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March 29, 2018

Mr. Patrick Wruck
Commission Secretary and Manager
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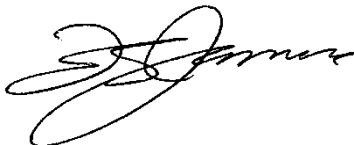
Dear Mr. Wruck:

**RE: British Columbia Utilities Commission (BCUC or Commission)
British Columbia Hydro and Power Authority (BC Hydro)
Site C Clean Energy Project
Annual Progress Report No. 2 – October 2016 to December 2017 (Report)**

BC Hydro writes to provide its Report.

For further information, please contact Geoff Higgins at 604-623-4121 or by email at bchydroregulatorygroup@bchydro.com.

Yours sincerely,



Fred James
Chief Regulatory Officer

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Enclosure (1)

Site C Clean Energy Project

Annual Progress Report No. 2

October 2016 to December 2017

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1 **Message From the President & Chief Operating Officer**

We are constructing the Site C Project (the **Project**) to meet the energy and capacity needs of our residential, commercial and industrial customers and once complete in 2024, it will serve our province for more than 100 years. Construction of the Project began in July 2015 and has been underway for 30 months.

The following annual report covers the period October 1, 2016 to December 31, 2017. As part of our commitment to being open and transparent, we voluntarily provide the British Columbia Utilities Commission (**BCUC or Commission**) with a copy of our quarterly and annual reports on Site C. We also post project reports on the Site C website.

Like all large, complex projects, Site C faces risks and uncertainties. In 2017, various construction challenges were encountered on the Project. Following an executive meeting with BC Hydro's Main Civil Works contractor in September 2017, BC Hydro determined that the timeline for river diversion in 2019 could not be met.

While this has set some activities back a year, including river diversion which will now occur in fall 2020, BC Hydro had one year of float built into the schedule.

Not meeting the current river diversion timeline has created new pressures on the Project's budget. As a result of the change in timing for river diversion and other factors, including an increase in direct and indirect costs, BC Hydro presented a revised cost estimate of \$10.7 billion to the Board of Directors in December 2017.

This report documents a significant amount of work that has been accomplished over the period from October 1, 2016 to December 31, 2017, including major contracts awarded, the issuance of dozens of key permits and authorizations, agreements with communities and Indigenous groups, and the safe completion of key construction milestones.

As we move forward, we have a responsibility to the province to deliver this project on time and within the revised budget, and we are confident we will be able to do so. We have identified a number of areas where improvements must be made, including adding independent oversight of project performance, ensuring the appropriate resources are in place to manage new and existing contractors, and enhancing openness and transparency through increased project communications.

With the second year of construction complete and the review period behind us, we are continuing to focus on the work at hand. This year includes significant construction and procurement activities.

We remain focussed on delivering this project in the most prudent and responsible way possible, and look forward to continuing to report our progress publicly.

Chris O'Riley
President & Chief Operating Officer

2 Executive Summary

The Project will construct a third dam and hydroelectric generating station on the Peace River in northeast British Columbia (**B.C.**) to provide 1,100 megawatts of capacity, and produce about 5,100 gigawatt hours per year.

The Project went through an extensive environmental assessment process. In October 2014 BC Hydro received an Environmental Assessment Certificate from the Province and an Environmental Decision Statement from the Federal Government, with 77 and 98 conditions, respectively. In addition, the Project is required to apply for multiple provincial permits, water licences, leaves to commence construction and federal authorizations. In total, approximately 300 permits and authorizations will be required by the time the Project completes construction.

The Project is in Implementation Phase and construction commenced July 27, 2015. As a result of geotechnical and construction challenges that the Project faced in 2017, river diversion has been re-sequenced to occur in 2020. However, BC Hydro had one year of float in the Project's schedule and expects to deliver the Project on time by November 2024.

Beginning in August 2017, the Project was subject to an inquiry by the Commission, which provided a report to the B.C. Government on November 1, 2017. This led to a decision announced by the Provincial Government on December 11, 2017 to proceed with the Project.

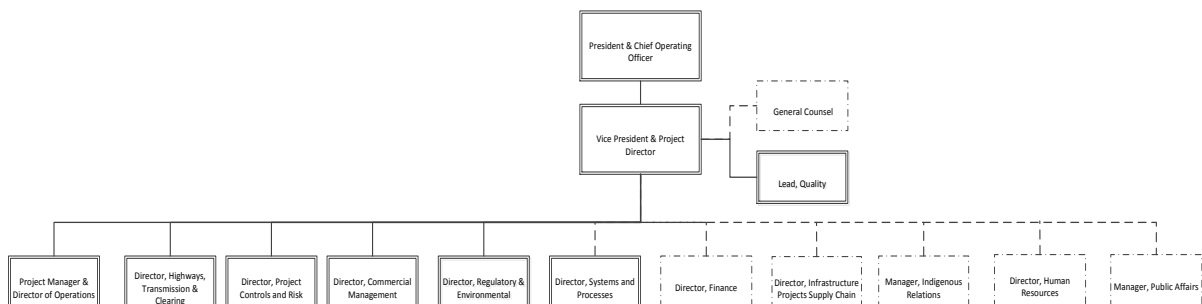
As a result of the change in timing for river diversion and other factors, including an increase in direct and indirect costs, BC Hydro presented a revised cost estimate of \$10.7 billion to the Board of Directors in December 2017.

The Site C organizational structure was recently reviewed with input from the Executive Team, Project Board, and Ernst and Young. The scale and complexity of operations has increased as the Project ramps up delivery for the generating station

and spillways, transmission, clearing, and highways. As a result, added depth in project delivery resources will be a key focus in the year ahead. At the same time, shifts have been made to ensure that project oversight and enabling resources have been centralized to provide optimal services across all delivery areas.

The project team has entered a transitional phase as it fills a number of Director level positions within Project Delivery, Project Controls, Commercial Management, and Quality. As these positions are filled there will be further shifts to the structure and further consolidation of the functional reports to the Vice President of Site C. Completing the project safely is the top priority for the project. Accountability for safety is embedded within all roles in the project organization, especially the construction management roles. The team is also reviewing additional ways to ensure there is a high focus on safety related to all project activities, and this may result in future revisions to the project organization chart.

Figure 2-1 Project Organizational Structure



As per BC Hydro’s standard Project & Portfolio Management Practices, the Site C project has developed and updated a number of key project plans and documents including, but not limited to:

- Statement of Objectives
- Project Governance, Organizational and Human Resources Plan
- Work Package Agreements

-
- Project Management Plans including:
 - ▶ Schedule Management Plan
 - ▶ Cost Management Plan
 - ▶ Contingency Management Plan
 - ▶ Project Change Control Plan
 - ▶ Risk Management Plan
 - Procurement Plan
 - Design and Quality Management Plan
 - Construction and Contract Management Plan
 - Construction Environmental Management Plan
 - Regulatory and Permitting Management Plan
 - Labour Strategy Plan
 - Safety Management Plan

The Site C Project uses BC Hydro's standard Project & Portfolio Management processes, procedures and tools, which include a resource loaded schedule, progress measurements and metrics, project performance indicators, a project risk register and project change control log. The standard processes and tools are enhanced as required due to the scope and scale of the Site C Project. During the reporting period, BC Hydro implemented supplemental tools and processes to accommodate the complexity of the Project, including a contract management system, an environmental compliance data management system, operational performance dashboard and submittal workflows. Over the next year, process and technology improvements will continue focused on project delivery scopes of work.

Design efforts will continue for the Main Civil Works, turbines and generators, generating station and spillways, highways and transmission scopes of work, over the next year.

Construction activities will continue to ramp up for Main Civil Works in order to progress work on the powerhouse Roller-Compacted Concrete buttress and prepare for river diversion. The Turbines and Generators contractor, Voith Hydro Inc., completed their on-site manufacturing facility in summer 2017 and began to fabricate their components. In early 2018, the second largest single contract will be awarded for the Generating Station and Spillways civil works contractor and mobilization is expected in late spring 2018. In addition, procurements are underway and expected to be concluded for the Generating Station and Spillways hydromechanical equipment, Transmission lines construction and Substation in early 2018.

Construction of access roads and clearing will continue for both the reservoir areas and the transmission line corridor. Work will recommence for the Highway 29 realignments. This will include a tendering process led by the Ministry of Transportation and Infrastructure.

The Project will continue to be advanced by securing the appropriate permits, Leaves to Commence Construction, performing environmental monitoring and assessment, continuing work programs for fish and habitat, vegetation management and heritage as well as continued Aboriginal and community engagement activities.



3 Summary of Project – October 2016 to December 2017

3.1 Overview and General Project Status

Construction began on July 27, 2015 and is ongoing. Since the commencement of construction, the following work has been completed:

- Site preparation, including on-site access roads,
- Clearing of the north and south banks at the dam site,
- North bank cofferdams,
- Construction of the worker accommodation lodge and Peace River construction bridge,
- Powerhouse excavation,
- Construction of dam site access public roads, and
- Construction of the Site C viewpoint.



3.2 Aboriginal Consultation

Pursuant to the Environmental Assessment Certificate and Federal Decision Statement, BC Hydro is required to consult with 13 Indigenous groups with respect to the construction stage of the Project. This consultation includes provision of information on construction activities, support for the permit review process, and review and implementation of mitigation, monitoring and management plans, and permit conditions. Efforts are ongoing to conclude agreements with ten Indigenous groups.

3.3 Labour, Employment and Training Initiatives

3.3.1 Labour Relations

To date, unions that have participated in the construction of Site C include: Construction Maintenance and Allied Workers (**CMAW**), the Christian Labour Association of Canada (**CLAC**) Local 68, Canada West Construction Union, Pile Drivers 2402, the Construction and Specialized workers Union (**CSWU**), Local 1611, the International Union of Operating Engineers (**IUOE**) Local 115, and the Ironworkers Local 97, the International Brotherhood of Electrical Workers, MoveUP and the Teamsters Local 213.

In addition, ten unions affiliated with the BC Building Trades will be working on the installation of the turbines and generators. The International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers and Helpers (Boilermakers Union) members have been working on this contract as of September 2017.

