00"N, 123degrees 23' 20"W.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.1	-	2.2.1 Project Location	36d	The Proposed Project is located on a 30 hectare (ha) portion of a 320 ha, privately-owned property ("the Property") that has been owned since 2008 by 0819042 BC Ltd and BURNCO Rock Products Ltd. The individual properties that together comprise the Property are: - DL 677 LD 37 New Westminster Group 1; - DL 677A LD 37 New Westminster Group 1; - DL 6778 LD 37 New Westminster Group 1; - PCL A DL 677B LD 37 New Westminster Group 1; and - Foreshore Tenure #240515.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.1	-	2.2.1 Project Location	36e	The Property was formerly four-wheel-drive accessible along a network of logging roads. However, many of these roads were decommissioned in 2008 and 2009 under existing obligations by Canfor Ltd. (a previous site owner), and consequently vehicular access is via all-terrain-vehicle only. Outside the Property, a road passes along the western side of the valley, with other roads and paths branching off to access other areas (Figure 2). The Proponent does not plan to improve the direct road access to the Property.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.1	-	2.2.1 Project Location	36f	Currently, the Property is readily accessible only by boat, float plane or helicopter, which can land at the west portion of the site beach area at an existing dock and shoreline barge loading area.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.1	-	2.2.1 Project Location	36g	McNab Creek (BC Watershed Code 900-106300) flows along the east side of the Property outside the Proposed Project area. McNab Creek is a 12.7 km long fourth-order watercourse that drains directly into the marine environment of Howe Sound.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.1	2.2.1.1	2.2.1.1 Industrial Site History	36h	Logging activity in the valley dates back to 1900 and has continued on the site, most recently, in the upper watershed since 2012. The McNab mainline forest road and 48 culverts have been upgraded by BCTS in 2011 / 2012 to support forest harvesting on crown lands north the Proponent's property. Canfor began large-scale logging operations in the valley in the 1970s and established a logging camp, warehouse and maintenance facilities near the beach. Canfor also established a water licence on Harlequin Creek (now held by the Proponent) and ran a log dump and storage area in proximity to the camp until the late 1990s. In addition to forestry activities, rock quarrying in the valley began in 1941 through the establishment of a small rock quarry near the river mouth to supply material for the construction of logging roads.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.1	2.2.1.1	2.2.1.1 Industrial Site History	36i	In 1965, BC Hydro constructed a 138kV transmission line across the southern shoreline portion of the property. The transmission line right-of way is 50m in width and runs across approximately 2 km of the Proponent's private lands.	n/a - Contextual/Descriptive							

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A	2	2.2	2.2.1	2.2.1.1	2.2.1.1 Industrial Site History	36j	A groundwater channel was constructed on the Property in three phases between 1985 and 2003 (Figure 2): - Phase 1 - The first (and furthest downstream) portion of the channel was constructed in 1985; - Phase 2 - The middle portion of the channel was constructed in 1998; and - Phase 3 - The upper portion of the channel (above the BC Hydro ROW) was constructed from 2001 to 2003. The channel was primarily designed and constructed by DFO as habitat compensation for work (e.g., dredging) undertaken off-site by Howe Sound Pulp and Paper Limited Partnership (HSLP). The objective of the constructed channel was to provide spawning and rearing habitat for chum and coho salmon. The channel is approximately 1,225 m long, with an average wetted width of approximately 4 to 12 m. It is groundwater-fed; no water from McNab Creek flows directly into the constructed channel.							n/a - Contextual/Descriptive	
A	2	2.2	2.2.1	2.2.1.1	2.2.1.1 Industrial Site History	36k	To reach the water table, Phase 3 was constructed within a deep (> 6 to 9 m) excavated ditch. The banks of this ditch are long (>15m) and steep, with a grade of approximately 1.2 Horizontal: 1 Vertical (> 40° slope), and composed of sand, gravel, and cobbles. The fine material in the ditch banks is eroding into the channel, and consequently the spawning substrates in the Phase 3 constructed channel have become covered by and embedded within fine sediment material. Only short segments of the upper portion of the channel appear to be functioning as spawning habitat for chum salmon. The lower and middle currently function only as juvenile salmonid rearing habitat.							n/a - Contextual/Descriptive	
A	2	2.2	2.2.1	2.2.1.1	2.2.1.1 Industrial Site History	36l	In 1997, Westcoast Gas Services proposed an above-ground liquid natural gas (LNG) storage facility in the upper valley. Although it received a provincial EA Approval in 1999, the LNG project was not developed. AJB Investments Ltd (AJB), a division of the Surespan Group of Companies, owned the site between 2004 and 2006, and sought the development of a sand and gravel pit in the lower portions of the property. However, AJB did not obtain a Mine Permit for this development. In 2006 Canadian National Investments (CNI) purchased the site and undertook forest harvesting across >90% the property during their period of site ownership. CNI also undertook preliminary planning for a rail depot, deep-sea container port, along with a sand and gravel quarry on the site. These projects did not proceed beyond the planning stage and on April 4, 2008 the Proponent's sister company, 0819042 BC Ltd, purchased the site.							n/a - Contextual/Descriptive	
A	2	2.2	2.2.1	2.2.1.1	2.2.1.1 Industrial Site History	36m	The Property is located in the Sunshine Coast Regional District (SCRD) and is presently designated as private land zoned as rural land use, with no zoning for the foreshore area adjacent to the site. The Proponent currently holds all mineral tenures and mining claims on the entire Property.							n/a - Contextual/Descriptive	
A	2	2.2	2.2.2	-	2.2.2 Project Background	36o	Previous investigations indicate that a potential aggregate resource is present on the Property. Construction aggregates are produced from sand, gravel and crushed rock, which are naturally-occurring, environmentally benign materials. The production of aggregate relies solely on physical processes (e.g., sizing, crushing and washing) and no chemical processing is involved.							n/a - Contextual/Descriptive	
A	2	2.2	2.2.2	-	2.2.2 Project Background	36p	Aggregates are used in a wide range of construction and development uses, with each application consuming significant volumes of specialized aggregate products produced by sand and gravel pits, and/or quarries. Cumulatively, 10 to 15 tonnes of aggregate per year are consumed for every BC resident.							n/a - Contextual/Descriptive	

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A	2	2.2	2.2.2	-	2.2.2 Project Background	36q	With the steady growth of the population of BC's South Coast, along with continued depletion of existing local aggregate supplies, there is a need to locate and develop new sources of aggregate in proximity to the Lower Mainland. The relative cost of aggregate is often low, but transportation costs are high, often eclipsing the cost of the product. Shipping by barge on water, rather than trucking, is the most cost-effective way of transporting aggregate products, and shipping short distances by water further reduces environmental and societal costs.					n/a - Contextual/Descriptive		
A	2	2.2	2.2.2	-	2.2.2 Project Background	36r	The Proponent's concrete plants in the Lower Mainland are currently supplied with aggregate purchased and shipped 360 km from the Orca Sand and Gravel Quarry at Port McNeil on northern Vancouver Island. The Proponent proposes to develop its own aggregate source much closer to its existing ready-mix concrete plants in the Lower Mainland. A closer supply of sand and gravel to the Lower Mainland, with reduced transportation costs, will provide more sustainable environmental options to facilitate future viable business growth. The Proponent's three other divisions (i.e., concrete, aggregate and landscape) require access to an aggregate resource to meet projected demands in the BC marketplace. Development of the Proposed Project will result in a 280 km one-way reduction in tug and barge tow distance between the current primary aggregate sources (i.e., Port McNeil) to the Proponent's Lower Mainland operations.					n/a - Contextual/Descriptive		
A	2	2.2	2.2.2	-	2.2.2 Project Background	36s	Based on preliminary volume estimates, the aggregate resource is projected at 20 million tonnes of sand and gravel, giving the Proposed Project an expected economic lifespan of 16 years. Investigations to confirm the size of the resource have been undertaken to more accurately determine the size and characteristics of the deposit. The extraction model used for the site will dictate the actual tonnage of aggregate production. Variables used to estimate the actual extracted volumes include: - Geometry of pit; - Side slope angles; - Stratigraphy of deposit (e.g., textures, quality, thickness of various formations); - Setbacks used in pit development; - Depth of extraction; and - Pit surface area. The actual commercially-extractable aggregate resource volume will be revised depending upon the information and design of the mine plan and the aggregate resource evaluation, but is expected to average 1,000,000 tonnes per year.					n/a - Contextual/Descriptive		

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A	2	2.2	2.2.3	-	2.2.3 Project Components	36t	The Proposed Project will be developed within a 70 ha clear cut (2004 - 2005) area in the southern portion of the Property (Figure 3). The processing plant will be located in existing cleared areas near the existing warehouse and land-based log sorting area south of BC Hydro's right-of way. All components of the Proposed Project will be outside existing natural watercourses, riparian areas and mature forest stands. Sorted aggregate products will be conveyed from the plant to sand and gravel barges via a barge-loading facility adjacent to the marine foreshore to the south of the pit, which is located within an existing foreshore lease and log dump area at the southwest corner of the Property. The specific location and configuration of the processing plant and conveyor/loading facility will be determined based on detailed site planning to avoid and limit impacts on watercourses, the foreshore, and existing forested areas. Following gravel extraction and processing, barged aggregate products will be delivered to existing facilities owned and operated by the Proponent in either Burnaby or Langley along established barge shipping routes and marine navigation channels.								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	-	2.2.3 Project Components	36u	The Proponent will manage the Property as private forest lands and will accommodate other industrial or transportation use, along with the needs of neighboring property owners including BCTS for access to crown lands in upper portions of the watershed, BC Hydro for access to the existing transmission line right-of way and Fortis BC to support maintenance of the existing natural gas pipeline in the upper portions of the watershed. At the end of the Proposed Project's life span, the Proponent will maintain ownership and manage long term stewardship for forest, fisheries, wildlife and water resources on the Property.								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	37	The EAC Application/EIS will include a conceptual design for the groundwater channel plug. The basis for design of proposed water management structures will be described.	1	A	2	2.5	2.5.1	2.5.1.1	2.5.1.1	2-26
A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	37a	Sand and gravel will be extracted from the pit using an electric powered floating clamshell dredge equipped with a primary crusher linked to a floating conveyor system. This equipment will be initially placed on the western area of the deposit and will dig downward to form a wetted pit (filled with natural groundwater input). The dredge will float on the surface of the pit pond. From this location, the floating clamshell will extract material based on the aggregate deposit and mine plan, and is anticipated to gradually enlarge the pit pond to phase 10 to an approximate size of 28 ha. A floating electric clamshell dredge will be used to extract sand and gravel because portions of the gravel deposit extend to approximately >30 metres (m) below the surface in some locations into areas below the groundwater table. No pit dewatering will be undertaken, and no explosives will be used.								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	37b	A portion of the constructed artificial groundwater channel currently in the centre of the Property, serves as a "French drain" that lowers the overall level of the water table within the lower Property area. As the pit pond is developed through the Proposed Project life-cycle, the portion of the groundwater channel north the hydro transmission line will be blocked (in approximately year 6) and used as pit pond groundwater recharge to re-establish and maintain natural groundwater to levels existing prior to the construction of the upper groundwater channel.								n/a - Contextual/Descriptive

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A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	37c	The existing logging road and berm network running parallel to McNab Creek at the north end of the proposed pit will be used as a hydraulic training berm in later stages of the Proposed Project. The berm was originally established in 2001-2002, and will be extended to limit potential flood events and removed potential risk of avulsion into the project site and pit. Hydraulic and avulsion studies (2010) indicate the road acts as a berm in the area adjacent to the right-handed south turning bend on McNab Creek. Fisheries and Oceans Canada (DFO) work in the area in 2001 and 2002 developed the road into the training and flood berm by addition of material to increase width and elevation. Detailed hydrologic and hydraulic characterization of the site is underway and the results have been used to guide the pit and mine plan. Preliminary studies in 2010 (Golder 2010a, 2010b, 2010c, 2010d, 2010e, 2010f, 2010g, 2010h, 2010i) and an independent hydrogeologic review prepared for DFO (Elanco 2011), and ongoing studies in support of the EA indicate that an aggregate mine plan is feasible at the site.								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	39a	As proposed, sand and gravel extraction proceeds through the Proposed Project's life span, overburden will be removed and stockpiled around the Proposed Project area including around the training berm.								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	38	The mine plan will be developed in accordance with the Health Safety and Reclamation Code for Mines in BC.	1	A	2	2.5	2.5.1	2.5.1.1	2.5.1.1	2-26
A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	39	The EAC Application/EIS will illustrate the final geometry of the slope/pit, including side slope angles and typical sections through the pit pond. Setbacks of the pit crest to infrastructure that will be utilized by mine personnel will be described. Factors of safety for the side slopes will be provided where sloughing or slope failure could cause retrogression of the pit crest to a degree that could impact on the safety of mine personnel. A conceptual design for the training berm upgrades (including a typical section through the berm) will also be provided.	1	A	2	2.5	2.5.1	2.5.1.1	2.5.1.1	2-26
A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	40	The EAC Application/EIS will include estimates of heights, volumes, and slope angles for proposed overburden stockpiles.	1	A	2	2.5	2.5.1	2.5.1.5	2.5.1.5	2-30
A	2	2.2	2.2.3	2.2.3.1	2.2.3.1 Aggregate Pit Development	40a	This material will be used for progressive and final site reclamation when combined with inorganic fines extracted from the sand and gravel during processing. No material from the pit will be disposed of at sea. The final site reclamation will include a ground and surface water-fed pond, with the surrounding areas to be reclaimed by contouring the landscape, revegetation and planted forest.								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.2	2.2.3.2 Processing	41	The EAC Application/EIS will include anticipated heights, volumes, and slope angles for proposed stockpiles of processed material and for temporary fines stockpiles.	1	A	2	2.5	2.5.1	2.5.1.5	2.5.1.5	2-30
A	2	2.2	2.2.3	2.2.3.2	2.2.3.2 Processing	41a	The processing plant will be located in an approximately 4 ha site, preloaded above the pit elevation to enhance water recycling process and drainage. The plant will be situated in the south-western corner of the Property outside of existing mature forests and outside of setbacks from watercourses and marine foreshore areas. An existing treed buffer up to approximately 50 m wide will be maintained between the processing area and the marine foreshore to limit potential visual, noise, dust and emission effects on the environment. Nonetheless, dust and noise suppression / mitigation measures will be applied and maintained throughout project construction, operation and closure stages of the Proposed Project. Dust and noise suppression / mitigation measures have been successfully implemented by the Proponent in multiple urban-based operations to limit potential impacts.								n/a - Contextual/Descriptive

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A	2	2.2	2.2.3	2.2.3.2	2.2.3.2 Processing	41b	Processing of the dredged aggregate material will involve screening the fines from the gravel and further screening to separate the different aggregate material sizes. Oversize materials will be crushed. The sand will be sized, washed and dewatered to remove silt-sized fractions. Wash water will be processed for removal of fines and silt in a 95% efficient wash plant to be fed using recycled water from two large storage tanks. The 5% loss (via retention, evaporation and absorption) will be supplemented with make-up water by a groundwater well. The recycled wash water will be processed, screened and pressed to remove the sediment. Fines and silt will be mechanically dried. The resulting cakes of sediment will be mixed with organic overburden material and used for the construction, as well as for progressive revegetation and reclamation activities. No wash water will be discharged.									n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.2	2.2.3.2 Processing	41c	The processed sand and gravel products will be conveyed to individual product stockpiles prior to loading onto barges (Figure 3).									n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.2	2.2.3.2 Processing	41d	The dredge and processing plant will be active 8 to 10 hours per day, five days per week during seasonal daylight hours. An electric conveyor will move material from each stockpile to a covered electric barge conveyor using an automated materials-handling system connected under each stockpile (i.e. reclaim tunnels). The materials-handling system will be used to limit power use, multiple handling of materials, emissions, dust and noise. Crushing, screening and washing facilities will be enclosed above ground in the Proponent's proprietary enclosures to avoid and limit fugitive dust and noise emissions.									n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.2	2.2.3.2 Processing	41e	The nature of extraction and processing at the Property, coupled with the availability of electricity from the BC Hydro 138kV transmission line, will allow the use of electric motor-driven systems for processing to limit greenhouse gas emissions from the Proposed Project. A sub-station will be constructed to convert power from 138kV to 575V (3 phase).									n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.3	2.2.3.3 Marine Loading Facility and Barging	42	The EAC Application/EIS will include conceptual design drawings for the marine loading facility, including piles and other in-water components.	1	A	2	2.5	2.5.1	2.5.1.7	2.5.1.7	2-32	
A	2	2.2	2.2.3	2.2.3.3	2.2.3.3 Marine Loading Facility and Barging	42a	The Proponent will hold tenure, compliant with relevant government zoning, for the purpose of gravel barge moorage and load out. The marine loading facility will be designed to accommodate up to two 5,500 deadweight tonnage (DWT) barges (80 m in length, draught 4.5 m).									n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.3	2.2.3.3 Marine Loading Facility and Barging	42b	The location of the barge loading facility and jetty has been proposed within the existing water lease and log dump area (Figure 3), outside the intertidal foreshore. During moorage or loading all portions of the barge and associated vessels will be within the boundaries of the water lease. The barge loading facility and jetty will include a new crew and boat docking facilities, and a security gate. The existing western dock will be removed. Access to the dock through the gate will be permitted as requested. A fixed walkway will be directed to the proposed upgraded warehouse facilities.									n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.3	2.2.3.3 Marine Loading Facility and Barging	42c	The barge loading facility and jetty will consist of an electric covered conveyor with a capacity of >1,500 tonnes aggregate per hour. The barge will be tied against a series of steel pilings spaced perpendicularly to the foreshore. The barge will be slowly moved laterally to fill. The loading facility will be fed by covered above-ground conveyor supported by steel piles in the foreshore over a length of approximately 150 m. The land-based conveyor will connect the processing area and the barge loader will be supported on six ties and sleeper foundations on the ground surface over a length of approximately 190 m. Barges will be filled in approximately two to three hours during seasonal daylight hours.									n/a - Contextual/Descriptive

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A	2	2.2	2.2.3	2.2.3.3	2.2.3.3 Marine Loading Facility and Barging	42d	The bathymetry of the near shore marine environment in the area of the proposed marine loading facility and jetty will not require dredging, so assessment of marine dredging or marine disposal of dredgeate will not be a part of the Proposed Project. In addition, no explosive use is planned								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.3	2.2.3.3 Marine Loading Facility and Barging	42e	During operation, an empty barge will be delivered by tug boat and tied to one end of the jetty approximately once every other day. The tug boat(s) will then pick up and transport an aggregate-filled barge for processing.								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.3	2.2.3.3 Marine Loading Facility and Barging	42f	Filled barges will be towed along two proposed barging routes, navigational channels and shipping traffic lanes from the site through Howe Sound, via Ramillies and / or Thornbrough Channel, and Queen Charlotte Channel to south of Passage Island, at which point they will connect with BURNCO's existing shipping lanes in the Strait of Georgia (Figure 4). Filled barges will use the north arm of the Fraser River to deliver material to existing facilities in Burnaby (approximately 59 km away), and the south arm of the Fraser River to deliver to the Proponent's facilities in the Township of Langley (approximately 102 km away). The Proponent presently uses Seaspan tugs and barges to deliver aggregate to existing Proponent facilities from Treat Creek and as far away as Port McNeil (approximately 360 km away). Seaspan and other tug barges, and log booming operators use the Ramillies Channel in Howe Sound, along with the existing shipping routes in the Fraser River to move bulk materials.								n/a - Contextual/Descriptive
A	2	2.2	2.2.3	2.2.3.4	2.2.3.4 Other Facilities and Infrastructure and Alternatives	42g	Additional facilities associated with the Proposed Project will include: - Site office and communications building, with offices and boardroom; - Workers lunch/dry room; - Portable washroom facilities; - First aid facility with attendant and helipad; - Caretaker's cabin; - New floating small craft dock attached to proposed jetty, the with tie-up area for a float plane, serviced with 30 amp (A) 125 volt (V) shore power; - Removal of the existing small craft dock; - Upgrades to an existing marine barge grid and abutment for heavy equipment loading/offloading on site during construction; - Removal of the marine barge grid following completion of construction; - Upgrades to the existing fueling facility for the storage of diesel and gasoline for on-site equipment; - Upgrades to the existing heavy equipment maintenance shop and warehouse; - Electrical substation located adjacent to existing BC Hydro transmission line; - Outdoor switchyard, electric building, and 100 m transmission line; - Groundwater well as a source of make-up water for the processing plant; - Pump room for well/stream intake water distribution and fire-fighting, based on existing water licence; - Site lighting where required; and - Short term portable concrete batch plant for project facilities during the construction phases.							n/a - Contextual/Descriptive	
A	2	2.2	2.2.3	2.2.3.4	2.2.3.4 Other Facilities and Infrastructure and Alternatives	42h	Supplies on trucks for the Proposed Project will be transported by barge and delivered to the site by way of the existing log dump grid.								n/a - Contextual/Descriptive

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A	2	2.2	2.2.4	-	2.2.4 Project Emissions, Discharges and Waste	43	The EAC Application/EIS will include a description of proposed wastewater treatment and disposal processes and facilities.	1	A	2	2.5	2.5.1	2.5.1.6	2.5.1.6	2-31 and Figure 2-9
A	2	2.2	2.2.4	-	2.2.4 Project Emissions, Discharges and Waste	43a	The Proposed Project will be constructed and operated to avoid, limit and mitigate emissions, discharges and wastes as follows: - Aggregate is a benign material and not involve chemical treatment for extraction; - Atmospheric contamination (dust) will be minimized during project operation through extraction of the aggregate resource under wet conditions using an electric clamshell dredge. Processing facilities will be fully enclosed, including transfer points, and operated under wet conditions (fine water spray) to avoid and limit dust; - The use of electrically powered equipment to extract, process and load the aggregate resource will avoid and limit the amount of exhaust emissions related to burning fossil fuel during aggregate extraction; - The proximity of the project site to the Proponent's markets in the Lower Mainland is also intended to reduce barging distance relative to present aggregate barging and; therefore, minimize exhaust emissions related to transportation of the aggregate products to market; - Wash water will be processed for removal of fines and silt in a 95% efficient wash plant to be fed using recycled water from two large storage tanks. The 5% loss (via retention, evaporation and absorption) will be supplemented with make-up water by a groundwater well. No wash water will be discharged. - Household waste, industrial solid waste, and liquid waste pumped from portable washroom facilities will be barged off-site and disposed of in approved facilities.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.5	-	2.2.5 Reclamation, Closure and Monitoring	44	A preliminary Reclamation and Closure Plan will be prepared as part of the EAC Application/EIS, and will describe the proposed measures and commitments to manage, maintain and monitor water management structures, remove surface facilities, and reclaim areas and develop a functional ecosystem in the freshwater pit. Research required to assess closure plans will be considered.	1	A	2	2.5	2.5.3	-	-	2-35
A	2	2.2	2.2.5	-	2.2.5 Reclamation, Closure and Monitoring	44a	Progressive and ongoing reclamation activities will occur throughout all phases of mine development. The Proposed Project will use progressive reclamation of the site that includes ongoing reclamation activities taking place alongside active extraction and pit area around the proposed operations area.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.5	-	2.2.5 Reclamation, Closure and Monitoring	46a	Site planning will include landscaping, further design and development of the existing training berm along the north edge logging road of the pit area, along with the creation of southern pit containment berm, surface water features, fisheries habitats and revegetation throughout the site consistent with the operational extraction schedule. Ongoing monitoring will be conducted for relevant noise and dust, water quality parameters, along with fish and wildlife resources. The Proponent proposes to provide interim monitoring reports summarizing the progress of ongoing reclamation activities.	n/a - Contextual/Descriptive							

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A	2	2.2	2.2.5	-	2.2.5 Reclamation, Closure and Monitoring	45	The Reclamation and Closure Plan will be described in the context of anticipated end land use objectives and land capability. Plans for progressive reclamation will include a schedule of disturbance and reclamation for the first five years of mine life. Plans for final closure will be conceptual.	1	A	2	2.5	2.5.3	-	-	2-35 (see also Appendix 4)
A	2	2.2	2.2.5	-	2.2.5 Reclamation, Closure and Monitoring	46	Reclamation and closure activities will be identified as measures to mitigate potential adverse effects on selected Valued Components (VCs) (e.g., use of native species, habitat composition targets, planting densities, soil salvage and amendment planning, and landform design). Key ecological linkages and timeframes for successful reclamation outcomes will be identified.	1	A	2	2.5	2.5.3	-	-	2-35 (see also Appendix 4)
A	2	2.2	2.2.5	-	2.2.5 Reclamation, Closure and Monitoring	47	The EAC Application/EIS will describe how the Reclamation and Closure Plan will result in successful reclamation as per the Reclamation Standards outlined in Section 10 of the Health and Safety and Reclamation Code for Mines in BC.	1	A	2	2.5	2.5.3	-	-	2-35 (see also Appendix 4)
A	2	2.2	2.2.6	-	2.2.6 Labour	48	The EAC Application/EIS will include a summary of the types of the jobs that will be created and the skills and experience that would typically be required.	1	A	2	2.5	2.5.4	-	-	2-37
A	2	2.2	2.2.6	-	2.2.6 Labour	48a	The Proposed Project is expected to provide approximately 80 person-years of direct employment during the construction phase, and approximately 360 person-years of employment over during a 16-year the operations phase. The Proposed Project is expected to provide at least twelve full-time (40 hour work-week) jobs, two part-time jobs (20 hour work-week) for mine pit operations on-site and four full-time direct jobs for transportation and distribution of aggregate resources to the Proponent's operating facilities.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.6	-	2.2.6 Labour	48b	It is expected that transport of employees traveling to and from the work site, and delivery of essential equipment and materials, such as fuel and parts, will be by boat, barge, and or water taxi from Gibson's and/or Horseshoe Bay. The nearby communities (e.g., Squamish, Gibson's, and West Vancouver) have available temporary accommodation to meet all requirements during construction. Therefore, the Proponent will not does not anticipate the requirement to provide a construction camp on the site, or any other residential facilities at any time with the exception of a caretaker's cabin for security and facility care.	n/a - Contextual/Descriptive							
A	2	2.2	2.2.7	-	2.2.7 Cost	48c	The estimated cost of the Proposed Project is approximately CDN \$22 million in expenditures for equipment and employment during construction and an annual CDN \$16 million in operating expenditures for goods and services and employment over the sixteen year life of the operation.	n/a - Contextual/Descriptive							
A	2	2.3	-	-	2.3 Provincial Scope of Proposed Project	49	The EAC Application/EIS will describe the scope of the Proposed Project for the purpose of the provincial EA, in accordance with the Section 11 Order and any subsequent amendments.	1	A	2	2.6	-	-	-	2-39
A	2	2.4	-	-	2.4 Federal Scope of Proposed Project	50	The EAC Application/EIS will describe the scope of the Proposed Project for the purpose of the federal EA as outlined in the AIR/EIS Guidelines.	1	A	2	2.7	-	-	-	2-40
A	2	2.4	-	-	2.4 Federal Scope of Proposed Project	50a	The federal scope of the proposed project consists of the construction, operating and decommissioning of the following on-site and off-site components : - Aggregate pit development with proposed production volumes of up to 1.5 million tonnes per annum; - A processing plant; - Marine loading facility; - Shipping; and - Reclamation, closure and monitoring.	n/a - Contextual/Descriptive							
A	2	2.5	-	-	2.5 Alternate Means of Undertaking the Proposed Project	51	A brief description of alternatives to the Proposed Project;	1	A	2	2.8	2.8.1	-	-	2-43
A	2	2.5	-	-	2.5 Alternate Means of Undertaking the Proposed Project	52	A description of alternative means of carrying out the Proposed Project (including alternative locations and alternative mine layouts); and	1	A	2	2.8	2.8.2	-	-	2-44

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A	2	2.5	-	-	2.5 Alternate Means of Undertaking the Proposed Project	53	An analysis of alternative means of undertaking the Proposed Project (including alternative transportation options) that are technically and economically feasible; and	1	A	2	2.8	2.8.2	-	-	2-44	
A	2	2.5	-	-	2.5 Alternate Means of Undertaking the Proposed Project	54	The rationale for selecting the preferred alternative, with supporting documentation.	1	A	2	2.8	-	-	-	2-42	
A	2	2.5	-	-	2.5 Alternate Means of Undertaking the Proposed Project	54a	This section will address both provincial and federal requirements for alternatives assessment.	n/a - Contextual/Descriptive								
A	2	2.6	-	-	2.6 Project Land Use	55	The EAC Application/EIS will provide relevant project land use information (other than information relating to land use by Aboriginal groups for traditional purposes) such as:	1	A	2	2.9	-	-	-	2-54	
A	2	2.6	-	-	2.6 Project Land Use	56	Description of Sunshine Coast Regional District Zoning, Applicable Land and Resource Management Plans (and other land use designations as applicable) including tenures, licenses, permits or other authorizations that will be potentially required for or affected by the Proposed Project;	1	A	2	2.9	-	-	-	2-54	
A	2	2.6	-	-	2.6 Project Land Use	57	Report on the status of consultations with the holders of such tenures and permits, and with private land owners, including issues raised by tenure and permit holder and approach to issues resolution;	1	A	2	2.9	-	-	-	2-54 (see also Appendix 2-C)	
A	2	2.6	-	-	2.6 Project Land Use	58	Identification of the land and resource management plans that the Proposed Project overlaps, including existing plans developed by Aboriginal groups. This will also include a list of the management objectives of the Land and Resource Management Plans;	1	A	2	2.9	-	-	-	2-54	
A	2	2.6	-	-	2.6 Project Land Use	59	Identification of any relevant Official Community Plans (including the Gambier Local Trust Area Official Community Plan), associated policies, Islands Trust Policy Statements, and regional government plans;	1	A	2	2.9	-	-	-	2-54	
A	2	2.6	-	-	2.6 Project Land Use	60	Description of existing and proposed management and monitoring programs or regional studies;	1	A	2	2.9	-	-	-	2-54	
A	2	2.6	-	-	2.6 Project Land Use	61	Identification of other developments and/or land uses, even if not directly related to the Proposed Project, that may result in overlapping effects with the Proposed Project; and	1	A	2	2.9	-	-	-	2-54	
A	2	2.6	-	-	2.6 Project Land Use	62	Project identification of future developments and/or land uses, which are reasonably foreseeable and sufficiently certain to proceed.	1	A	2	2.9	-	-	-	2-54	
A	2	2.7	-	-	2.7 Project Benefits	63	The EAC Application/EIS will provide a summary of the investment required, including estimates of initial capital construction cost and operating costs over the life of the Proposed Project.	1	A	2	2.5	2.5.5	-	-	2-38	
A	2	2.7	-	-	2.7 Project Benefits	64	An overview of economic benefits of increased aggregates production;	1	A	2	2.10	-	-	-	2-54	
A	2	2.7	-	-	2.7 Project Benefits	65	A summary of direct employment and GDP effect estimates;	1	A	2	2.10	-	-	-	2-54	
A	2	2.7	-	-	2.7 Project Benefits	66	Relevant employment and local purchasing policies and practices;	1	A	2	2.10	-	-	-	2-54	
A	2	2.7	-	-	2.7 Project Benefits	67	An estimate of indirect and induced employment and GDP effects during construction and operations;	1	A	2	2.10	-	-	-	2-54	
A	2	2.7	-	-	2.7 Project Benefits	68	Contractor supply service estimates;	1	A	2	2.10	-	-	-	2-54	
A	2	2.7	-	-	2.7 Project Benefits	69	Annual federal, BC and local government revenue effects for the construction and operations phases; and	1	A	2	2.10	-	-	-	2-54	

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
A	2	2.7	-	-	2.7 Project Benefits	70	Proposed Project contributions to community development.	1	A	2	2.10	-	-	-	2-54
A	2	2.8	-	-	2.8 Applicable Permits and Approvals	71	The EAC Application/EIS will contain a list of all applicable local, provincial, and federal permits and approvals required for the construction, operations and reclamation and closure of the Proposed Project.	1	A	2	2.11	-	-	-	2-61
A	2	2.8	-	-	2.8 Applicable Permits and Approvals	71a	There is an option to apply for concurrent provincial permits under the Concurrent Approval Regulation under BCEAA. At this time, the Proponent does intend to apply for concurrent review of provincial permit applications.	n/a - Contextual/Descriptive							
3.0 ASSESSMENT PROCESS															
A	3	3.1	3.1.1	-	3.1.1 Cooperative Federal-Provincial Review	72	The EAC Application/EIS will generally describe the nature and extent of federal-provincial cooperation in the EA review of the Proposed Project.	1	A	3	3.1	3.1.1	-	-	3-1
A	3	3.1	3.1.1	-	3.1.1 Cooperative Federal-Provincial Review	72a	The federal and provincial processes are cooperative, as demonstrated in this document that serves both a federal and provincial EA review process.	n/a - Contextual/Descriptive							
A	3	3.1	3.1.2	-	3.1.2 Provincial Involvement	73	The EAC Application/EIS will describe the Provincial EA review process, including the characteristics of the Proposed Project that trigger a review under the BCEAA.	1	A	3	3.1	3.1.2	-	-	3-1
A	3	3.1	3.1.2	-	3.1.2 Provincial Involvement	74	List of provincial agencies/departments/organizations likely to be involved in the EA;	1	A	3	3.1	3.1.2	3.1.2.4	3.1.2.4	3-5
A	3	3.1	3.1.2	-	3.1.2 Provincial Involvement	75	A description of the technical working groups formed during the pre-Application stage of the EA process;	1	A	3	3.1	3.1.2	3.1.2.4	3.1.2.4	3-5
A	3	3.1	3.1.2	-	3.1.2 Provincial Involvement	76	List and discussion of applicable milestones, including but not limited to issuance of Sections 10 and 11 Orders, working group meetings and public comment period(s); and	1	A	3	3.1	3.1.2	3.1.2.3	3.1.2.3	3-2
A	3	3.1	3.1.2	-	3.1.2 Provincial Involvement	77	A description of Aboriginal groups participation in the EA review of the Proposed Project.	1	A	3	3.1	3.1.2	3.1.2.5	3.1.2.5	3-10
A	3	3.1	3.1.3	-	3.1.3 Federal Involvement	77a	The former CEAA provides a framework for review of the environmental effects of projects by federal authorities in relation to potential significant adverse environmental effects resulting from the construction, operation, modification, reclamation, closure, and abandonment of the Proposed Project.	n/a - Contextual/Descriptive							
A	3	3.1	3.1.3	-	3.1.3 Federal Involvement	78	The EAC Application/EIS will describe the Federal review process and include the following:	1	A	3	3.1	3.1.3	-	-	3-11
A	3	3.1	3.1.3	-	3.1.3 Federal Involvement	79	A description of the history of the Proposed Project in the federal EA review process, including a statement describing how the Proposed Project is subject to the former CEAA;	1	A	3	3.1	3.1.3	3.1.3.1	3.1.3.1	3-11
A	3	3.1	3.1.3	-	3.1.3 Federal Involvement	80	A description of the relevant aspects of the former CEAA and its supporting regulations, policies, and guidelines (including references);	1	A	3	3.1	3.1.3	3.1.3.2	3.1.3.2	3-12
A	3	3.1	3.1.3	-	3.1.3 Federal Involvement	81	A list of applicable federal milestones; and	1	A	3	3.1	3.1.3	3.1.3.2	3.1.3.2	3-12
A	3	3.1	3.1.3	-	3.1.3 Federal Involvement	82	A list of federal agencies / departments / organizations likely to be involved in the review; triggers for their respective federal acts; and their anticipated or confirmed roles.	1	A	3	3.1	3.1.3	3.1.3.3	3.1.3.3	3-17
A	3	3.1	3.1.4	-	3.1.4 Issue Tracking	83	The EAC Application/EIS will include an issues tracking document that describes issues and concerns raised and the degree to which issues are considered resolved or address by the Proponent and other parties during the preparation of the during the preparation of the AIR/EIS Guidelines and the EAC Application/EIS.	1	A	3	3.1	3.1.3	3.1.3.4	3.1.3.4	3-19
A	3	3.1	3.1.4	-	3.1.4 Issue Tracking	84	Issues tracking tables will be provided for each of the following groups: public, Aboriginal groups, and local, provincial and federal agencies.	1	A	3	3.1	3.1.3	3.1.3.4	3.1.3.4	3-19
A	3	3.2	3.2.1	-	3.2.1 Pre-Application	85	The EAC Application/EIS will provide a summary of consultation activities undertaken with identified Aboriginal groups potentially affected by the Proposed Project. The summary of consultation activities will describe:	1	A	3	3.2	-	-	-	3-20
A	3	3.2	3.2.1	-	3.2.1 Pre-Application	86	How the Proposed Project information has been made available by the Proponent to Aboriginal groups;	1	A	3	3.2	3.2.2	-	-	3-23

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A	3	3.2	3.2.1	-	3.2.1 Pre-Application	87	Activities undertaken by the Proponent to notify and consult with Aboriginal groups during the pre-Application stage (covering the preparation of both the AIR/EIS Guidelines and the EAC Application/EIS), including consultation on options for mitigating potential effects on Aboriginal interests;	1	A	3	3.2	3.2.2	-	-	3-23
A	3	3.2	3.2.1	-	3.2.1 Pre-Application	88	Any consultation or other agreements reached between BURNCO and potentially affected Aboriginal groups;	1	A	3	3.2	3.2.2	-	-	3-23
A	3	3.2	3.2.1	-	3.2.1 Pre-Application	89	A summary of key issues identified by Aboriginal groups; and	1	A	3	3.2	3.2.2	-	-	3-23
A	3	3.2	3.2.1	-	3.2.1 Pre-Application	90	The degree to which Aboriginal groups' issues are considered resolved and/or addressed by the Proponent.	1	A	3	3.2	3.2.2	-	-	3-23
A	3	3.2	3.2.1	-	3.2.1 Pre-Application	90a	Additional information relating to Aboriginal groups, including potential aboriginal/treaty rights and/or other aboriginal interests will be included in Part C of the EAC Application/EIS.	n/a - Contextual/Descriptive							
A	3	3.2	3.2.2	-	3.2.2 EAC Application/EIS Review	91	The EAC Application/EIS will describe planned activities for consulting with Aboriginal groups during the Application/EIS review stage. The Proponent will document proposed methods and processes to resolve outstanding issues.	1	A	3	3.2	3.3.2	3.3.2.3	-	3-51
A	3	3.3	-	-	3.3 Public and Agency Information Distribution and Consultation	n/a	n/a	1	A	3	3.3	-	-	-	3-31
A	3	3.3	3.3.1	-	3.3.1 Pre-Application	92	The EAC Application/EIS will provide a summary of consultation activities undertaken during the Pre-Application stage, covering both the preparation of the draft AIR/EIS Guidelines and the EAC Application/EIS. Specifically, the EAC Application/EIS will provide:	1	A	3	3.3	3.3.1	-	-	3-31
A	3	3.3	3.3.1	-	3.3.1 Pre-Application	93	A summary of consultations with the public and other key stakeholders; and	1	A	3	3.3	3.3.1	-	-	3-31
A	3	3.3	3.3.1	-	3.3.1 Pre-Application	94	A summary of consultations with federal, provincial and local government representatives.	1	A	3	3.1	3.1.2	3.1.2.3	3.1.2.3	3-2
A	3	3.3	3.3.2	-	3.3.2 EAC Application/EIS Review	95	The EAC Application/EIS will describe planned public and agency consultation activities during the EAC Application/EIS review stage. This public and agency consultation plan will include:	1	A	3	-	-	-	-	3-1
A	3	3.3	3.3.2	-	3.3.2 EAC Application/EIS Review	96	A public consultation program proposed for the EAC Application/EIS review stage of the EA process;	1	A	3	3.3	3.3.2	-	-	3-40
A	3	3.3	3.3.2	-	3.3.2 EAC Application/EIS Review	97	Proposed programs for consulting with government agencies; and	1	A	3	3.1	3.1.2	3.1.2.4	3.1.2.4	3-5
A	3	3.3	3.3.2	-	3.3.2 EAC Application/EIS Review	98	Documentation of proposed methods and processes to resolve outstanding issues.	1	A	3	3.3	3.3.2	-	-	3-40
PART B - ASSESSMENT OF POTENTIAL EFFECTS, INCLUDING CUMULATIVE EFFECTS, PROPOSED MITIGATION MEASURES, AND THE SIGNIFICANCE OF ANY RESIDUAL EFFECTS															
4.0 ASSESSMENT METHODS															
B	4	4.1	-	-	4.1 General	98a	Environmental assessment in BC provides an integrated process for identifying and evaluating potential adverse environmental, economic, social, heritage and health effects that may occur during the life of a reviewable project. The purpose of the EA is to predict the significance of potential project-related effects and to identify measures to avoid or reduce these potential effects through redesign and operational improvements. The assessment process ultimately results in a decision by the responsible ministers regarding whether to issue an EA Certificate, subject to legally binding conditions, which is required before a reviewable project can proceed.	n/a - Contextual/Descriptive							
B	4	4.1	-	-	4.1 General	98b	The Assessment Methodology will reflect current accepted EA practice in BC and Canada in accordance with the BCEAO Guideline for the Selection of Valued Components and Assessment of Potential Effects (Figure 5, BCEAO 2013).	n/a - Contextual/Descriptive							
B	4	4.1	-	-	4.1 General	99	The EAC Application/EIS will provide a clear description of the methods used to conduct the assessment and will specifically include the following information:	2	B	4	-	-	-	-	4-1

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	4	4.1	-	-	4.1 General	100	Scope of the environmental, economic, social, heritage, and health effects assessments;	2	B	4	-	-	-	-	4-1
B	4	4.1	-	-	4.1 General	101	A description of the agencies, Aboriginal groups, and stakeholders that reviewed and commented on the draft AIR/EIS Guidelines;	1	A	3	3.2 3.3	-	-	-	3-20 3-31
B	4	4.1	-	-	4.1 General	102	A description of how consultations with the public, stakeholders, Aboriginal groups, and government agencies on the scoping and identification of issues to be addressed in the assessment;	1	A	3	3.2 3.3	-	-	-	3-20 3-31
B	4	4.1	-	-	4.1 General	103	A list of the guidance documents provided by agencies used to develop the assessment methodology;	2	B	4	4.1	-	-	-	4-1
B	4	4.1	-	-	4.1 General	104	Methods used for assessing potential effects of the Proposed Project, including identification of the criteria used to characterize effects in support of the evaluation of the significance of effects (i.e., magnitude, geographic extent, duration and frequency, reversibility, context and probability) for construction, operation, and reclamation and closure phases of the Proposed Project;	2	B	4	-	-	-	-	4-1
B	4	4.1	-	-	4.1 General	105	A description of how model predictions were used to assess potential effects and how monitoring data was used to inform predictive modelling;	2	B	5, 6, 7, 8, 9	5.1, 5.2 5.3, 5.4 5.5, 5.6 5.7, 5.8 6.1, 7.1 7.2, 7.3 7.4, 8.1 9.1, 9.2	5.1.3, 5.2.3 5.3.1, 5.3.2, 5.4.3, 5.5.3, 5.6.3, 5.7.3, 5.8.3, 6.1.3, 7.1.3, 7.2.3, 7.3.3, 7.4.3, 8.1.3, 9.1.3, 9.2.3	5.1.3.3 5.2.3.3 5.3.1.3.3 5.3.2.3.3 5.4.3.3 5.5.3.3 5.6.3.3 5.7.3.3 5.8.3.3 6.1.3.3 7.1.3.3 7.2.3.3 7.3.3.3 7.4.3.3 8.1.3.3 9.1.3.3 9.2.3.3	-	5.1-4 5.2-8 5.3-9 5.3-104 5.4-7 5.5-7 5.6-5 5.7-6 5.8-5 6.1-7 7.1-6 7.2-6 7.3-7 7.4-5 8.1-6 9.1-6 9.2-9
B	4	4.1	-	-	4.1 General	106	Description/reference for each standard used in baseline studies and assessment analyses; and	2	B	5, 6, 7, 8, 9	5.1, 5.2 5.3, 5.4 5.5, 5.6 5.7, 5.8 6.1, 7.1 7.2, 7.3 7.4, 8.1 9.1, 9.2	5.1.4, 5.2.4 5.3.1.4 5.3.2.4 5.4.4, 5.5.4 5.6.4, 5.7.4 5.8.4, 6.1.4 7.1.4, 7.2.4 7.3.4, 7.4.4 8.1.4, 9.1.4 9.2.4	-	-	5.1-10 5.2-21 5.3-15 5.3-109 5.4-17 5.5-17 5.6-12 5.7-14 5.8-10 6.1-14 7.1-12 7.2-13 7.3-13 7.4-18 8.1-13 9.1-14 9.2-25

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B	4	4.1	-	-	4.1 General	107	List of applicable best management practices, and guidance documents that will be implemented.	2	B	5, 6, 7, 8, 9	5.1, 5.2 5.3, 5.4 5.5, 5.6 5.7, 5.8 6.1, 7.1 7.2, 7.3 7.4, 8.1 9.1, 9.2	5.1.5, 5.2.5, 5.3.1, 5.3.2, 5.4.5, 5.5.5, 5.6.5, 5.7.5, 5.8.6, 6.1.5, 7.1.5, 7.2.5, 7.3.5, 7.4.5, 8.1.5, 9.1.7, 9.2.5	5.1.5.3 5.2.5.3 5.3.1.5 5.3.2.5 5.4.5.3 5.5.5.3 5.6.5.3 5.7.5.3 5.8.6.2 6.1.5.3 7.1.5.3 7.2.5.3 7.3.5.3 7.4.5.3 8.1.5.3 9.1.7 9.2.5.3	5.1.5.3 5.2.5.3 5.3.1.5.4 5.3.2.5.3 5.4.5.3 5.5.5.3 5.6.5.3 5.7.5.3 5.8.6.2 6.1.5.3 7.1.5.3 7.2.5.3 7.3.5.3 7.4.5.3 8.1.5.3 9.1.7 9.2.5.3	5.1-41 5.2-103 5.3-67 5.3-133 5.4-44 5.5-58 5.6-30 5.7-25 5.8-25 6.1-56 7.1-26 7.2-41 7.3-40 7.4-32 8.1-25 9.1-48 9.2-66
B	4	4.2	-	-	4.2 Select Valued Components	108	The EAC Application/EIS will describe the general methodology and rationale for the selection of VCs and associated indicators used in the assessment.	2	B	4	4.2	-	-	-	4-2
B	4	4.2	-	-	4.2 Select Valued Components	108a	Valued Components (VCs) are components of the natural and human environment that are considered by the Proponent, public, Aboriginal groups, scientists and other technical specialists and government agencies involved in the assessment process to have scientific, ecological, economic, social, cultural, archaeological, historical or other importance (BCEAO 2013). VCs may be measured directly or indirectly using indicators. Indicators are metrics used to measure and report on the condition and trend of a VC.	n/a - Contextual/Descriptive							
B	4	4.2	-	-	4.2 Select Valued Components	108b	VCs are selected through issues scoping and the development of the AIR/EIS Guidelines. VCs for the biophysical environment are typically major components, such as wildlife or vegetation, or are aspects of the physical and biological environment that are widely recognized as important for ecological resources. Selected VCs for the socio-cultural and economic environment are aspects of the human environment that include such components as economy, employment and business, land use, communities or community life, and traditional land and resource access and use.	n/a - Contextual/Descriptive							
B	4	4.2	-	-	4.2 Select Valued Components	108c	VCs will be selected based on the following criteria: - Focus and identification of the issues of greatest concern and relevance to the Proposed Project associated with the biophysical conditions and cultural/socioeconomic (human) resources of the Project area; - Identification of measurable parameters to assess Project-specific effects and cumulative effects for each VC; - Regulatory requirements and issues raised by Aboriginal groups, the public and interested stakeholders; - Assessment boundaries; and - Integration of the cumulative effects assessment into the overall assessment of Project-related residual environmental effects.	n/a - Contextual/Descriptive							
B	4	4.2	-	-	4.2 Select Valued Components	109a	Table 4 presents a preliminary list of VCs for inclusion in the EAC Application/EIS and provides a definition and/or supporting rationale for the selection of each VC. Additional VC selection rationales are provided in Appendix A. VCs that have been identified are based on currently available information, including ongoing studies and experience in the site and region. VCs may be revised or updated based on consultation and additional information.	n/a - Contextual/Descriptive							

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B	4	4.2	-	-	4.2 Select Valued Components	109	Rationale for excluding species potentially occurring in the project area from the list of selected VCs will be provided.	2	B	4	4.2	4.2.4	-	-	4-6
B	4	4.2	-	-	4.2 Select Valued Components	110	VCs will include measurement endpoints which will be used in the assessment to represent properties of the environment or a population, that when changed, could result in or contribute to a project-related effect which may alter an endpoint. Measurement endpoints may be quantitative (e.g., concentrations of chemical in tissues of representative VC species, species density levels, and noise levels) or qualitative (e.g., distribution, movement and behaviour of wildlife from disturbance to travel corridors). Measurement endpoints are a value used to assess whether there is an effect on a VC (e.g., population persistence for a VC species). Measurement endpoints represent an ecological, economic or social basis for evaluation of the significance of residual effects.	2	B	4	4.2	4.2.4	-	-	4-6
B	4	4.3	-	-	4.3 Establish Assessment Boundaries	n/a	n/a	2	B	4	4.3	-	-	-	4-20
B	4	4.3	4.3.1	-	4.3.1 Spatial Boundaries	111	The EAC Application/EIS will describe the process for development of geographical study area boundaries and present the aquatic, terrestrial and human environment regional study areas (RSAs) and local study areas (LSAs).	2	B	5, 6, 7, 8, 9	5.1, 5.2 5.3, 5.4 5.5, 5.6 5.7, 5.8 6.1, 7.1 7.2, 7.3 7.4, 8.1 9.1, 9.2	-	-	-	5.1-1 5.2-1 5.3-1 5.4-1 5.5-1 5.6-1 5.7-1 5.8-1 6.1-1 7.1-1 7.2-1 7.3-1 7.4-1 8.1-1 9.1-1 9.2-1
B	4	4.3	4.3.1	-	4.3.1 Spatial Boundaries	111a	Spatial boundaries will be identified using the following criteria: - Physical extent of the Proposed Project; - Physical extent of project-related effects; and - Physical extent of key environmental systems (e.g., watershed boundary of potentially affected streams).	n/a - Contextual/Descriptive							
B	4	4.3	4.3.1	-	4.3.1 Spatial Boundaries	112	Each discipline-specific study team will present the geographic study area boundary to be used for the study and describe the rationale for its use. Proposed LSAs and RSAs, and supporting rationales for their selection, are presented in Appendix A. Geographic study area boundaries may need to be expanded to the point where background conditions are met. Spatial boundaries will be illustrated on maps of appropriate scale. Each discipline-specific study area and rationale for their use will be presented in the Assessment Methodology section of each discipline-specific component of the EAC Application/EIS.	2	B	5, 6, 7, 8, 9	5.1, 5.2 5.3, 5.4 5.5, 5.6 5.7, 5.8 6.1, 7.1 7.2, 7.3 7.4, 8.1 9.1, 9.2	5.1.3, 5.2.3 5.3.1, 5.3.2, 5.4.3, 5.5.3, 5.6.3, 5.7.3, 5.8.3, 6.1.3, 7.1.3, 7.2.3, 7.3.3, 7.4.3, 8.1.3, 9.1.3, 9.2.3	5.1.3.2 5.2.3.2 5.3.1.3.2 5.3.2.3.2 5.4.3.2 5.5.3.2 5.6.3.2 5.7.3.2 5.8.3.2 6.1.3.2 7.1.3.2 7.2.3.2 7.3.3.2 7.4.3.2 8.1.3.2 9.1.3.2 9.2.3.2	-	5.1-3 5.2-7 5.3-7 5.3-103 5.4-5 5.5-6 5.6-4 5.7-4 5.8-4 6.1-4 7.1-5 7.2-5 7.3-5 7.4-3 8.1-4 9.1-4 9.2-6

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Part	X	X.X	X.X.X						X.X.X.X	X	X.X	X.X.X	X.X.X.X	
B	4	4.3	4.3.1	-	4.3.1 Spatial Boundaries	112a	Local Study Areas (LSAs) for the biophysical components of the environmental assessment have been designated within the immediate freshwater and terrestrial project footprint and adjacent areas. This is the area in which potential project-related disturbances could occur during the construction, operation and closure phases.							n/a - Contextual/Descriptive
B	4	4.3	4.3.1	-	4.3.1 Spatial Boundaries	112b	Regional study areas (RSAs) for human / social and biophysical environmental assessment disciplines are larger in scope, encompassing an area broader than the immediate footprint of the Proposed Project. The RSA seeks to consider potential effects of the Proposed Project on factors such as existing land uses (residential, commercial, parkland), employment, visual quality and viewsheds, and public health, and has been identified to include the McNab Creek watershed, along with the immediate area of Howe Sound and shipping routes to and from the Proposed Project site through Howe Sound, Ramillies Channel, Thornbrough Channel and Queen Charlotte Channel to south of Passage Island (Figure 4). The scope of the assessment does not include shipping from where the barges meet the existing shipping lanes in the Strait of Georgia and in the Fraser River (CEAA Agency 2013).							n/a - Contextual/Descriptive
B	4	4.3	4.3.2	-	4.3.2 Temporal Boundaries	113	2	B	4	4.3	4.3.2	-	-	4-27
B	4	4.3	4.3.2	-	4.3.2 Temporal Boundaries	114	2	B	5, 6, 7, 8, 9	5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 6.1, 7.1, 7.2, 7.3, 7.4, 8.1, 9.1, 9.2	5.1.3, 5.2.3, 5.3.1.3, 5.3.2.3, 5.4.3, 5.5.3, 5.6.3, 5.7.3, 5.8.3, 6.1.3, 7.1.3, 7.2.3, 7.3.3, 7.4.3, 8.1.3, 9.1.3, 9.2.3	-	-	5.1-2, 5.2-5, 5.3-2, 5.3-100, 5.4-3, 5.5-3, 5.6-3, 5.7-3, 5.8-3, 6.1-3, 7.1-4, 7.2-4, 7.3-4, 7.4-3, 8.1-3, 9.1-2, 9.2-4
B	4	4.3	4.3.2	-	4.3.2 Temporal Boundaries	114a	Based on the Proposed Project schedule, the temporal boundaries for the effects assessment are as follows: - Project construction (up to 2 years); - Project operation and maintenance (16 years); and - Project reclamation and closure (on-going and 1 year beyond operations).							n/a - Contextual/Descriptive
B	4	4.3	4.3.3	-	4.3.3 Administrative Boundaries	115	2	B	4	4.3	4.3.3	-	-	4-27
B	4	4.3	4.3.3	-	4.3.3 Administrative Boundaries	115a	Administrative boundaries refer to the limitations on the assessment imposed by political, economic or social constraints (BCEAO 2013). These may not be applicable to all VCs.							n/a - Contextual/Descriptive
B	4	4.3	4.3.4	-	4.3.4 Technical Boundaries	116	2	B	4	4.3	4.3.4	-	-	4-27

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B	4	4.3	4.3.4	-	4.3.4 Technical Boundaries	116a	Technical boundaries refer to constraints on the assessment imposed by limitations in the ability to predict effects (e.g., access). The use of models may also impose technical limitations on the analysis (e.g., margin of error) (BCEAO 2013). These may not be applicable to all VCs.	n/a - Contextual/Descriptive								
B	4	4.4	-	-	4.4 Describe Existing Conditions	117	The EAC Application/EIS will describe the approach to compiling relevant background information required to describe baseline conditions for the assessment. For each discipline-specific study, detailed summaries of current baseline conditions will be provided based on existing reports, data collection and analysis, consideration of available traditional ecological knowledge and field and laboratory methods.	2	B	4	4.4	-	-	-	4-27	
B	4	4.4	-	-	4.4 Describe Existing Conditions	117a	To assess the potential effect of the Proposed Project, it is necessary to determine the conditions that currently exist. These are known as 'baseline conditions'.	n/a - Contextual/Descriptive								
B	4	4.5	-	-	4.5 Effects Assessment	n/a	n/a	2	B	4	4.5	-	-	-	4-28	
B	4	4.5	4.5.1	-	4.5.1 Interactions with the Biophysical and Human Environment	118	The EAC Application/EIS will identify potential interactions between the various physical works and activities and the selected VCs across all spatial and temporal phases of the Proposed Project.	2	B	5, 6, 7, 8, 9	5.1, 5.2 5.3, 5.4 5.5, 5.6 5.7, 5.8 6.1, 7.1 7.2, 7.3 7.4, 8.1 9.1, 9.2	-	-	-	5.1-1 5.2-1 5.3-1 5.4-1 5.5-1 5.6-1 5.7-1 5.8-1 6.1-1 7.1-1 7.2-1 7.3-1 7.4-1 8.1-1 9.1-1 9.2-1	
B	4	4.5	4.5.1	-	4.5.1 Interactions with the Biophysical and Human Environment	119	A preliminary evaluation will be undertaken to characterize potential project-VC interactions	2	B	5, 6, 7, 8, 9	5.1, 5.2 5.3, 5.4 5.5, 5.6 5.7, 5.8 6.1, 7.1 7.2, 7.3 7.4, 8.1 9.1, 9.2	5.1.5, 5.2.5, 5.3.1.5, 5.5.5.1	5.1.5.1 5.2.5.1 5.3.1.5.1 5.3.2.5.1 5.4.5.1 5.5.5.1 5.6.5.1 5.7.5.1 5.8.5.3 6.1.5.1 7.1.5.1 7.2.5.1 7.3.5.1 7.4.5.1 8.1.5.1 9.1.3.3.2 9.2.5.1	-	-	5.1-19 5.2-28 5.3-17 5.3-112 5.4-30 5.5-22 5.6-19 5.7-15 5.8-21 6.1-41 7.1-23 7.2-26 7.3-31 7.4-22 8.1-18 9.1-7 9.2-30
B	4	4.5	4.5.1	-	4.5.1 Interactions with the Biophysical and Human Environment	120	The EAC Application/EIS will provide rationale for all determinations that no further consideration is warranted	2	B	4	4.5	4.5.1	-	-	4-28	
B	4	4.5	4.5.1	-	4.5.1 Interactions with the Biophysical and Human Environment	121	For those project-VC interactions carried forward in the assessment, potential effects (both adverse and positive) arising from those interactions will be clearly described.	2	B	4	4.5	4.5.1	-	-	4-28	

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B	4	4.5	4.5.2	-	4.5.2 Consideration of Proposed Mitigation Measures	122	The EAC Application/EIS will describe technically and economically feasible (i.e., practical) measures proposed to mitigate to an acceptable level potential adverse environmental, economic, social, heritage, or health effects of the proposed Project on selected VCs.	2	B	4	4.5	4.5.2	-	-	4-31
B	4	4.5	4.5.2	-	4.5.2 Consideration of Proposed Mitigation Measures	123	Potential adverse effects that will be addressed by the proposed mitigation measures will be described.	2	B	4	4.5	4.5.1	-	-	4-28
B	4	4.5	4.5.2	-	4.5.2 Consideration of Proposed Mitigation Measures	124	Descriptions of proposed mitigation will demonstrate the technical and economic feasibility of the measures, including their suitability for project- and site-specific application, if necessary.	2	B	4	4.5	4.5.2	-	-	4-31
B	4	4.5	4.5.2	-	4.5.2 Consideration of Proposed Mitigation Measures	125	Linkages will be made to the Environmental Monitoring and Follow-up Program presented in Section 17.0 where appropriate to monitor and verify the effectiveness of the measure proposed to mitigate potential environmental effects. The level of detail provided will be commensurate with the risk associated with the potential effect being mitigated, and the degree to which the proposed mitigation has been proven effective in the same or similar applications elsewhere.	2	B	4	4.5	4.5.2	-	-	4-31
B	4	4.5	4.5.2	-	4.5.2 Consideration of Proposed Mitigation Measures	126	Any uncertainty associated with the effectiveness of proposed mitigation measures will be described.	2	B	4	4.5	4.5.2	-	-	4-31
B	4	4.5	4.5.2	-	4.5.2 Consideration of Proposed Mitigation Measures	127	Mitigation measures will include those incorporated into the Proposed Project (e.g., site and route selection, project scheduling, project design, and construction and operation procedures and practices). Standard mitigation, best management practices (BMPs), environmental protection plans and other general practices to be implemented will be described.	2	B	4	4.5	4.5.2	-	-	4-31
B	4	4.5	4.5.2	-	4.5.2 Consideration of Proposed Mitigation Measures	128	The rationale for the proposed suite of mitigation and the need for and scope of any proposed compensation or offset will be provided.	2	B	4	4.5	4.5.2	-	-	4-31
B	4	4.5	4.5.3	-	4.5.3 Determination of Significance of Residual Effects	129	Potential project-related residual effects will be characterized as the basis for determining the significance of potential residual adverse effects for each VC. The characterization of effects will be undertaken for all potential residual and cumulative project-related effects on VCs following application of appropriate mitigation measures.	2	B	4	4.5	4.5.3	-	-	4-31

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B	4	4.5	4.5.3	-	4.5.3 Determination of Significance of Residual Effects	130	Potential residual adverse effects will be characterized using residual effects criteria: - Context – the current and future sensitivity and resilience of the VC to change caused by the Proposed Project. For example, the effects of a project may have an impact if they occur in areas that are ecologically sensitive, with little resilience to imposed stresses. Consideration of context draws heavily on the description of existing conditions of the VC, which reflect cumulative effect of other project and activities that have been carried out, and especially information about the impact of natural and human caused trends in the condition of the VC. - Magnitude – the expected size or severity of the residual effect. Each discipline of study will describe the criteria used to classify magnitude to one of negligible, low, medium or high; - Extent – the spatial scale over which the residual physical, biological and/or social effect is expected to occur; typically classified as the local study area (LSA), the regional study area (RSA) or beyond the RSA; - Duration – the length of time the residual effect persists. The duration of an effect can be short-term, medium-term, or long-term. Duration thresholds are typically a product of the project description. Short-term refers to the construction phase, medium-term to the full period of operations, and long-term to beyond project life. - Reversibility - indicating whether the effect is low - reversible, medium - partially reversible or high - permanent. Reversible effects may have lower impact than irreversible or permanent effects; and - Frequency – how often the residual effect occurs, typically classified as low frequency, medium frequency or high frequency.	2	B	4	4.5	4.5.3	-	-	4-31
B	4	4.5	4.5.3	-	4.5.3 Determination of Significance of Residual Effects	131	The likelihood of potential residual effects occurring will also be characterized for each VC using appropriate quantitative or qualitative terms, with sufficient description of how conclusions were reached. The basis for likelihood determinations will be described.	2	B	4	4.5	4.5.3	-	-	4-31
B	4	4.5	4.5.3	-	4.5.3 Determination of Significance of Residual Effects	132	The significance of potential residual adverse effects will be determined for each VC based on the residual effects criteria and the likelihood of a potential residual effect occurring, a review of background information and available field study results, consultation with government agencies, First Nations, and other experts, and professional judgement. The rationale for determinations of the significance of potential effects on VCs will be provided.	2	B	4	4.5	4.5.3	-	-	4-31
B	4	4.5	4.5.3	-	4.5.3 Determination of Significance of Residual Effects	133	The level of confidence for each predicted effect will be discussed to characterize the level of uncertainty associated with both the significance and likelihood determinations. Level of confidence is typically based on expert judgement and will be characterized as low (<40% confidence), medium (40% to 80% confidence) or high (>80% confidence).	2	B	4	4.5	4.5.4	-	-	4-34
B	4	4.5	4.5.3	-	4.5.3 Determination of Significance of Residual Effects	134	The sources and nature of uncertainty associated with residual effect predictions will be described to provide the basis for the stated level of confidence.	2	B	4	4.5	4.5.4	-	-	4-34
B	4	4.5	4.5.3	-	4.5.3 Determination of Significance of Residual Effects	134a	When the level of confidence and predicted significance for an impact is low, then a subjective assessment is often made based on; (a) careful review the extent, characteristics and utility of available information for the assessment and (b) professional opinion and judgement. Cases where an assessment of effects cannot be made with a level of confidence are accompanied with a recommendation for research or monitoring to provide additional information to support the effects assessment and prediction of significance of the effect.	n/a - Contextual/Descriptive							