The Aecon-Flatiron-Dragados-EBC Partnership (the preferred proponent for the Site C Generating Station and Spillways) has signed a Project Labour Agreement for the Generating Station and Spillways civil works with the IUOE Local 115, the CSWU Local 1611 and the CMAW.

As with other major construction projects in B.C., there remains the possibility that union activity could occur at certain periods during the length of the Project. To date there have been two successful union organizing drives on the Project and one unsuccessful union raid attempt, with no site disruption.

BC Hydro has implemented a Contractor Labour Committee, to support labour stability on the site, as well as including labour stability terms such as no strike, no lockout, and no raiding provisions in major contracts on the site to support labour stability. BC Hydro has also entered into a Memorandum of Understanding with certain British Columbia Building Trades unions to enhance labour stability on site.

3.3.2 Employment and Training Initiatives

3.3.2.1 *Site C Project Training and Employment Informational Day*

In March 2017, BC Hydro met with regional employment agencies, local training institutions and organizations and Site C contractors onsite to facilitate discussions regarding regional hiring concerns. During roundtable discussions, groups discussed training and employment needs and how these groups can assist each other in employing and training individuals to meet project needs.

3.3.2.2 *Indigenous Labour Subcommittee*

In September 2017, the Contractors Labour Committee agreed to establish an Indigenous Labour Subcommittee. The purpose of the subcommittee will be to support Indigenous training, labour and employment on Site C, through communication, consultation, coordination and cooperation among contractors on the Project.

3.3.2.3 *Job Opportunities*

BC Hydro continues to work with local employment agencies to ensure job opportunities are posted on the WorkBC website as well as on the Fort St. John Employment Connections website. In December 2017, Site C contractors

reported 322 workers on site from the Peace River Regional District. This is 31 per cent of the total of the construction and non-construction contractor's workforce.

Site C contractors continue to participate in regional jobs fairs throughout the reporting period. Peace River Hydro Partners and ATCO Two Rivers Lodging Group have participated in both Dawson Creek and Fort St. John regional job fairs. Peace River Hydro Partners has also worked with Employment Connections to host a job fair specifically focused on workers required for upcoming positions related to the Roller-Compacted Concrete work.

3.3.2.4 *Apprentice and Training Programs*

In fall 2016, Saulteau First Nations, the Christian Labour Association of Canada, the Industry Training Authority and Peace River Hydro Partners worked together to provide Construction Craft Worker Level 1 apprentice training through an in-community training-to-employment program. In December 2016, ten youths from the Saulteau First Nations completed the Construction Craft Worker Level 1 apprentice program and were offered employment with Peace River Hydro Partners.

BC Hydro has contractually required Site C contractors to comply with the Provincial Government policy as per the terms of the "Apprentices on Public Projects in B.C." which requires contractors to demonstrate they are engaged in apprenticeship training and use apprentices on the work site.

BC Hydro has also included apprentice targets in the Main Civil Works contract. In addition, the contracts for the Generating Station and Spillways Civil Works, the Transmission lines, and the Substation have apprentice targets included. The Aecon-Flatiron-Dragados-EBC Partnership has also committed to providing opportunities for apprentices that include a goal of up to 25 per cent apprenticeships on the Project.

3.3.2.5 Northern Lights College Foundation Bursary

BC Hydro has provided \$1 million in funding to the Northern Lights College Foundation over a five-year period to support the development of skilled workers in northeast B.C., which aims to assist students who may not otherwise have access to post-secondary education. Fifty per cent of the funding for bursaries is dedicated to Indigenous students. As of December 2017, 201 students had received bursaries, including 78 Indigenous students who have benefitted from the bursary in programs such as electrical, welding, millwright, cooking, social work, and many others.

3.3.2.6 Employment Statistics

Contractors submit monthly workforce data electronically to BC Hydro. [Table 3-1](#) shows a snapshot of the total number of construction contractors, non-construction contractors, engineers, and project team workers for this period. As with any construction project, the number of workers — and the proportion from any particular location — will vary month-to-month and also reflects the seasonal nature of construction work.

**Table 3-1 Site C Jobs Snapshot Reporting Period
 – October 2016 to December 2017**

Month	Number of B.C. Primary Residents*	Number of Total Workers*
October 2016	1,589	1,868
November 2016	1,471	1,796
December 2016	1,572	1,916
January 2017	1,719	2,124
February 2017	1,804	2,211
March 2017	1,814	2,252
April 2017	1,800	2,212
May 2017	2,027	2,522
June 2017	2,125	2,633
July 2017	2,059	2,549
August 2017	1,900	2,357
September 2017	1,917	2,375
October 2017	1,607	1,974
November 2017	1,353	1,681
December 2017	1,273	1,525

* Employment numbers provided by Site C contractors and consultants are subject to revision. Data not received by project deadline may not be included in the above numbers. Employment numbers are direct only and do not capture indirect or induced employment.

Total workers include:

- Construction and Non Construction Contractors performing work on Site C dam site, transmission corridor, reservoir clearing area, public roadwork, worker accommodation and services.
- Engineers and Project Team that is comprised of both on site and off site workers.
- The Project Team, which includes consultants, BC Hydro Construction Management and other offsite Site C project staff. An estimate is provided where possible if primary residence is not given.

3.4 Permits and Government Agency Approvals

3.4.1 Background

Before the Site C Project could start construction, an extensive environmental assessment process was undertaken which resulted in the issuance of the Provincial Environmental Assessment Certificate and the Federal Decision Statement in support of the Project. In addition, the Project is required to apply for multiple provincial permits, water licences, leaves to commence construction and federal authorizations. Multiple conditions are attached to each permit or authorization,

which covers subjects such as air quality, water quality, fish and aquatics, wildlife, heritage, health and safety, construction environmental management and First Nations consultation. Each of the conditions must be implemented, audited and tracked to prove compliance or identify issues for follow-up with corrective actions. BC Hydro has developed a comprehensive Construction Environmental Management Plan which outlines how we will comply with the Project permits and authorizations.

[Table 3-2](#) below provides a list of provincial permits and approvals issued to date. [Table 3-3](#) below provides a general list of pending and future permit requirements. [Table 3-4](#) below provides an overview of the number of conditions per the Environmental Assessment Certificate and Federal Decision Statement.

3.4.2 Provincial Permits

Site C requires provincial authorizations at various stages throughout the life of the Project. These authorizations include investigative permits, licences to occupy, leaves to commence, leaves to construct, licences to cut and water licence approvals, among others. Permit applications are sequenced with the overall schedule of the Project to ensure most current and factual is included in the submissions. All future permits are anticipated to be issued in accordance with the Project construction schedule. A summary of provincial permits is provided below in [Table 3-2](#).

Additionally, any deviation from the Environmental Assessment Certificate condition or Schedule A Project Description or Canadian Environmental Assessment Agency Decision Statement may require amendment approval by the Environmental Assessment Office or approval from Canadian Environmental Assessment Agency. On December 18, 2017 a draft amendment submission was provided to the Environmental Assessment Office for changes in design to the Generating Station

and Spillways. Receipt of the amendment is anticipated for summer 2018, aligned with the Project schedule.

Table 3-2 Provincial Permits and Approvals Issued to Date

Project Component	Act/Permit	Tenure Type/Purpose	Approval Dates
Dam Site Area and Moberly River	<i>Land Act</i>	Licence of Occupation for Dam Site Area, Area A, RSEM L3, Wilder Road Extension, Public Safety Booms, Downstream Contouring, Moberly Clearing	July 7, 2015, July 13, 2017, November 14, 2017
	<i>Forest Act</i>	Occupant Licences to Cut for North Bank, RSEM L3, South Bank, Wilder Road, Public Safety Booms, Downstream Contouring	July 7, 2015, July 13, 2017
	<i>Mines Act</i>	<i>Mines Act</i> Notices of Work for Area A, 2015 and 2015-2022	July 24, 2015 & January 1, 2016 (Permits rescinded)
	<i>Water Act/Water Sustainability Act</i>	Short Term Use of Water for Dam Site / Moberly River Area/GSS and Instream Works for River Road, Peace River Construction Bridge, instream contouring, Septimus Siding, Moberly Clearing Bridge, Worker Camp Water Supply Intake, L3 Ravine, Main Channel Bar excavation and various Notifications for stream crossings	July 7, 2015 to July 25, 2016, 2017 to December 13, 2017
	<i>Wildlife Act</i>	Capture and relocation of fish, Peace River Fish Community Monitoring, Amphibian Salvage, Scientific Fish Collection	July 7, 2015 to June 30, 2016
Highway 29 Realignment	<i>Agricultural Land Act</i>	Order in Council for Highway 29 between Hudson's Hope and Charlie Lake	December 16, 2015
	<i>Land Act</i>	Temporary Licence of Occupation for geotechnical investigations at Cache Creek and Halfway River, Temporary Licences of Occupation for geotechnical investigations and construction at Cache Creek and Peaceview Borrow Area	June 20, 2016 & September 8, 2016, April 27, 2017, September 13, 2017
	<i>Forest Act</i>	S.52 and Occupant Licence to Cut to harvest crown timber at Cache Creek and Halfway River for geotechnical investigations and construction	June 20, 2016 and September 8, 2016, May 1, 2017
	<i>Water Sustainability Act</i>	Approval for instream works at Cache Creek and Halfway River for geotechnical investigations, Cache Creek crossing, Cache Creek culverts and Short Term Use of Water for construction	June 20, 2016 and September 6, 2016, April 28, 2017, July 21, 2017

Project Component	Act/Permit	Tenure Type/Purpose	Approval Dates
Quarries/Pits	<i>Land Act</i>	Licences of Occupation for Del Rio Pit, Portage Mountain Quarry, West Pine Quarry	July 7, 2015 to March 11, 2016 to
	<i>Forest Act</i>	Occupant Licence to Cut for Portage Mountain Quarry and West Pine Quarry	March 11, 2016, December 9, 2016
	<i>Water Act/Water Sustainability Act</i>	Short Term Use of Water for Portage Mountain Quarry, West Pine Quarry	July 7, 2015 (renewed December 9, 2016) and March 11, 2016
	<i>Mines Act</i>	Mines Permit and Notices of Work for West Pine Quarry, Wuthrich Quarry, Del Rio Pit, Portage Mountain Trial Blast	July 7, 2015 to March 29, 2016, December 15, 2016, May 15, 2017
Reservoir	<i>Land Act</i>	Licences of Occupation for Halfway River Debris Boom, Reservoir Slope Geotechnical Monitoring and Eastern Reservoir Clearing	August 25, 2016, December 12, 2016
	<i>Forest Act</i>	Occupant Licence to Cut for Halfway River Debris Boom, Eastern Reservoir Clearing	August 25, 2016, December 12, 2016
Transmission Line	<i>Land Act</i>	Licences of Occupation for PCN Connection, South Bank Slope, One time clearing along Transmission Line	October 21, 2016, November 30, 2016
	<i>Forest Act</i>	S.52 for South Bank Slope for Centreline Survey, Ice Bridge 3 Road, Transmission Line Security Trees, Occupant Licence to Cut for Transmission Line	October 21, 2016 to February 24, 2017
	<i>Water Sustainability Act</i>	Approvals for Wetlands along transmission line, Notifications for temporary crossings of streams	April 29, 2016 to August 21, 2017
Project Wide	<i>Water Sustainability Act</i>	Conditional Water Licences 132990 and 132991. Leaves to Commence Construction 1-8 and associated Leaves to Construct for Main Civil Works, Reservoir Clearing, and geotechnical investigations for Hudson's Hope Berm and Halfway River Debris Boom	February 26, 2016; April 1, 2016 to July 21, 2017
	<i>Agricultural Land Commission Act</i>	Temporary and permanent removal of agricultural lands from the Agricultural Land Reserve	April 8, 2016
	<i>Heritage Conservation Act</i>	S12 Alteration and S14 Inspection Permits and amendments	July 15, 2016 to March 31, 2016
	<i>Land Act</i>	Notice of Intent for Wildlife Structures	August 19, 2017
	<i>Wildlife Act</i>	Removal of Beaver Dams (Construction) and Eagle Nests	July 7, 2016
		Capture, Herd and Sample Animals for Monitoring of Project Effects	March 1, 2016
	Amphibian and Reptile Salvage	June 30, 2016	

3.4.3 Federal Authorizations

Federal authorizations are required under the *Fisheries Act* (Fisheries and Oceans Canada) and the *Navigation Protection Act* (Transport Canada). All major Federal authorizations for construction and operation of the Site C dam and reservoir were received in July 2016. At this time, no further *Fisheries Act* authorizations are anticipated. Additional *Navigation Protection Act* approvals for discrete works in the reservoir (e.g., shoreline works, debris booms and Highway 29 bridges) are anticipated to be issued at the regional level.

In November 2017, the Canadian Wildlife Service added bank swallows to the *Species at Risk Act* requiring a Canadian Wildlife Service permit to disturb bank swallow burrows. Colonies of burrows have been identified in portions of the dam site and potentially along some portions of the future reservoir. As such, Site C will be applying for a Canadian Wildlife Service permit to disturb any bank swallow burrows within the Project footprint in early 2018.

Table 3-3 General List of Pending and Future Permit and Approval Requirements

Project Component	Act/Permit/Approval	Tenure Type/Purpose	Forecast Date
Pending Permits and Approvals – Applications Submitted, Decision Pending			
Dam Site Area and Moberly River	<i>Land Act, Water Sustainability Act</i>	Crown Grant for Dam and Generating Station, Widening of Peace River Construction Bridge, Surface Water Withdrawal	January 2018 & May 2018
Transmission Line	<i>Forest Act, Land Act, Water Sustainability Act</i>	Crown Grant for Substation, Transmission Line Access Roads, Septimus Wetlands, Tower Foundations Wetland Impact	January to March 2018
Reservoir	<i>Forest Act, Land Act</i>	Cache Creek Drainage Clearing	February 2018
Quarries/Pits	<i>Mines Act, Water Sustainability Act</i>	Portage Mtn. Quarry STU and Notice of Work	March 2018 and May 2018
Highway 29 Realignment	<i>Forest Act, Land Act, Water Sustainability Act</i>	Highway 29 Western Segment Investigations at Farrell/Farrell East, Lynx and Dry Creek	April 2018
Fish Passage	<i>Water Sustainability Act</i>	Construction of fish passage facility	January 2018
Project Wide	<i>Wildlife Act</i>	Marmot and woodchuck trapping, Scientific Fish Collection	January 2018 and April 2018

Project Component	Act/Permit/Approval	Tenure Type/Purpose	Forecast Date
Future Permits and Approvals – Applications to be Submitted			
Project Wide	<i>Water Sustainability Act</i> Leaves to Commence Construction and Operation (and related sub-leaves, or Leaves to Construct) SARA Damage or Danger Permit under section 26 of the Migratory Birds Regulations that, in accordance with <i>Species at Risk Act</i> sections 73 and 74	Leave to Commence Construction and Leave to Construct are currently being confirmed in consultation with contractors, Independent Engineer, Independent Environmental Monitor and Comptroller of Water Rights. Relocate or remove bank swallow burrows at the dam site	January 2018 to 2023 April 1, 2018
Highway 29 Realignment	<i>Forest Act, Land Act, Water Sustainability Act</i> <i>Forest Act, Land Act, Water Sustainability Act</i> <i>Forest Act, Land Act, Water Sustainability Act</i>	Cache Creek Construction Construction – Halfway River Construction – Dry Creek, Lynx Creek, Farrell Creek (east)	TBD January 2019 February 2020 to April 2020
Main Civil Works	<i>Water Sustainability Act</i>	Approval for Septimus Laydown wetlands, Short Term use of Water renewals	May 2018, 2019 to 2023
Transmission Line	<i>Water Sustainability Act, Wildlife Act</i>	Approval for stream impact, Fish Collection	January 2020, April 2018
Quarries/Pits	<i>Mines Act, Water Sustainability Act</i>	Mining at Portage Mountain Quarry for Highway 29 works, Short term use renewals for West Pine and Portage	2018 to 2023

Project Component	Act/Permit/Approval	Tenure Type/Purpose	Forecast Date
Reservoir	<i>Forest Act, Land Act, Water Sustainability Act, Wildlife Act</i>	Clearing of central and western reservoirs; construction of Hudson's Hope Shoreline Protection; installation of debris booms; capture and salvage of wildlife during reservoir filling	August 2018 and beyond

Assumptions

- Permit requirements listed are general in nature. Additional permits may be identified and required under the various acts as detail design and construction proceeds for the different Project components.
- The date required is subject to change based on changes to the construction design, methods and/or schedule and the consultation process currently being discussed with the Province, Department of Fisheries and Oceans and Transport Canada.

[Table 3-4](#) provides an overview of Provincial Environmental Assessment Certificate and Federal Decision Statement conditions. As of the end of this reporting period, all required conditions and submissions have been met in accordance with the schedule and requirements of the conditions.

Table 3-4 Overview of Provincial Environmental Assessment Certificate and Federal Decision Statement Conditions

Type	Number of Environmental Assessment Certificate Conditions	Number of Federal Decision Statement Conditions	Notes
AQUATIC ENVIRONMENT			
Hydrology, Water Quality	3	12	Monitoring and management of hydrology, fluvial geomorphology and sediment transport, and water quality.
Downstream Monitoring		5	Analysis of model predictions using existing data (Peace Athabasca Delta).
Fish & Fish Habitat	4	10	Protecting riparian zones, including fish passage in design, and managing total dissolved gas.

Type	Number of Environmental Assessment Certificate Conditions	Number of Federal Decision Statement Conditions	Notes
Vegetation & Ecological Communities	7	9	Updating mapping, conducting pre-construction surveys, analyzing wetland function and replacing lost wetlands, protecting rare plants.
Species at Risk		6	Ensuring that potential effects are addressed and monitored.
Wildlife Resources	10	17	Providing bird windows and identifying mitigation measures for migratory and non-migratory birds, bats, snakes, and fishers.
Current Use	4	4	Mitigating Indigenous plant use and ground truthing measures to inform additional measures.
LAND AND RESOURCE USE			
Harvest of Fish & Wildlife	1		Compensating guide outfitters & trap line holders.
Agriculture	2		Establishing a \$20 million fund and monitoring.
Other Resource Industries	3		Addressing surplus aggregate, and interface with oil & gas producers.
Transportation	4		Controlling access, providing carpool plans, monitoring traffic and delivering appropriate signage.
Outdoor Recreation & Tourism	3		Building boat launches and recreation fund, compensating camp ground owners, and informing downstream Alberta fishers.
COMMUNITY			
Community Infrastructure	6		Mitigating effects on waste management, sewage and water systems.
Housing	2		Building 50 rental units in Fort St. John and providing camp accommodation for workers.
Regional Economic Development	6		Providing funds for Hudson's Hope, non-profits, labour/training plans, and community recreation.

Type	Number of Environmental Assessment Certificate Conditions	Number of Federal Decision Statement Conditions	Notes
HUMAN HEALTH			
Air Quality	3	7	Monitoring of ambient air quality, noise and vibration.
Water Quality	1		Monitoring of potable and recreational water quality.
Methylmercury	1	7	Monitoring of accumulation in fish, including collection, timing and reporting requirements.
HERITAGE RESOURCES			
Visual Resources	1		Managing landscape views through design of facilities exteriors and landscaping.
Heritage	3	6	Developing a Heritage Management Plan, and providing funding for storage.
ENVIRONMENTAL PROTECTION & MANAGEMENT			
Greenhouse Gas Monitoring	1		Monitoring greenhouse gas emissions.
Environmental Management Plans	4		Providing required plans and establishing requirement for an Independent Environmental Monitor.
Safety Management Plans	2		Developing and implementing Worker and Public Safety, Traffic Management, and Fire Protection Plans.
Dam Safety	2		Undertaking a dam breach assessment and supporting emergency management in Alberta.
Mitigation, Monitoring & Development Plans	4		Providing required mitigation Plans, Quarry Development, Communications and Business Participation Plans.
Accidents & Malfunctions		6	Providing required plan and consultation with Environment Canada on effects of potential accidents and malfunctions on environment.

Type	Number of Environmental Assessment Certificate Conditions	Number of Federal Decision Statement Conditions	Notes
ADMINISTRATIVE			
General Conditions		4	Using science to inform plans and carry on consultation as appropriate.
Implementation Schedule		3	Providing an implementation schedule for conditions 90 days in advance of activity.
Record Keeping		2	Retaining records in a manner that facilitates compliance review.
	77	98	

3.5 Compliance

Compliance with the Project conditions is regularly monitored, and evidence is collected by various federal and provincial regulatory agencies, the Independent Environmental Monitor, BC Hydro and contractors.