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B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	135	The EAC Application/EIS will introduce the methods to be used for the cumulative effects assessment (CEA).	2	B	4	4.5	4.5.5	-	-	4-34
B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	135a	The federal government requirement for a cumulative effects assessment is defined in the former CEAA. The cumulative effects assessment methodology will be based on guidance provided by the BCEAO described below in Figure 6. The following policy statements and guidance documents will be used: - Operational Policy Statement: Addressing Cumulative Environmental Effects under the Canadian Environmental Assessment Act (CEA Agency 2007); - Addressing Cumulative Environmental Effects. A Reference Guide for the Canadian Environmental Assessment Act (CEA Agency 1994); - Cumulative Effects Practitioners Guide (CEA Agency 1999); and - Guideline for the Selection of Valued Components and Assessment of Potential Effects (BCEAO 2013).	n/a - Contextual/Descriptive							
B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	136	The EAC Application/EIS will describe the methodology for identifying potential interactions between residual project effects and other past, present or reasonably foreseeable projects and activities. The EAC Application/EIS will identify, describe, and provide rationale to support the inclusion of other projects and activities with the potential to interact with the Proposed Project.	2	B	4	4.5	4.5.5	-	-	4-34
B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	136a	Cumulative effects are defined as project-related residual effects that combine and act cumulatively with similar effects from other past, present and reasonable foreseeable projects and activities.	n/a - Contextual/Descriptive							
B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	136b	The scope and methodology of the cumulative effects assessment will be designed to achieve regulatory requirements of both the BCEAO and CEA Agency as follows: - Determine if the Proposed Project will have a residual adverse effect on a VC; - If such an effect can be demonstrated, determine if the residual effect acts cumulatively with the residual adverse effects of other actions, either past, existing or reasonably foreseeable; and - Determine if the effect of the Proposed Project, in combination with the other effects, may cause a significant change in the characteristics of the VC after the application of mitigation for that project.	2	B	4	4.5	4.5.5	-	-	4-34
B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	136c	The focus of the cumulative effects assessment will be on the incremental effect directly attributable to the Proposed Project on a specific VC. The baseline environmental conditions assessed for each of the VCs will reflect the current conditions of the biophysical or human environment within the defined assessment boundaries of the Proposed Project and clearly account for accumulated residual environmental effects from the construction and ongoing presence and operation of other past and present projects and activities with spatial and temporal overlap with the Proposed Project. However, some maintenance or other ongoing activities associated with past or existing projects may also be considered within the cumulative effects assessment because they may present a potential change in existing conditions which may occur during the life of the Proposed Project outside what have been assessed as baseline conditions for the Proposed Project.	n/a - Contextual/Descriptive							
B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	136d	Cumulative effects will be considered for each VC that is determined to have a project-related residual effect. The residual cumulative environmental, socioeconomic, health effects will then characterized and evaluated using the same criteria and significance thresholds established for the VC significance assessment.	n/a - Contextual/Descriptive							

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B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	136e	In accordance with CEA Agency guidance, the EAC Application/EIS will use following cumulative screening, assessment and evaluation methods: 1) Identify potential regional environmental, socioeconomic or health issues of concern with potential for cumulative interaction. 2) Establish spatial and temporal boundaries for potential cumulative effects interaction and overlap with the Proposed Project. 3) Identify other past, existing and reasonably foreseeable projects and activities with the potential to overlap within assessment boundaries and have the potential to cause a cumulative environmental effect with the Proposed Project. The EAC Application/EIS will include a rationale for including or excluding potentially relevant projects from the cumulative effects assessment, the information sources used, and documentation of efforts made to obtain the best available information. Reasonably foreseeable projects will include those projects and activities that: - Have entered into a formal project approval or permitting process; or - Have not entered a formal process but that have been discussed publicly by proponents; or - Have been specified through discussion with regulators, Aboriginal groups, and/or other stakeholders; and - Possess sufficient project-description information to inform a cumulative effects assessment. 4) Evaluate on a VC specific basis where residual project related effects will interact with project effects from other project and activities. 5) Establish if additional mitigation measures or follow-up monitoring programs are required to address potential cumulative effects from the Proposed Project in combination with other projects and activities. 6) Evaluate using the potential significance of the cumulative effects (using the residual effect criteria set out in Section 4.5.3) between the residual effects of other projects and activities and the predicted residual effects of the Proposed Project.	2	B	4	4.5	4.5.5	-	-	4-34
B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	136f	A preliminary list of past, present and reasonably foreseeable projects to be considered as part of the cumulative effects assessment is presented in Table 5.	n/a - Contextual/Descriptive							
B	4	4.5	4.5.4	-	4.5.4 Cumulative Effects Assessment	137	The EAC Application/EIS will include a rationale for including or excluding potentially relevant projects from the cumulative effects assessment, the information sources used, and documentation of efforts made to obtain the best available information.	2	B	4	4.5	4.5.5	-	-	4-34

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5.0 ASSESSMENT OF POTENTIAL ENVIRONMENTAL EFFECTS																
B	5	-	-	-	5. Assessment of Potential Environmental Effects	138	The EAC Application/EIS will provide an assessment of potential project-related effects on each identified environmental VC. This assessment will include all phases of the Proposed Project lifecycle (including the construction, operational, reclamation and closure phases of the Proposed Project) within the identified spatial and temporal assessment boundaries. The VCs listed in Table 4 will be assessed under the following disciplines: - Fisheries and Freshwater Habitat; - Marine Resources; - Terrestrial Wildlife and Vegetation; - Geotechnical / Natural Hazards; - Surface Water Resources; - Groundwater Resources; - Air Quality; and - Climate Change. The technical discipline specific methodology and assessment criteria to assess each potential effect are outlined in the following sections of this document.	2	B	5	5.1, 5.2 5.3, 5.4 5.5, 5.6 5.7, 5.8	5.1.5, 5.2.5, 5.3.1.5, 5.3.2.5, 5.4.5, 5.5.5, 5.6.5, 5.7.5, 5.8.6	5.1.5.2 5.2.5.2 5.3.1.5.2 5.3.2.5.2 5.4.5.2 5.5.5.2 5.6.5.2 5.7.5.2 5.8.6.1	-	-	5.1-34 5.2-59 5.3-30 5.3-121 5.4-39 5.5-41 5.6-28 5.7-22 5.8-21
5.1 FISHERIES AND FRESHWATER HABITAT																
B	5	5.1	5.1.1	-	5.1.1 Introduction	139	The EAC Application/EIS will introduce the contents of the chapter on fisheries and freshwater habitat and describe the identified VCs.	2	B	5	5.1	5.1.1	-	-	5.1-1	
B	5	5.1	5.1.1	-	5.1.1 Introduction	139a	For the purposes of this assessment, fisheries and freshwater habitat resources refer to anadromous and freshwater commercial, recreational and aboriginal (CRA) fish species and the species that support them, including provincially and federally designated species, and their freshwater habitats potentially affected by the Proposed Project. Marine fish species, such as herring, will be discussed in Section 5.2.	n/a - Contextual/Descriptive								
B	5	5.1	5.1.2	-	5.1.2 Regulatory/Policy Setting	140	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to fisheries and freshwater habitat VCs.	2	B	5	5.1	5.1.2	-	-	5.1-1	
B	5	5.1	5.1.3	-	5.1.3 Assessment Methodology	n/a	n/a	2	B	5	5.1				5.1-1	
B	5	5.1	5.1.3	5.1.3.1	5.1.3.1 Valued Component Selection and Rationale	141	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to fisheries and freshwater habitat.	2	B	5	5.1	5.1.3	5.1.3.1	-	5.1-2	
B	5	5.1	5.1.3	5.1.3.1	5.1.3.1 Valued Component Selection and Rationale	142	Rationale for excluding candidate VCs from the list of selected VCs will be provided in the EAC Application/EIS.	2	B	5	5.1	5.1.3	5.1.3.1	-	5.1-2	
B	5	5.1	5.1.3	5.1.3.2	5.1.3.2 Assessment Boundaries	143	The spatial boundary for the fisheries and freshwater habitat assessment on identified VCs will include a LSA and a RSA.	2	B	5	5.1	5.1.3	5.1.3.2	5.1.3.2.1	5.1-3	

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B	5	5.1	5.1.3	5.1.3.2	5.1.3.2 Assessment Boundaries	143a	The LSA encompasses streams and waterbodies within or adjacent to the footprint of the proposed Project components (i.e., streams that are located within areas near the proposed, as well as ancillary components such as buildings, roads, and transmission lines). These streams are expected to include: - Streams, groundwater channels and other waterbodies located within the mine footprint upstream to a natural fish passage barrier; - The approximately 1.8 km long lower section of McNab Creek that is expected to experience changes in flow due to a reduction in groundwater losses; - Harlequin Creek, from its mouth upstream to a natural fish passage barrier; and - Streams, groundwater channels and other waterbodies located along the western slope adjacent to the mine footprint and freshwater channels south of the mine footprint.			n/a - Contextual/Descriptive					
B	5	5.1	5.1.3	5.1.3.2	5.1.3.2 Assessment Boundaries	143b	The RSA spatial boundary for the fisheries and freshwater habitat assessment is expected to include all mainstem reaches of McNab Creek and tributary catchments of the McNab Creek watershed, including freshwater channels within the intertidal area south of the mine footprint.			n/a - Contextual/Descriptive					
B	5	5.1	5.1.3	5.1.3.2	5.1.3.2 Assessment Boundaries	144	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	5	5.1	5.1.3	5.1.3.2	5.1.3.2.2	5.1-4
B	5	5.1	5.1.3	5.1.3.2	5.1.3.2 Assessment Boundaries	145	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	5	5.1	5.1.3	5.1.3.2	5.1.3.2.3 5.1.3.2.4	5.1-4
B	5	5.1	5.1.3	5.1.3.3	5.1.3.3 Assessment Methods	146	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs. - Describe freshwater aquatic habitats and aquatic resource VCs (i.e., biological values including aquatic plants, and in stream and riparian habitat) within the Local Study Area (LSA) and Regional Study Area (RSA); - Provide an overview of background information, environmental setting and characteristics for each fisheries and freshwater habitat VC; - Provide detailed descriptions and mapping of freshwater habitats, including sensitive areas and critical seasonal habitat (based on confirmed locations of mine components); - Identify adverse effects of the Proposed Project on VCs; - Identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on fisheries and freshwater habitat VCs; and - Identify and describe the potential for residual effects after mitigation techniques have been employed.	2	B	5	5.1	5.1.3	5.1.3.3	-	5.1-4
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	147	The fisheries and freshwater habitat baseline study will provide detailed information on the VCs and all sources of information will be listed.	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	148	Comprehensive Literature Review will be completed to compile existing background information within the RSA and LSA. Sources of information will include, but are not limited to Fisheries Information Summary System (FISS), Habitat Wizard, Ecocat, DFO Salmon Escapement Data System, government reports, consultant reports, etc.	4	G	22	-	-	-	-	Appendix 5.1-A
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	149	Fish Habitat Assessment and Mapping, as follows:	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	149a	Stream mapping and habitat information presented in available reports and maps will be compiled and summarized;	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)

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Section					Description of Relevant Section/Sub-section	No.	Item	Volume	Part	Section					Page (Note 3)
Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	149b	Fish habitat of streams, wetlands, groundwater channels and other waterbodies will be assessed and mapped within the LSA. Mapping will be completed by field traversing with GPS along stream channels and the perimeter of open water areas. Habitat characteristics will be documented consistent with RISC standards including barriers to movement by fish and anadromous salmonids	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	150	Fish Distribution and Abundance, including:	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	150a	Fish distribution information presented in available information will be compiled and summarized;	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	150b	Sampling sites will be located at a number of locations to evaluate the distribution of fish and supplement existing information; Fish populations and relative abundance will be evaluated in several locations within the fish habitats directly affected by the mine footprint and downstream where populations may be affected by changes in water quality or quantity. This includes the groundwater channels within the LSA foreshore and intertidal area. Additional locations will be sampled in McNab Creek, adjacent to the proposed mine footprint. Multi-pass removal-depletion and/or mark re-capture methods will be employed within a section of stream/channel enclosed by both upstream and downstream stop nets;	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	150c	Fish populations and relative abundance will be evaluated within the McNab estuary and foreshore. Fish sampling will consist of beach seining at various sites across the McNab estuary and foreshore; and	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	150d	Fish sampling at reconnaissance sites (i.e., within intermittent and ephemeral channels and within channels outside of the Project Area) will be consistent with RISC standards and will consist of a single pass to inform fish presence/absence at these locations.	2	B	5	5.1	5.1.4	-	-	5.1-10 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	151	Assessment of water quality of freshwater (surface water and groundwater) environments to characterize baseline conditions. Assessment of aquatic resources within the RSA will be conducted through a literature review.	2	B	5	5.5, 5.6	5.5.4, 5.6.4	5.5.4 5.6.4	-	5.5-17 5.6-12 (see also Appendix 5.1-A)
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	152	Maps showing all fish habitats, sampling locations, and sampling results.	4	G	22	-	-	-	-	Appendix 5.1-A
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	153	Tables illustrating timing and frequency of sampling, and sampling results	4	G	22	-	-	-	-	Appendix 5.1-A

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X		
B	5	5.1	5.1.4	-	5.1.4 Baseline Conditions	153a	The following standards, protocols and guides will be reviewed as part of the assessment: - Fisheries Protection Policy Statement (DFO 2013b) - Fisheries Productivity Investment Policy: A Proponent's Guide to Offsetting (DFO 2013c); - Policy for the Management of Fish Habitat (DFO 2001); - Habitat Conservation and Protection Guidelines, Second Edition (DFO 1998); - Practitioners Guide to the Risk Management Framework for DFO Habitat Management Staff, Version 1 (DFO 2010); - DFO Operational Policy Statements for the Pacific Region (DFO 2013a); - Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (BCMOC 2012a); - Canadian Environmental Quality Guidelines (CCME 2012); - British Columbia Field Sampling Manual (BCMOC 2003); - A Compendium of Working Water Quality Guidelines for British Columbia (BC MOE 2006); and - BC MOE Water Quality Guidelines (Criteria) Reports (BC MOE 2012).									n/a - Guidance
B	5	5.1	5.1.5	-	5.1.5 Determine Potential Effects	154	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of the Proposed Project on the fisheries and freshwater habitat VCs identified in Table 4.	2	B	5	5.1	5.1.5	5.1.5.1	-	5.1-19	
B	5	5.1	5.1.5	-	5.1.5 Determine Potential Effects	155	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	5	5.1	5.1.4	5.1.4.1	-	5.1-10	
B	5	5.1	5.1.5	-	5.1.5 Determine Potential Effects	156	Potential effects on fisheries and freshwater habitat that will be assessed include: - Habitat alteration, loss and fragmentation (including loss of habitat provided by the upper constructed groundwater channel within the proposed mine footprint, currently predicted to occur at year 7 of Proposed Project operations); - Direct and indirect effects to fish due to changes in water chemistry and thermal regime of habitat; - Productive capacity of CRA fisheries habitat and the fish that support these fisheries; and - Seasonality of fish utilization and fish-bearing status of potentially affected streams	2	B	5	5.1	5.1.5	-	-	5.1-19	
B	5	5.1	5.1.5	-	5.1.5 Determine Potential Effects	157	The potential effects of unplanned events such as natural hazards and accidental spills will also be assessed.	2	B	5	5.1	5.1.5	5.1.5.2	5.1.5.2.4	5.1-41	
B	5	5.1	5.1.5	-	5.1.5 Determine Potential Effects	158	Where applicable, the assessment of potential effects will provide cross-references to the surface water and groundwater modelling sections of the report. More specifically, this section will integrate results of hydrological predictive modelling along with surface water hydrology results to develop contaminant concentration predictions, including potential ML-ARD issues associated with developing the Proposed Project. The EAC Application/EIS will describe contingency plans if there are notable uncertainties or risks associated with predictions.	2	B	5	5.1	5.1.5	5.1.5.2	-	5.1-34	
B	5	5.1	5.1.6	-	5.1.6 Mitigation	159	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on fisheries and freshwater habitat VCs including any permanent alteration or destruction of fish habitat causing serious harm to fish. Technically and economically feasible measures to avoid, limit, mitigate or offset potential effects will be provided.	2	B	5	5.1	5.1.5	5.1.5.3	-	5.1-41	

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.1	5.1.6	-	5.1.6 Mitigation	159a	Fish and freshwater habitat requirements for offsetting residual impacts will be based the guiding principles of DFO's Fisheries Productivity Investment Policy: A Proponent's Guide to Offsetting (DFO 2013c), as follows: - Offsetting measures must support fisheries management objectives or local restoration priorities; - Benefits from offsetting measures must balance project impacts; - Offsetting measures must provide additional benefits to the fishery; and - Offsetting measures must generate self-sustaining benefits over the long term.	2	B	5	5.1	5.1.5	5.1.5.3	-	5.1-41
B	5	5.1	5.1.6	-	5.1.6 Mitigation	160	A fish habitat offset plan will be provided in the EAC Application/EIS that clearly describes measures to offset serious harm to fish in accordance with fisheries protection provisions of the <i>Fisheries Act</i> , the Fisheries Protection Policy Statement (DFO 2013b) and the Fisheries Productivity Investment Policy: A Proponent's Guide to Offsetting (DFO 2013c).	2	B	5	5.1	5.1.5	5.1.5.3	5.1.5.3.1	5.1-44
B	5	5.1	5.1.7	-	5.1.7 Residual and Cumulative Effects Assessment	160a	The EAC Application/EIS will provide an assessment of residual and cumulative effects on fisheries and freshwater habitat VCs and will include the following information:	2	B	5	5.1	5.1.5	5.1.5.4	-	5.1-49
B	5	5.1	5.1.7	-	5.1.7 Residual and Cumulative Effects Assessment	161	Identify potential residual effects from the Proposed Project on fisheries and freshwater habitat VCs after mitigation measures and environmental management strategies, including habitat offsetting, have been applied	2	B	5	5.1	5.1.5	5.1.5.4	-	5.1-49
B	5	5.1	5.1.7	-	5.1.7 Residual and Cumulative Effects Assessment	162	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	5	5.1	5.1.5	5.1.5.5	-	5.1-56
B	5	5.1	5.1.7	-	5.1.7 Residual and Cumulative Effects Assessment	163	For any residual effects, assess potential cumulative effects of the Proposed Project on fisheries and freshwater habitats and assess the significance of potential cumulative impacts for each fisheries and freshwater VC.	2	B	5	5.1	5.1.5	5.1.5.7	-	5.1-61
B	5	5.1	5.1.8	-	5.1.8 Conclusions	164	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on each of the fisheries and freshwater habitat VCs.	2	B	5	5.1	5.1.6	-	-	5.1-61
5.2 MARINE RESOURCES															
B	5	5.2	5.2.1	-	5.2.1 Introduction	165	The EAC Application/EIS will introduce the contents of the chapter on marine resources and describe the identified VCs.	2	B	5	5.2	5.2.1 5.2.3	5.2.3.1	-	5.2-1 5.2-5
B	5	5.2	5.2.2	-	5.2.2 Regulatory/Policy Setting	166	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to marine resources VCs.	2	B	5	5.2	5.2.2	-	-	5.2-2
B	5	5.2	5.2.3	-	5.2.3 Assessment Methodology	n/a	n/a	2	B	5	5.2				5.2-1
B	5	5.2	5.2.3	5.2.3.1	5.2.3.1 Valued Component Selection and Rationale	167	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to marine habitat.	2	B	5	5.2	5.2.3	5.2.3.1	-	5.2-5
B	5	5.2	5.2.3	5.2.3.1	5.2.3.1 Valued Component Selection and Rationale	168	Rationale for excluding species potentially occurring in the project area from the list of selected VCs will be provided.	2	B	5	5.2	5.2.3	5.2.3.1	-	5.2-5
B	5	5.2	5.2.3	5.2.3.2	5.2.3.2 Assessment Boundaries	169	The spatial boundary for the marine resources assessment on identified VCs will include a LSA and a RSA.	2	B	5	5.2	5.2.3	5.2.3.2	5.2.3.2.1	5.2-7
B	5	5.2	5.2.3	5.2.3.2	5.2.3.2 Assessment Boundaries	169a	The LSA includes the intertidal and subtidal areas within the Proposed Project footprint including the proposed marine terminal facilities in Thornbrough Channel (barge loader and conveyor). The RSA includes the shipping route from the Proposed Project site through Howe Sound via Ramillies Channel, Thornbrough Channel and Queen Charlotte Channel to south of Passage Island.	n/a - Contextual/Descriptive							

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.2	5.2.3	5.2.3.2	5.2.3.2 Assessment Boundaries	170	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	5	5.2	5.2.3	5.2.3.2	5.2.3.2.2	5.2-8
B	5	5.2	5.2.3	5.2.3.2	5.2.3.2 Assessment Boundaries	171	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	5	5.2	5.2.3	5.2.3.2	5.2.3.2.3 5.2.3.2.4	5.2-8
B	5	5.2	5.2.3	5.2.3.3	5.2.3.3 Assessment Methods	172	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs. The assessment approach for marine resources will include the following:	2	B	5	5.2	5.2.3	-	-	5.2-5
B	5	5.2	5.2.3	5.2.3.3	5.2.3.3 Assessment Methods	173	Describe marine aquatic habitats and marine resources VCs within the LSA and RSA;	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A and 5.2-B)
B	5	5.2	5.2.3	5.2.3.3	5.2.3.3 Assessment Methods	174	Provide an overview of background information, environmental setting and characteristics for each marine resources VC;	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A and 5.2-B)
B	5	5.2	5.2.3	5.2.3.3	5.2.3.3 Assessment Methods	175	Provide detailed descriptions and mapping of marine habitats, including sensitive areas and critical seasonal habitat (based on confirmed locations of mine components);	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A and 5.2-B)
B	5	5.2	5.2.3	5.2.3.3	5.2.3.3 Assessment Methods	176	Identify adverse effects of the Proposed Project on VCs;	2	B	5	5.2	5.2.5	-	-	5.2-28
B	5	5.2	5.2.3	5.2.3.3	5.2.3.3 Assessment Methods	177	Identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on marine habitat VCs; and	2	B	5	5.2	5.2.5	5.2.5.3	-	5.2-103
B	5	5.2	5.2.3	5.2.3.3	5.2.3.3 Assessment Methods	178	Identify and describe the potential for residual effects after mitigation techniques have been employed.	2	B	5	5.2	5.2.5	5.2.5.4	-	5.2-118
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	179	The marine resources baseline study will provide detailed information on the VCs and all sources of information will be listed.	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A)
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	180	Comprehensive Literature Review will be completed to compile existing background information within the RSA and LSA. Sources of information will include, but are not limited to British Columbia Cetacean Sighting Network (BCCSN), published and unpublished scientific literature, SARA Recovery plans/COSEWIC stock status reports, Habitat Wizard, Ecocat, government reports, consultant reports, etc.	2	B	5	5.2	5.2.3	5.2.3.3	5.2.3.3.1	5.2-8 (see also Appendix 5.2-A)
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	181	Field studies at the Project foreshore completed in 2012 to characterize baseline conditions of vegetation and macrophytes; epibenthic and infaunal invertebrates; phytoplankton; zooplankton, habitats and habitat use.	2	B	5	5.2	5.2.3	5.2.3.3	5.2.3.3.1	5.2-8 (see also Appendix 5.2-A)
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	182	Assessment of marine resources within the RSA conducted through a literature review.	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A and Appendix 5.2-B)
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	183	LSA and RSA habitat mapping (including eelgrass and kelp beds) based on field and desk-top studies.	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A)
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	184	Marine water quality assessed as a part of baseline characterization.	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A)
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	185	Assessment of marine mammals (including cetaceans and pinnipeds) whose known distribution overlaps with the LSA and RSA conducted through a literature review,	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-B)

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	186	Assessment of migratory marine birds within the LSA conducted through a literature review, marine observations and surveys.	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A)
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	187	Tables illustrating timing and frequency of sampling, and sampling results.	2	B	5	5.2	5.2.4	-	-	5.2-21 (see also Appendix 5.2-A and Appendix 5.2-B)
B	5	5.2	5.2.4	-	5.2.4 Baseline Conditions	188a	The following standards, protocols and guidelines will be reviewed as part of the assessment: - Fisheries Protection Policy Statement (DFO 2013b) - Fisheries Productivity Investment Policy: A Proponent's Guide to Offsetting (DFO 2013c); - Policy for the Management of Fish Habitat (DFO 2001); - Habitat Conservation and Protection Guidelines, Second Edition (DFO 1998); - Practitioners Guide to the Risk Management Framework for DFO Habitat Management Staff, Version 1 (DFO 2010); - DFO Operational Policy Statements for the Pacific Region (DFO 2013a); - Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (BCMOE 2012a); - Marine Foreshore Assessment Procedure (DFO 2002); - Best Management Practices for Pile Driving and Related Operations (DFO 2012); - Canadian Environmental Quality Guidelines (CCME 2012); - Canadian Guidance Framework for the Management of Nutrients in Nearshore Marine Systems (CCME 2007); - British Columbia Field Sampling Manual (BCMOE 2003); - A Compendium of Working Water Quality Guidelines for British Columbia (BCMOE 2006); and - BC MOE Water Quality Guidelines (Criteria) Reports (BCMOE 2012).							n/a - Guidance	
B	5	5.2	5.2.5	-	5.2.5 Determine Potential Effects	188	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of the Proposed Project on the marine resources VCs identified in Table 4.	2	B	5	5.2	5.2.5	5.2.5.1	-	5.2-28
B	5	5.2	5.2.5	-	5.2.5 Determine Potential Effects	189	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	5	5.2	5.2.3	5.2.4.1	-	5.2-5
B	5	5.2	5.2.5	-	5.2.5 Determine Potential Effects	190	Potential effects on marine resources that will be assessed include: - Habitat alteration, loss and fragmentation - Direct and indirect effects to marine resources due to changes in water chemistry and thermal regime of habitat; - Direct and indirect effects on marine resources due to construction activities within the Project foreshore, including noise effect from pile driving; - Direct and indirect effects on marine resources as a result of the conveyor belt system and dock loading facility footprint; - Benthic ecology within the marine LSA; and - Direct and indirect effects on marine mammals and birds associated with shipping activities, including underwater noise.	2	B	5	5.2	5.2.5	-	-	5.2-28

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Approved AIR/EIS Guidelines ^{Note 1}						EAC Application/EIS ^{Note 2}									
Section					Description of Relevant Section/Sub-section	No.	Item	Volume	Part	Section					Page (Note 3)
Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.2	5.2.5	-	5.2.5 Determine Potential Effects	191	The potential effects of unplanned events such as natural hazards and accidental spills will also be assessed.	2	B	5	5.2	5.2.5	5.2.5.5	5.2.5.5.2	5.2-139
B	5	5.2	5.2.5	-	5.2.5 Determine Potential Effects	192	Where applicable, the assessment of potential effects will provide cross-references to the fisheries and freshwater habitat, and surface water and groundwater modelling sections of the assessment. More specifically, this section will use results of assessments on water quality including potential ML-ARD issues associated developing the Proposed Project and their effect on marine resources. The EAC Application/EIS will describe contingency plans if there are notable uncertainties or risks associated with predictions.	2	B	5	5.2	5.2.5	-	-	5.2-28
B	5	5.2	5.2.6	-	5.2.6 Mitigation	193	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on marine habitat VCs including permanent alteration or destruction of fish habitat causing serious harm to fish.	2	B	5	5.2	5.2.5	5.2.5.3	-	5.2-103
B	5	5.2	5.2.6	-	5.2.6 Mitigation	193a	Marine fish habitat requirements for offsetting residual impacts will be based the guiding principles of DFO's Fisheries Productivity Investment Policy: A Proponent's Guide to Offsetting (DFO 2013c), as follows: - Offsetting measures must support fisheries management objectives or local restoration priorities; - Benefits from offsetting measures must balance project impacts; - Offsetting measures must provide additional benefits to the fishery; and - Offsetting measures must generate self-sustaining benefits over the long term.	2	B	5	5.2	5.2.5	5.2.5.3	-	5.2-103 (see also Appendix 5.1-A)
B	5	5.2	5.2.6	-	5.2.6 Mitigation	194	A fish habitat offset plan will be provided in the EAC Application/EIS that clearly describes measures to offset serious harm to fish in accordance with fisheries protection provisions of the <i>Fisheries Act</i> , the Fisheries Protection Policy Statement (DFO 2013b) and the Fisheries Productivity Investment Policy: A Proponent's Guide to Offsetting (DFO 2013c).	2	B	5	5.2	5.2.5	5.2.5.3	-	5.2-103
B	5	5.2	5.2.7	-	5.2.7 Residual and Cumulative Effects Assessment	194a	The EAC Application/EIS will provide an assessment of residual and cumulative effects on marine resource VCs and will include the following information:	2	B	5	5.2	5.2.5	5.2.5.4	-	5.2-118
B	5	5.2	5.2.7	-	5.2.7 Residual and Cumulative Effects Assessment	195	Identify potential residual effects from the Proposed Project on marine resources VCs after mitigation measures and environmental management strategies, including habitat offsetting, have been applied;	2	B	5	5.2	5.2.5	5.2.5.4	-	5.2-118
B	5	5.2	5.2.7	-	5.2.7 Residual and Cumulative Effects Assessment	196	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	5	5.2	5.2.5	5.2.5.5	-	5.2-135
B	5	5.2	5.2.7	-	5.2.7 Residual and Cumulative Effects Assessment	197	For any residual effects, assess potential cumulative effects of the Proposed Project on marine resources and assess the significance of potential cumulative impacts for each marine resources VC.	2	B	5	5.2	5.2.5	5.2.5.7	-	5.2-144
B	5	5.2	5.2.8	-	5.2.8 Conclusions	198	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on marine resources VCs.	2	B	5	5.2	5.2.6	-	-	5.2-151
5.3 TERRESTRIAL WILDLIFE AND VEGETATION															
B	5	5.3	5.3.1	-	5.3.1 Introduction	199	The EAC Application/EIS will introduce the contents of the chapter on terrestrial wildlife and vegetation and describe the identified VCs.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.1 5.3.2.1	-	5.3-1 5.3-98