3.5.1 Technical Committees Required under Schedule A of the Conditional Water Licence

BC Hydro has established a Vegetation and Wildlife Mitigation and Monitoring Technical Committee and a Fisheries and Aquatic Habitat Mitigation and Monitoring Technical Committee as a requirement of Schedule A of the Conditional Water Licence. These committees serve to advise the Water Comptroller on establishment of species-specific functional baselines and the implementation of BC Hydro's Mitigation, Monitoring and Management Plans. The technical committees have met through 2017 and developed draft species specific mitigation and monitoring plans. The committees are expected to complete the development of all mitigation and monitoring plans in early 2018 and move into further monitoring and mitigation initiation through 2018 and 2019.

3.5.2 Agricultural Mitigation and Compensation Plan Framework

BC Hydro submitted the updated Agricultural Mitigation and Compensation Plan on September 25, 2017 to the Environmental Assessment Office. The final plan reflects the requirements of the Environmental Assessment Certificate condition 30; consultation feedback from regional agricultural stakeholders including directly affected land owners and tenure holders, Peace Region agricultural associations and local stakeholders; Ministry of Agriculture and Ministry of Energy, Mines and Petroleum Resources, legal and financial advice; and background information including the Environmental Impact Statement and the Joint Review Panel Hearing report.

Implementation of the \$20 million BC Hydro Peace Agricultural Compensation Fund is anticipated to begin in early 2018. BC Hydro will establish the board made up of representatives from five regional agricultural organizations, the Peace River Regional District, three agricultural producer members-at-large and one Peace River Valley agricultural producer. Concurrently, BC Hydro will also post a public Request For Proposals for the fund administrator, who will provide financial management, board secretariat and fund application process services. The \$20 million will be transferred into the fund once BC Hydro approves the financial management plan prepared by the fund administrator and receives feedback from the board.

3.5.3 Heritage Resources

In accordance with a number of Environmental Assessment Certificate conditions and Federal Decision Statement conditions, the Site C Heritage Management Resource Plan addresses the measures that will be used to mitigate the adverse effects of the Project on heritage resources.

Field work for the 2017 Heritage Program was completed in October 2017, and then permit reporting began and is to be completed and submitted to the regulator and relevant First Nations by March 31, 2018. Heritage compliance reviews of contract

documents, contractor environmental plans and construction readiness plans were performed to ensure compliance. Heritage chance finds were investigated as required. Planning was started for the 2018 Heritage Program field work to meet regulatory requirements for pre-construction archaeological impact assessments in areas not accessible until now, systematic data recovery at selected archaeological sites, and palaeontological inspections.

3.5.4 Community - Local Government Liaison

There are a number of Environmental Assessment Certificate conditions that are relevant to local communities in the vicinity of the Project. BC Hydro is implementing some of these conditions through community agreements offered to five local governments. Through these discussions BC Hydro has, in some instances, agreed to additional measures to address concerns about local community impacts from construction and operation of the Project.

BC Hydro has concluded four community agreements in respect of the Project, with the District of Taylor (2013), the District of Chetwynd (2013), the City of Fort St. John (2016) and the District of Hudson's Hope (2017). BC Hydro and the City of Fort St. John have established a Community Agreement Monitoring Committee to jointly oversee implementation of the community agreement. BC Hydro continues to work cooperatively with the City of Fort St. John, District of Hudson's Hope, District of Taylor and the District of Chetwynd to oversee implementation of their respective agreements.

Subsequent to the reporting period, the Regional Community Liaison Committee, which is comprised of local elected officials and local Indigenous groups, met on January 31, 2018. A total of 11 communities have participated as committee members, including eight local governments and three local Indigenous groups (McLeod Lake, Doig River and Blueberry River) as well as the two MLAs for Peace River North and Peace River South. Representatives from the Project's major

contractors have also attended the meetings as invited guests, including Peace River Hydro Partners, ATCO Two Rivers Lodging Group and the Ministry of Transportation and Infrastructure.

3.5.5 Community - Business Liaison and Outreach

BC Hydro has continued to implement its business participation program during the reporting period. Throughout 2016 and 2017, BC Hydro provided notification of major contract opportunities and awards to the Site C business directory, as well as to local chambers of commerce, construction associations and economic development commissions. Notification of other public contract opportunities, including Requests For Proposal posted to BC Bid, was also issued through the Site C business directory. The Site C business directory was shared with key contractors.

3.5.6 Community - Housing Plan and Housing Monitoring and Follow-Up Program

On July 19, 2016, BC Hydro and BC Housing signed a contribution agreement related to the development, construction and operation of a building in Fort St. John comprised of 50 residential rental units. This agreement is the outcome of detailed discussions between the two partners to find the most appropriate approach to meeting Condition 48 and the housing terms of the Community Measures Agreement with the City of Fort St. John. The agreement structured the financial contribution from BC Hydro to enable financially viable operation of the 10 affordable housing units in the near-term and financially viable operation of all 50 units of affordable housing in the longer term.

The housing project is currently under construction by Western Canadian Properties Group and on track for substantial completion in December 2018. The housing project will be a Certified Passive House standard to provide the opportunity to showcase the project's energy efficiency features. The City of Fort St. John has

been a strong advocate for Passive Houses and will partner with BC Hydro in showcasing the building as a demonstration project for energy efficient building techniques.

3.5.7 Community - Labour and Training Plan

In accordance with an Environmental Assessment Certificate condition, a Labour and Training Plan was developed and submitted to the Environmental Assessment Office on June 5, 2015. This plan includes reporting requirements to support educational institutions in planning their training programs to support potential workers in obtaining project jobs in the future. This report was issued to the appropriate training institutions in the northeast region of B.C. in July 2017.

This plan and Environmental Assessment Certificate Condition 45 also require the establishment of a daycare. BC Hydro provided \$1.8 million to School District 60 (Peace River North) to support the development of a new childcare centre with a minimum of 37 spaces. The daycare is under construction as part of a new school in Fort St. John and in January 2018, School District 60 announced the YMCA as their selected daycare operator. The daycare is anticipated to open in July 2018.

3.5.8 Human Health

3.5.8.1 Health Care Services Plan and Emergency Service Plan

The Project health clinic is contracted by BC Hydro with Halfway River International SOS Medical Ltd., a partnership between Halfway River First Nation and International SOS. The clinic continues to operate in its permanent location within the Two Rivers Lodge, and based on camp occupancy was staffed 24/7 during this period with a nurse practitioner and advanced care paramedics.

BC Hydro and the clinic operator continue to liaise with the local health care community. BC Hydro held the annual Joint Health Care Services meeting with Northern Health, WorkSafeBC, BC Ambulance, contractor safety staff and

International SOS on October 30, 2017 to review the previous year and address any concerns.

Since opening the Project health clinic, there have been a total of 4,715 patient interactions. Over this annual reporting period, 3,732 patient interactions took place, including 774 occupational visits and 2,958 non-occupational visits. The breakdown of interactions is as follows: In the reporting period from October 2016 to December 2016, 785 patient interactions took place, including 112 occupational visits and 673 non-occupational visits. In the reporting period from January 2017 to March 2017, 1,085 patient interactions took place, including 164 occupational visits and 921 non-occupational visits. In the reporting period from April 2017 to June 2017, 720 patient interactions took place, including 150 occupational visits and 570 non-occupational visits. In the reporting period from July 2017 to September 2017, 742 patient interactions took place, including 235 occupational visits and 507 non-occupational visits. In the reporting period from October 2017 to December 2017, 400 patient interactions took place, including 113 occupational visits and 287 non-occupational visits.

3.5.9 Community Relations and Consultation

BC Hydro continued to implement its construction communications program during the reporting period. BC Hydro maintained a public information program, a consultation office (by appointment only) and public enquiries program. Where feasible, the Project provided site tours and presentations to key stakeholders.

3.5.10 Bi-Weekly Construction Bulletins

Issuance of bi-weekly construction bulletins commenced in July 2015, and bulletins were issued throughout the reporting period. Bulletins are posted on the Project website and sent by email to the web subscriber list.

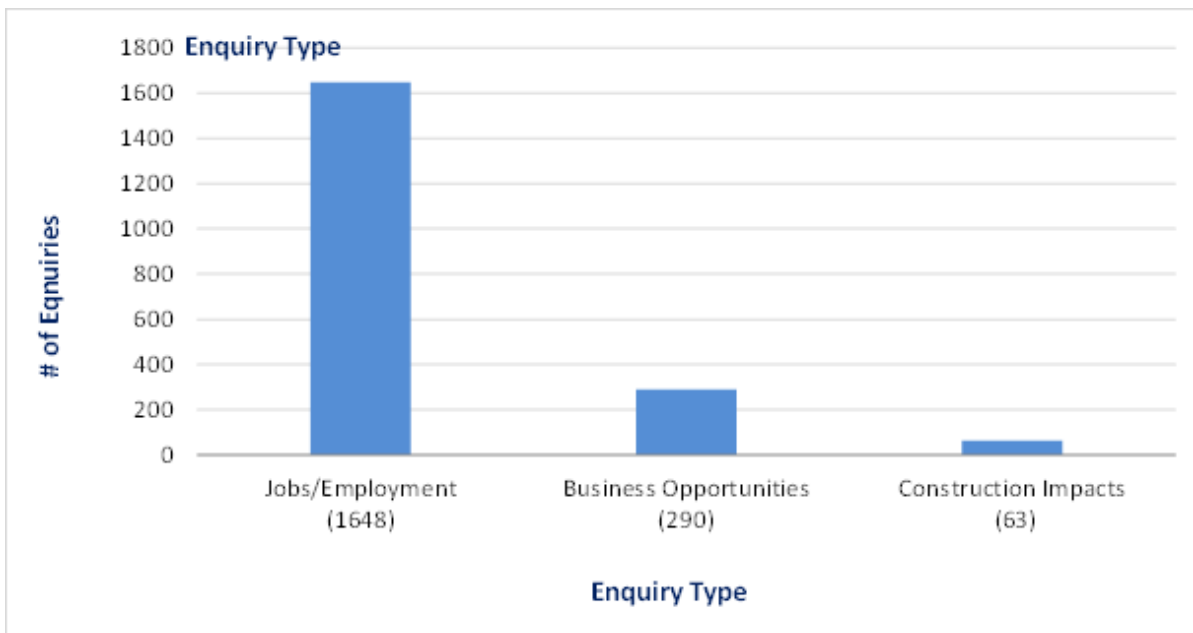
3.5.11 Project Website

The Project website www.sitecproject.com is maintained with news releases, construction bulletins, information sheets, a project schedule, procurement information, permits, regulatory compliance plans and reports, project reports and other project-related information.

3.5.12 Public Enquiries

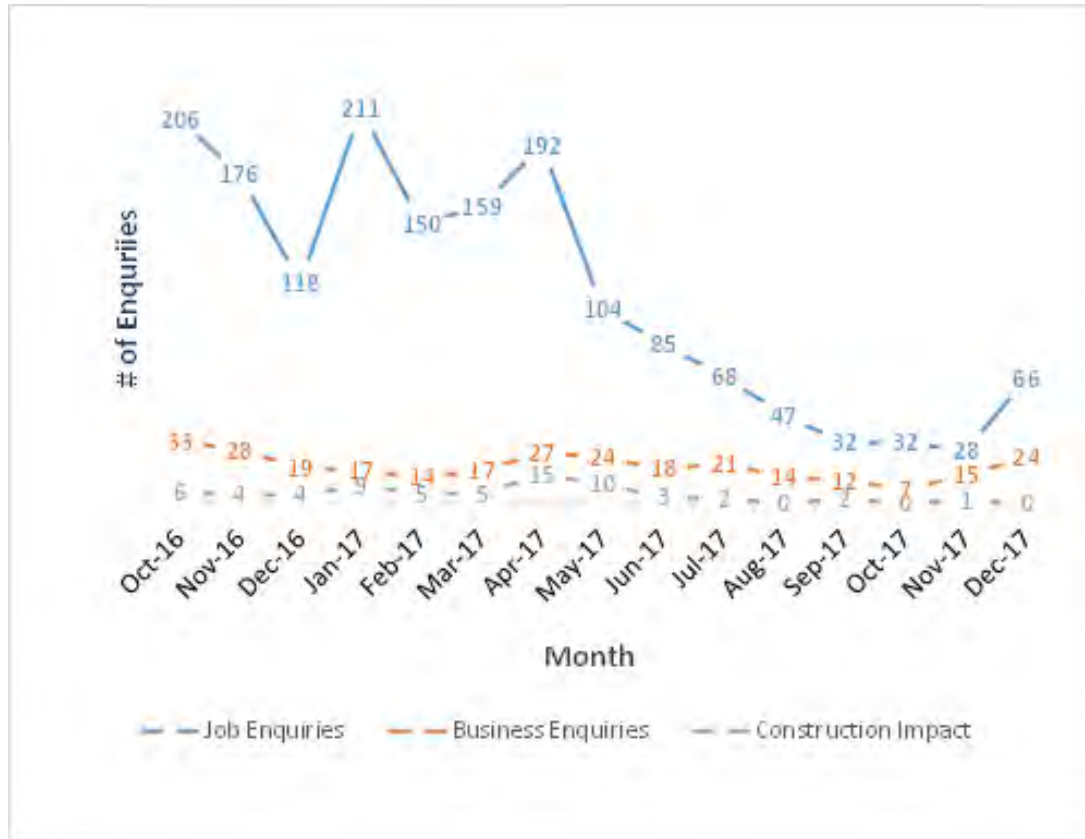
In total, BC Hydro received 2,284 public enquiries between October 1, 2016 to December 31, 2017. The majority of these enquiries were about business and job opportunities, followed by enquiries from local residents about construction impacts. The figures below show the number of enquiries overall by type ([Figure 3-2](#)) and by month and type ([Figure 3-3](#)).

Figure 3-2 Top Enquiry Topics, October 1, 2016 to December 31, 2017



* This graph is a sample of enquiry types and does not include all enquiry types received. The nature of the construction impact inquiries is primarily air quality, noise and traffic conditions.

Figure 3-3 Trends in Jobs/Employment, Business Opportunities and Construction Impact Enquiries



3.5.13 Communications Activities

During the second year of Project construction, media interest in the Project has remained strong. Based on a search using the media database Infomart, there were approximately 4,200 media stories in the October 2016 to December 2017 period about the Site C Project. This is an increase of over 1,000 from the previous reporting period.

3.5.14 Environmental Compliance Inspections

Throughout 2017 the Site C project was inspected by provincial and federal regulators from the Water Comptrollers’ Office, the Environmental Assessment

Office, the Ministry of Forests, Lands, Natural Resource Operations and Rural Development, the Ministry of Energy, Mines and Petroleum Resources and the Canadian Environmental Assessment Agency. All agencies noted that environmental compliance has improved throughout 2017.

Agency	Number of Compliances	Number of Non-compliances	Number of Orders	Notes
Water Comptrollers' Office	0	0	0	No reports issued.
Environmental Assessment Office	8	9	2	Orders were from inspections conducted in 2016. For 2017, although some non-compliance noted, the inspection records indicate substantial compliance across the site.
Ministry of Forests, Lands, Natural Resource Operations and Rural Development	0	0	0	No reports issued.
Ministry of Energy, Mines and Petroleum Resources	0	0	0	No reports issued.
Canadian Environmental Assessment Agency	0	0	1	Orders were from inspections conducted in 2016. For 2017, no orders resulted from inspections. Post inspection verbal debriefs have outlined substantial compliance observed.

Site C staff met bi-weekly with provincial regulators to ensure ongoing focus and attention to the areas of most importance and concern for the regulators and to proactively address any environmental or regulatory issues that may arise.

Additionally, Site C employed both an Independent Environmental Monitor and an Independent Engineer that report directly to provincial regulators. The Independent

Environmental Monitor provided weekly reports that have also demonstrated substantial compliance across the Project while continuing to identify areas of focus for sediment and erosion control, water management and spill prevention. The Independent Engineer worked directly with site staff to proactively identify design issues that may impact the environment and develop mitigation plans to avoid or minimize impacts.

In 2017, BC Hydro increased onsite environmental compliance inspection resources and launched its internal Active Compliance Management Tool with more than 7,000 individual inspection points recorded since June 2017 with 90 per cent compliance or partial compliance.

3.6 Litigation

Nine judicial reviews of environmental approvals and Site C permits have been dismissed or discontinued. Four appeals were taken from those and three have been heard and dismissed. For two of those appeals, leave to appeal to the Supreme Court of Canada was sought and dismissed. The last appeal, which is for the judicial review of construction permits, is inactive and the appellants will need to apply to the court to proceed.

In addition, two Environmental Appeal Board proceedings appealing the water licences for the Project have been brought forward. One proceeding has been withdrawn and the other is being reviewed through written hearing expected to finish in July 2018. A ruling can be expected three to four months later.

Subsequent to the reporting period, on January 15, 2018 the West Moberly First Nations and the Prophet River First Nation each filed a Notice of Claim in B.C. Supreme Court asserting an infringement of Treaty 8 and seeking, among other remedies, an injunction against the issuance of government permits and approvals for Site C. West Moberly First Nations has filed an injunction application seeking to stop the construction of Site C pending the hearing of their civil claim.

The details of the various proceedings are summarized in [Table 3-5](#) below.

Table 3-5 Litigation Status Summary

Outcome		Date
Federal Court: Federal Environmental Approval		
Mikisew Cree Athabasca Chipewyan	Two judicial reviews were discontinued after agreements were reached with BC Hydro and the Federal Government	July 16, 2015
Peace Valley Landowner Association	Dismissed; no appeal filed	August 28, 2015
Prophet River First Nation West Moberly First Nations	Dismissed Appeal filed Hearing date Appeal Dismissed Leave to appeal to the Supreme Court of Canada Denied	August 28, 2015 September 30, 2015 September 12, 2016 January 23, 2017 June 29, 2017
Federal Court: Federal Permits		
BC Hydro Ratepayers Association	Notice of Application filed Discontinued	September 19, 2016 January 2017
B.C. Supreme Court: Provincial Environmental Assessment Certificate		
Peace Valley Landowner Association	Dismissed Appeal filed Appeal hearing held Appeal Dismissed	July 2, 2015 July 30, 2015 April 4 to April 5, 2016 September 15, 2016
Prophet River First Nation West Moberly First Nations	Dismissed Appeal filed Hearing date Appeal Dismissed Leave to appeal to the Supreme Court of Canada Denied	September 18, 2015 October 19, 2015 December 5 to December 8, 2016 February 2, 2017 June 29, 2017
B.C. Supreme Court: Provincial Permits		
Prophet River First Nation West Moberly First Nations	Injunction application dismissed Hearing of Petition complete Petition Dismissed Appeal filed Hearing date	August 28, 2015 November 17 to 23, 2015 and February 2, 2016 October 31, 2016 November 30, 2016 Appeal is inactive. First Nations require leave of court to proceed

Outcome		Date
Environmental Appeal Board		
West Moberly First Nations and Prophet River First Nation	Water Licence appeal filed	March 29, 2016
	Appeal Withdrawn	July 17, 2017
C. London	Water Licence appeal filed Hearing date	Written hearing of matter through until the middle of July 2018
Other Proceedings		
BC Hydro v. Boon et al. (Rocky Mountain Fort)	Civil claim filed	January 29, 2016
	Injunction decision	February 29, 2016
Building Trades v. BC Hydro	Civil claim filed	March 2, 2015
	Response to claim filed	April 10, 2015
Sierra Club of British Columbia	Judicial review filed	July 20, 2016
	Hearing date	January 27, 2016
	Discontinued	January 2017

3.7 Construction

3.7.1 Year Two Scope of Work

3.7.1.1 Main Civil Works

During this reporting period, on August 11, 2017, the composition of the Main Civil Works Joint Venture was amended due to withdrawal of Petrowest from the partnership. Petrowest was placed into receivership on August 15, 2017. Removal of Petrowest from the partnership is not expected to affect BC Hydro or construction of Site C in any major way.