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Section					Description of Relevant Section/Sub-section	No.	Item	Volume	Part	Section					Page (Note 3)
Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.3	5.3.1	-	5.3.1 Introduction	199a	For the purposes of this assessment, wildlife resources refer to wildlife species, including provincially and federally (Species at Risk Act (SARA) and Committee on the Status of Endangered Wildlife in Canada (COSEWIC)) designated species and their habitats potentially affected by the Proposed Project. Wildlife species to be considered for assessment include those of management concern such as species that have special conservation status and/or were identified from the provincial red and blue lists, and species identified and agreed to through consultation with interested Aboriginal groups. Vegetation resources considered in this assessment will include regionally occurring plant communities, rare vascular and non-vascular plant species as defined by SARA, provincial Red-listed or Blue-listed plant species, provincial Red-listed or Blue-listed ecosystems and wetlands, riparian and old growth forest ecosystems.			n/a - Contextual/Descriptive					
B	5	5.3	5.3.2	-	5.3.2 Regulatory/Policy Setting	200	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to terrestrial wildlife and vegetation habitat VCs.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.2 5.3.2.2	-	5.3-1 5.3-98
B	5	5.3	5.3.3	-	5.3.3 Assessment Methodology	n/a	n/a	2	B	5	5.3				5.3-1
B	5	5.3	5.3.3	5.3.3.1	5.3.3.1 Valued Component Selection and Rationale	201	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to terrestrial wildlife and vegetation.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.3 5.3.2.3	5.3.1.3.1 5.3.2.3.1	5.3-2 5.3-100
B	5	5.3	5.3.3	5.3.3.1	5.3.3.1 Valued Component Selection and Rationale	202	Rationale for excluding species potentially occurring in the project area from the list of selected VCs will be provided.	2	B	5	5.2	5.2.3	5.2.3.1	-	5.2-5
B	5	5.3	5.3.3	5.3.3.2	5.3.3.2 Assessment Boundaries	202a	The spatial boundary for the terrestrial wildlife and vegetation assessment on identified VCs will include an LSA and an RSA.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.3 5.3.2.3	5.3.1.3.2 5.3.2.3.2	5.3-7 5.3-103
B	5	5.3	5.3.3	5.3.3.2	5.3.3.2 Assessment Boundaries	203	The LSA for terrestrial wildlife and vegetation VCs will include the cadastral property boundaries DL6612, DL667, DL667A and DL667B owned by the Proponent. The LSA will also apply a buffer to this boundary based on local topography. This buffer has been extended northwards to where the McNab FSR crosses McNab Creek and along the west and east slopes to breaks in topography. The LSA extends approximately 500 m from the property boundary edge and that is contained within the Coastal Western Hemlock very moist maritime (CWHvm1) biogeoclimatic zone. In total the LSA covers approximately 570 ha. The LSA is designed to address project specific impacts from the site itself on local plant and animal communities that do not have large geographic ranges, such as bats, amphibians and rodents.			n/a - Contextual/Descriptive					
B	5	5.3	5.3.3	5.3.3.2	5.3.3.2 Assessment Boundaries	204	The RSA for terrestrial wildlife and vegetation VCs will include adjacent watersheds that are adjoining and geographically connected to the McNab watershed. These adjacent watersheds include McNair and Rainy River watersheds to the west, and Potlatch Creek to the east. In total, the RSA covers approximately 30,000 ha. Watershed level 3 boundaries were used to delineate these edges and include enough of a comparative range to establish connectivity analysis for wildlife such as ungulates, birds, large carnivores and ecosystems.			n/a - Contextual/Descriptive					
B	5	5.3	5.3.3	5.3.3.2	5.3.3.2 Assessment Boundaries	205	The temporal boundaries for the terrestrial wildlife and vegetation assessment will include all phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.3 5.3.2.3	5.3.1.3.2 5.3.2.3.2	5.3-7 5.3-103
B	5	5.3	5.3.3	5.3.3.2	5.3.3.2 Assessment Boundaries	206	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS	2	B	5	5.3	5.3.1 5.3.2	5.3.1.3 5.3.2.3	5.3.1.3.2 5.3.2.3.2	5.3-7 5.3-103

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.3	5.3.3	5.3.3.3	5.3.3.3 Assessment Methods	207	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs. The assessment approach for terrestrial wildlife and vegetation resources will include the following:	2	B	5	5.3	5.3.1 5.3.2	5.3.1.3 5.3.2.3	-	5.3-2 5.3-100
B	5	5.3	5.3.3	5.3.3.3	5.3.3.3 Assessment Methods	207a	<ul style="list-style-type: none"> - Provide an overview of background information, environmental setting and characteristics for each wildlife VC; - Describe wildlife resources (i.e., terrestrial wildlife species/subspecies) within the LSA and RSA; - Develop Terrestrial Ecosystem Mapping (TEM) for the LSA (1:5,000 scale for the mine site) as a basis for describing ecosystems, including sensitivity to disturbance and limitations for restoration, and of wildlife suitability mapping; - Consolidate and analyze Vegetation Resource Inventory (VRI) data for the RSA and use it for landscape analysis and wildlife habitat modelling; - Identify and evaluate potential effects including cumulative effects of the Proposed Project on terrestrial VCs; - Identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on wildlife; and - Identify and describe the potential for residual effects after mitigation techniques have been employed. 	2	B	5	5.3	5.3.1 5.3.2	5.3.1.3 5.3.2.3	-	5.3-2 5.3-100
B	5	5.3	5.3.3	5.3.3.3	5.3.3.3 Assessment Methods	207b	<p>Standards, protocols and guidelines to be considered as part of the assessment include:</p> <ul style="list-style-type: none"> - Inventory Methods for Forest and Grassland Songbirds, Version 2.0 (RISC 1999); - Inventory Methods for Owl Surveys, Draft (RISC 2006); - Inventory Methods for Pond-breeding Amphibians and Painted Turtle, Version 2.0 (RIC 1998a); - Ground-based Inventory Methods for Selected Ungulates: Moose, Elk and Deer, Version 2.0 (RIC 1998b) - Inventory Methods for Raptors, Version 2.0 (RISC 2009); and - Inventory Methods for Marbled Murrelets in Marine and Terrestrial Habitats Version 2.0. (RISC 2001). 	n/a - Guidance							
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	208	The terrestrial wildlife and vegetation resource baseline study will provide detailed information on the VCs, including sensitive life-cycle stages, and all sources of information will be listed. The baseline is expected to be characterized as follows:	2	B	5	5.3	5.3.1 5.3.2	5.3.1.4 5.3.2.4	-	5.3-15 5.3-109
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	209	Literature review, including information from web sites and databases, topographic mapping, air photo interpretation.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.4 5.3.2.4	-	5.3-15 5.3-109
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	210	Anecdotal site surveys and observations.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.4 5.3.2.4	-	5.3-15 5.3-109
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	211	Seasonal wildlife surveys, including the following:	2	B	5	5.3	5.3.1	5.3.1.4	-	5.3-15 (see also Appendix 5.3-A)
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	211a	Breeding bird surveys: Simple point count stations were established within the LSA and sampled according to Resource Inventory Standards (RISC) guideline.	2	B	5	5.3	5.3.1	5.3.1.4	-	5.3-15 (see also Appendix 5.3-A)

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	211b	Owl call playback surveys: owl call playback surveys were conducted at within the LSA. Species surveyed included northern saw-whet owl (<i>Aegolius acadicus</i>), barred owl (<i>Strix varia</i>), and great horned owl (<i>Bubo virginianus</i>).	2	B	5	5.3	5.3.1	5.3.1.4	-	5.3-15 (see also Appendix 5.3-A)
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	211c	Remote camera monitoring: remote infrared motion detection cameras were set within the LSA for three years to record biodiversity and seasonal use of the LSA by medium and large size mammals, including grizzly bear and Roosevelt elk. Camera locations were selected to sample variations in habitat type within the LSA and provide a comparison for species distribution and variation within the Proposed project area and adjacent habitat.	2	B	5	5.3	5.3.1	5.3.1.4	-	5.3-15 (see also Appendix 5.3-A)
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	211d	Amphibian surveys: breeding surveys for pond-breeding amphibians were conducted following RISC guidelines. General transects were conducted around identified breeding ponds to document adult amphibians.	2	B	5	5.3	5.3.1	5.3.1.4	-	5.3-15 (see also Appendix 5.3-A)
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	211e	Species specific surveys and observations: - Northern goshawk call playback: surveys for northern goshawk were conducted within the LSA following RISC guidelines; - Western screech-owl call playback: surveys for western screech-owl were conducted within the LSA following RISC guidelines; and - Marbled murrelet surveys: surveys were conducted at four stations following forest survey standards outlined in RISC protocol.	2	B	5	5.3	5.3.1	5.3.1.4	-	5.3-15 (see also Appendix 5.3-A)
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	212	Marbled murrelet surveys: surveys were conducted at four stations following forest survey standards outlined in RISC protocol.	2	B	5	5.3	5.3.1	5.3.1.4	-	5.3-15 (see also Appendix 5.3-A)
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	213	Habitat suitability modeling: habitat suitability models will be built for the following VCs: Roosevelt elk, grizzly bear, common nighthawk, western screech-owl, and northern goshawk.	2	B	5	5.3	5.3.1	5.3.1.4	-	5.3-15 (see also Appendix 5.3-A)
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	214	Seasonal ecosystem surveys, including: spring and summer vegetation inventory to provincial data collection standards as outlined in the " <i>Field Manual for Describing Terrestrial Ecosystems</i> ." A field survey intensity Level of 4 will be used.	2	B	5	5.3	5.3.2	5.3.2.4	-	5.3-109 (see also Appendix 5.3-A)

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B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	214a	The following standards, protocols and guides will be used: - B.C. Ministry of Forests and Range. Biogeoclimatic Ecosystem Classification for Vancouver Forest Region. Victoria, BC; - Green and Klinka. 1994. A Field Guide for Site Identification and interpretation for the Vancouver Forest Region; - BC Ministry of Forests and Ministry of Environment, Lands and Parks. 2010. Field Manual for Describing Ecosystems 2nd Edition; - Douglas, G.W., D.V. Meidinger, and J.L. Penny. 2002. Rare Native Vascular Plants of British Columbia. 2nd. ed. B.C. Ministry of Sustainable Resource Management and B.C. Ministry of Forests, Victoria, BC. 359 pp; - Douglas, G., G. Straley, D. Meidinger and J. Pojar. 1998-2002. Illustrated Flora of British Columbia. B.C. Ministry of Sustainable Resource Management and Ministry of Forests, Victoria, British Columbia. Volumes 1-8; - Mackenzie, W.H. 2012. Biogeoclimatic Ecosystem Classification of Non-forested Ecosystems in British Columbia. Province of British Columbia, Ministry of Forests Research Program; and - Mackenzie, W.H. and J.R. Moran. 2004 Wetlands of British Columbia: a guide to identification. Research Branch, B.C. Ministry of Forests, Victoria, B.C. Land Management Handbook Number 52.							n/a - Guidance				
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	215	2	B	5	5.3	5.3.2	5.3.2.4	-	5.3-109 (see also Appendix 5.3-A)				
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	215a	...undertaken protocols from: - Penny, J. and R. Klinkenberg. 2007. Protocols for Rare Vascular Plant Surveys. E-Flora BC: Electronic Atlas of the Plants of British Columbia. University of British Columbia, Vancouver; and - Voucher Specimen Collection, Preparation, Identification and Storage Protocol: Plants & Fungi – Standards for Components of British Columbia’s Biodiversity No. 4b. June 9, 1999. Version 2.0.							n/a - Guidance				
B	5	5.3	5.3.4	-	5.3.4 Baseline Conditions	216	2	B	5	5.3	5.3.2	5.3.2.4	-	5.3-109 (see also Appendix 5.3-A)				
B	5	5.3	5.3.5	-	5.3.5 Determine Potential Effects	217	2	B	5	5.3	5.3.1 5.3.2	5.3.1.5 5.3.2.5	5.3.1.5.1 5.3.2.5.1	5.3-17 5.3-112				
B	5	5.3	5.3.5	-	5.3.5 Determine Potential Effects	218	2	B	5	5.3	5.3.1 5.3.2	5.3.1.4 5.3.2.4	5.3.1.4.1 5.3.2.4.1	5.3-16 5.3-111				

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.3	5.3.5	-	5.3.5 Determine Potential Effects	219	The assessment will identify and evaluate potential adverse effects of the Proposed Project on the following components of terrestrial wildlife and vegetation resources, species-at-risk, and important wildlife habitats: - Habitat alteration, loss, and fragmentation; - Estimate direct habitat loss based on project footprint and indirect reduction of habitat suitability based on zone of influence assessment, including potential for effects from alterations to noise and light regimes and habitat fragmentation; - Key life stage requirements of wildlife, focusing on VCs, habitat requirements, such as breeding habitat, ungulate parturition areas, winter range, amphibian breeding areas, raptor nest sites; - Project-related mortality; - Human-wildlife interactions and potential for wildlife population effects, including species population management; and - Landscape alteration as a function of biodiversity and ecosystem function.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.5 5.3.2.5	5.3.1.5.2 5.3.2.5.2	5.3-30 5.3-125
B	5	5.3	5.3.6	-	5.3.6 Mitigation	220	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on terrestrial wildlife and vegetation VCs. Measures to mitigate potential effects will be reflected in proposed reclamation and closure activities.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.5 5.3.2.5	5.3.1.5.4 5.3.2.5.4	5.3-67 5.3-137 (see also Appendix 4)
B	5	5.3	5.3.6	-	5.3.6 Mitigation	221	Discuss the effectiveness and limitations of identified mitigation measures, environmental management, and compensation strategies.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.5 5.3.2.5	5.3.1.5.4 5.3.2.5.4	5.3-67 5.3-137
B	5	5.3	5.3.6	-	5.3.6 Mitigation	222	Discuss the commitments that the Proponent is making with respect to wildlife and vegetation based on proposed mitigation measures.	2	B	5	5.3	5.3.1 5.3.2	5.3.1.5 5.3.2.5	5.3.1.5.4 5.3.2.5.4	5.3-67 5.3-137
B	5	5.3	5.3.7	-	5.3.7 Residual and Cumulative Effects Assessment	223	Identify potential residual effects from the Proposed Project on terrestrial wildlife and vegetation conditions after mitigation measures and environmental management strategies have been applied;	2	B	5	5.3	5.3.1 5.3.2	5.3.1.5 5.3.2.5	5.3.1.5.5 5.3.2.5.5	5.3-77 5.3-147
B	5	5.3	5.3.7	-	5.3.7 Residual and Cumulative Effects Assessment	224	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	5	5.3	5.3.1 5.3.2	5.3.1.5 5.3.2.5	5.3.1.5.6 5.3.2.5.6	5.3-92 5.3-153
B	5	5.3	5.3.7	-	5.3.7 Residual and Cumulative Effects Assessment	225	For any residual effects, assess potential cumulative effects of the Proposed Project on terrestrial wildlife and vegetation conditions and provide conclusion on potential cumulative impacts for each terrestrial wildlife and vegetation VC.	2	B	5	5.3	5.3.3	-	-	5.3-154
B	5	5.3	5.3.8	-	5.3.8 Conclusions	226	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on terrestrial wildlife and vegetation VCs.	2	B	5	5.3	5.3.4	-	-	5.3-186
5.4 GEOTECHNICAL AND NATURAL HAZARDS															
B	5	5.4	5.4.1	-	5.4.1 Introduction	227	The EAC Application/EIS will introduce the contents of the chapter on geotechnical and natural hazards and describe the identified VCs.	2	B	5	5.4	5.4.1	-	-	5.4-1
B	5	5.4	5.4.1	-	5.4.1 Introduction	227a	For the purposes of this assessment, geotechnical and natural hazard VCs include timber harvesting (loss of ground cover) potentially resulting in mudslides, flooding, debris floods, debris flows or ground movement, slope instability and landslides, as well as the assessment of potential impact of geotechnical hazards on streams or wetlands and worker safety.	n/a - Contextual/Descriptive							
B	5	5.4	5.4.2	-	5.4.2 Regulatory/Policy Setting	229	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to geotechnical and natural hazards VCs.	2	B	5	5.4	5.4.2	-	-	5.4-3
B	5	5.4	5.4.3	-	5.4.3 Assessment Methodology	n/a	n/a	2	B	5	5.4				5.4-1
B	5	5.4	5.4.3	5.4.3.1	5.4.3.1 Valued Component Selection and Rationale	230	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to geotechnical and natural hazards.	2	B	5	5.4	5.4.3	5.4.3.1	-	5.4-4
B	5	5.4	5.4.3	5.4.3.2	5.4.3.2 Assessment Boundaries	231	The spatial boundary for the geotechnical and natural hazards assessment on identified VCs will include a LSA and a RSA.	2	B	5	5.4	5.4.3	5.4.3.2	5.4.3.2.1	5.4-5

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.4	5.4.3	5.4.3.2	5.4.3.2 Assessment Boundaries	232	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	5	5.4	5.4.3	5.4.3.2	5.4.3.2.2	5.4-6
B	5	5.4	5.4.3	5.4.3.2	5.4.3.2 Assessment Boundaries	233	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	5	5.4	5.4.3	5.4.3.2	5.4.3.2.3 5.4.3.2.4	5.4-7
B	5	5.4	5.4.3	5.4.3.2	5.4.3.2 Assessment Boundaries	231a	The LSA will encompass the Proposed Project area in which modifications to current vegetation cover, site grades and surface or groundwater conditions are expected. In addition, the LSA will include a 500 metre buffer from the Project boundary to encompass those areas adjacent to the perimeter of the Project area which will not be modified, such as the McNab Creek channel and the Howe Sound shoreline buffer zone, but could potentially be impacted by activities or changes in geotechnical, geological and hydrogeological conditions within the Project area. The RSA will encompass the LSA and the McNab Creek watershed, including tributary drainage channels.	n/a - Contextual/Descriptive							
B	5	5.4	5.4.3	5.4.3.2	5.4.3.2 Assessment Boundaries	231b	The baseline will be characterized through a review of historic records and aerial photograph for the LSA and RSA's. In addition publically available reports or mapping of geological, geotechnical and natural hazard conditions will be used.	2	B	5	5.4	5.4.4	-	-	5.4-17
B	5	5.4	5.4.3	5.4.3.3	5.4.3.3 Assessment Methods	234	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	5	5.4	5.4.3	5.4.3.3	-	5.4-7
B	5	5.4	5.4.3	5.4.3.3	5.4.3.3 Assessment Methods	234a	The assessment approach for the geotechnical and natural hazard assessment will include the following: - Describe the geotechnical/geological conditions, erosion potential, and the physical environment within the LSA and RSA; - Provide an overview of background information, environmental setting and characteristics for each geotechnical and natural hazards VC; - Describe soil suitability for reclamation; - Identify and evaluate potential effects resulting from the interaction between the Proposed Project and the geotechnical/physical environment, including natural extreme weather events (heavy precipitation, flooding, drought, storms, and / or high snow levels), for each geotechnical and natural hazards VC; - Identify on-site and off-site components or structures having high failure consequences during operation and closure phases of the Proposed Project. Where appropriate, undertake a risk management assessment that quantifies potential risks associated with the Proposed Project; and - Identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on the geotechnical/physical environment for each geotechnical and natural hazards VC.	2	B	5	5.4	5.4.3	5.4.3.3	-	5.4-7
B	5	5.4	5.4.4	-	5.4.4 Baseline Conditions	235	The EAC Application/EIS will provide detailed information on geotechnical and natural hazards within the LSA and RSA. The baseline is expected to be characterized as follows:	2	B	5	5.4	5.4.4	-	-	5.4-17
B	5	5.4	5.4.4	-	5.4.4 Baseline Conditions	236	Evaluation of geological, terrain and site conditions within the LSA and RSA;	2	B	5	5.4	5.4.4	-	-	5.4-17
B	5	5.4	5.4.4	-	5.4.4 Baseline Conditions	237	Review of available orthographic photography, including applicable sets of historic aerial photographs, and other maps such as topographic plans or geological maps to identify existing or historic geotechnical and natural hazard features and determine the extent and areas to be inspected;	2	B	5	5.4	5.4.4	-	-	5.4-17
B	5	5.4	5.4.4	-	5.4.4 Baseline Conditions	238	Site inspections and reconnaissance-level visits to inspect and document current conditions in those areas identified as subject to current or potential geohazard impacts, such as indications of slope movements, erosion, and drainage channel scour or downcutting;	2	B	5	5.4	5.4.4	-	-	5.4-17
B	5	5.4	5.4.4	-	5.4.4 Baseline Conditions	239	Site investigation, comprising geotechnical or geological mapping of outcrops and excavation of shallow test pits in key areas; and	2	B	5	5.4	5.4.4	-	-	5.4-17

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.4	5.4.4	-	5.4.4 Baseline Conditions	240	Comprehensive drilling investigation at key points to determine if structural features at depth will impact the stability of site development. The drilling would also include testing to determine hydrogeological features at the Property.	2	B	5	5.4	5.4.4	-	-	5.4-17
B	5	5.4	5.4.4	-	5.4.4 Baseline Conditions	240a	The following geological mapping will be used in assessing baseline conditions: - Surficial Geology and Sand and Gravel Deposits of Sunshine Coast, Powell River, and Campbell River Areas, 1977, Bulletin 65 Province of British Columbia, Ministry of Mines and Petroleum Resources - Environmental and Engineering Applications of the Surficial Geology of the Fraser Lowland, British Columbia, 1984, Paper 83-23 John E. Armstrong Geological Survey of Canada - Sand and Gravel in the Strait of Georgia Area, S.F. Leaming, 1968, Paper 66-60 Geological Survey of Canada - Vancouver North, Coquitlam, and Pitt Lake Map-Areas, British Columbia, 1966, J.A. Roddick, Memoir 335, Geol Survey of Canada.	n/a - Guidance							
B	5	5.4	5.4.5	-	5.4.5 Determine Potential Effects	241	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of the Proposed Project on the Geotechnical and natural hazard VCs identified in Table 4.	2	B	5	5.4	5.4.5	5.4.5.1	-	5.4-30
B	5	5.4	5.4.5	-	5.4.5 Determine Potential Effects	242	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	5	5.4	5.4.4	5.4.4.2	-	5.4-17
B	5	5.4	5.4.5	-	5.4.5 Determine Potential Effects	243	The assessment approach will include the following: - Analysis of the suitability and potential impact of the Proposed Project based on methods established by the BC Ministry of Mines and applicable standard/current engineering and geohazard evaluation methods, including but not limited to those presented in the Association of Professional Engineers and Geoscientists of British Columbia publication "Guidelines for Legislated Landslide Assessments for Proposed Residential Developments in BC," revised May 2010. These analyses will include: - Stability evaluations of the Proposed Project for both static and seismic cases and consider several options for development / sequencing of the site to confirm facilities are developed in a safe manner; - Evaluation of existing or potential natural hazard conditions which could impact the sequencing of excavation and development of the pit slopes, stockpile locations or heights, and the stability of the adjacent McNab Creek channel sides slopes; and - A review of the potential impact of changes in surface water and groundwater seepage into or from the Proposed Project site; - An assessment of the potential risk of avulsion in the lower reaches of McNab Creek; and - Determination of methods and plans to operate the Proposed Project site in a safe manner, which avoids and limits potential effects to the local environment.	2	B	5	5.4	5.4.3	5.4.3.3	-	5.4-7
B	5	5.4	5.4.5	-	5.4.5 Determine Potential Effects	244	Based on the results of geotechnical and natural hazard assessment process described above, a qualitative risk analysis will be conducted to evaluate the probability and potential consequences of the various possible events, both within the Proposed Project area and elsewhere within the LSA and RSA.	2	B	5	5.4	5.4.5	5.4.5.2	-	5.4-39
B	5	5.4	5.4.6	-	5.4.6 Mitigation	245	The EAC Application/EIS will identify mitigation measures and management strategies to avoid, limit, or otherwise mitigate potential effects of the proposed project on geotechnical and natural hazards.	2	B	5	5.4	5.4.5	5.4.5.3	-	5.4-44
B	5	5.4	5.4.6	-	5.4.6 Mitigation	246	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures and environmental management strategies.	2	B	5	5.4	5.4.5	5.4.5.3	-	5.4-44

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B	5	5.4	5.4.6	-	5.4.6 Mitigation	247	Where appropriate, risk management strategies to reduce potential risks associated with on-site and off-site value components or structures will be provided.	2	B	5	5.4	5.4.5	5.4.5.3	-	5.4-44
B	5	5.4	5.4.7	-	5.4.7 Residual and Cumulative Effects Assessment	248	Identify potential residual effects resulting from the interaction between the Proposed Project and the geophysical environment, and the related consequences, after mitigation measures and environmental management strategies that have been applied;	2	B	5	5.4	5.4.5	5.4.5.4	-	5.4-49
B	5	5.4	5.4.7	-	5.4.7 Residual and Cumulative Effects Assessment	249	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	5	5.4	5.4.5	5.4.5.5	-	5.4-69
B	5	5.4	5.4.7	-	5.4.7 Residual and Cumulative Effects Assessment	250	For any residual effects, assess potential cumulative effects of the Proposed Project on geotechnical/physical conditions and provide conclusion on potential cumulative impacts for each geotechnical and natural hazards VC.	2	B	5	5.4	5.4.6	-	-	5.4-74
B	5	5.4	5.4.8	-	5.4.8 Conclusions	251	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on geotechnical and natural hazard VCs.	2	B	5	5.4	5.4.7	-	-	5.4-74
5.5 SURFACE WATER RESOURCES															
B	5	5.5	5.5.1	-	5.5.1 Introduction	252	The EAC Application/EIS will introduce the contents of the chapter on surface water resources and describe the identified VCs.	2	B	5	5.5	5.5.1	-	-	5.5-1
B	5	5.5	5.5.2	-	5.5.2 Regulatory/Policy Setting	253	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to surface water resource VCs.	2	B	5	5.5	5.5.2	-	-	5.5-1
B	5	5.5	5.5.3	-	5.5.3 Assessment Methodology	n/a	n/a	2	B	5	5.5				5.5-1
B	5	5.5	5.5.3	5.5.3.1	5.5.3.1 Valued Component Selection and Rationale	254	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to surface water resources.	2	B	5	5.5	5.5.3	5.5.3.1	-	5.5-3
B	5	5.5	5.5.3	5.5.3.2	5.5.3.2 Assessment Boundaries	255	The spatial boundary for surface water resources identified VCs will include a LSA and a RSA.	2	B	5	5.5	5.5.3	5.5.3.2	5.5.3.2.1	5.5-6
B	5	5.5	5.5.3	5.5.3.2	5.5.3.2 Assessment Boundaries	255a	The LSA will encompass the intertidal area to the south, 10 m west of the existing road on to the west of the proposed Project area to approximately 100 m north of the proposed Project area, and 10 m east of McNab Creek. The RSA will include the entire McNab watershed.	n/a - Contextual/Descriptive							
B	5	5.5	5.5.3	5.5.3.2	5.5.3.2 Assessment Boundaries	256	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	5	5.5	5.5.3	5.5.3.2	5.5.3.2.2	5.5-6
B	5	5.5	5.5.3	5.5.3.2	5.5.3.2 Assessment Boundaries	257	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	5	5.5	5.5.3	5.5.3.2	5.5.3.2.3 5.5.3.2.4	5.5-7
B	5	5.5	5.5.3	5.5.3.3	5.5.3.3 Assessment Methods	258	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs. The assessment approach will include the following:	2	B	5	5.5	5.5.3	5.5.3.3	-	5.5-7
B	5	5.5	5.5.3	5.5.3.3	5.5.3.3 Assessment Methods	259	A description of surface water hydrology conditions within the LSA and RSA;	2	B	5	5.5	5.5.4	5.5.4.2	-	5.5-18 (see also Appendix 5.5-A)
B	5	5.5	5.5.3	5.5.3.3	5.5.3.3 Assessment Methods	260	Characterizing the regional climate and hydrology based on long-term data from regional stations;	2	B	5	5.5	5.5.4	-	-	5.5-17
B	5	5.5	5.5.3	5.5.3.3	5.5.3.3 Assessment Methods	261	Identify existing water licenses, user and usage, including surface water points of diversion within the LSA and RSA;	2	B	5	5.5	5.5.4	-	-	5.5-17 (see also Appendix 5.5-A)

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.5	5.5.3	5.5.3.3	5.5.3.3 Assessment Methods	262	Provide an overview of background information, environmental setting and characteristics for each hydrology VC; and	2	B	5	5.5	5.5.4	5.5.4.2 5.5.4.4	-	5.5-18 5.5-20 (see also Appendix 5.5-A)
B	5	5.5	5.5.3	5.5.3.3	5.5.3.3 Assessment Methods	263	Identify and evaluate potential effects of the Proposed Project on drainage characteristics and hydrologic response at the Property.	2	B	5	5.5	5.5.5	5.5.5.2	5.5.5.2.1	5.5-41
B	5	5.5	5.5.3	5.5.3.3	5.5.3.3 Assessment Methods	263a	The following legislation, standards, protocols and guidelines will be reviewed considered as needed a part of the assessment: - Manual of Operational Hydrology in British Columbia, for The Ministry of Environment, Water Management Division, Hydrology Section, Coulson, C.H. (Editor), 1991.	n/a - Guidance							
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	265	The surface water resources baseline study will provide detailed information on the VCs. The baseline is expected to be characterized as follows:	2	B	5	5.5	5.5.4	-	-	5.5-17 (see also Appendix 5.5-A)
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	266	Surface water hydrometric monitoring program. Periods of actual stream flow measurements and how this data was used to inform stream flow estimations will be described.	2	B	5	5.5	5.5.4	-	-	5.5-17 (see also Appendix 5.5-A)
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	267	Background data review: review of available hydrologic reports for the region and a search of general geographic, climate, land use, vegetation, and surficial geology information sources. Available, regional and long-term climate and hydrometric data from sources such as the Water Survey Branch of the Meteorological Service of Canada, and BC Ministry of Environment will be identified and compiled. This task also includes the compilation of summary information on water licence records of authorized withdrawal sources for residential, agricultural, commercial and industrial purposes on streams potentially affected by the Proposed Project based on a Ministry of Sustainable Resource Management Water Licences Query.	2	B	5	5.5	5.5.4	-	-	5.5-17 (see also Appendix 5.5-A)
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	268	Long term regional and local climate conditions: assessment of the following variables: air temperature, relative humidity, precipitation (i.e., rainfall, snowfall and total), snow on the ground, wind speed and direction, evaporation, and the combined effect of sublimation and wind redistribution on snow. Typical statistics (e.g., monthly and annual average, minima and maxima) will be calculated for these variables. Extreme precipitation (i.e., annual, monthly, and short and long term rainfall, including the 24-hour event) and wind events will be determined for typical return periods. Data from local and regional climate stations will be compared to derive long-term air temperature, precipitation and evaporation time series for the mine site. Predicted long term trends as a result of climate change for air temperature and precipitation will be presented.	2	B	5	5.5 and 5.8	5.5.4 and 5.8.5	5.8.5.1	-	5.5-17 and 5.8-19 (see also Appendix 5.5-A and Appendix 5.7-D)
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	269	Long term regional and local hydrometric conditions: assessment of the local water level and stream flow observations, regional stream flow averages and extremes (e.g., annual maxima and 7Q10 flow (7 day, consecutive low flow with a 10-year return frequency), ice cover conditions, and sediment yields. Runoff coefficients will be estimated from precipitation and stream flow observations. The annual and monthly water balance at the watershed scale will be determined.	2	B	5	5.5	5.5.4	-	-	5.5-17 (see also Appendix 5.5-A)

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	270	Estimation of stream flows: The following characteristics will be estimated for relevant stream locations for the Proposed Project: Annual and monthly average and extremes (5 and 10 dry events and 200 year wet events), the 7Q10 flow for the ice-cover (winter) and open-water (spring/summer/fall) periods, and the peak flow (10 year return period). The relevant stream locations will be finalized during baseline characterization, and would typically be at the boundaries of the LSA and RSA, where compliance with aquatic thresholds and guidelines are required, and where needed for the operations of the aggregate mine. Annual and monthly flow estimates will be determined from statistical analyses and the rational method. The 7Q10 events will be estimated from statistical analysis. The peak flow will be estimated using HEC-HMS and verified with observed data. These stream flows will characterise baseline conditions and will be compared with those predicted for the other phases of the Proposed Project to evaluate the potential impacts of mine development on the VCs.	2	B	5	5.5	5.5.4	-	-	5.5-17 (see also Appendix 5.5-A)
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	271	Characterize the background conditions of the man-made groundwater channel.	2	B	5	5.5	5.5.4	5.5.4.2	-	5.5-18 (see also Appendix 5.5-A and 5.1-A)
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	272	Assessment of water quality of freshwater (surface water and groundwater) environments to characterize baseline conditions.	2	B	5	5.5	5.5.4	5.5.4.3	-	5.5-19 (see also Appendix 5.5-C)
B	5	5.5	5.5.4	-	5.5.4 Baseline Conditions	273	Assessment of aquatic resources within the RSA will be conducted through a literature review.	2	B	5	5.5	5.5.4	-	-	5.5-17
B	5	5.5	5.5.5	-	5.5.5 Determine Potential Effects	274	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of the Proposed Project on the surface water VCs identified in Table 4.	2	B	5	5.5	5.5.5	5.5.5.1	-	5.5-22
B	5	5.5	5.5.5	-	5.5.5 Determine Potential Effects	275	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	5	5.5	5.5.4	5.5.4.1	-	5.5-17
B	5	5.5	5.5.5	-	5.5.5 Determine Potential Effects	276	The assessment will identify and evaluate potential effects on surface water resource VCs: - Expected changes in the drainage characteristics (i.e., vegetation clearing, ditching, channel realignment, and soil compaction);	2	B	5	5.5	5.5.4	-	-	5.5-17
B	5	5.5	5.5.5	-	5.5.5 Determine Potential Effects	277	- Hydrologic response at the site from changes in drainage characteristics (i.e., changes in runoff coefficients and flow characteristics as well as effect on erosion and sedimentation at the site); and	2	B	5	5.5	5.5.4	-	-	5.5-17
B	5	5.5	5.5.5	-	5.5.5 Determine Potential Effects	278	- Estimation of stream flows at the relevant stream locations selected during the baseline characterization to assess the potential effects of the Proposed Project. Stream flows will be estimated for each phase of the development, and will consider the results of the water management plan, site water balance and assessment of potential effects. The estimated stream flow characteristics will be low flows (i.e., 7Q10), annual and monthly average and extremes (5 and 10 year dry events and 200 year wet events), and peak flow (10-year return period).	2	B	5	5.5	5.5.4	-	-	5.5-17
B	5	5.5	5.5.5	-	5.5.5 Determine Potential Effects	279	- Static and kinetic leachate testing to characterize acid generation potential of aggregate and surface materials. Geochemical modelling will be undertaken to assess acid rock drainage (ARD) potential associated with mine waste.	2	B	5	5.5	5.5.5	5.5.5.2	5.5.5.2.4	5.5-58 (see also Appendix 5.6-C)

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B	5	5.5	5.5.5	-	5.5.5 Determine Potential Effects	280	- Model water quality based on geochemical testing of aggregate materials and baseline results observed at surface and groundwater monitoring locations. Mass will be conserved in the model to estimate the quality in the pit lake and in the discharge from the pit lake. The influence of pit water on downstream tributaries (i.e., McNab Creek) will also be evaluated by mixing simulated pit lake water qualities with assigned surface water qualities in downstream tributaries.	2	B	5	5.5	5.5.4	-	-	5.5-17
B	5	5.5	5.5.5	-	5.5.5 Determine Potential Effects	281	- Discuss the design and management criteria that are expected to be followed for the development of a sustainable closure and reclamation plan.	2	B	5	5.5	5.5.5	5.5.5.3	-	5.5-58 (see also Appendix 4)
B	5	5.5	5.5.6	-	5.5.6 Mitigation	283	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on surface water resource VCs.	2	B	5	5.5	5.5.5	5.5.5.3	-	5.5-58
B	5	5.5	5.5.6	-	5.5.6 Mitigation	284	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures, environmental management, and compensation strategies.	2	B	5	5.5	5.5.5	5.5.5.3	-	5.5-58
B	5	5.5	5.5.6	-	5.5.6 Mitigation	285	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to surface water resources based on proposed mitigation measures.	2	B	5	5.5	5.5.5	5.5.5.3	-	5.5-58
B	5	5.5	5.5.7	-	5.5.7 Residual and Cumulative Effects Assessment	286	Identify potential residual effects of the Proposed Project on surface water resources, and the related consequences, after mitigation measures and environmental management strategies have been applied;	2	B	5	5.5	5.5.5	5.5.5.4	-	5.5-66
B	5	5.5	5.5.7	-	5.5.7 Residual and Cumulative Effects Assessment	287	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	5	5.5	5.5.5	5.5.5.5	-	5.5-83
B	5	5.5	5.5.7	-	5.5.7 Residual and Cumulative Effects Assessment	288	For any residual effects, assess potential cumulative effects of the Proposed Project on surface water conditions and provide conclusion on potential cumulative impacts for each surface water VC.	2	B	5	5.5	5.5.5	5.5.5.7	-	5.5-88
B	5	5.5	5.5.8	-	5.5.8 Conclusions	289	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on surface water resource VCs.	2	B	5	5.5	5.5.6	-	-	5.5-88
5.6 GROUNDWATER RESOURCES															
B	5	5.6	5.6.1	-	5.6.1 Introduction	290	The EAC Application/EIS will introduce the contents of the chapter on groundwater resources and describe the identified VCs.	2	B	5	5.6	5.6.1 5.6.3	5.6.3.1	-	5.6-1 5.6-3
B	5	5.6	5.6.2	-	5.6.2 Regulatory/Policy Setting	291	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to groundwater resources VCs.	2	B	5	5.6	5.6.2	-	-	5.6-1
B	5	5.6	5.6.3	-	5.6.3 Assessment Methodology	n/a	n/a	2	B	5	5.6				5.6-1
B	5	5.6	5.6.3	5.6.3.1	5.6.3.1 Valued Component Selection and Rationale	292	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to groundwater resources.	2	B	5	5.6	5.6.3	5.6.3.1	-	5.6-3
B	5	5.6	5.6.3	5.6.3.2	5.6.3.2 Assessment Boundaries	293	The spatial boundary for the groundwater resources on identified VCs will include a LSA and a RSA.	2	B	5	5.6	5.6.3	5.6.3.2	5.6.3.2.1	5.6-4

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.6	5.6.3	5.6.3.2	5.6.3.2 Assessment Boundaries	293a	The LSA will encompass the alluvial fan/delta south and west of McNab Creek and the portion of the alluvial sediments north of McNab Creek. The LSA does not include bedrock east of McNab Creek or the bedrock slope west of the fan/delta. The RSA will encompass the catchment area of Lower McNab Creek.			n/a - Contextual/Descriptive					
B	5	5.6	5.6.3	5.6.3.2	5.6.3.2 Assessment Boundaries	294	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation and closure.	2	B	5	5.6	5.6.3	5.6.3.2	5.6.3.2.2	5.6-5
B	5	5.6	5.6.3	5.6.3.2	5.6.3.2 Assessment Boundaries	295	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	5	5.6	5.6.3	5.6.3.2	5.6.3.2.3 5.6.3.2.4	5.6-5
B	5	5.6	5.6.3	5.6.3.3	5.6.3.3 Assessment Methods	296	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs. The assessment approach for groundwater resource VCs will include the following:	2	B	5	5.6	5.6.3	5.6.3.3	-	5.6-5
B	5	5.6	5.6.3	5.6.3.3	5.6.3.3 Assessment Methods	296a	Description of groundwater conditions within the LSA and RSA;	2	B	5	5.6	5.6.3	5.6.3.3	-	5.6-5
B	5	5.6	5.6.3	5.6.3.3	5.6.3.3 Assessment Methods	296b	Development of a conceptual hydrogeological model for the Proposed Project;	2	B	5	5.6	5.6.3	5.6.3.3	-	5.6-5
B	5	5.6	5.6.3	5.6.3.3	5.6.3.3 Assessment Methods	296c	Identify existing groundwater users and usage, including a comprehensive search of both registered and unregistered water supply wells within the LSA and RSA;	2	B	5	5.6	5.6.3	5.6.3.3	-	5.6-5
B	5	5.6	5.6.3	5.6.3.3	5.6.3.3 Assessment Methods	296d	Provide an overview of background information, environmental setting and characteristics for each hydrogeology VC; and	2	B	5	5.6	5.6.3	5.6.3.3	-	5.6-5
B	5	5.6	5.6.3	5.6.3.3	5.6.3.3 Assessment Methods	296e	Evaluate potential effects of the Proposed Project on hydrogeology conditions, the groundwater regime, and groundwater quality.	2	B	5	5.6	5.6.3	5.6.3.3	-	5.6-5
B	5	5.6	5.6.3	5.6.3.3	5.6.3.3 Assessment Methods	296f	The following legislation, standards, protocols and guidelines will be considered as part of the assessment: - Groundwater Protection Regulation (2009).	n/a - Guidance							
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	297	The groundwater resources baseline study will provide detailed information on VCs and all sources of information will be listed.	2	B	5	5.6	5.6.4	-	-	5.6-12
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	298	Monitoring well drilling/construction program to establish a network of sites for direct testing and/or sampling, as required to characterize both LSA and RSA hydrogeological (groundwater) regimes.	2	B	5	5.6	5.6.4	-	-	5.6-12 (see also Appendix 5.6-A)
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	299	A long-term groundwater (i.e., water table and/or piezometric levels) monitoring program has been established that is suitable to identify and quantify temporal variations:	2	B	5	5.6	5.6.5	5.6.5.3	-	5.6-30
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	299a	An hourly sampling interval will be used for groundwater level/pressure monitoring.	2	B	5	5.6	5.6.5	5.6.5.3	-	5.6-30
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	299b	Pumping tests will be conducted within selected monitoring wells and/or within dedicated pumping wells, if warranted based on a review of the monitoring data.	2	B	5	5.6	5.6.5	5.6.5.3	-	5.6-30

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	299c	Groundwater quality field program to obtain representative groundwater samples from the monitoring well network: - Groundwater samples will be collected on a quarterly basis in accordance with approved sampling methodologies, including appropriate well development and purging protocols, use of appropriate sampling equipment, laboratory-supplied bottles and preservatives, and measurement of field indicator parameters (using calibrated instruments) prior to sampling to ensure the collection of representative samples; and - A groundwater sampling form will be completed at each sampling location that documents the sampling procedure. Samples will be transported to an accredited analytical laboratory in coolers, on-ice, under chain-of-custody and analyzed within the approved holding times. One field duplicate sample will be collected for every 10 samples to assess both laboratory and field precision. A control limit of 20% for the Relative Percent Difference (RPD) will be applied to original and duplicate sample values that are greater than or equal to five times the Method Detection Limit. Data contained in tables and figures will be checked by a second party and the results of that QA / QC will be documented on QA/QC forms.	2	B	5	5.6	5.6.5	5.6.5.3	-	5.6-30
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	299d	Measurement of marine tidal fluctuations in Howe Sound and their effects on groundwater levels.	2	B	5	5.6	5.6.5	5.6.5.3	-	5.6-30
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	300	Identify all existing and/or former registered water supply wells and surface water licence Points of Diversion (POD) in the RSA, through review of Provincial databases. Summarize relevant Provincial "Detailed Well Record" information and data from "Water Licence" documents, notably all well and POD locations, subsurface stratigraphy, construction type, capacity (projected or licensed amounts) and available chemistry;	2	B	5	5.6	5.6.4	-	-	5.6-12
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	301	Construct an RSA conceptual hydrogeological model based on collective information from all relevant hydraulic testing and chemistry testing data sources (including hydrology, geochemistry and geotechnical disciplines). The model will include representations of groundwater flow directions, groundwater divides, flow gradients (both vertical and/or horizontal, as required), water table positions, piezometric levels, major sediment and bedrock stratigraphy and structure, primary groundwater recharge areas, confirmed and/or interpreted aquifers, confirmed and interpreted groundwater discharge areas/locations, registered and unregistered water well locations, water licence POD locations and any other groundwater receptors identified through consultation with other Project disciplines. The conceptual groundwater model will include a cross section (or cross sections) of the site. Provide recommendations for additional monitoring, as warranted based on the conceptual hydrogeological model.	2	B	5	5.6	5.6.4	-	-	5.6-12
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	302	Construct a three-dimensional RSA-scale numerical hydrogeological model based on data collected during the baseline study, relevant information included in or derived from the conceptual hydrogeological model, and baseline hydrological conditions / data. Calibrate to pre-development conditions using data from the same sources.	2	B	5	5.6	5.6.4	-	-	5.6-12 (see also Appendix 5.6-D)

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	303	Review current Mine Plan. Revise and use the numerical hydrogeological model to simulate groundwater conditions during mining and at Closure Phase and Post-Closure Phase (as described in Spatial Boundary). Predict influences on the LSA and RSA groundwater hydraulic attributes and assess advective travel times for key seepage pathways identified during the collective baseline assessment and effects assessment studies. Sensitivity analysis would specifically include consideration for climatic variations, through consultation with Hydrology and other relevant Proposed Project disciplines, but will also include an overall sensitivity analyses to assess the uncertainty in model predictions related to the relative uncertainty in model hydraulic parameters such as hydraulic conductivity and recharge, etc.	2	B	5	5.6	5.6.4	-	-	5.6-12
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	304	Use of the numerical model to predict and characterize potential changes to LSA and RSA groundwater-surface water interactions (i.e., base flow) and identify potentially affected receptors.	2	B	5	5.6	5.6.4	-	-	5.6-12
B	5	5.6	5.6.4	-	5.6.4 Baseline Conditions	305	If geochemical sources are identified during the geochemistry evaluation, groundwater flow pathways and travel times will be predicted using the numerical model.	2	B	5	5.6	5.6.4	-	-	5.6-12
B	5	5.6	5.6.5	-	5.6.5 Determine Potential Effects	306	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of the Proposed Project on groundwater VCs identified in Table 4.	2	B	5	5.6	5.6.5	5.6.5.1	-	5.6-19
B	5	5.6	5.6.5	-	5.6.5 Determine Potential Effects	307	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	5	5.6	5.6.4	5.6.4.1	-	5.6-12
B	5	5.6	5.6.5	-	5.6.5 Determine Potential Effects	307a	The assessment will evaluate potential effects of the Proposed Project on hydrogeology conditions, the groundwater regime, and groundwater quality. The assessment will consider how changes to groundwater caused by the Proposed Project will impact surface water quantity and quality. The assessment method approach is expected to include the following:	2	B	5	5.6	5.6.5	5.6.5.4	-	5.6-32
B	5	5.6	5.6.5	-	5.6.5 Determine Potential Effects	307b	- Prepare and use the numerical hydrogeological model to simulate groundwater conditions for the ultimate pit configuration and at Closure Phase and Post-Closure Phase (as described in Spatial Boundary). Include a cross section that shows the site and its hydrogeologic properties at pit closure for the purpose of comparison with the conceptual hydrogeologic model cross section for baseline conditions. Indicate the hydrostratigraphic units (including hydraulic conductivity), groundwater flow directions and gradients, water table levels, groundwater divides and recharge and discharge areas, and the locations of the pit, groundwater channel and any other significant surface water features.	2	B	5	5.6	5.6.5	5.6.5.4	-	5.6-32
B	5	5.6	5.6.5	-	5.6.5 Determine Potential Effects	307c	- Use the model to predict changes to the water table at various phases of the Proposed Project and the potential for and potential effect of salt water intrusion into aquifers. Provide an assessment of how the project may affect the availability of groundwater for groundwater users and baseflow in surface waters.	2	B	5	5.6	5.6.5	5.6.5.4	-	5.6-32
B	5	5.6	5.6.5	-	5.6.5 Determine Potential Effects	307d	- Predict influences on the LSA and RSA groundwater hydraulic attributes and assess advective travel times for key seepage pathways identified during the collective baseline assessment and effects assessment studies. Sensitivity analysis would specifically include consideration for climatic variations, through consultation with Hydrology and other relevant Project disciplines, but will also include an overall sensitivity analyses to assess the uncertainty in model predictions related to the relative uncertainty in model hydraulic parameters such as hydraulic conductivity, recharge, etc.	2	B	5	5.6	5.6.5	5.6.5.4	-	5.6-32

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.6	5.6.5	-	5.6.5 Determine Potential Effects	307e	- Use the numerical model to predict and characterize potential changes to LSA and RSA groundwater surface water interactions (i.e., baseflow), including potential changes to the man-made groundwater channel resulting from the Proposed Project and potential changes to groundwater resulting from project-induced changes to the channel. Identify potentially affected receptors.	2	B	5	5.6	5.6.5	5.6.5.4	-	5.6-32
B	5	5.6	5.6.5	-	5.6.5 Determine Potential Effects	307f	- If geochemical sources are identified during the geochemistry evaluation, groundwater flow pathways and travel times will be predicted using the numerical model.	2	B	5	5.6	5.6.5	5.6.5.4	-	5.6-32
B	5	5.6	5.6.6	-	5.6.6 Mitigation	308	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on groundwater resource VCs.	2	B	5	5.6	5.6.5	5.6.5.3	-	5.6-30
B	5	5.6	5.6.6	-	5.6.6 Mitigation	309	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures, environmental management, and compensation strategies.	2	B	5	5.6	5.6.5	5.6.5.3	-	5.6-30
B	5	5.6	5.6.6	-	5.6.6 Mitigation	310	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to groundwater based on proposed mitigation measures.	2	B	5	5.6	5.6.5	5.6.5.3	-	5.6-30
B	5	5.6	5.6.7	-	5.6.7 Residual and Cumulative Effects Assessment	311	Identify potential residual effects of the Proposed Project on hydrogeology conditions, and the related consequences, after mitigation measures and environmental management strategies have been applied;	2	B	5	5.6	5.6.5	5.6.5.4	-	5.6-32
B	5	5.6	5.6.7	-	5.6.7 Residual and Cumulative Effects Assessment	312	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	5	5.6	5.6.5	5.6.5.5	-	5.6-36
B	5	5.6	5.6.7	-	5.6.7 Residual and Cumulative Effects Assessment	313	For any residual effects, assess potential cumulative effects of the Proposed Project on hydrogeological conditions and provide conclusion on potential cumulative impacts for each hydrogeology VC.	2	B	5	5.6	5.6.5	5.6.5.7	-	5.6-41
B	5	5.6	5.6.8	-	5.6.8 Conclusions	314	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on groundwater resources.	2	B	5	5.6	5.6.6	-	-	5.6-41
5.7 AIR QUALITY															
B	5	5.7	5.7.1	-	5.7.1 Introduction	315	The EAC Application/EIS will introduce the contents of the chapter on air quality and describe the identified VCs.	2	B	5	5.7	5.7.1 5.7.3	5.7.3.1	-	5.7-1 5.7-3
B	5	5.7	5.7.2	-	5.7.2 Regulatory/Policy Setting	316	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to air quality VCs, including the Sea-to-Sky Air Quality Management Plan (SSAQMP) and its companion implementation framework.	2	B	5	5.7	5.7.2	-	-	5.7-1
B	5	5.7	5.7.3	-	5.7.3 Assessment Methodology	n/a	n/a	2	B	5	5.7				5.7-1
B	5	5.7	5.7.3	5.7.3.1	5.7.3.1 Valued Component Selection and Rationale	317	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to air quality.	2	B	5	5.7	5.7.3	5.7.3.1	-	5.7-3
B	5	5.7	5.7.3	5.7.3.2	5.7.3.2 Assessment Boundaries	317a	The spatial boundary for the air quality assessment on identified VCs will include an LSA and an RSA.	2	B	5	5.7	5.7.3	5.7.3.2	5.7.3.2.1	5.7-4
B	5	5.7	5.7.3	5.7.3.2	5.7.3.2 Assessment Boundaries	318	The LSA will be 20 km by 20 km, centered on the Project site. The LSA will also extend along the barge route corridor, 1 km on either side of the corridor to the edge of the RSA. This is currently anticipated to be the area within which air quality effects can be predicted or measured with reasonable certainty.	n/a - Contextual/Descriptive							

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B	5	5.7	5.7.3	5.7.3.2	5.7.3.2 Assessment Boundaries	318a	The RSA corresponds to the wider area that will be used for the dispersion modelling domain, approximately 80 km by 80 km centered on the proposed Project site. Potential effects will be assessed relative to provincial and federal air quality criteria and the Sea-to-Sky Airshed, as appropriate.	n/a - Contextual/Descriptive							
B	5	5.7	5.7.3	5.7.3.2	5.7.3.2 Assessment Boundaries	319	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	5	5.7	5.7.3	5.7.3.2	5.7.3.2.2	5.7-4
B	5	5.7	5.7.3	5.7.3.2	5.7.3.2 Assessment Boundaries	320	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	5	5.7	5.7.3	5.7.3.2	5.7.3.2.3 5.7.3.2.4	5.7-5 5.7-6
B	5	5.7	5.7.3	5.7.3.3	5.7.3.3 Assessment Methods	321	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	5	5.7	5.7.3	5.7.3.3	-	5.7-6
B	5	5.7	5.7.3	5.7.3.3	5.7.3.3 Assessment Methods	322	Describe regional climate and meteorological conditions within the local study area (LSA) and the regional study area (RSA)	2	B	5	5.7	5.7.4	-	-	5.7-14
B	5	5.7	5.7.3	5.7.3.3	5.7.3.3 Assessment Methods	323	Describe available air quality monitoring data for the LSA and the RSA.	2	B	5	5.7	5.7.4	-	-	5.7-14
B	5	5.7	5.7.3	5.7.3.3	5.7.3.3 Assessment Methods	324	Provide an overview of background information, environmental setting and characteristics for the air quality VC	2	B	5	5.7	5.7.4	-	-	5.7-14
B	5	5.7	5.7.3	5.7.3.3	5.7.3.3 Assessment Methods	325	Identify and evaluate potential effects of the Proposed Project on the implementation of the SSAQMP and on maintaining air quality conditions that are consistent with relevant provincial and federal ambient air quality standards and quality-of-life related issues	2	B	5	5.7	5.7.5	5.7.5.2	-	5.7-21
B	5	5.7	5.7.3	5.7.3.3	5.7.3.3 Assessment Methods	326	Identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on air quality.	2	B	5	5.7	5.7.5	5.7.5.3	-	5.7-25
B	5	5.7	5.7.3	5.7.3.3	5.7.3.3 Assessment Methods	326a	The following legislation, standards, protocols and guides will be used in the assessment: - Guidelines for Air Quality Dispersion Modeling in British Columbia (BCMOE 2008); - B.C. Ambient Air Quality Objectives (that also includes a summary of federal ambient air quality criteria) (BCMOE 2013b); and - Sea-to-Sky Air Quality Management Plan.	n/a - Guidance							
B	5	5.7	5.7.4	-	5.7.4 Baseline Conditions	327	The air quality baseline study will provide detailed information on the VCs and all sources of information will be listed.	2	B	5	5.7	5.7.4	-	-	5.7-14
B	5	5.7	5.7.4	-	5.7.4 Baseline Conditions	328	Characterize local climate and meteorological conditions.	2	B	5	5.7	5.7.4	-	-	5.7-14
B	5	5.7	5.7.4	-	5.7.4 Baseline Conditions	328a	Baseline meteorological data would support the EAC Application/EIS for a number of different disciplines including hydrology, climate change and air quality.	n/a - Contextual/Descriptive							
B	5	5.7	5.7.4	-	5.7.4 Baseline Conditions	329	Review existing air quality data available in the area of the site (i.e., most recent provincial emissions inventory (BCMOE 2013c) and Sea-to Sky Airshed Emissions Inventory of Common Air Contaminants (Pitre 2002)), and identification of what further air quality data would be required to determine baseline conditions. Should no such data be available, baseline monitoring of indicators such as total suspended particulate (TSP), particulate matter less than 10 micron (PM10), and particulate matter less than 2.5 micron (PM2.5) may be required.	2	B	5	5.7	5.7.4	-	-	5.7-14

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.7	5.7.4	-	5.7.4 Baseline Conditions	330	If adequate/suitable existing air quality data is not available for baseline characterization, the following will be undertaken: - Determine the number and location of air quality monitoring stations; - Determine the appropriate duration and time of year to undertake the baseline air quality monitoring; - Determine the air quality monitoring parameters; - Specification of suitable baseline sampling equipment; - Site visit to install sampling equipment; - Periodic site visits to service sampling equipment as required; - QA/QC of monitoring data collected over the monitoring period; and - Reporting of data collected over the monitoring period.	2	B	5	5.7	5.7.4	-	-	5.7-14
B	5	5.7	5.7.5	-	5.7.5 Determine Potential Effects	331	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of the Proposed Project on Air Quality VCs identified in Table 4.	2	B	5	5.7	5.7.5	5.7.5.2	-	5.7-21
B	5	5.7	5.7.5	-	5.7.5 Determine Potential Effects	332	A qualitative assessment of the potential for visual air quality degradation will be provided.	2	B	5	5.7	5.7.5	5.7.5.2	-	5.7-21
B	5	5.7	5.7.5	-	5.7.5 Determine Potential Effects	333	For the three different temporal limits, the construction, operation and closure phases, emission sources will be identified and emission rates for particulates and CACs of concern will be quantified. The calculated emission rates will account for planned mitigation activities such as enclosures and wet handling of the material.	2	B	5	5.7	5.7.5	5.7.5.2	-	5.7-21 (see also Appendix 5.7-A)
B	5	5.7	5.7.5	-	5.7.5 Determine Potential Effects	334	The construction phase is typically short in duration and emissions are intermittent therefore, the operational phase of the Proposed Project is expected to generate the most emissions (this will need to be verified after the emissions rates for the three project phases have been assessed). To determine if air dispersion modelling is required based on the calculated emission rates the methods outlined in BC MOE (2008) <i>Guidelines for Air Quality Dispersion Modelling in British Columbia</i> will be followed. It is currently expected that dispersion modelling of the Proposed Project may be required; however, this will be confirmed once the initial identification of emission sources for the Proposed Project phases has been undertaken and a screening level assessment has been conducted.	2	B	5	5.7	5.7.5	5.7.5.2	-	5.7-21
B	5	5.7	5.7.5	-	5.7.5 Determine Potential Effects	335	The predicted ambient concentrations within the LSA and RSA for the Proposed Project area, derived from air dispersion modelling, will be compared to appropriate federal and provincial air quality criteria.	2	B	5	5.7	5.7.5	5.7.5.2	-	5.7-21
B	5	5.7	5.7.6	-	5.7.6 Mitigation	336	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on the air quality VC.	2	B	5	5.7	5.7.5	5.7.5.3	-	5.7-25

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	5	5.7	5.7.6	-	5.7.6 Mitigation	337	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures, environmental management, and compensation strategies.	2	B	5	5.7	5.7.5	5.7.5.3	-	5.7-25
B	5	5.7	5.7.6	-	5.7.6 Mitigation	338	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to meteorology air quality based on proposed mitigation measures.	2	B	5	5.7	5.7.5	5.7.5.3	-	5.7-25
B	5	5.7	5.7.7	-	5.7.7 Residual and Cumulative Effects Assessment	339	Identify potential residual effects of the Proposed Project on air quality after mitigation measures and environmental management strategies have been applied.	2	B	5	5.7	5.7.5	5.7.5.4	-	5.7-28
B	5	5.7	5.7.7	-	5.7.7 Residual and Cumulative Effects Assessment	340	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document.	2	B	5	5.7	5.7.5	5.7.5.5	-	5.7-31
B	5	5.7	5.7.7	-	5.7.7 Residual and Cumulative Effects Assessment	341	For any residual effects, assess potential cumulative effects of the Proposed Project on air quality conditions and provide conclusion on potential cumulative impacts for the air quality VC.	2	B	5	5.7	5.7.5	5.7.5.7	-	5.7-34 (see also Appendix 5.7-E)
B	5	5.7	5.7.8	-	5.7.8 Conclusions	342	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on the air quality VC.	2	B	5	5.7	5.7.6	-	-	5.7-42
5.8 CLIMATE CHANGE															
B	5	5.8	5.8.1	-	5.8.1 Introduction	343	The EAC Application/EIS will introduce the contents of the chapter on climate change and describe the identified VCs.	2	B	5	5.8	5.8.1	-	-	5.8-1
B	5	5.8	5.8.2	-	5.8.2 Regulatory/Policy Setting	344	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to climate change VCs, including the Sea-to-Sky Air Quality Management Plan (SSAQMP) and its companion implementation framework.	2	B	5	5.8	5.8.2	-	-	5.8-1
B	5	5.8	5.8.3	-	5.8.3 Assessment Methodology	n/a	n/a	2	B	5	5.8				5.8-1
B	5	5.8	5.8.3	5.8.3.1	5.8.3.1 Valued Component Selection and Rationale	345	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to climate change.	2	B	5	5.8	5.8.3	5.8.3.1	-	5.8-3
B	5	5.8	5.8.3	5.8.3.2	5.8.3.2 Assessment Boundaries	346	This assessment will describe the historical climate trends and the future climate projections across spatial boundaries used across all disciplines and therefore the spatial boundaries for the purposes of this assessment are not defined in a figure. Similarly, the impacts of the Proposed Project on climate change and the effects of climate change on the Proposed Project are all within these spatial boundaries.	2	B	5	5.8	5.8.3	5.8.3.2	5.8.3.2.1	5.8-4
B	5	5.8	5.8.3	5.8.3.2	5.8.3.2 Assessment Boundaries	347	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	5	5.8	5.8.3	5.8.3.2	5.8.3.2.2	5.8-4
B	5	5.8	5.8.3	5.8.3.2	5.8.3.2 Assessment Boundaries	348	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	5	5.8	5.8.3	5.8.3.2	5.8.3.2.3 5.8.3.2.4	5.8-5
B	5	5.8	5.8.3	5.8.3.3	5.8.3.3 Assessment Methods	349	The EAC Application/EIS will outline methods used to assess potential effects of the Proposed Project on identified VCs.	2	B	5	5.8	5.8.3	5.8.3.3	-	5.8-5

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B	5	5.8	5.8.3	5.8.3.3	5.8.3.3 Assessment Methods	350	The Federal-Provincial-Territorial Committee on Climate Change and Environmental Assessment (FPTCCCEA) requirements to consider climate change will be addressed through the following considerations: - How will potential changes in climate affect the infrastructure associated with the Proposed Project? - How will the operation of the Proposed Project contribute to greenhouse gas (GHG) emissions? - Will the GHG emissions from the Proposed Project affect climate change (i.e., the Proposed Project's contribution to climate through the emission of GHGs)?	2	B	5	5.8	5.8.4	-	-	5.8-10
B	5	5.8	5.8.3	5.8.3.3	5.8.3.3 Assessment Methods	350a	The following legislation, standards, protocols and guides will be used in the assessment: - Requirements of the Federal-Provincial-Territorial Committee on Climate Change and Environmental Assessment (FPTCCCEA 2003).	n/a - Guidance							
B	5	5.8	5.8.4	-	5.8.4 Baseline Conditions	351	The climate change baseline study will provide information on the VCs and all sources of information will be listed. The baseline is expected to be characterized by providing information of regional sources of GHG emissions such as carbon dioxide, methane and nitrous oxide; the emission rates will be presented as carbon dioxide equivalents. Moreover, the baseline conditions will be characterized by undertaking a review of GHG emission sources within the area of the Proposed Project site, and identification of what further GHG data would be required to determine baseline conditions.	2	B	5	5.8	5.8.4	-	-	5.8-10
B	5	5.8	5.8.5	-	5.8.5 Determine Potential Effects	352	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on the climate change VCs identified in Table 4.	2	B	5	5.8	5.8.5	5.8.5.3	-	5.8-21
B	5	5.8	5.8.5	-	5.8.5 Determine Potential Effects	353	The assessment will include how climate change may affect the Project infrastructure, and identify which aspects of the Proposed Project may need to be assessed in greater detail because of a potentially changing climate. To understand how the climate has been changing, and may change in the future, climate trends will be analyzed by: - Describing the existing climate using available long-term (30 year) data; - Documenting how the climate has changed over the past 30 years in the Project region; - Discussing the range of future climate projections; and - Presenting a climate risk matrix.	2	B	5	5.8	5.8.6	5.8.6.1	-	5.8-22
B	5	5.8	5.8.5	-	5.8.5 Determine Potential Effects	354	The annual GHG emissions from the Project will be estimated for the proposed Project operation phase, and will be compared to the provincial and national emissions to assess the relative contribution of the proposed Project on a Provincial, Canadian and Global basis.	2	B	5	5.8	5.8.6	5.8.6.1	-	5.8-22
B	5	5.8	5.8.5	-	5.8.5 Determine Potential Effects	355	The possible contribution of the proposed Project to future climate change will be assessed by comparing the Project GHG emissions to the global GHG emissions used in the future climate predictions, to gain an appreciation of the relative magnitude and likely effects of the Proposed Project.	2	B	5	5.8	5.8.6	5.8.6.1	-	5.8-22
B	5	5.8	5.8.6	-	5.8.6 Mitigation	356	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on climate change VCs.	2	B	5	5.8	5.8.6	5.8.6.2	-	5.8-25
B	5	5.8	5.8.6	-	5.8.6 Mitigation	357	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures, environmental management, and compensation strategies.	2	B	5	5.8	5.8.6	5.8.6.2	-	5.8-25
B	5	5.8	5.8.6	-	5.8.6 Mitigation	358	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to GHG reduction based on proposed mitigation measures.	2	B	5	5.8	5.8.6	5.8.6.2	-	5.8-25