The following overall production volumes/rates have been achieved since the start of construction:

- Excavation of 12.6 million cubic metres, including Left Bank, Approach Channel, Powerhouse, Stilling Basin, Spillway, Dam, Inlet Portal and Substation;
- Placement of 175,000 cubic metres of Roller-Compacted Concrete in the Stilling Basin and Powerhouse; and

-
- Placement of 1,285 panels for the Left and Right Bank and Inlet and Outlet Cofferdam Slurry Walls.

Construction progress at site currently is split between work on the Left Bank and Right Bank.

Left Bank

The critical work activities on the Left Bank are to stabilize the slope with a mass excavation and excavate a set of diversion tunnels in preparation for the earth embankment dam construction. Progression on both the slope mass excavations and inlet excavation for the diversion tunnels on the Left Bank have experienced delays during the reporting period.

In February 2017, a tension crack developed on the Left Bank Excavation while constructing a haul road resulting in the temporary stoppage of some construction excavation activities. BC Hydro and Peace River Hydro Partners agreed on a plan to stabilize the slope. Stage 1 work was completed in April 2017 and Stage 2 work was completed in June 2017. Construction recommenced on April 24, 2017 with contract costs and schedule remaining within estimates.

In May 2017, a smaller tension crack was first observed in the temporary access road excavations above the future diversion tunnel portal. This smaller tension crack extended locally into the final slope requiring a solution integrated with the final slope. BC Hydro completed a redesign of the Left Bank in fall 2017 to mitigate various construction challenges and the Left Bank excavation work is continuing. Stability issues and tension cracks on the left bank were expected, which is why the slope is being excavated and 'flattened' prior to completion of the permanent works.

To mitigate the delays, efforts have been made to enable work to continue over the winter months. The activities this winter are in support of future work which includes the start of diversion tunnel excavation in summer 2018 to support the 2020 date

diversion of the Peace River, completion of the mass excavation of the left bank for slope profiling which is expected to be complete by fall 2018 and creating till haul roads for main dam construction.

Right Bank

The Right Bank scope of work includes the excavation of the powerhouse and spillway and placing roller-compacted concrete for the foundations as support for the main structures to be built by the Generating Station and Spillways contractor. The current critical activities on the right bank include excavation of the right bank drainage tunnel, excavation of the spillway and placement of roller compact concrete in the powerhouse, and spillway.

The following activities have been completed on the Right Bank since the start of construction:

- Drainage tunnel excavation (236 metres completed of a planned 981 metres);
- Completion of the Right Bank approach channel and powerhouse excavation on May 31, 2017;
- Stilling basin and powerhouse Roller-Compacted Concrete placement - The contractor began placement of conventional concrete on June 4, 2017, however Roller-Compacted Concrete production was 30 per cent of the planned placement for 2017. BC Hydro and Peace River Hydro Partners are working together to re-sequence the Roller-Compacted Concrete excavations and placement in 2018, 2019 and 2020 to mitigate the risk of the handover date for the Generating Station and Spillways. Given the delay in the river diversion, this resequencing does not impact the overall in-service dates;
- The Right Bank drainage tunnelling started in February 2017 but work was stopped by WorkSafeBC due to issues with silica dust, later than scheduled mobilization of equipment for concrete production and issues related to contract

specifications for concrete mixes. These issues are being mitigated, and the contractor is changing excavation methods from road header to drill and blast in the Right Bank drainage tunnel to mitigate the amount of silica dust. The change in methodology along with getting approvals from WorkSafeBC for management of silica dust resulted in Peace River Hydro Partners completing 25 per cent of the tunnel by December 22, 2017. The tunnel is forecast to be complete by the end of summer 2018.

3.7.1.2 *Generating Station and Spillways*

The complete Generating Station and Spillways Civil Works Request for Proposals with final draft contract was issued on September 1, 2017. A revised schedule was issued to the proponents on October 14, 2017 with extended schedule dates. A Request for Proposals closed on October 13, 2017 for the Powerhouse Bridge Cranes and Gantry Cranes contract and four proposals were received. Proposals were received for the Generating Station and Spillways Civil contract and an early works agreement was executed with Aecon-Flatiron-Dragados-EBC Partnership on December 22, 2017.

Technical proposals for the Hydromechanical Equipment contract were received in December 2017 and financial proposals were received in January 2018.

3.7.1.3 *Turbines and Generators*

The Turbines and Generators contract was procured through a public competitive process and on April 6, 2016 BC Hydro and the Province announced that the Turbines and Generators contract had been awarded to Voith Hydro Inc. Notification of the contract award was provided to the Site C business directory along with business stakeholders such as local chambers of commerce, construction associations and economic development commissions. Since the award of the contract to Voith on March 11, 2016, Voith has built and operationalized an on-site welding and fabrication shop for production of the embedded turbine metal

components. Voith has engaged Group LAR in Quebec to support the on-site shop by fabricating metal plate subassemblies, and also the Voith factory in Sao Paulo, which will produce the majority of the turbine generator components.

3.7.1.4 *Transmission Line*

The Peace Canyon gas insulated switchgear contract was awarded to ABB Inc. The procurement process for the south bank substation was completed and a preferred proponent identified. The Request for Proposals for the transmission line conductor and the transmission line construction contractor closed and the evaluation phases were initiated.

Access road upgrades and clearing work for the 75 kilometre right-of-way was started.

3.7.1.5 *Ministry of Transportation and Infrastructure Public Road Upgrades*

The Ministry of Transportation and Infrastructure's contractor, Al Simms and Sons, completed the upgrade work for 269 Road, 240 Road and Old Fort Road. Work on 271 Road was completed by a designated business partner of an Indigenous group under a contract with BC Hydro. Clearing and grubbing work for the Cache Creek-Bear Flat 8.5 kilometre segment of Highway 29 re-alignment work was completed in spring 2017 under the management of the Ministry of Transportation and Infrastructure. Two tender packages were prepared for the Cache Creek-Bear Flat alignment: (1) for grading and paving; and (2) for a new bridge.

When the Provincial Government announced the Commission review of the Site C project in August 2017, BC Hydro was asked to delay the relocation of two homes that were to be affected by the highway re-alignment. The Grading and Paving tender, released by the Ministry of Transportation and Infrastructure in June 2017, was cancelled on August 2, 2017. The Ministry of Transportation and Infrastructure

confirmed that a temporary detour option for Cache Creek-Bear Flat could be implemented to allow river diversion to continue as scheduled.

As part of Government's decision to proceed with the Project, BC Hydro and the Ministry of Transportation and Infrastructure are exploring options to redesign the Highway 29 re-alignment at Cache Creek-Bear Flat to reduce the effects on potential burial sites and areas of cultural significance in the area. Consultation with Indigenous groups and property owners will commence in January 2018.

3.7.1.6 Reservoir Clearing

Clearing of the eastern reservoir was substantially completed. Clearing of the Moberly River drainage was partially completed. Waste wood disposal and hauling of merchantable timber was carried out. Design for the Eastern Reservoir clearing and access progressed.

3.8 Engineering and Quality Management

Over the past year, the engineering team assisted with issuing the Generating Station and Spillways technical addendum, including the schedule of quantities and prices as well as preparing an engineer's estimate based on the specifications, drawings and draft contract. Tender design and specifications were completed for the 500 kV transmission lines and substation. Two of the three tower types were successfully tested. Implementation design commenced for the balance of plant contract and protection & control systems. Tender design was completed for a segment of Highway 29 at Bear Flat but was not issued as a result of the request for additional work on alternate alignments. Preliminary design was prepared for Hudson's Hope shoreline protection.

3.8.1 Quality Management

Site C has established a project quality management plan that outlines BC Hydro's activities to ensure materials, equipment and the constructed works meet contract

quality requirements. The Site C Project Quality Plan also identifies resources and procedures necessary for achieving the quality objectives. It also includes roles and responsibilities, resource planning and establishment of a quality management program.

Implementation and monitoring of quality control and quality assurance plans are required of all contractors. BC Hydro tracks and manages quality non-conformances. These are defined as any occurrence that does not conform to the quality requirements of a contract. [Table 3-6](#) below identifies quality management non-conformity instances during the reporting period.

Table 3-6 Quality Management Non-Conformity Report Metrics Reporting Period – October 2016 to December 2017

Contract	Reported this Period (October 2016 to December 2017)	Closed this Period (October 2016 to December 2017)
South Bank Site Preparation	1	1
Main Civil Works	671	330
Turbines and Generators	12	9
Transmission	10	10

3.9 Safety

During the second year of construction, the Project increased work hours by 84 per cent, which included contractors and BC Hydro employees both in the office and in the field. During the reporting period, six lost time injuries were reported, along with 22 medical attention-treatment cases. There were 397 near misses reported. WorkSafeBC inspections increased during this timeframe, and our site contractors received a total of 59 written orders; all issues were rectified by the end of 2017.

Our Site C Contractors have begun to provide additional training to their field supervision to ensure at-risk behaviours or at-risk conditions are identified and rectified prior to an incident taking place.

Table 3-7 Safety Metrics

Description	Reported during the period October 1, 2016 to December 31, 2017 ¹	Reported since Inception (July 27, 2015) ²
Fatality & Serious Injury ² (permanently disabling)	0	0
Lost Time Injury	6	8
Lost Time Injury Frequency (number of injuries resulting in lost time per 200,000 hours worked) ³	0.25	0.21
Severity Rate (number of calendar days lost due to injury per 200,000 hours worked) ³	13.02	8.50
Contractor near miss incidents	385	575
Employee near miss incidents	10	23
Public near miss incidents	2	5
Equipment/property damage reports ⁴	249	301
WorkSafeBC orders	59	67

3.10 Key Procurement and Contract Developments

3.10.1 Key Procurement

The Project procurement approach was approved by the Board of Directors in June 2012 for the construction of the Project. The procurement approach defined the scope of the major contracts and their delivery models, as summarized in [Table 3-8](#) below.

¹ Numbers are subject to change due to timing of when data is retrieved and when injury is categorized.

² Excludes health events unrelated to work standards.

³ BC Hydro is now capturing safety metrics data each week from our two prime contractors, which includes hours worked.

⁴ Types of equipment and property damage include vehicle damage, motor vehicle accidents, minor electrical fire damage, etc. Equipment damage data is collected through contractor monthly reports not the BC Hydro Incident Management System.

Table 3-8 Major Project Contracts and Delivery Models

Component	Contract	Procurement Model	Anticipated Timing
Worker Accommodation	Worker accommodation and site services contract	Design-Build-Finance-Operate-Maintain	Completed
Earthworks	Site preparation contracts	Predominantly Design-Bid-Build	Completed
	Main Civil Works contract	Design-Bid-Build	Completed
Reservoir Clearing /Transmission Clearing	Multiple reservoir clearing contracts to be awarded over seven to eight years	Design-Bid-Build	Five contracts completed (lower and east reservoirs, transmission line)
Generating Station and Spillways	Turbines and Generators contract	Design-Build	Completed
	Generating Station and Spillways Civil Works contract	Design-Bid-Build	Request for Proposals issued September 2016. Preferred proponent approved by the Board and Early Works agreement signed December 2017. Contract award March 2018
	Hydromechanical Equipment contract	Supply Contract	Request for Proposals is closed and is under evaluation. Contract award April 2018
	Powertrain Balance of Plant Equipment Supply	Supply Contracts	F2018 to F2020
	Balance of Plant Contract (Powertrain Balance of Plant Equipment Installation)	Design-Build/Install	F2019 to F2021 Request for Supplier Qualifications to be issued June 2018

Component	Contract	Procurement Model	Anticipated Timing
Electrical and Transmission Infrastructure	Transmission Lines Construction contract	Design-Bid-Build	Request for Proposals issued September 2017. Contract award March 2018.
	Site C substation contract	Design-Bid-Build	Preferred proponent approved December 2017. Contract Award: F2018
	Peace Canyon Substation upgrade contract	Design-Build	Completed
Highway 29 Realignment	Design-Bid-Build in partnership with B.C. Ministry of Transportation and Infrastructure with anticipated contracts being awarded through 2018 and 2019		

3.10.2 List of Major Contracts Awarded (Excess of \$50 million)

Since inception of the Project, five major contracts (i.e., greater than \$50 million in value) have been awarded: Worker Accommodation, Site Preparation-North Bank, Main Civil Works, Turbines and Generators and Generating Station and Spillways Civil Early Works Agreement. The contracts were procured through a public competitive process and awarded based on a rigorous evaluation process within the budget established for each contract. A list of contracts in excess of \$50 million is shown in [Table 3-9](#) below.

Table 3-9 Major Project Contracts Awarded

Work Package	Contract Value ⁵ (\$ million)	Current Status
Site Preparation: North Bank	60	Contract executed July 2015
Worker Accommodation	469	Contract executed September 2015
Main Civil Works	1,791	Contract executed December 2015
Turbine and Generators	464	Contract executed March 2016
Generating Station and Spillways Civil Early Works	100	Early Works Agreement executed December 2017

⁵ Contract value reflects the current value including executed change orders to the end of the reporting period.

3.11 Impacts on Other BC Hydro Operations

For the reporting period, there were no material impacts on the generation operation at the GM Shrum and Peace Canyon Dams or on water management at the Williston and Dinosaur reservoirs.

3.12 Project In-Service Dates

Table 3-10 In-Service Dates

Description	Final Investment Decision In-Service	Status
5L5 500kV Transmission Line	October 2020	On Track
Site C Substation	November 2020	On Track
5L6 500kV Transmission Line	July 2023	On Track
Unit 1 (First Power)	December 2023	On Track
Unit 2	February 2024	On Track
Unit 3	May 2024	On Track
Unit 4	July 2024	On Track
Unit 5	September 2024	On Track
Unit 6	November 2024	On Track

3.13 Project Budget Summary

As a result of the change in timing for river diversion and other factors including an increase in direct and indirect costs, BC Hydro presented a revised cost estimate of \$10.7 billion to the Board of Directors in December 2017.

[Table 3-11](#) below presents the overall project budget, based on the Final Investment Decision (December 2014), compared to the updated budget approved in January 2018, both represented in nominal dollars.

Table 3-11 Final Investment Decision Project Budget

Description	Final Investment Decision (2014) Capital Amount (Nominal \$ million)*	Updated Budget Approved January 2018 (Nominal \$ million)
Dam, Power Facilities, and Associated Structures	4,120	5,320
Offsite Works, Management and Services	1,575	1,868
Total Direct Construction Cost	5,695	7,188
Indirect Costs	1,235	1,484
Total Construction and Development Cost	6,930	8,672
Interest During Construction	1,405	1,320
Project Cost, before Treasury Board Reserve	8,335	9,992
Treasury Board Reserve	440	708
Total Project Cost	8,775	10,700

* BC Hydro notionally allocates project contingency to particular scopes of work, based on contracts awarded to date, work completed and updated forecasts for scopes of work yet to be completed.

3.14 Project Expenditure Summary

[Table 3-12](#) provides a summary of the Final Investment Decision approved *total* Project cost, the updated budget and the variance between the two; and the Final Investment Decision plan *to date* amounts, the actual costs *to date* and the variance between the two.

Table 3-12 Project Expenditure Summary (\$ million Nominal) Compared to Final Investment Decision

Description	Final Investment Decision	Updated Budget	Variance	Final Investment Decision Plan to Date	Actuals to December 31, 2017	Variance
Total Project Costs	8,335	9,992	(1,657)	1,675	2,127	(452)
Treasury Board Reserve	440	708	(268)	0	0	0
Authorized Project Cost	8,775	10,700	(1,925)	1,675	2,127	(452)

[Table 3-13](#) provides a summary of the F2017-F2019 Service Plan total Project cost, the current forecast total Project cost and the variance between the two; and the plan to date amounts, the actual costs to date and the variance between the two.

**Table 3-13 Total Project Expenditure Summary
 (\$ million Nominal) Compared to
 F2017-F2019 Service Plan**

Description	F2017-F2019 Service Plan	Updated Budget	Variance	F2017-F2019 Service Plan to Date	Actual to December 31, 2017	Variance
Total Project Costs	8,335	9,992	(1,657)	2,165	2,127	38
Treasury Board Reserve	440	708	(268)	0	0	0
Authorized Project Cost	8,775	10,700	(1,925)	2,165	2,127	38

Variances between the plan to date amounts occur due to differences in the timing of project implementation activities. Variances are primarily due to earlier than planned expenditures on Main Civil Works offset by shifts of expenditures for some properties purchases, mitigation and compensation and highways into future periods.

3.15 Internal Project Financing versus External Borrowings to Date

To date, all project funding has been from internal borrowings and there has been no Site C Project specific debt issued. As part of BC Hydro's debt management strategy, BC Hydro's exposure to variable debt is managed within a board approved range of five per cent to 25 per cent and a target of 15 per cent. In addition, to lock in historically low interest rates, since F2017 BC Hydro has hedged \$5.65 billion of its future forecast long-term debt issuances out to F2024 through the use of derivative contracts.

As at December 31, 2017, \$1.8 billion in hedges have settled with a realized gain of \$75 million and \$3.9 billion of hedges remain outstanding with an unrealized value of \$121 million. Subsequent to December 31, 2017, BC Hydro has hedged an additional \$1.0 billion of its forecast future long-term debt issuances.

3.16 Material Project Risks

3.16.1 Delay to Permitting

Permitting risk has decreased slightly from earlier in the year. The issuing of permits is on track to meet schedule requirements. BC Hydro is proactively working with government bodies to resolve property crown lease conflicts along the transmission alignment. For 2018, all permits are expected to be received in accordance with the Project schedule.

3.16.2 Litigation

Legal risk declined as a result of the October 2016 Supreme Court of B.C. dismissal of a petition by Prophet River First Nation and West Moberly First Nations to overturn provincial construction permits and the June 2017 Supreme Court of Canada denial of two leave to appeal applications filed by the Prophet River First Nation and West Moberly First Nations. While proceedings to date have been resolved in the Project's favour, there remains a risk that litigation could be initiated with respect to construction matters. Subsequent to the reporting period, on January 15, 2018 the West Moberly First Nations and the Prophet River First Nation each filed a Notice of Claim in B.C. Supreme Court asserting an infringement of Treaty 8 and seeking, among other remedies, an injunction against the issuance of government permits and approvals for Site C. West Moberly First Nations has filed an application seeking an injunction prohibiting the continued construction of Site C until the hearing of their claim.

3.16.3 First Nations / Project Approvals

In September 2017, First Nations risks were incorporated into a broader risk category "Challenges to Project Approvals" created to align with British Columbia Utilities Commission's inquiry regarding project approval risks.

First Nations risks have trended downwards with two Impact Benefits Agreements signed in spring 2017 with two First Nations, for a total of six agreements fully executed and in implementation. There remain risks associated with those First Nations without Impact Benefits Agreements in place. In addition, there is a risk that additional Indigenous burial or culturally significant site(s) are identified within the construction/reservoir area, which could impact the construction schedule. Finally, there are some lower risks that could also create construction delays as a result of ongoing consultation with First Nations.

There are two outstanding project permits and approvals challenges. First, an appeal of one of the Conditional Water Licences is before the Environmental Appeal Board, with the hearing process to conclude in July 2018. And second, there is an appeal of the dismissal of the judicial review of 36 provincial permits; however, the appellants (two First Nations) are not actively pursuing the appeal and will require a court order to proceed.

3.16.4 Procurement

Procurement risk increased in mid-2017 due to delays in finalizing requests for proposals and also due to one of the hydromechanical proponents withdrawing from the competition. However, in late 2017 the procurement risk trended downwards as the Generation Station and Spillways related procurements neared completion and will be awarded in time to support the revised project timelines. BC Hydro has seen robust market participation and the risk exposure associated with market response has now passed for most large procurements; however, this risk remains for the Balance of Plant construction contract. Procurement of this contract will start in mid-2018.

3.16.5 Labour Relations and Stability

Labour relations and stability risks have not changed materially over the past year. BC Hydro has executed its labour relations plan for Site C and there have been no material issues. However, risks remain due to the many years of construction until project completion and, as with other major construction projects in B.C., there remains the possibility that union activity could occur at certain periods. There were two successful union organizing drives on the Project and one unsuccessful union raid attempt, with no site disruption.