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B	5	5.8	5.8.7	-	5.8.7 Residual and Cumulative Effects Assessment	359	Identify potential residual effects from the Proposed Project on climate change VCs after mitigation measures and environmental management strategies have been applied.	2	B	5	5.8	5.8.7	-	-	5.8-25
B	5	5.8	5.8.7	-	5.8.7 Residual and Cumulative Effects Assessment	360	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document.	2	B	5	5.8	5.8.7	-	-	5.8-25
B	5	5.8	5.8.7	-	5.8.7 Residual and Cumulative Effects Assessment	361	For any residual effects, assess potential cumulative effects of the Proposed Project on climate change and provide conclusion on potential cumulative impacts for each climate change VC.	2	B	5	5.8	5.8.7	-	-	5.8-25
B	5	5.8	5.8.8	-	5.8.8 Conclusions	362	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on climate change VCs.	2	B	5	5.8	5.8.8	-	-	5.8-27
5.9 SUMMARY OF ENVIRONMENTAL EFFECTS															
B	5	5.9	-	-	5.9 Summary of Environmental Effects	363	The EAC Application/EIS will provide a summary table of potential residual environmental effects of the Proposed Project as outlined in Table 6. The Summary of predicted residual effects will include both direct and cumulative effects.	2	B	5	5.9	-	-	-	5.9-1
6.0 ASSESSMENT OF POTENTIAL ECONOMIC EFFECTS															
6.1 SUSTAINABLE ECONOMY															
B	6	-	-	-	6. Assessment of Potential Economic Effects	363a	The EAC Application/EIS will provide an assessment of potential project-related effects on each economic VC identified. This assessment will include, all phases of the Proposed Project lifecycle (including the construction, operations, reclamation, and closure phases of the Proposed Project) within the identified spatial and temporal assessment boundaries. Potential effects on the following economic VCs will be assessed: - Sustainable Economy including: - Regional Economic Development; - Labour Market; - Local Government Revenue; and - Real Estate. The technical discipline specific methodology and assessment criteria to assess each effect are outlined in the following sections.	n/a - Contextual/Descriptive							
B	6	6.1	6.1.1	-	6.1.1 Introduction	364	The EAC Application/EIS will introduce the economic effects assessment and describe the identified VCs.	2	B	6	6.1	6.1.1	-	-	6.1-1
B	6	6.1	6.1.2	-	6.1.2 Regulatory/Policy Setting	365	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to economic VCs.	2	B	6	6.1	6.1.2	-	-	6.1-1
B	6	6.1	6.1.3	-	6.1.3 Assessment Methodology	n/a	n/a	2	B	6	6.1				6.1-1
B	6	6.1	6.1.3	6.1.3.1	6.1.3.1 Valued Component Selection and Rationale	366	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to economic effects.	2	B	6	6.1	6.1.3	6.1.3.1	-	6.1-3
B	6	6.1	6.1.3	6.1.3.2	6.1.3.2 Assessment Boundaries	367	The spatial boundary for the economic assessment on identified VCs will include an LSA and a RSA.	2	B	6	6.1	6.1.3	6.1.3.2	6.1.3.2.1	6.1-4

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B	6	6.1	6.1.3	6.1.3.2	6.1.3.2 Assessment Boundaries	367a	The LSA for the economic VCs is the area within which the Proposed Project effects will be assessed. These will include the areas and communities that will provide the majority of the labour force, and goods and services needed to construct and operate the aggregate mine. The RSA for the socioeconomic VCs is the area within which projects and activities, the residual effects of which may combine with residual effects of the Proposed Project to result in cumulative effects. The local and regional study areas for each VC are outlined in Table 7.			n/a - Contextual/Descriptive					
B	6	6.1	6.1.3	6.1.3.2	6.1.3.2 Assessment Boundaries	368	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	6	6.1	6.1.3	6.1.3.2	6.1.3.2.2	6.1-5
B	6	6.1	6.1.3	6.1.3.2	6.1.3.2 Assessment Boundaries	369	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	6	6.1	6.1.3	6.1.3.2	6.1.3.2.3 6.1.3.2.4	6.1-6
B	6	6.1	6.1.3	6.1.3.3	6.1.3.3 Assessment Methods	370	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	6	6.1	6.1.3	6.1.3.3	-	6.1-7
B	6	6.1	6.1.3	6.1.3.3	6.1.3.3 Assessment Methods	370a	The assessment will describe the following baseline and forecast conditions for the following economic VCs: - LSA labour force by industry and occupation ; - Unemployment rates, demographic characteristics; - Median income level; - Education and skill base; - Local and regional government expenditure; - Local and regional government revenues (including provincial revenues); - Regional and local economic base; - Project relevant regional and local supplier base including business and contracting profile, capability and capacity; - Land use zonation; and - Real estate features and values within local area of project site (i.e., McNab Creek strata properties).	2	B	6	6.1	6.1.3	6.1.3.3	-	6.1-7
B	6	6.1	6.1.4	-	6.1.4 Baseline Conditions	371	The economic baseline study will provide detailed information on the VCs and all sources of information will be listed.	2	B	6	6.1	6.1.4	-	-	6.1-14
B	6	6.1	6.1.4	-	6.1.4 Baseline Conditions	372	The baseline will be prepared using the following methods and approaches: - Review of secondary literature and information sources; - Informant interviews with key government and community representatives to further clarify and gather information on economic issues. Informants may include (but may not be limited to) government economic development officers, employment and training officers; business associations, chambers of commerce; Non-Government Organizations (NGOs) / community-based organizations and elected officials; and - Review of public and Aboriginal consultation input.	2	B	6	6.1	6.1.3	-	-	6.1-3
B	6	6.1	6.1.5	-	6.1.5 Determine Potential Effects	373	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on the economic VCs identified in Table 4. The assessment will identify and evaluate potential effects (i.e., potential adverse effects and potential benefits) of the Proposed Project on the socioeconomic valued components for construction, operations, and reclamation/closure). Effects will focus on the following:	2	B	6	6.1	6.1.5	6.1.5.1	-	6.1-41
B	6	6.1	6.1.5	-	6.1.5 Determine Potential Effects	374	<u>Labour Market</u> - Direct, indirect and induced employment opportunities associated with the Proposed Project; and - Comparison of the Proposed Project's direct requirements for labour relative to the expected availability and type of skills of persons in the LSA to determine effect on the local labour market.	2	B	6	6.1	6.1.5	6.1.5.2	6.1.5.2.1	6.1-44

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B	6	6.1	6.1.5	-	6.1.5 Determine Potential Effects	375	Regional Economic Development - Direct and indirect non-labour contracting opportunities associated with the Proposed Project; and - Potential for local uptake of Project's direct non-labour contracting opportunities through comparison of Project contracting requirements with local business and contracting profile, capability and capacity.	2	B	6	6.1	6.1.5	6.1.5.2	6.1.5.2.2	6.1-49
B	6	6.1	6.1.5	-	6.1.5 Determine Potential Effects	376	Local Government Revenue - The expected incremental expenditures of local governments as a result of Project construction and operation; and - The estimated local government revenues resulting from Project construction and operations.	2	B	6	6.1	6.1.5	6.1.5.2	6.1.5.2.3	6.1-51
B	6	6.1	6.1.5	-	6.1.5 Determine Potential Effects	377	Real Estate - Change in value of real estate as a result of change in land use and Project activity and infrastructure on Project site.	2	B	6	6.1	6.1.5	6.1.5.2	6.1.5.2.4	6.1-52
B	6	6.1	6.1.5	-	6.1.5 Determine Potential Effects	378	A methodology section will be included in each VC effects assessment and will describe the specific methods and standards used to collect baseline information and data, predict change to economic components and factors and assess the residual effects of the Proposed Project.	2	B	6	6.1	6.1.3	6.1.3.3	-	6.1-7
B	6	6.1	6.1.5	-	6.1.5 Determine Potential Effects	379	There will be a description of the predictive modeling used for the economics assessment.	2	B	6	6.1	6.1.3	-	-	6.1-3
B	6	6.1	6.1.6	-	6.1.6 Mitigation	380	The EAC Application/EIS will identify mitigation measures and management strategies to avoid, limit or otherwise mitigate potential economic effects of the Proposed Project on socioeconomic VCs.	2	B	6	6.1	6.1.5	6.1.5.3	-	6.1-56
B	6	6.1	6.1.6	-	6.1.6 Mitigation	381	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures and management strategies.	2	B	6	6.1	6.1.5	6.1.5.3	-	6.1-56
B	6	6.1	6.1.6	-	6.1.6 Mitigation	382	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to economic and social values based on proposed mitigation measures.	2	B	6	6.1	6.1.5	6.1.5.3	-	6.1-56
B	6	6.1	6.1.7	-	6.1.7 Residual and Cumulative Effects Assessment	383	Identify potential residual economic effects of the proposed Project, and the related consequences, after mitigation measures and management strategies have been applied.	2	B	6	6.1	6.1.5	6.1.5.4	-	6.1-59
B	6	6.1	6.1.7	-	6.1.7 Residual and Cumulative Effects Assessment	384	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document.	2	B	6	6.1	6.1.5	6.1.5.5	-	6.1-61
B	6	6.1	6.1.7	-	6.1.7 Residual and Cumulative Effects Assessment	385	For any residual effects, assess potential cumulative effects of the Proposed Project and provide conclusion on potential cumulative impacts for each economic VC.	2	B	6	6.1	6.1.5	6.1.5.7	-	6.1-63
B	6	6.1	6.1.8	-	6.1.8 Conclusions	386	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on the socio-economic component.	2	B	6	6.1	6.1.6	-	-	6.1-69
6.2 SUMMARY OF ECONOMIC EFFECTS															
B	6	6.2	-	-	6.2 Summary of Economic Effects	387	The EAC Application/EIS will provide a summary table of potential residual economic effects of the Proposed Project as outlined in Table 8. The Summary of predicted residual effects will include both direct and cumulative effects.	2	B	6	6.2	-	-	-	6.2-1
7.0 ASSESSMENT OF POTENTIAL SOCIAL EFFECTS															

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X		
B	7	-	-	-	7. Assessment of Potential Social Effects	387a	The EAC Application/EIS will provide an assessment of potential project-related effects on each social VC identified. This assessment will include, all phases of the Proposed Project lifecycle (including the construction, operations, reclamation, and closure phases of the Proposed Project) within the identified spatial and temporal assessment boundaries. The following social effect categories will be assessed as part of the EAC Application/EIS: - Social Conditions, including Housing and Accommodation and Emergency Services; - Marine Transportation; - Non-Traditional Land and Resource Use, including Forestry, Harvesting of fish and wildlife, recreation and tourism, and mineral and aggregate development; and - Visual Resources. The technical discipline specific methodology and assessment criteria to assess each effect are outlined in the following sections.									n/a - Contextual/Descriptive
7.1 SOCIAL CONDITIONS																
B	7	7.1	7.1.1	-	7.1.1 Introduction	388	The EAC Application/EIS will introduce the social effects assessment and describe the identified VCs.	2	B	7	7.1	7.1.1 7.1.3	7.1.3.1	-		7.1-1 7.1-4
B	7	7.1	7.1.2	-	7.1.2 Regulatory/Policy Setting	389	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to social condition VCs.	2	B	7	7.1	7.1.2	-	-		7.1-1
B	7	7.1	7.1.3	-	7.1.3 Assessment Methodology	n/a	n/a	2	B	7	7.1					7.1-1
B	7	7.1	7.1.3	7.1.3.1	7.1.3.1 Valued Component Selection and Rationale	390	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to social effects.	2	B	7	7.1	7.1.3	7.1.3.1	-		7.1-4
B	7	7.1	7.1.3	7.1.3.2	7.1.3.2 Assessment Boundaries	391	The spatial boundary for the social assessment on identified VCs will include a LSA and a RSA.	2	B	7	7.1	7.1.3	7.1.3.2	7.1.3.2.1		7.1-5
B	7	7.1	7.1.3	7.1.3.2	7.1.3.2 Assessment Boundaries	391a	The LSA for the social condition VCs is the area within which the Proposed Project effects will be assessed. This will include areas/communities most likely to experience demands on housing and accommodation, and emergency services due to temporary in-migration of a construction workforce and direct project activities. The RSA for the social VCs is the area within which projects and activities, the residual effects of which may combine with residual effects of the Proposed Project to result in cumulative effects. The local and regional study areas for each VC are outlined in Table 9.									n/a - Contextual/Descriptive
B	7	7.1	7.1.3	7.1.3.2	7.1.3.2 Assessment Boundaries	392	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	7	7.1	7.1.3	7.1.3.2	7.1.3.2.2		7.1-6
B	7	7.1	7.1.3	7.1.3.2	7.1.3.2 Assessment Boundaries	393	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	7	7.1	7.1.3	7.1.3.2	7.1.3.2.3 7.1.3.2.4		7.1-6
B	7	7.1	7.1.3	7.1.3.3	7.1.3.3 Assessment Methods	394	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	7	7.1	7.1.3	7.1.3.3	-		7.1-6

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B	7	7.1	7.1.3	7.1.3.3	7.1.3.3 Assessment Methods	394a	The assessment will describe the following baseline and forecast conditions for the following social VCs: - Occupancy and vacancy rates; - Housing costs; - Accommodation construction activity; and - Housing development plans. - Emergency services facilities; - Capacity/capacity utilization; and - Development Plans.	2	B	7	7.1	7.1.3	7.1.3.3	-	7.1-6
B	7	7.1	7.1.4	-	7.1.4 Baseline Conditions	395	The social conditions baseline study will provide detailed information on the VCs and all sources of information will be listed.	2	B	7	7.1	7.1.4	-	-	7.1-12
B	7	7.1	7.1.4	-	7.1.4 Baseline Conditions	396	Review of secondary literature and information sources including but not limited to: - Statistics Canada and BC Stats data (community profiles, aboriginal population profiles and economic reports, etc.); - Credit union and bank research reports; and - Regional/local government economic planning documents and bylaws	2	B	7	7.1	7.1.4	-	-	7.1-12
B	7	7.1	7.1.4	-	7.1.4 Baseline Conditions	397	Informant interviews with key government and community representatives to further clarify and gather information on social issues. Informants may include (but may not be limited to) government economic development officers, employment and training officers; business associations, chambers of commerce; Non-Government Organizations (NGOs) / community-based organizations and elected officials; and	2	B	7	7.1	7.1.4	-	-	7.1-12
B	7	7.1	7.1.4	-	7.1.4 Baseline Conditions	398	Review of public and Aboriginal consultation input.	2	B	7	7.1	7.1.3	-	-	7.1-4
B	7	7.1	7.1.5	-	7.1.5 Determine Potential Effects	399	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on the economic VCs identified in Table 4. The assessment will identify and evaluate potential effects (i.e., potential adverse effects and potential benefits) of the Proposed Project on the social VCs for construction, operations, and reclamation/closure). Effects will focus on the following:	2	B	7	7.1	7.1.5	7.1.5.1	-	7.1-23
B	7	7.1	7.1.5	-	7.1.5 Determine Potential Effects	400	<u>Housing and Accommodation</u> - Changes in demand for temporary accommodation during construction as a result of Project construction workforce requirements; and - Project plans to address construction worker accommodation.	2	B	7	7.1	7.1.5	7.1.5.2	7.1.5.2.1	7.1-25
B	7	7.1	7.1.5	-	7.1.5 Determine Potential Effects	401	<u>Emergency Services</u> - Project effects on local population and demographics and resultant effects on emergency services; and - Project demand for and provision of emergency services.	2	B	7	7.1	7.1.5	7.1.5.2	7.1.5.2.2	7.1-26
B	7	7.1	7.1.5	-	7.1.5 Determine Potential Effects	402	A methodology section will be included in each VC effects assessment and will describe the specific methods and standards used to collect baseline information and data, predict change to socioeconomic components and factors and assess the residual effects of the Proposed Project.	2	B	7	7.1	7.1.3	7.1.3.3	-	7.1-6
B	7	7.1	7.1.5	-	7.1.5 Determine Potential Effects	403	There will be a description of the predictive modeling used for the social assessment.	2	B	7	7.1	7.1.3	-	-	7.1-4
B	7	7.1	7.1.6	-	7.1.6 Mitigation	404	The EAC Application/EIS will identify mitigation measures and management strategies to avoid, limit or otherwise mitigate potential social effects of the Proposed Project. In addition, the EAC Application/EIS will discuss:	2	B	7	7.1	7.1.5	7.1.5.3	-	7.1-26
B	7	7.1	7.1.6	-	7.1.6 Mitigation	405	The effectiveness and limitations of identified mitigation measures and management strategies; and	2	B	7	7.1	7.1.5	7.1.5.3	-	7.1-26

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	7	7.1	7.1.6	-	7.1.6 Mitigation	406	The commitments that the Proponent is making with respect to social values based on proposed mitigation measures.	2	B	7	7.1	7.1.5	7.1.5.3	-	7.1-26
B	7	7.1	7.1.7	-	7.1.7 Residual and Cumulative Effects Assessment	407	Identify potential residual social effects of the proposed Project, and the related consequences, after mitigation measures and management strategies have been applied;	2	B	7	7.1	7.1.5	7.1.5.4	-	7.1-29
B	7	7.1	7.1.7	-	7.1.7 Residual and Cumulative Effects Assessment	408	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	7	7.1	7.1.5	7.1.5.5	-	7.1-33
B	7	7.1	7.1.7	-	7.1.7 Residual and Cumulative Effects Assessment	409	For any residual effects, assess potential cumulative effects of the Proposed Project and provide conclusion on potential cumulative impacts for each social VC.	2	B	7	7.1	7.1.5	7.1.5.7	-	7.1-35
B	7	7.1	7.1.8	-	7.1.8 Conclusions	410	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on the social conditions.	2	B	7	7.1	7.1.6	-	-	7.1-35
7.2 MARINE TRANSPORTATION															
B	7	7.2	7.2.1	-	7.2.1 Introduction	411	The EAC Application/EIS will introduce the contents of the chapter on marine transportation and describe the identified VCs.	2	B	7	7.2	7.2.1	-	-	7.2-1
B	7	7.2	7.2.2	-	7.2.2 Regulatory/Policy Setting	412	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to marine transportation VCs.	2	B	7	7.2	7.2.2	-	-	7.2-2
B	7	7.2	7.2.3	-	7.2.3 Assessment Methodology	n/a	n/a	2	B	7	7.2				7.2-1
B	7	7.2	7.2.3	7.2.3.1	7.2.3.1 Valued Component Selection and Rationale	413	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to marine transportation.	2	B	7	7.2	7.2.3	7.2.3.1	-	7.2-4
B	7	7.2	7.2.3	7.2.3.2	7.2.3.2 Assessment Boundaries	414	The spatial boundary for marine transportation assessment on identified VCs will include a LSA and a RSA.	2	B	7	7.2	7.2.3	7.2.3.2	7.2.3.2.1	7.2-5
B	7	7.2	7.2.3	7.2.3.2	7.2.3.2 Assessment Boundaries	414a	The LSA will encompass the marine-based components of the Proposed Project, including water taxi routes and the barge shipping route from the Proposed Project site through Howe Sound, Ramillies Channel, Thornbrough Channel and Queen Charlotte Channel to south of Passage Island. The RSA will be the same as the LSA.								n/a - Contextual/Descriptive
B	7	7.2	7.2.3	7.2.3.2	7.2.3.2 Assessment Boundaries	415	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	7	7.2	7.2.3	7.2.3.2	7.2.3.2.2	7.2-6
B	7	7.2	7.2.3	7.2.3.2	7.2.3.2 Assessment Boundaries	416	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	7	7.2	7.2.3	7.2.3.2	7.2.3.2.3 7.2.3.2.4	7.2-6
B	7	7.2	7.2.3	7.2.3.3	7.2.3.3 Assessment Methods	417	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	7	7.2	7.2.3	7.2.3.3	-	7.2-6

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B	7	7.2	7.2.3	7.2.3.3	7.2.3.3 Assessment Methods	418	The assessment approach for marine transportation will include the following: - Provide an overview of background information, environmental setting and characteristics for the marine transportation VC; - Summarize existing vessel use (commercial and recreational) within navigable water bodies; - Describe the use of barges during the construction and operational phases of the Proposed Project; - Describe the marine loading facility and any other structures in marine waters; - Identify and evaluate potential effects of proposed construction, operation, reclamation and closure activities and associated structures on marine transportation VCs; and - Identify appropriate mitigation and environmental management measures to avoid and limit potential effects of the Proposed Project on marine transportation.	2	B	7	7.2	7.2.3	7.2.3.3	-	7.2-6
B	7	7.2	7.2.4	-	7.2.4 Baseline Conditions	419	The EAC Application/EIS will describe available marine transportation baseline information for the LSA and the RSA.	2	B	7	7.2	7.2.4	-	-	7.2-13
B	7	7.2	7.2.4	-	7.2.4 Baseline Conditions	420	The baseline assessment will provide an overview of background information, environmental setting and characteristics for each navigation VC.	2	B	7	7.2	7.2.4	-	-	7.2-13
B	7	7.2	7.2.4	-	7.2.4 Baseline Conditions	421	The baseline assessment will include: - Physical characteristics of water bodies in the LSA and the RSA; and - Known navigational use of each water body, including navigation use by Aboriginal groups (where known), and current shipping numbers, recreational and commercial vessel traffic (fishing, ferries, barges, cargo ships etc.).	2	B	7	7.2	7.2.4	-	-	7.2-13
B	7	7.2	7.2.5	-	7.2.5 Determine Potential Effects	422	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on marine transportation VCs identified in Table 4.	2	B	7	7.2	7.2.5	7.2.5.1	-	7.2-26
B	7	7.2	7.2.5	-	7.2.5 Determine Potential Effects	423	The assessment will identify and evaluate potential effects of proposed construction, operation, reclamation and closure activities and associated structures on marine transportation, including effects on the public's right to navigate and use of waterways.	2	B	7	7.2	7.2.5	7.2.5.1	-	7.2-26
B	7	7.2	7.2.5	-	7.2.5 Determine Potential Effects	424	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	7	7.2	7.2.4	7.2.4.1	-	7.2-13
B	7	7.2	7.2.6	-	7.2.6 Mitigation	425	The EAC Application/EIS will identify mitigation measures and management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on marine transportation.	2	B	7	7.2	7.2.5	7.2.5.3	-	7.2-41
B	7	7.2	7.2.6	-	7.2.6 Mitigation	426	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures and management strategies.	2	B	7	7.2	7.2.5	7.2.5.3	-	7.2-41
B	7	7.2	7.2.6	-	7.2.6 Mitigation	427	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to navigation on proposed mitigation measures.	2	B	7	7.2	7.2.5	7.2.5.3	-	7.2-41
B	7	7.2	7.2.7	-	7.2.7 Residual and Cumulative Effects Assessment	428	Identification potential residual effects of proposed construction, operation, reclamation and closure activities and structures on marine transportation, and the related consequences, after mitigation measures and management strategies have been applied;	2	B	7	7.2	7.2.5	7.2.5.4	-	7.2-45

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B	7	7.2	7.2.7	-	7.2.7 Residual and Cumulative Effects Assessment	429	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	7	7.2	7.2.5	7.2.5.5	-	7.2-48
B	7	7.2	7.2.7	-	7.2.7 Residual and Cumulative Effects Assessment	430	For any residual effects, assess potential cumulative effects of the Proposed Project and provide conclusion on potential cumulative impacts for each marine transportation VC.	2	B	7	7.2	7.2.5	7.2.5.7	-	7.2-51
B	7	7.2	7.2.8	-	7.2.8 Conclusions	431	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on marine transportation VCs.	2	B	7	7.2	7.2.6	-	-	7.2-55
7.3 NON-TRADITIONAL LAND AND RESOURCE USE															
B	7	7.3	7.3.1	-	7.3.1 Introduction	432	The EAC Application/EIS will introduce the contents of the chapter on land resource uses and describe the identified VCs.	2	B	7	7.3	7.3.1 7.3.3	7.3.3.1	-	7.3-1 7.3-4
B	7	7.3	7.3.2	-	7.3.2 Regulatory/Policy Setting	433	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to land resource use VCs.	2	B	7	7.3	7.3.2	-	-	7.3-1
B	7	7.3	7.3.3	-	7.3.3 Assessment Methodology	n/a	n/a	2	B	7	7.3				7.3-1
B	7	7.3	7.3.3	7.3.3.1	7.3.3.1 Valued Component Selection and Rationale	434	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to land and resource use.	2	B	7	7.3	7.3.3	7.3.3.1	-	7.3-4
B	7	7.3	7.3.3	7.3.3.2	7.3.3.2 Assessment Boundaries	435	The spatial boundary for land and resource use assessment VCs will include a LSA and a RSA.	2	B	7	7.3	7.3.3	7.3.3.2	7.3.3.2.1	7.3-5
B	7	7.3	7.3.3	7.3.3.2	7.3.3.2 Assessment Boundaries	435a	The LSA includes the Proposed Project footprint and the terrestrial land and marine areas within 1.5 km of the boundary of the Proposed Project footprint. The RSA includes the areas consistent with the fisheries and terrestrial wildlife RSA including the eastern portions of Howe Sound within the Sunshine Coast Regional District, Islands Trust areas of Gambier and Anvil Island, southern portions of the Squamish Regional District and north-western areas within the Metro Vancouver Regional District.	n/a - Contextual/Descriptive							
B	7	7.3	7.3.3	7.3.3.2	7.3.3.2 Assessment Boundaries	436	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	7	7.3	7.3.3	7.3.3.2	7.3.3.2.2	7.3-6
B	7	7.3	7.3.3	7.3.3.2	7.3.3.2 Assessment Boundaries	437	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	7	7.3	7.3.3	7.3.3.2	7.3.3.2.3 7.3.3.2.4	7.3-6
B	7	7.3	7.3.3	7.3.3.3	7.3.3.3 Assessment Methods	438	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	7	7.3	7.3.3	7.3.3.3	-	7.3-7

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	7	7.3	7.3.3	7.3.3.3	7.3.3.3 Assessment Methods	439	The scope of the land and resource use assessment will include the following: - Describe current land and resources use in Crown land areas having tenure or other registered interest within the LSA and RSA (i.e., traplines, guide-outfitting areas); - Describe current land and resources use in non-tenured land within the LSA and RSA, including recreational hunting and fishing; - Provide an overview of background information, environmental setting and characteristics for each land and resource use VC, including information available in Land and Resource Management Plans (LRMPs), Fisheries Management Plans, Conservation areas and ecological reserves; - Identify and evaluate potential adverse effects of the Proposed Project on land and resource use components; and - Identify mitigation measures and access and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on land and resource use and patterns of human activity.	2	B	7	7.3	7.3.4	-	-	7.3-13
B	7	7.3	7.3.3	7.3.3.3	7.3.3.3 Assessment Methods	439a	The non-traditional land and resource use assessment will conform to relevant requirements of legislation and guidelines including: - Land Act; - Ministry of Lands, Parks and Housing Act; - Forest and Range Practices Act; - The Federal Policy on Wetland Conservation; - Land Use Operational Adventure Tourism Policy; - Wildlife Act; - Migratory Birds Conventions Act; - Species at Risk Act; - Fisheries Act; - Mines Act; and - Mineral Tenure Act.	n/a - Guidance							
B	7	7.3	7.3.4	-	7.3.4 Baseline Conditions	440	The baseline assessment will provide an overview of background information, environmental setting, current use, quality and characteristics for each land and resource use VC. The baseline will be characterized using the following methods and approaches:	2	B	7	7.3	7.3.4	-	-	7.3-13
B	7	7.3	7.3.4	-	7.3.4 Baseline Conditions	441	Review of relevant documents and mapping sources, such as Tourism Opportunity Strategies, economic development and tourism plans, road and recreational atlases, trapping records, fisheries zones and commercial catch, recreational fishery areas, protected and ecological sensitive areas and parks, forest harvesting plans and government databases;	2	B	7	7.3	7.3.4	-	-	7.3-13
B	7	7.3	7.3.4	-	7.3.4 Baseline Conditions	442	Mapping of data from local governments, regional districts, and provincial and other sources;	2	B	7	7.3	7.3.4	-	-	7.3-13
B	7	7.3	7.3.4	-	7.3.4 Baseline Conditions	443	Site visits and photo inventory of identified recreational and other land and resource use sites;	2	B	7	7.3	7.3.3	7.3.3.3	7.3.3.3.1	7.3-8
B	7	7.3	7.3.4	-	7.3.4 Baseline Conditions	444	Interviews with land and resources users such as trappers, guide-outfitters, mineral tenure holders, fishers, salmon and fishery stewards and representatives of stakeholder groups, as required; and	2	B	7	7.3	7.3.3	7.3.3.3	7.3.3.3.1	7.3-8
B	7	7.3	7.3.4	-	7.3.4 Baseline Conditions	445	Interviews with government and agency representatives, as required.	2	B	7	7.3	7.3.3	7.3.3.3	7.3.3.3.1	7.3-8
B	7	7.3	7.3.5	-	7.3.5 Determine Potential Effects	446	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on the land resource VCs identified in Table 4.	2	B	7	7.3	7.3.5	7.3.5.1	-	7.3-31

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	7	7.3	7.3.5	-	7.3.5 Determine Potential Effects	447	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	7	7.3	7.3.4	7.3.4.2	-	7.3-13
B	7	7.3	7.3.5	-	7.3.5 Determine Potential Effects	448	The assessment will identify and evaluate potential effects on the Proposed Project VCs considering: - Potential changes in land and resource use and access related to forestry, minerals and aggregates development, trapping, guide-outfitting, recreation and tourism; - Potential changes in forestry, minerals and aggregates development, trapping and guide-outfitting activities and levels; - Availability of harvested species based on the results of the assessment of the potential effects of the Proposed Project on fish and fish habitat and wildlife resources; - Changes in features of and access to recreation and tourism infrastructure; - Potential encroachment of Proposed Project infrastructure on the boundaries of parks and protected areas and tenured areas; and - Potential changes to established or typical patterns of recreation and tourism activities and levels.	2	B	7	7.3	7.3.5	7.3.5.2	-	7.3-39
B	7	7.3	7.3.6	-	7.3.6 Mitigation	449	The EAC Application/EIS will identify mitigation measures and environmental, recreational and access management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on land and resource use VCs.	2	B	7	7.3	7.3.5	7.3.5.3	-	7.3-40
B	7	7.3	7.3.6	-	7.3.6 Mitigation	450	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures, environmental, access and recreational management strategies.	2	B	7	7.3	7.3.5	7.3.5.3	-	7.3-40
B	7	7.3	7.3.6	-	7.3.6 Mitigation	451	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to land and resource use based on proposed mitigation measures.	2	B	7	7.3	7.3.5	7.3.5.3	-	7.3-40
B	7	7.3	7.3.7	-	7.3.7 Residual and Cumulative Effects Assessment	452	Identification of potential residual effects of the Proposed Project on land and resource use, after mitigation measures and management strategies have been applied;	2	B	7	7.3	7.3.5	7.3.5.4	-	7.3-42
B	7	7.3	7.3.7	-	7.3.7 Residual and Cumulative Effects Assessment	453	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	7	7.3	7.3.5	7.3.5.5	-	7.3-47
B	7	7.3	7.3.7	-	7.3.7 Residual and Cumulative Effects Assessment	454	For any residual effects, assess potential cumulative effects of the Proposed Project and provide conclusion on potential cumulative impacts for each land and resource use VC.	2	B	7	7.3	7.3.5	7.3.5.7	-	7.3-49
B	7	7.3	7.3.8	-	7.3.8 Conclusions	455	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on land and resource use.	2	B	7	7.3	7.3.6	-	-	7.3-58
7.4 VISUAL RESOURCES															
B	7	7.4	7.4.1	-	7.4.1 Introduction	456	The EAC Application/EIS will introduce the contents of the chapter on visual resources and describe the identified VCs. This chapter will present an assessment of potential impacts on visual quality as result of the Proposed Project.	2	B	7	7.4	7.4.1	-	-	7.4-1
B	7	7.4	7.4.2	-	7.4.2 Regulatory/Policy Setting	457	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to visual resource VC.	2	B	7	7.4	7.4.2	-	-	7.4-1

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B	7	7.4	7.4.3	-	7.4.3 Assessment Methodology	n/a	n/a	2	B	7	7.4				7.4-1
B	7	7.4	7.4.3	7.4.3.1	7.4.3.1 Valued Component Selection and Rationale	458	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VC outlined in Table 4 related to visual resources.	2	B	7	7.4	7.4.3	7.4.3.1	-	7.4-3
B	7	7.4	7.4.3	7.4.3.2	7.4.3.2 Assessment Boundaries	459	The spatial boundary for the visual quality assessment will include an LSA and a RSA.	2	B	7	7.4	7.4.3	7.4.3.2	7.4.3.2.1	7.4-3
B	7	7.4	7.4.3	7.4.3.2	7.4.3.2 Assessment Boundaries	459a	The LSA will extend to include sensitive viewpoints from the site foreshore and McNab Creek strata properties, within a 8 km buffer from the Proposed Project. The RSA will encompass other sensitive viewpoints from the surrounding area, within a 16 km buffer from the Proposed Project. Attention will be given to preserving the visual quality of the Site from surrounding lands and from watercraft. The viewpoints selected should encompass the full width of the visible landscape unit.	n/a - Contextual/Descriptive							
B	7	7.4	7.4.3	7.4.3.2	7.4.3.2 Assessment Boundaries	460	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	7	7.4	7.4.3	7.4.3.2	7.4.3.2.2	7.4-4
B	7	7.4	7.4.3	7.4.3.2	7.4.3.2 Assessment Boundaries	461	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	7	7.4	7.4.3	7.4.3.2	7.4.3.2.3 7.4.3.2.4	7.4-4
B	7	7.4	7.4.3	7.4.3.3	7.4.3.3 Assessment Methods	462	The EAC Application/EIS will outline method used to assess potential effects of the Proposed Project on the identified VC.	2	B	7	7.4	7.4.3	7.4.3.3	-	7.4-5
B	7	7.4	7.4.3	7.4.3.3	7.4.3.3 Assessment Methods	463	Components of the <i>BC Guide to Visual Impact Assessment</i> and the <i>Bureau of Land Management's (BLM) Visual Resource Management (VRM)</i> system will form the framework of the assessment. Some elements will be modified to accommodate the nature and extent of the Proposed Project	2	B	7	7.4	7.4.3	7.4.3.3	-	7.4-5
B	7	7.4	7.4.3	7.4.3.3	7.4.3.3 Assessment Methods	464	The assessment approach for the visual resource effects assessment will include the following: - Provide an overview of background information and environmental setting; - Provide a description of visual resources and viewpoints within the study areas; - Identify and evaluate potential effects of the Proposed Project on visual resources; - Assess the change in the character and quality of the landscape and visual resources that are expected to result from the Proposed Project, including an assessment of potential project-related light effects; and - Identify mitigation measures and management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on visual resources.	2	B	7	7.4	7.4.3	7.4.3.3	-	7.4-5
B	7	7.4	7.4.3	7.4.3.3	7.4.3.3 Assessment Methods	464a	The following legislation, standards, protocols and guides will be reviewed as part of the assessment: - United States Department of the Interior (USDI) Bureau of Land Management's Visual Resource Management Manual (USDI 1986); - BC Ministry of Forest's Visual Landscape Inventory: Procedures and Standards Manual (RIC 1997); and - Ministry of Forests, Lands and Natural Resource Operations' Visual Impact Assessment Guidebook (MFLNRO 2001).	n/a - Guidance							
B	7	7.4	7.4.4	-	7.4.4 Baseline Conditions	465	The baseline assessment will provide an overview of background information, environmental setting and characteristics for the visual resource VC. All sources of information will be listed.	2	B	7	7.4	7.4.4	-	-	7.4-18

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	7	7.4	7.4.4	-	7.4.4 Baseline Conditions	466	The baseline will be characterised using the following methods and approaches: - A desktop review of existing information including available local plans, policy documents, aerial photographs, maps, and topographical surveys; - The selection of key viewpoints based on a combination of sensitivity, public input, and potential impact. Viewpoints to be considered include, but are not limited to, the following: - Ekins Point: yacht clubs (Burrard Yacht Club, Burrard Civil, Thunderbird) (Lat 49.5325°, Long 123.3875°, Elevation ~3 m, heading 4°); - Ekins Point: Children's Camp (Camp Latona) (Lat 49.5280°, Long 123.3966°, Elevation ~3 m, heading 4°); - Douglas Bay/Gambier Island (Lat: 49.5208°, Long 123.3458°, Elevation: ~3 m, heading 326°); - Howe Sound (Lat: 49.5410°, Long: 123.371°, Elevation: ~3 m, heading -34°); - McNab Foreshore (Lat: 49.5531°, Long: 123.3711°, Elevation ~3 m, heading 4°); - Lions Bay (Lat: 49.4587°, Long 123.2387°, Elevation ~30 m, heading -42°); and - Britannia Beach (Lat:49.6115°, Long 123.2190°, Elevation ~3 m, heading 220°) - A field visit and photo survey conducted in areas identified as sensitive in order to verify classifications and to take photos. The timing of the studies should represent the season of highest use or sensitivity. - Existing lighting report material will be reviewed and baseline light sources within the visual quality LSA will be inventoried and described.	2	B	7	7.4	7.4.4	-	-	7.4-18
B	7	7.4	7.4.5	-	7.4.5 Determine Potential Effects	467	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on visual resource VC identified in Table 4.	2	B	7	7.4	7.4.5	7.4.5.1	-	7.4-22
B	7	7.4	7.4.5	-	7.4.5 Determine Potential Effects	468	The assessment will identify and evaluate potential effects of the Proposed Project on regional visual aesthetics. The assessment will describe changes in the character and quality of visual resources and assess the magnitude of change that is expected to result from the Proposed Project.	2	B	7	7.4	7.4.5	7.4.5.2	-	7.4-27
B	7	7.4	7.4.5	-	7.4.5 Determine Potential Effects	469	The assessment will take into account the following considerations: - Create perspective renderings of the Proposed Project, from a 3D landscape model created from available data for the study area. From the key viewpoints, measure the scale and contrast of the Proposed Project. The overall contrast from individual viewpoints will be evaluated to determine the overall residual effects on visual quality. - The potential effects of construction and operation of the Proposed Project using criteria based on the USDI Bureau of Land Management's Visual Resource Management Manual) and incorporating site visits and perspective renderings.	2	B	7	7.4	7.4.5	7.4.5.2	-	7.4-27
B	7	7.4	7.4.5	-	7.4.5 Determine Potential Effects	470	Project-related light sources (i.e., layout design and luminaire specifications) for project construction, operation, closure and reclamation will be considered to determine changes in luminance. Potential effects on sensitive Points of Reception (POR) will be characterized using guidance from professional lighting standards and presented using simulated images. Potential effects of other similar facilities will be considered in assessing the magnitude and extent of potential effects of project-related light sources.	2	B	7	7.4	7.4.5	7.4.5.2	-	7.4-27
B	7	7.4	7.4.6	-	7.4.6 Mitigation	471	The assessment will identify mitigation measures and management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on the visual resource VC.	2	B	7	7.4	7.4.5	7.4.5.3	-	7.4-32

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B	7	7.4	7.4.6	-	7.4.6 Mitigation	472	Measures to avoid or reduce potential light effects on sensitive PORs (e.g., containing light within its intended target area, turning off non-essential lighting that is not required for safety and security, and selecting appropriate mounting heights and physical locations) will be proposed and described based on guidance from the professional lighting standards-	2	B	7	7.4	7.4.5	7.4.5.3	-	7.4-32
B	7	7.4	7.4.6	-	7.4.6 Mitigation	473	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures, environmental management, and compensation strategies.	2	B	7	7.4	7.4.5	7.4.5.3	-	7.4-32
B	7	7.4	7.4.6	-	7.4.6 Mitigation	474	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to visual quality based on proposed mitigation measures.	2	B	7	7.4	7.4.5	7.4.5.3	-	7.4-32
B	7	7.4	7.4.7	-	7.4.7 Residual and Cumulative Effects Assessment	475	Identify potential residual effects of the Proposed Project on visual quality, and the related consequences, after mitigation measures and management strategies have been applied;	2	B	7	7.4	7.4.5	7.4.5.4	-	7.4-37
B	7	7.4	7.4.7	-	7.4.7 Residual and Cumulative Effects Assessment	476	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	7	7.4	7.4.5	7.4.5.5	-	7.4-39
B	7	7.4	7.4.7	-	7.4.7 Residual and Cumulative Effects Assessment	477	For any residual effects, assess potential cumulative effects of the Proposed Project and provide conclusion on potential cumulative impacts for the visual resource VC.	2	B	7	7.4	7.4.5	7.4.5.7	-	7.4-42
B	7	7.4	7.4.8	-	7.4.8 Conclusions	478	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on visual resource VCs.	2	B	7	7.4	7.4.6	-	-	7.4-54
7.5 SUMMARY OF SOCIAL EFFECTS															
B	7	7.5	-	-	7.5 Summary of Social Effects	479	The EAC Application/EIS will provide a summary table of potential residual social effects of the Proposed Project as outlined in Table 10. The Summary of predicted residual effects will include both direct and cumulative effects.	2	B	7	7.5	-	-	-	7.5-1
8.0 ASSESSMENT OF POTENTIAL HERITAGE EFFECTS															
8.1 HERITAGE RESOURCES															
B	8	-	-	-	8. Assessment of Potential Heritage Effects	479a	The EAC Application/EIS will provide an assessment of potential project-related effects on each heritage resource VC identified. This assessment will include, all phases of the Proposed Project lifecycle (including the construction, operational, reclamation and closure phases of the Proposed Project) within the identified spatial and temporal assessment boundaries. The following heritage resource effect categories will be assessed as part of the EAC Application/EIS: - Paleontological Resources; and - Archaeological Resources The technical discipline specific methodology and assessment criteria to assess each effect are outlined in the following sections.	n/a - Contextual/Descriptive							
B	8	8.1	8.1.1	-	8.1.1 Introduction	480	The EAC Application/EIS will introduce the contents of the chapter on heritage resources and describe the identified VCs. CEA Agency guidelines define heritage resources as "a human work or a place that gives evidence of human activity or has spiritual or cultural meaning, and that has historic value" (CEA Agency 1996). Heritage resources include both natural heritage and human heritage.	2	B	8	8.1	8.1.1	-	-	8.1-1
B	8	8.1	8.1.2	-	8.1.2 Regulatory/Policy Setting	481	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to heritage resource VCs.	2	B	8	8.1	8.1.2	-	-	8.1-2
B	8	8.1	8.1.3	-	8.1.3 Assessment Methodology	n/a	n/a	2	B	8	8.1				8.1-1
B	8	8.1	8.1.3	8.1.3.1	8.1.3.1 Valued Component Selection and Rationale	482	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to heritage resources.	2	B	8	8.1	8.1.3	8.1.3.1	-	8.1-3

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B	8	8.1	8.1.3	8.1.3.2	8.1.3.2 Assessment Boundaries	483	The spatial boundary for heritage resources on identified VCs will include a LSA and a RSA.	2	B	8	8.1	8.1.3	8.1.3.2	8.1.3.2.1	8.1-4
B	8	8.1	8.1.3	8.1.3.2	8.1.3.2 Assessment Boundaries	483a	The LSA will encompass lands (including the foreshore and intertidal areas) affected by the Proposed Project through direct footprint effects (i.e., for heritage resource VCs, this would include lands in which heritage resources may be adversely affected by the Proposed Project and associated components). The LSA should be large enough to include relevant protection buffers or development setbacks specific to heritage resource VCs. The RSA will encompass an area that allows assessment of effects that are applicable or are addressed on a larger geographic area (e.g., regional planning units). In the case of heritage resources VCs, this could apply to potential effects on heritage resources associated with the proposed barge shipping route (Figure 4). The heritage resource assessment will use other known sites in the RSA to assist with evaluating the significance of heritage sites that occur within the LSA. The significance evaluation contributes to the formulation of mitigation recommendations where Project effects on heritage resources are unavoidable.	n/a - Contextual/Descriptive							
B	8	8.1	8.1.3	8.1.3.2	8.1.3.2 Assessment Boundaries	484	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	8	8.1	8.1.3	8.1.3.2	8.1.3.2.2	8.1-5
B	8	8.1	8.1.3	8.1.3.2	8.1.3.2 Assessment Boundaries	485	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	8	8.1	8.1.3	8.1.3.2	8.1.3.2.3 8.1.3.2.4	8.1-6
B	8	8.1	8.1.3	8.1.3.3	8.1.3.3 Assessment Methods	486	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	8	8.1	8.1.3	8.1.3.3	-	8.1-6
B	8	8.1	8.1.3	8.1.3.3	8.1.3.3 Assessment Methods	487	The assessment approach for heritage resource will include the following: - Identify and describe heritage resources within the LSA; - Identify and describe paleontological, archaeological, and historical sites within the RSA, and specifically within the proposed barge route; - Review of background information, environmental setting and characteristics for each heritage resource VC; - Identify and evaluate potential effects the Proposed Project on heritage resources; and - Identify mitigation measures to avoid, limit or otherwise mitigate potential adverse effects of the Proposed Project to heritage resources subject to the Heritage Conservation Act.	2	B	8	8.1	8.1.3	8.1.3.3	-	8.1-6
B	8	8.1	8.1.3	8.1.3.3	8.1.3.3 Assessment Methods	488	The EAC Application/EIS will be prepared in accordance with Freedom of Information and Protection of Privacy legislation, specifically: "British Columbia's archaeological resources are protected under the Heritage Conservation Act. The Heritage Conservation Act and the Freedom of Information and Protection of Privacy Act provide for withholding detailed site location information from the public to prevent vandalism and other unauthorized alterations. To this end, information (including Applications) and posted on the BCEAO's electronic Project Information Centre (ePIC) or CEAA's Project Registry must not include specific site locations on maps. Sites plotted on maps at 1:250,000 scale are acceptable; 1:50,000 may be acceptable; while larger scales are not acceptable. Textual descriptions of sites must not include precise location descriptions or georeferences. The Proponent should work with their archaeologist to ensure such information remains confidential (BCEAO 2010)".	2	B	8	8.1	8.1.3	8.1.3.3	-	8.1-6

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	8	8.1	8.1.3	8.1.3.3	8.1.3.3 Assessment Methods	489	An Archeological Impact Assessment (AIA) report will be submitted to the Archaeology Branch before the EAC Application/EIS is submitted for formal review	2	B	8	8.1	8.1.3	8.1.3.3	-	8.1-6
B	8	8.1	8.1.4	-	8.1.4 Baseline Conditions	490	The baseline assessment will be conducted in accordance with the requirements of the Heritage Conservation Act (HCA). The baseline assessment will provide a review of background information, environmental setting and characteristics for each heritage resource VC.	2	B	8	8.1	8.1.4	-	-	8.1-13
B	8	8.1	8.1.4	-	8.1.4 Baseline Conditions	491	Moreover, the baseline will be characterised using the following methods and approaches: - Literature and map reviews; - Review of readily available archival documentation; - Heritage Resource Overview Assessment (HROA); - Heritage Resource Impact Assessment (HRIA); - Comparison of heritage information in LSA to RSA; and - Completion of Heritage Conservation Act (HCA) Section 14 Inspection Permit obligations.	2	B	8	8.1	8.1.4	-	-	8.1-13
B	8	8.1	8.1.5	-	8.1.5 Determine Potential Effects	492	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on the heritage resource VCs identified in Table 4.	2	B	8	8.1	8.1.5	8.1.5.1	-	8.1-18
B	8	8.1	8.1.5	-	8.1.5 Determine Potential Effects	493	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	8	8.1	8.1.4	8.1.4.1	-	8.1-13
B	8	8.1	8.1.5	-	8.1.5 Determine Potential Effects	494	The heritage assessment will include the following elements: - If heritage sites are identified as a result of the heritage resource assessment, the Application will outline mechanisms for avoidance or appropriate mitigation of potential adverse effects of the Proposed Project; - Permitting requirements for heritage site investigation or alteration (if required); - Heritage management measures may also include Proposed Project monitoring, if necessary, to address potential adverse impacts to heritage resources which could not be predicted or evaluated prior to construction; and - The EAC Application/EIS would also provide procedures to be followed in the event that heritage materials are unexpectedly encountered during Proposed Project development.	2	B	8	8.1	8.1.5	8.1.5.2	-	8.1-24
B	8	8.1	8.1.6	-	8.1.6 Mitigation	495	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on heritage resource VCs.	2	B	8	8.1	8.1.5	8.1.5.3	-	8.1-25
B	8	8.1	8.1.6	-	8.1.6 Mitigation	496	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures, environmental management strategies.	2	B	8	8.1	8.1.5	8.1.5.3	-	8.1-25
B	8	8.1	8.1.6	-	8.1.6 Mitigation	497	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to heritage resources based on proposed mitigation measures.	2	B	8	8.1	8.1.5	8.1.5.3	-	8.1-25
B	8	8.1	8.1.7	-	8.1.7 Residual and Cumulative Effects Assessment	498	Potential residual effects of construction, operation, reclamation and closure activities on heritage resources, and the related consequences, after mitigation measures and environmental management strategies have been applied.	2	B	8	8.1	8.1.5	8.1.5.4	-	8.1-27
B	8	8.1	8.1.7	-	8.1.7 Residual and Cumulative Effects Assessment	499	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document.	2	B	8	8.1	8.1.5	8.1.5.5	-	8.1-33

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B	8	8.1	8.1.7	-	8.1.7 Residual and Cumulative Effects Assessment	500	For any residual effects, assess potential cumulative effects of the Proposed Project and provide conclusion on potential cumulative impacts for each heritage resource VC.	2	B	8	8.1	8.1.5	8.1.5.7	-	8.1-37
B	8	8.1	8.1.8	-	8.1.8 Conclusions	501	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on heritage resources.	2	B	8	8.1	8.1.6	-	-	8.1-44
8.2 SUMMARY OF HERITAGE EFFECTS															
B	8	8.2	-	-	8.2 Summary of Heritage Effects	502	The EAC Application/EIS will provide a summary table of potential residual heritage effects of the Proposed Project as outlined in Table 11. The Summary of predicted residual effects will include both direct and cumulative effects.	2	B	8	8.2	-	-	-	8.2-1
9.0 ASSESSMENT OF POTENTIAL HEALTH EFFECTS															
B	9	-	-	-	9. Assessment of Potential Health Effects	502a	The EAC Application/EIS will provide an assessment of potential project-related effects on each health effects VC identified. This assessment will include, all phases of the Proposed Project lifecycle (including the construction, operational, reclamation and closure phases of the Proposed Project) within the identified spatial and temporal assessment boundaries. The following health effect categories will be assessed as part of the EAC Application/EIS: - Public Health, including water quality, air quality, and country foods; and - Noise. The technical discipline specific methodology and assessment criteria to assess each effect are outlined in the following sections.	n/a - Contextual/Descriptive							
9.1 PUBLIC HEALTH															
B	9	9.1	9.1.1	-	9.1.1 Introduction	503	The EAC Application/EIS will introduce the contents of the chapter on public health and describe the identified VCs.	2	B	9	9.1	9.1.1	-	-	9.1-1
B	9	9.1	9.1.2	-	9.1.2 Regulatory/Policy Setting	504	The EAC Application/EIS will provide a brief summary of any legislation, regulation or policy related to public health VCs.	2	B	9	9.1	9.1.2	-	-	9.1-2
B	9	9.1	9.1.3	-	9.1.3 Assessment Methodology	n/a	n/a	2	B	9	9.1				9.1-1
B	9	9.1	9.1.3	9.1.3.1	9.1.3.1 Valued Component Selection and Rationale	505	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to health effects.	2	B	9	9.1	9.1.3	9.1.3.1	-	9.1-4
B	9	9.1	9.1.3	9.1.3.2	9.1.3.2 Assessment Boundaries	506	The spatial boundary for the public health assessment on identified VCs will include a LSA and a RSA.	2	B	9	9.1	9.1.3	9.1.3.2	9.1.3.2.1	9.1-4
B	9	9.1	9.1.3	9.1.3.2	9.1.3.2 Assessment Boundaries	506a	The spatial boundaries for the Public Health component will correspond with the related biophysical and social study areas including water quality, air quality, country foods (traditional and non-traditional land and resource use), and noise.	n/a - Contextual/Descriptive							
B	9	9.1	9.1.3	9.1.3.2	9.1.3.2 Assessment Boundaries	507	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	9	9.1	9.1.3	9.1.3.2	9.1.3.2.2	9.1-5
B	9	9.1	9.1.3	9.1.3.2	9.1.3.2 Assessment Boundaries	508	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	9	9.1	9.1.3	9.1.3.2	9.1.3.2.3 9.1.3.2.4	9.1-5
B	9	9.1	9.1.3	9.1.3.3	9.1.3.3 Assessment Methods	509	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	9	9.1	9.1.3	9.1.3.3	-	9.1-6

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B	9	9.1	9.1.3	9.1.3.3	9.1.3.3 Assessment Methods	510	The scope of the public health assessment will include the following: - Describe existing water quality, air quality, consumption of country foods and noise (Figure 3); - Provide an overview of background information, environmental setting and characteristics of human health within the spatial boundaries; - Identify and evaluate potential human health effects related to predicted project-related effects to water quality (including drinking water), air quality, contamination of country foods, change to noise levels; and - Identify intended mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential human health effects of the Proposed Project.	2	B	9	9.1	9.1.3	9.1.3.3	-	9.1-6
B	9	9.1	9.1.3	9.1.3.3	9.1.3.3 Assessment Methods	510a	The following legislation, standards, protocols and guidelines will be reviewed as part of the assessment: <u>Water Quality</u> - British Columbia Contaminated Sites Regulation (BC CSR), Schedules 6 (Generic Numerical Water Standards) and 10 (Generic Numerical Soil and Water Standards) for Drinking Water (DW) (including amendments to May 31, 2011); - British Columbia Drinking Water Protection Act and Drinking Water Protection Regulation; and - Health Canada. 2012. Guidelines for Canadian Drinking Water Quality Guidelines Summary Table. Prepared by the Federal-Provincial-Territorial Committee on Drinking Water of the Federal-Provincial-Territorial Committee on Health and the Environment, August 2012. Available at: http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/2012-sum_guide-res_recom/2012-sum_guide-res_recom-eng.pdf <u>Air Quality</u> - B.C. Ambient Air Quality Objectives (BCMOE 2013b) - The following agencies provide health-based air thresholds for acute (1-hour and 24-hour) and chronic (annual) exposure periods and were considered when selecting the air thresholds for the assessment of potential health effects during each of the Proposed Project cases: - Agency of Toxic Substances and Disease Registry (ATSDR 2011, internet site); - British Columbia Ministry of the Environment (BC MOE 2009); - California Office of Environmental Health Hazard Assessment (OEHHA 2008, internet site); - Canadian Council of Ministers of the Environment (CCME) National Ambient Air Quality Objectives (NAAQO) (CCME 1999); - Ontario Ministry of the Environment (OMOE 2005; OMOE 2008); - Texas Commission on Environmental Quality (TCEQ 2010); and - World Health Organization (WHO 2000; WHO 2005). <u>Country Foods</u>	n/a - Guidance							
B	9	9.1	9.1.4	-	9.1.4 Baseline Conditions	511	The public health baseline study will provide detailed information on the VCs and all sources of information will be listed. Baseline data collection for human health indicators will focus on identified human health receptor locations by discipline within the Proposed Project area and footprint.	2	B	9	9.1	9.1.3	9.1.3.3	9.1.3.3.1	9.1-6

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	9	9.1	9.1.4	-	9.1.4 Baseline Conditions	512	Data from these studies and other relevant components will be summarized in the human health baseline and analyzed from a public health perspective.	2	B	9	9.1	9.1.3	9.1.3.3	9.1.3.3.1	9.1-6
B	9	9.1	9.1.4	-	9.1.4 Baseline Conditions	512a	The baseline will be characterised using the following methods and approaches: - Describe available information on noise, air quality, water quality and supply conditions within the LSA, much of this information will come from the work of other disciplines when establishing baseline conditions; and - Identify existing public land use as identified the land and resource use component.	2	B	9	9.1	9.1.3	9.1.3.3	9.1.3.3.1	9.1-6
B	9	9.1	9.1.5	-	9.1.5 Determine Potential Effects	513	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on health effect VCs identified in Table 4.	2	B	9	9.1	9.1.3	9.1.3.3	9.1.3.3.1	9.1-6
B	9	9.1	9.1.5	-	9.1.5 Determine Potential Effects	514	The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	9	9.1	9.1.4	-	-	9.1-14
B	9	9.1	9.1.5	-	9.1.5 Determine Potential Effects	515	The EAC Application/EIS will include the following: - An assessment potential noise related effects at permanent and semi-permanent receptor locations within the study boundary; - An assessment of potential air quality related effects (from particulates such as PM10, PM2.5, gaseous air contaminants such as SO2 and NO2 and diesel emissions based on the air quality modelling results) at permanent and semi-permanent receptor locations within the study boundary; - Where water quality is empirically modelled, a Screening Level Risk Assessment (SLRA) of the potential human health risks due to contaminants in drinking water. Where water quality is not empirically modeled, a qualitative approach will be used to assess potential health effects; - Assess public safety in relation to potential interactions between the public and the Proposed Project; - Identify mitigation measures and management strategies to avoid, limit, or otherwise mitigate potential effects of the proposed Project on the public health VCs; and - List the conditions that the Proponent will commit to with respect to noise based on proposed mitigation.	2	B	9	9.1	9.1.5	-	-	9.1-15

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	9	9.1	9.1.5	-	9.1.5 Determine Potential Effects	516	If risks to human health resulting from changes to the bio-physical environment (i.e., air, water, contamination of country foods) are predicted, a human health risk assessment (HHRA) examining exposure pathways for any pollutants of concern may be necessary to adequately characterize potential risks to human health.	2	B	9	9.1	9.1.5	-	-	9.1-15
B	9	9.1	9.1.6	-	9.1.6 Mitigation	517	The EAC Application/EIS will identify intended mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential human health risk effects of the Proposed Project on VCs, including measures for ongoing communications with the public regarding potential public health risks.	2	B	9	9.1	9.1.7	-	-	9.1-48
B	9	9.1	9.1.6	-	9.1.6 Mitigation	518	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures and health and safety management strategies.	2	B	5 9	5.5 5.7 9.1	5.5.5 5.7.5 9.1.7	5.5.5.3 5.7.5.3	-	5.5-58 5.7-25 9.1-48 (see also Volume 3, Part E - Section 16.5, 16.6 and 16.7)
B	9	9.1	9.1.6	-	9.1.6 Mitigation	519	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to public health based on proposed mitigation measures.	2	B	9	9.1	9.1.7	-	-	9.1-48
B	9	9.1	9.1.7	-	9.1.7 Residual and Cumulative Effects Assessment	520	Identify potential residual effects of the proposed Project on human health, and the related consequences, after mitigation measures and environmental management strategies have been applied;	2	B	9	9.1	9.1.6	9.1.6.1	-	9.1-30
B	9	9.1	9.1.7	-	9.1.7 Residual and Cumulative Effects Assessment	521	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document; and	2	B	9	9.1	9.1.8	9.1.8.1	-	9.1-48
B	9	9.1	9.1.7	-	9.1.7 Residual and Cumulative Effects Assessment	522	For any residual effects, assess potential cumulative effects of the Proposed Project and provide conclusion on potential cumulative impacts for each human health VC.	2	B	9	9.1	9.1.8	9.1.8.2	-	9.1-56
B	9	9.1	9.1.8	-	9.1.8 Conclusions	523	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on health effects VCs.	2	B	9	9.1	9.1.9	-	-	9.1-57
9.2 NOISE															
B	9	9.2	9.2.1	-	9.2.1 Introduction	524	The EAC Application/EIS will introduce the contents of the chapter on noise and describe identified VCs. The noise assessment will assess sound emissions associated with the Proposed Project. Information will be provided on existing noise levels in the area, as well as the changes expected to result from the Proposed Project.	2	B	9	9.2	9.2.1	-	-	9.2-1 (see also Appendix 9.2-A)

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B	9	9.2	9.2.2	-	9.2.2 Regulatory/Policy Setting	525	The EAC Application/EIS will provide a brief summary of legislation, regulation or policy related to noise VCs, including information on applicable noise bylaws provided by the Sunshine Coast Regional District.	2	B	9	9.2	9.2.2	-	-	9.2-2
B	9	9.2	9.2.3	-	9.2.3 Assessment Methodology	n/a	n/a	2	B	9	9.2				9.2-1
B	9	9.2	9.2.3	9.2.3.1	9.2.3.1 Valued Component Selection and Rationale	526	The EAC Application/EIS will identify and describe the rationale for choosing and assessing the specific VCs outlined in Table 4 related to noise.	2	B	9	9.2	9.2.3	9.2.3.1	-	9.2-5
B	9	9.2	9.2.3	9.2.3.2	9.2.3.2 Assessment Boundaries	527	The spatial boundary for the noise assessment on identified VCs will include a LSA and a RSA.	2	B	9	9.2	9.2.3	9.2.3.2	9.2.3.2.1	9.2-6
B	9	9.2	9.2.3	9.2.3.2	9.2.3.2 Assessment Boundaries	527a	The LSA for the assessment of Project noise effects extends out 1.5 km in all directions from the Proposed Project fence line that includes the Proposed Project footprint and areas south of the Proposed Project to the upper limit of the intertidal area. This definition of the noise LSA is consistent with the Commission Guideline, which requires that environmental noise impact to be assessed at receptors within 1.5 km of the Proposed Project fence line or at 1.5 km from the Proposed Project fence line in the absence of receptors. The RSA for the assessment of Project noise effects extends out 5 km in all directions from the Property fence line. As noise attenuates with distance, the definition of the noise RSA is believed to include the entire area over which direct or cumulative effects from the Proposed Project could potentially be observed.	n/a - Contextual/Descriptive							
B	9	9.2	9.2.3	9.2.3.2	9.2.3.2 Assessment Boundaries	528	The temporal boundaries for the assessment will include the phases of the Proposed Project: construction, operations, reclamation, and closure.	2	B	9	9.2	9.2.3	9.2.3.2	9.2.3.2.2	9.2-9
B	9	9.2	9.2.3	9.2.3.2	9.2.3.2 Assessment Boundaries	528a	The beginning of noise effects from the Proposed Project will coincide with the beginning of Project construction. Likewise, the end of the noise effects from the Proposed Project will coincide with the end of project reclamation and closure.	n/a - Contextual/Descriptive							
B	9	9.2	9.2.3	9.2.3.2	9.2.3.2 Assessment Boundaries	529	Where applicable, the nature of administrative and technical boundaries and their effect on the assessment will be documented in the EAC Application/EIS.	2	B	9	9.2	9.2.3	9.2.3.2	9.2.3.2.3 9.2.3.2.4	9.2-9
B	9	9.2	9.2.3	9.2.3.3	9.2.3.3 Assessment Methods	530	The EAC Application/EIS will outline the method used to assess potential effects of the Proposed Project on identified VCs.	2	B	9	9.2	9.2.3	9.2.3.3	-	9.2-9
B	9	9.2	9.2.3	9.2.3.3	9.2.3.3 Assessment Methods	530a	In BC there are no provincial noise requirements or standard methods for completing baseline noise surveys or environmental impact assessments for aggregate mine and barge load-out projects. In the absence of formal guidance, the noise from the Proposed Project will be assessed in accordance with regulations specified by the BC Oil and Gas Commission (the Commission) in the document British Columbia Noise Control Best Practices Guideline (Commission 2009; "the Guideline"); by including a wider range of sensitive receptors and noise effect metrics than those specified in the Guideline, the noise assessment will also be consistent with Health Canada's environmental noise guidelines. The focus of the noise assessment is on determining changes to the existing ambient sound levels resulting from the Proposed Project and comparing the results with noise regulations from the Guideline and with metrics recommended by Health Canada.	n/a - Contextual/Descriptive							

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B	9	9.2	9.2.3	9.2.3.3	9.2.3.3 Assessment Methods	531	The assessment approach for noise will include the following: - Describe existing noise levels in locations where the public is likely to be exposed to noise from the Proposed Project. Existing noise levels will be characterised by baseline field measurements taken both at sea-level and at higher elevations where residences are present.; - Identify noise sources that will be operational on the site during Project construction and operation. Where possible, sound power levels for these noise sources will be obtained through measurements of similar-scale gravel load-out facility equipment but where source measurements are not possible, equipment sound power levels will be determined using widely-accepted empirical formulae. - Development of a computer noise model for the prediction of cumulative noise levels in the noise study area during Project construction and operation. The computer noise model will be developed in accordance with widely-accepted international standards on the propagation of environmental noise; and - Identify and evaluate potential noise effects of the Proposed Project on VCs using techniques and metrics described in the Commission Guideline and in Health Canada guidance: in particular, comparison of the predicted cumulative noise levels to the Commission-mandated Permissible Sound Level (PSL) and assessment of the percent highly annoyed and the likely impact on sleep disturbance and speech intelligibility, as recommend by Health Canada.	2	B	9	9.2	9.2.3	9.2.3.3	-	9.2-9
B	9	9.2	9.2.4	-	9.2.4 Baseline Conditions	532	The noise baseline study will provide detailed information on the VCs and all sources of information will be listed. Baseline noise information will be obtained via field measurements conducted in 2012 and 2013. The baseline assessment will provide an overview of background information, environmental setting and characteristics for the noise VC.	2	B	9	9.2	9.2.4	-	-	9.2-25
B	9	9.2	9.2.4	-	9.2.4 Baseline Conditions	532a	The baseline will be characterised using the following methods and approaches: - Identify sensitive noise receptor locations; - Baseline noise monitoring at representative sensitive locations selected in consultation with local residents; - At each measurement location, baseline monitoring will consist of at least 48 - 72 hours of one-minute equivalent energy sound levels (Leq,1min) in A-weighted decibels (dBA) accompanied by sound recordings and meteorological measurements to validate data; - Measurements are required to be made during spring/summer/fall when the ground is not frozen; - Data will be reviewed and validated for use in the assessment; and - Data will be used to establish baseline conditions for evaluation of Project-related effects to the noise VC.	2	B	9	9.2	9.2.4	-	-	9.2-25
B	9	9.2	9.2.5	-	9.2.5 Determine Potential Effects	533	The assessment will identify project-VC interactions and evaluate potential adverse effects of all project phases of Proposed Project on the noise VCs identified in Table 4. The effects assessment will consider traditional ecological or community knowledge, where available.	2	B	9	9.2	9.2.5	9.2.5.1	-	9.2-30
B	9	9.2	9.2.5	-	9.2.5 Determine Potential Effects	534	The noise assessment will identify and evaluate potential noise effects and establish major sources of noise from the Proposed Project and determine sound emissions from major sources using the Proposed Project description data, vendor data, sound source determination studies of similar facilities and empirical formulae. The assessment will consider vibration induced by potential low frequency noise.	2	B	9	9.2	9.2.5	9.2.5.2	-	9.2-35

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
B	9	9.2	9.2.5	-	9.2.5 Determine Potential Effects	535	The noise assessment will compare the cumulative noise levels during the Proposed Project operation to the Permissible Sound Level (PSL) mandated by the Guideline (Commission 2009), and to percentage highly annoyed, sleep disturbance, and speech intelligibility metrics recommended by Health Canada. Baseline noise levels used in the assessment will be based on Commission-mandated daytime and night-time ambient levels and the results of the summer/fall 2012 baseline field program. In keeping with the Guideline, the Proposed Project noise levels will be predicted using a computer noise model developed in accordance with widely-accepted international standards on the propagation of environmental noise. In particular, the computer noise model will account for the sound power levels of the Proposed Project source equipment, losses associated with geometric spreading and atmospheric absorption, and reflection and diffraction from structures and terrain.	2	B	9	9.2	9.2.5	9.2.5.2	-	9.2-35
B	9	9.2	9.2.5	-	9.2.5 Determine Potential Effects	536	Up to three scenarios for noise assessment will be included to represent different phases of the Proposed Project construction and operation. In particular, this will include one construction phase scenario and two operation phase scenarios. As the model is a snapshot in time, the period of site activity with the greatest potential for each scenario to generate offsite noise will be used. This may coincide with the period of greatest production or the period of activity that is spatially nearest to sensitive noise receivers.	2	B	9	9.2	9.2.5	9.2.5.2	-	9.2-35
B	9	9.2	9.2.6	-	9.2.6 Mitigation	537	The EAC Application/EIS will identify mitigation measures and environmental management strategies to avoid, limit, or otherwise mitigate potential effects of the Proposed Project on noise VCs.	2	B	9	9.2	9.2.5	9.2.5.3	-	9.2-66
B	9	9.2	9.2.6	-	9.2.6 Mitigation	538	The EAC Application/EIS will discuss the effectiveness and limitations of identified mitigation measures, environmental management, and compensation strategies.	2	B	9	9.2	9.2.5	9.2.5.3	-	9.2-66
B	9	9.2	9.2.6	-	9.2.6 Mitigation	539	The EAC Application/EIS will discuss the commitments that the Proponent is making with respect to noise levels based on proposed mitigation measures.	2	B	9	9.2	9.2.5	9.2.5.3	-	9.2-66
B	9	9.2	9.2.7	-	9.2.7 Residual and Cumulative Effects Assessment	540	Identify potential residual effects of the Proposed Project on noise levels, and the related consequences, after necessary mitigation measures and management strategies have been applied.	2	B	9	9.2	9.2.5	9.2.5.3	-	9.2-66
B	9	9.2	9.2.7	-	9.2.7 Residual and Cumulative Effects Assessment	541	Determine the significance of the identified potential residual effects from the Proposed Project, based on residual effect criteria outlined in Section 4.5.3 of this document.	2	B	9	9.2	9.2.5	9.2.5.5	-	9.2-77
B	9	9.2	9.2.7	-	9.2.7 Residual and Cumulative Effects Assessment	542	For any residual effects, assess potential cumulative effects of the Proposed Project and provide conclusion on potential cumulative impacts for each noise VC.	2	B	9	9.2	9.2.5	9.2.5.7	-	9.2-79
B	9	9.2	9.2.8	-	9.2.8 Conclusions	543	The EAC Application/EIS will provide a conclusion regarding the significance of identified residual and cumulative effects of the Proposed Project on noise VCs.	2	B	9	9.2	9.2.6	-	-	9.2-80
9.3 SUMMARY OF HEALTH EFFECTS															
B	9	9.3	-	-	9.3 Summary of Health Effects	544	The EAC Application/EIS will provide a summary table of potential residual health effects of the Proposed Project as outlined in Table 12. The Summary of predicted residual effects will include both direct and cumulative effects.	2	B	9	9.3	-	-	-	9.3-1
PART C - ABORIGINAL INFORMATION REQUIREMENTS															
10.0 BACKGROUND INFORMATION															
C	10	-	-	-	10. Background Information	545	Identify potentially affected Aboriginal groups named in the BCEAO Section 11 Order or as otherwise identified by the CEA Agency and, where available, their asserted or established traditional territories. These Aboriginal groups include:	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	546	Squamish Nation	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	547	Musqueam Indian Band;	3	C	10	-	-	-	-	10-1

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C	10	-	-	-	10. Background Information	548	Tsleil-Waututh Nation;	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	549	Stz'uminus First Nation;	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	550	Cowichan Tribes;	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	551	Halalt First Nation;	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	552	Lake Cowichan First Nation;	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	553	Lyackson First Nation;	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	554	Penelakut Tribe; and	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	555	Métis Nation British Columbia.	3	C	10	-	-	-	-	10-1
C	10	-	-	-	10. Background Information	556	Include maps, where available, of the asserted or traditional territory of the Aboriginal groups named in the Section 11 Order or as otherwise identified by the CEA Agency; and	3	C	10	10.1	-	-	-	10-2
C	10	-	-	-	10. Background Information	557	Provide background information on each Aboriginal group named in the Section 11 Order or as otherwise identified by the CEA Agency, including but not limited to ethnography, language, land use setting and planning, governance, economy, and reserves.	3	C	10	10.1	-	-	-	10-2
11.0 ABORINGINAL AND/OR TREATY RIGHTS															
C	11	-	-	-	11. Aboriginal and/or Treaty Rights	558	Provide a non-confidential summary of past, present, and anticipated future uses of lands and resources in the Proposed Project area by Aboriginal groups identified in Section 10.0, including but not limited to current use of lands and resources for traditional purposes;	3	C	11	-	-	-	-	11-1
C	11	-	-	-	11. Aboriginal and/or Treaty Rights	559	Identify, in consultation with Aboriginal groups identified in Section 10.0, any specific established treaty rights and/or asserted or established aboriginal rights, including aboriginal title, in the Proposed Project area where this information is provided by these identified Aboriginal groups;	3	C	11	-	-	-	-	11-1
C	11	-	-	-	11. Aboriginal and/or Treaty Rights	560	Identify any potential effects of the Proposed Project on the uses (including the current use of lands and resources for traditional purposes) and asserted and/or established rights of Aboriginal groups identified in Section 10.0; and	3	C	11	-	-	-	-	11-1
C	11	-	-	-	11. Aboriginal and/or Treaty Rights	561	Describe mitigation measures proposed to avoid or limit Project effects to uses (including the current use of lands and resources for traditional purposes) and asserted and/or established rights of Aboriginal groups identified in Section 10.0.	3	C	11	-	-	-	-	11-1
12.0 OTHER ABORINGINAL INTERESTS															
C	12	-	-	-	12. Other Aboriginal Interests	562	Identify, in consultation with Aboriginal groups identified in Section 10.0, aboriginal interests with respect to potential social, economic, environmental, heritage and health effects (to the extent not already identified in Section 11.0 above);	3	C	12	-	-	-	-	12-1
C	12	-	-	-	12. Other Aboriginal Interests	563	Describe how these effects have been or will be addressed	3	C	12	-	-	-	-	12-1
13.0 ABORINGINAL CONSULTATION															
C	13	-	-	-	13. Aboriginal Consultation	564	Refer back to Part A, Section 3.2, describing the Proponents' past and planned consultation activities with Aboriginal groups identified in Section 10.0	3	C	13	13.1	-	-	-	13-1
C	13	-	-	-	13. Aboriginal Consultation	565	Consider both federal and provincial consultation requirements, including CEA Agency's requirements for the Proponent to:	3	C	13	-	-	-	-	13-1
C	13	-	-	-	13. Aboriginal Consultation	566	Describe current uses of lands and resources for traditional purposes for each Aboriginal groups identified in Section 10.0, as well as potential effects of changes to the environment resulting from the Proposed Project on these uses;	3	C	13	-	-	-	-	13-1

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C	13	-	-	-	13. Aboriginal Consultation	567	Provide each Aboriginal group identified in Section 10.0 with an opportunity to review this information; and	3	C	13	-	-	-	-	13-1
C	13	-	-	-	13. Aboriginal Consultation	568	Summarize comments received from the Aboriginal groups identified in Section 10.0 in response to the information provided.	3	C	13	-	-	-	-	13-1
C	13	-	-	-	13. Aboriginal Consultation	569	Describe, in a tracking table, key issues identified by Aboriginal groups identified in Section 10.0 that are of relevance to the EA and provide BURNCO's responses to these issues.	3	C	13	-	-	-	-	13-1
14.0 SUMMARY															
C	14	-	-	-	14. Summary	570	The EAC Application/EIS will present proposed measures to avoid, limit, or otherwise mitigate Project-related effects in a table format.	3	C	14	-	-	-	-	14-1
PART D - FEDERAL INFORMATION REQUIREMENTS															
15.0 REQUIREMENTS FOR FEDERAL ENVIRONMENTAL ASSESSMENTS															
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	570a	The Canadian Environmental Assessment Act, 2012 (CEAA 2012) came into force on July 6, 2012. Since the Notice of Commencement for the BURNCO Aggregate Project EA was posted to the Canadian Environmental Assessment Registry (CEAR) on April 28, 2010 (i.e., before July 6, 2012), the EA is subject to the transition provisions of CEAA 2012. The transition provisions require that the BURNCO Aggregate Project continue to be assessed under the former Canadian Environmental Assessment Act (former CEAA) as if the former CEAA had not been repealed. The federal EA will continue to follow the requirements of the former CEAA with the Canadian Environmental Assessment Agency (the CEA Agency) exercising the powers and performing the duties and functions of the responsible authority. The Agency has determined that the Proposed Project is subject to a federal review because it is anticipated to require an authorization from Fisheries and Oceans Canada. It has also been determined that a comprehensive study type EA process is required because the proposed production capacity exceeds the threshold specified in the Comprehensive Study List Regulations (i.e., 1,000,000 tonnes per year or more).	n/a - Contextual/Descriptive							
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	570b	The EAC Application/EIS will include a description of the purpose of the Proposed Project, an evaluation of alternative means of carrying out the Proposed Project, the need for a follow-up programme, and the capacity of renewable resources that are likely to be significantly affected by the Proposed Project to meet present and future needs. The selection of the preferred alternatives to the Proposed Project will be identified based on the relative consideration of the environmental, economic and technical benefits and costs.	n/a - Contextual/Descriptive							

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D	15	-	-	-	15. Requirements for Federal Environmental Assessments	570c	Under the former CEAA, an "environmental effect" means, in respect of a project, (a) any change that the project may cause in the environment, including any change it may cause to a listed wildlife species, its critical habitat or the residences of individuals of that species, as those terms are defined in subsection 2(1) of the Species at Risk Act, (b) any effect of any change referred to in paragraph (a) on i. health and socio-economic conditions, ii. physical and cultural heritage, iii. the current use of lands and resources for traditional purposes by aboriginal persons, or iv. any structure, site or thing that is of historical, archaeological, paleontological or architectural significance, or (c) any change to the project that may be caused by the environment, whether any such change or effect occurs within or outside Canada. To meet requirements of the former CEAA, the EAC Application/EIS will address the following:			n/a - Contextual/Descriptive					
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	571	Environmental Effects – The EAC Application/EIS will include a description of any potential changes that the Proposed Project may cause on the environment, consistent with the federal scope of the assessment and the definition of an 'environmental effect' above.	3	D	15	15.1	15.1.1	-	-	15-1
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	572	Environmental Changes - The EAC Application/EIS will contain a description of potential changes to the environmental caused by the Proposed Project. VCs and potential project-related impacts will be described in the outlined sections of the Application. Where possible, references will be made to appropriate sections of the document to reduce redundancy.	3	D	15	15.1	15.1.1	-	-	15-1
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	573	Species at Risk – The EAC Application/EIS will provide a description of any change that the Proposed Project may cause to a listed wildlife or plant species and its critical habitat and potential areas of residence by individuals of that species. This section will also make references to previous sections to reduce redundancy.	3	D	15	15.1	15.1.2	-	-	15-5
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	574	Effects of the Environment on the Project – The EAC Application/EIS will identify the environmental factors deemed to have possible consequences on the Proposed Project, such as:	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	575	- Natural seismic events;	3	D	15	15.1	15.1.3	-	-	15-6

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D	15	-	-	-	15. Requirements for Federal Environmental Assessments	576	- Wildfire;	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	577	- Geohazards, terrain stability, snow avalanche;	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	578	- Extreme weather events (heavy precipitation, flooding, drought, storms, snow levels); and	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	579	- Climate change.	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	580	Identify any changes or effects on the Proposed Project that may be caused by the above-mentioned environmental factors;	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	581	Identify the likelihood and severity of the changes or effects;	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	582	Identify mitigation measures, including design or construction strategies, planned to avoid or limit the likelihood and severity of the changes or effects; and	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	583	Describe the sensitivity of the Proposed Project to long-term climate variability and effects.	3	D	15	15.1	15.1.3	-	-	15-6
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	584	Accidents and Malfunctions Identify potential accidents, malfunctions, and unplanned events that could occur in any phase of the Proposed Project, the likelihood and circumstances under which these events could occur and the environmental effects that may result from such events, assuming contingency plans are not fully effective;	3	D	15	15.1	15.1.4	-	-	15-16
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	585	Describe how each potential accident, malfunction or unplanned event would be managed or mitigated; and	3	D	15	15.1	15.1.4	-	-	15-16
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	586	Accidents or malfunctions that will be discussed in the EAC Application/EIS include: fire, contamination of soils and / or water due to fuel or hydrocarbon spills, power outages, flooding, erosion and / or loss or containment of aggregate pit, sediment transport into watercourses, accidental discharge of sediment laden wash water, motor vehicle and boating accidents and barge shipping accidents.	3	D	15	15.1	15.1.4	-	-	15-16
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	587	Factors of safety for the side slopes will be provided where sloughing or slope failure could cause retrogression of the pit crest to a degree that could impact on the safety of mine personnel.	1	A	2	2.5	2.5.1	2.5.1.1	-	2-26
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	588	Mitigation Measures – The EAC Application/EIS will identify mitigation measures that are technically and economically feasible that would avoid and limit the environmental effects described in Sections 5.0 - 9.0. Descriptions of proposed mitigation will include:	3	D	15	15.1	15.1.5	-	-	15-23
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	589	- their suitability for project- and site-specific application;	3	D	15	15.1	15.1.5	-	-	15-23

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D	15	-	-	-	15. Requirements for Federal Environmental Assessments	590	- their technical and economic feasibility; and	3	D	15	15.1	15.1.5		-	15-23
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	591	- the extent to which their effectiveness can be measured and verified, including linkages to the Environmental Monitoring and Follow-up Program presented in Section 17.0 where appropriate.	3	D	15	15.1	15.1.5		-	15-23
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	592	The level of detail provided will be commensurate with the risk associated with the potential effect being mitigated, and the degree to which the proposed mitigation has been proven effective in the same or similar applications elsewhere. Any uncertainty associated with the effectiveness of proposed mitigation measures will be described.	3	D	15	15.1	15.1.5		-	15-23
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	593	Residual Environmental Effects – The EAC Application/EIS will provide a description of any residual environmental effects that would remain following implementation of the mitigation measures described above. The EAC Application/EIS will include a summary of the Proposed Project’s potential residual effects to describe the consequences of the Proposed Project, the degree to which effects can be mitigated and which effects cannot be mitigated or compensated.	3	D	15	15.1	15.1.6	-	-	15-63
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	594	Significance Assessment / Analysis – The EAC Application/EIS will provide a description of the significance of the residual environmental effects identified in Sections 5.0 - 9.0. The significance assessment will follow <i>A Reference Guide for the Canadian Environmental Assessment Act: Determining Whether a Project is Likely to Cause Significant Adverse Environmental Effects</i> (Prepared by the Federal Environmental Assessment Review Office, November 1994 (FEARO 1994)).	3	D	15	15.1	15.1.6	-	-	15-63
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	595	Cumulative Environmental Effects – A Cumulative Effects Assessment will be undertaken for each of the previously identified VCs following methods identified in Section 4.0. The scope and method of the cumulative effects assessment will be developed to satisfy regulatory requirements of BCEAA and CEAA. The following federal policy statements and guidance documents will be used: - Operational Policy Statement: Addressing Cumulative Environmental Effects under the Canadian Environmental Assessment Act (CEA Agency 2007); - Addressing Cumulative Environmental Effects. A Reference Guide for the Canadian Environmental Assessment Act (CEA Agency 1994); and - Cumulative Effects Practitioners Guide (CEA Agency 1999). The EAC Application/EIS will provide a description of any cumulative environmental effects that are likely to results from the Proposed Project in combination with other projects or activities that have been, are, or will be carried out. The EAC Application/EIS will make references to previous sections where appropriate to reduce redundancy.	3	D	15	15.1	15.1.7	-	-	15-76
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	596	Alternative Means – The EAC Application/EIS will include an evaluation alternative means of carrying out the Proposed Project that are technically and economically feasible and the environmental effects of any such alternative means. The assessment of alternative means presented in Section 2.5 will be sufficient to meet both federal and provincial requirements.	3	D	15	15.1	15.1.9	-	-	15-81
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	597	Follow-Up Program – The EAC Application/EIS will describe the need for, and the requirements of any follow-up program in respect of the Proposed Project. The EAC Application/EIS will make references to other sections of the EAC Application/EIS where appropriate to reduce redundancy.	3	D	15	15.1	15.1.8	-	-	15-81

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Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	598	Capacity of Renewable Resources – The EAC Application/EIS will include an analysis of the capacity of renewable resources to meet the needs of the present and those of the future where these resources are likely to be significantly affected by the Proposed Project.	3	D	15	15.1	15.1.10	-	-	15-81
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	599	Standalone Bilingual Summary – To facilitate public participation and review, a standalone summary of the EAC Application/EIS will be provided in both official languages (English and French).	3	D	15	15.1	15.1.11	-	-	15-82
D	15	-	-	-	15. Requirements for Federal Environmental Assessments	600	See Appendix 1, Table A1-2. No other additional information requested.	4	G	22	-	-	-	-	Appendix 1, Table A1-2
PART E - ENVIRONMENTAL MANAGEMENT, MONITORING AND FOLLOW-UP															
16.0 ENVIRONMENTAL MANAGEMENT PROGRAMME															
E	16	-	-	-	16. Environmental Management Programme	601	Environmental protection through adherence to applicable legislation and commitments is an important component of the overall development and implementation of the Proposed Project. Effective planning and implementation of a project Environmental Management Programme and Plan (EMP) will contribute to ongoing environmental protection and greatly reduce the potential for adverse effects on the environmental as result of poor communication, ignorance, accidents or other factors. A full description of the EMP's that will be implemented for the Proposed Project will be provided in the EAC Application/EIS. These are expected to include: - Construction Environmental Management Programme; and - Operational Environmental Management Programme.	3	E	16	-	-	-	-	16-1
16.1 CONSTRUCTION ENVIRONMENTAL MANAGEMENT PROGRAMME															
E	16	16.1	-	-	16.1 Construction Environmental Management Program	602	The Construction Environmental Management Program (CEMP) will be developed prior to the construction of the Proposed Project. This document will identify environmental management roles and responsibilities and be used to identify, monitor and mitigate potential adverse effects of the Proposed Project during the construction. The CEMP will include	3	E	16	16.2	-	-	-	16-3
E	16	16.1	-	-	16.1 Construction Environmental Management Program	603	Sediment, Erosion and Drainage Control Plan;	3	E	16	16.2	16.2.2	16.2.2.1	-	16-6
E	16	16.1	-	-	16.1 Construction Environmental Management Program	604	Water Management and Monitoring Plan;	3	E	16	16.2	16.2.2	16.2.2.1	-	16-6
E	16	16.1	-	-	16.1 Construction Environmental Management Program	605	Topsoil and Overburden Management Plan , including - predicted inventories of topsoil and overburden; - soil suitability for revegetation purposes; - the potential for segregating topsoil and overburden for separate stockpiling; - stockpiling procedures and stockpile locations - specifications for mixing the mechanically dried fines and silt with organic overburden material for the purposes of berm construction and reclamation; - plans to prevent invasive species and erosion; and - soil replacement application strategies and depths.	3	E	16	16.2	16.2.2	16.2.2.2	-	16-7
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	606	Spill Prevention and Emergency Response Procedures;	3	E	16	16.6	-	-	-	16-22
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	607	Materials Storage, Handling and Waste Management Plan , including a list of diesel, gasoline or other substances that may be corrosive, volatile or reactive and that may be shipped to and stored on site;	3	E	16	16.2	16.2.2	16.2.2.3	-	16-7
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	608	Tree and Vegetation Clearing Plan , including the salvage of large woody debris and rare plants;	3	E	16	16.2	16.2.2	16.2.2.4	-	16-8

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Approved AIR/EIS Guidelines ^{Note 1}							EAC Application/EIS ^{Note 2}								
Section					Description of Relevant Section/Sub-section	No.	Item	Volume	Part	Section					Page (Note 3)
Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	609	Invasive Species Management Plan;	3	E	16	16.2	16.2.2	16.2.2.4	-	16-8
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	610	Pile Construction Management Plan;	3	E	16	16.2	16.2.2	16.2.2.5	-	16-10
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	611	Solid Waste Management Plan;	3	E	16	16.2	16.2.2	16.2.2.3	-	16-7
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	612	Fish, Vegetation, Wildlife Protection Plan, including Bear Management;	3	E	16	16.2	16.2.2	16.2.2.6 16.2.2.7	16.2.2.6 16.2.2.7	16-11 16-13
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	613	Air Quality and Dust Control Plan; and	3	E	16	16.2	16.2.2	16.2.2.8	-	16-14
E	16	16.1	-	-	16.1 Construction Environmental Management Programme	614	Noise Management Plan.	3	E	16	16.2	16.2.2	16.2.2.9	-	16-15
16.2 OPERATIONAL ENVIRONMENTAL MANAGEMENT PROGRAMME															
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	615	The Operational Environmental Management Programme (OEMP) will be developed prior to the operational phase of the Proposed Project. This document will identify environmental management roles and responsibilities and be used to identify, monitor and mitigate potential effects of the Proposed Project on the environment during the operations. The OEMP will include:	3	E	16	16.3	-	-	-	16-19
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	616	Sediment, Erosion and Drainage Control Plan;	3	E	16	16.2	16.2.2	16.2.2.1	-	16-6
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	617	Water Management and Monitoring Plan;	3	E	16	16.2	16.2.2	16.2.2.1	-	16-6
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	618	Pit Slope Stability Monitoring Plan, including conceptual monitoring plan for piezometric water levels and side slope deformation;	3	E	16	16.3	16.3.1	-	-	16-19
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	619	Topsoil and Overburden Management Plan;	3	E	16	16.2	16.2.2	16.2.2.2	-	16-7
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	620	Spill Prevention and Emergency Response Procedures;	3	E	16	16.6	-	-	-	16-22
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	621	Materials Storage, Handling and Waste Management Plan, including a list of diesel, gasoline or other substances that may be corrosive, volatile or reactive and that may be shipped to and stored on site;	3	E	16	16.2	16.2.2	16.2.2.3	-	16-7
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	622	Access Management Plan;	3	E	16	16.2	16.2.2	16.2.2.12	-	16-18
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	623	Solid Waste Management Plan;	3	E	16	16.2	16.2.2	16.2.2.3	-	16-7
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	624	Fish, Vegetation and Wildlife Protection Plan, including Bear Management;	3	E	16	16.2	16.2.2	16.2.2.6 16.2.2.7	16.2.2.6 16.2.2.7	16-11 16-13
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	625	Invasive Species Management Plan;	3	E	16	16.2	16.2.2	16.2.2.4	-	16-8
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	626	Air Quality and Dust Control Plan;	3	E	16	16.2	16.2.2	16.2.2.8	-	16-14
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	627	Noise Management Plan; and	3	E	16	16.2	16.2.2	16.2.2.9	-	16-15
E	16	16.2	-	-	16.2 Operational Environmental Management Programme	628	Site Restoration Plan.	3	E	16	16.4	-	-	-	16-20 (see also Appendix 4)
17.0 ENVIRONMENTAL MONITORING AND FOLLOW-UP PROGRAMS															

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Approved AIR/EIS Guidelines ^{Note 1}					EAC Application/EIS ^{Note 2}										
Part	Section				Description of Relevant Section/Sub-section	No.	Item	Volume	Part	Section					Page (Note 3)
	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
E	17	-	-	-	17. Environmental Monitoring and Follow-Up Programs	629	The EAC Application/EIS will outline the compliance monitoring and reporting structure that will be adopted to: - Verify the accuracy of the environmental assessment of the Proposed Project; and - Monitor the implementation and effectiveness of any measures taken to mitigate the adverse environmental effects of the Proposed Project	3	E	17	-	-	-	-	17-1
E	17	-	-	-	17. Environmental Monitoring and Follow-Up Programs	630	The EAC Application/EIS will include the following information regarding follow-up programs:	3	E	17	-	-	-	-	17-1
E	17	-	-	-	17. Environmental Monitoring and Follow-Up Programs	631	Monitoring objectives;	3	E	17	-	-	-	-	17-1
E	17	-	-	-	17. Environmental Monitoring and Follow-Up Programs	632		3	E	17	-	-	-	-	17-1
E	17	-	-	-	17. Environmental Monitoring and Follow-Up Programs	633	Effectiveness assessment, including adaptive management, of measures proposed to mitigate potential environmental effects;	3	E	17	-	-	-	-	17-1
E	17	-	-	-	17. Environmental Monitoring and Follow-Up Programs	634	Potential opportunities for the involvement of Aboriginal groups in the development and implementation of a follow-up and monitoring program; and	3	E	17	-	-	-	-	17-1
E	17	-	-	-	17. Environmental Monitoring and Follow-Up Programs	635	Funding responsibilities	3	E	17	-	-	-	-	17-1
PART F - CONCLUSIONS AND COMMITMENTS															
18.0 SUMMARY OF RESIDUAL EFFECTS															
F	18	-	-	-	18. Summary of Residual Effects	636	A Summary of potential residual environmental effects of the Proposed Project after application of recommended mitigation measures and habitat compensation strategies that cannot be completely avoided or mitigated through the re-design or relocation of the Proposed Project, in whole or in part, or through Proponent commitments;	3	F	18	-	-	-	-	18-1
F	18	-	-	-	18. Summary of Residual Effects	637	Clearly indicate whether the Proposed Project is predicted to result in significant adverse environmental, economic, social, heritage, health and other effects; and	3	F	18	-	-	-	-	18-1

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Section					Description of Relevant Section/Sub-section	No.	Item	Volume	Part	Section					Page (Note 3)
Part	X	X.X	X.X.X	X.X.X.X						X	X.X	X.X.X	X.X.X.X	X.X.X.X.X	
F	18	-	-	-	18. Summary of Residual Effects	638	Include the Proponents' determination that potential residual effects are either "not significant" or "significant."	3	F	18	-	-	-	-	18-1
F	18	-	-	-	18. Summary of Residual Effects	639	The Summary of predicted residual effects will include both direct and cumulative effects.	3	F	18	-	-	-	-	18-1
19.0 SUMMARY OF COMMITMENTS AND ASSURANCES															
F	19	-	-	-	19. Summary of Commitments and Assurances	640	The EAC Application/EIS will contain a summary of all commitments and assurances made by the Proponent within the EAC Application/EIS in the format presented in Table 15. The Summary of Commitment and Assurance will be subject to further review and refinement based on comments provided by regulatory agencies, Aboriginal groups and the public during the formal review of the EAC Application/EIS.	3	F	19	-	-	-	-	19-1
20.0 CONCLUSION															
F	20	-	-	-	20. Conclusion	641	The EAC Application/EIS will provide clear conclusions of the EA. These conclusions will also provide a clear summary of commitments made to avoid, reduce or otherwise mitigate potential effects of the Proposed Project through design features, best management practices, and other mitigation measures.	3	F	20	-	-	-	-	20-1
F	20	-	-	-	20. Conclusion	642	Summarize the Proponent's understanding of the federal and provincial EA processes in promoting sustainable development while minimizing effects on environmental, economic, social, heritage and health values, as well as on Aboriginal groups' rights and interests;	3	F	20	-	-	-	-	20-1
F	20	-	-	-	20. Conclusion	643	Describe how the Proposed Project aligns with the goals of the provincial (BCEAA) and federal (former CEAA) EA review processes; and	3	F	20	-	-	-	-	20-1
F	20	-	-	-	20. Conclusion	644	State the request for an provincial EA Certificate and a federal EA decision for the Proposed Project and the need to successfully complete subsequent permitting/authorization processes prior to proceeding with the Proposed Project construction, operation, reclamation and closure.	3	F	20	-	-	-	-	20-1
PART G - REFERENCES AND APPENDICES															
21.0 REFERENCES															
G	21	-	-	-	21. References	645	Provide a list of references and personal communications cited in the EAC Application/EIS.	4	G	21	-	-	-	-	21-1
22.0 APPENDICES															
G	22	-	-	-	22. Appendices	646	This section will include the appendices referenced in the EAC Application/EIS, including detailed baseline studies.	4	G	22	-	-	-	-	21-88
G	22	-	-	-	22. Appendices	647	Where information is prepared by professionals and provided under their professional seal, these areas will be identified in the EAC Application/EIS and their seals will be included in an Appendix.	4	G	22	-	-	-	-	21-88

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