BC Hydro implemented a Contractor Labour Committee to support site labour stability and contracts include labour stability terms such as no strike, no lockout, and no raiding. BC Hydro entered into a Memorandum of Understanding with certain British Columbia Building Trades unions to enhance labour stability on site

3.16.6 Geotechnical

Construction risks associated with geotechnical conditions increased with tension crack events occurring on the Left Bank in early 2017. These instability events contributed to construction challenges that resulted in the change in river diversion from 2019 to 2020.

3.16.7 Construction Cost – Labour

Construction labour cost risks have decreased over the reporting period due to the higher than expected labour availability and information received in response to major procurements. The continued downturn in the Alberta and B.C. oil industries has freed up labour resources, and the deferral of LNG projects has reduced the potential for labour competition over the construction period. Potential cost increases could arise if there is competition with other projects for labour resources, labour instability, or changing workforce demographics. Based on current market conditions in the infrastructure and energy sector, the labour risk is low; however, the recent federal announcement of pipeline projects could impact labour prices and availability

of skilled labour. There remains the potential for market labour conditions to shift in the future and if so this risk may increase.

3.16.8 Construction Cost – Commodity and Equipment

Construction commodity and equipment cost risks have declined slightly over the past year. Key commodities such as diesel are below BC Hydro's forecast when preparing the original cost estimate. In addition, the downturn in the Alberta and B.C. oil industries has reduced competing demand for major commodities. There remains some risk of higher-than-expected commodity costs (including diesel) due to a material change in market conditions or changes to the North American Free Trade Agreement that impact Site C contracts not awarded that include commodities.

3.16.9 Construction Execution

The Main Civil Works contractor has experienced various challenges and delays that have resulted in an increase in construction execution risk.

Following executive meetings with the Main Civil Works contractor in September 2017, it was determined that the 2019 timeline for river diversion could not be met. Lower-than-planned productivity was a significant factor contributing to this determination.

Low productivity on the Roller-Compacted Concrete also delayed Generating Station and Spillways milestones.

One of the critical path construction issues will be the interfaces between major contractors on site. BC Hydro is closely monitoring potential interface issues between the Main Civil Works and the Generating Station and Spillways contractors, as the Generating Station and Spillways contractor prepares to mobilize to site.

If oil and gas sector activity returns to pre-2014 levels, there may be a risk in accessing skilled and qualified workers for the Project workforce, due to a low

unemployment rate in the region and multiple contractors competing for a similar workforce.

3.16.10 Foreign Exchange

Foreign exchange risk has remained unchanged over the past year. A decline in the value of the Canadian dollar resulted in an increase in risk in the prior reporting period. There remains some risk associated with exchange rates as future contracts not yet procured contain a component of foreign currency exposure.

3.16.11 Interest Rate

Interest rate variability has decreased over the past year. Market interest rates have been lower than BC Hydro's forecast at Final Investment Decision. In addition, BC Hydro has received Commission approval for an interest rate hedging program that allows the company to reduce future exposure to market fluctuations in interest rates. There remains some risk associated with interest rates as BC Hydro's rates are not fully hedged, and may be affected by future market fluctuations.

3.16.12 Change in Tax Rates

The risk of changes in tax rate has not materially changed over the past year. There remains some risk of future changes to key tax rates, such as the Provincial Sales Tax and/or carbon tax.

3.17 Comparison of Cost Plan by Quarter to Actual Expenditures (F2017 Q3 to F2018 Q3)

**Table 3-14 Cost Plan for the Reporting Period:
October 2016 to September 2017
(\$ million Nominal)**

Description	F2017 Q3	F2017 Q4	F2018 Q1	F2018 Q2	F2018 Q3 ⁶	Total for Reporting Period
Planned Expenditures	199	183	213	172	179	946
Actual Expenditures	169	177	169	155	172	842
Variance	30	6	44	17	7	104

[Table 3-14](#) above presents a comparison of the planned total expenditures by quarter with the actual expenditures. Over the entire reporting period, actual expenditures were \$104 million less than plan, primarily due to activities for reservoir clearing, highways, and transmission scopes of work being shifting to future periods.

⁶ Annual Report #1 included planned expenditures for the quarters October 1, 2016 through September 30, 2017 (F2017 Q3 to F2018 Q2) and are shown in the table. The plan for F2018 Q3 is from the 2017-2019 Service Plan.

4 Look ahead – January 2018 to December 2018

4.1 Construction

Key construction activities taking place in 2018:

- The Main Civil Works will advance, focusing on excavations required for north bank slope stability and the diversion inlet portals;
- Work will continue on the 800-metre roller-compacted concrete powerhouse buttress;
- Work will begin for the earthfilled dam;
- Work will begin on the western portion of the Highway 29 realignment at Cache Creek-Bear Flat;
- The generating station and spillways civil works contractor is expected to mobilize to site in spring 2018;
- Work will continue on the transmission lines and substation; and
- Reservoir clearing will advance.

4.1.1 Main Civil Works

Left Bank

Over the next year, the key construction related activities planned for the Left Bank include:

- Complete excavation of the inlet and outlet portals;
- Continue Left Bank excavations;
- Move excavated materials to the relocated surplus excavation material sites;
- Construct dikes for relocated surplus excavation material sites, with the potential for some dredging;

- Continue to excavate the diversion tunnels; and
- Place riprap along the cofferdams.

In River and Bridge Work

The Main Civil Works contractor anticipates commencing work to expand the temporary Peace River construction bridge in order to safely and efficiently manage traffic on site. Dredging may occur in the Peace River to prepare for river diversion.

Right Bank

Over the next year, the key construction related activities planned for the Right Bank include:

- Complete the right bank drainage tunnel;
- Excavate the spillway apron;
- Place Roller-Compacted Concrete in the powerhouse, service bay and spillway apron;
- Complete the spillway excavation; and
- Complete all work for the lower spillway buttress.

Other

In spring/summer 2018, the Main Civil Works contractor will continue work at the 85th Avenue Industrial Lands and will begin assembling the overland conveyor from 85th Avenue to the north bank of the dam site. This conveyor will transport excavated material from the Industrial Lands to the dam site for the construction of the earthfilled dam.

Riprap will be shipped via railway from West Pine Quarry.

4.1.2 Generating Station and Spillways

Over the next year, the key activities planned for the Generating Station and Spillways include:

- Procure the supply of Hydromechanical equipment;
- Procure the supply of powerhouse bridge cranes;
- Powerhouse structure;
- Mobilize the Generating Station and Spillways Civil Works contractor, including site preparation and set up of offices and shops;
- Complete construction and assembly of the concrete batch plant; and
- Complete design of the cranes and begin fabrication of some components.

The Generating Station and Spillways Civil Works contract and the Hydromechanical Equipment contract are expected to be awarded in early 2018. The hydromechanical gate design will be completed during 2018 and fabrication of some components will commence.

4.1.3 Turbines and Generators

Over the next year, design, procurement and manufacturing will continue for the Turbines and Generators contract. During 2018, Voith Hydro Inc., the Turbines and Generators contractor, will continue to fabricate the large turbine-embedded parts at a temporary manufacturing facility, including the draft tube cone and elbow, and the spiral case. Voith's factory in Sao Paulo will commence production of metal castings for the turbine runner and wicket gates, and commence fabrication of the turbine stay ring and the generator stator.

4.1.4 Transmission Works

Over the next year, the key construction related activities planned for the transmission works include:

- Complete the clearing and access work for the transmission line corridor;
- Complete the control panel upgrades at Peace Canyon Station, commencement of the Peace Canyon 500 kV gas insulated switchgear expansion work;
- Award the south bank substation contract in early 2018 and commence work in the spring;
- Receive delivery of the 500 kV transmission towers;
- Award the Transmission Line Conductor supply contract; and
- Award the Transmission Line Construction contract in early 2018 and commence the work in the fall.

4.1.5 Highways

BC Hydro will continue to engage with Indigenous groups and property owners on re-alignment options for Cache Creek-Bear Flat. The Ministry of Transportation and Infrastructure will participate. BC Hydro will assess the feasibility of the options and a decision will be made in summer 2018.

BC Hydro will work with the Ministry of Transportation and Infrastructure to advance construction of the western portion of the Cache Creek-Bear Flat segment not impacted by the route alignment options.

The geotechnical investigation program for all Highway 29 realignment segments will be completed by fall 2018. Geotechnical results will continue to inform design work.

Design will continue to progress for the Hudson's Hope berm.

4.1.6 Reservoir Clearing

Over the next year, design work will continue for the Eastern and Middle Reservoir areas. Access development and clearing will continue in the Moberly River, Lower and Eastern Reservoir and will start in the Middle Reservoir. Design for the Halfway River debris boom will be finalized.

4.2 Engineering

The Main Civil Works implementation design is nearly complete and work continues to support construction in 2018. Design updates to the Left Bank overburden slope are in progress which incorporate the contractor's major construction roads within the final slope to an appropriate standard of reliability. The few remaining Main Civil Works construction drawings are being released early in 2018 in accordance with project schedule requirements. The first batch of construction drawings for the Generating Station and Spillways contract were completed in December 2017, a second batch is planned for January 2018 and the remainder are being developed for issue to the contractor in accordance with the contract schedule. The specifications and modelling for the Balance of Plant Contract will be progressing in 2018 to meet project schedule for a Request for Proposals in January 2019. Implementation design for 500 kV lines and the south bank substation are being finalized in 2018. Construction drawings will be issued for the south bank substation, 500 kv transmission towers and Peace Canyon gas insulated switchgear.

Design is progressing on Highway 29 including a review of alternates for the Cache Creek-Bear Flat segment.

A Technical Advisory Board full meeting, including site visit, was held in January 2018. The scope of the Technical Advisory Board includes a review of the technical risks and updated construction plans.

4.3 Safety

The Project team will continue to monitor contractor safety performance on site. This includes completing regular audits of specific contractors' work areas with specific focus on high risk work. Reviews of safety incidents will be completed.

4.4 Aboriginal Consultation

Efforts will continue in the next year to conclude Impact Benefit Agreements with the remaining Indigenous groups who do not yet have agreements. In addition, BC Hydro will consult with respect to the construction stage of the Project, including provision of information on construction activities, support for the permit review process, and review and implementation of mitigation, monitoring and management plans, and permit conditions.

4.5 Litigation

On January 15, 2018 West Moberly First Nations and Prophet River First Nation each filed a Notice of Claim in B.C. Supreme Court alleging an infringement of Treaty 8 and seeking, among other remedies, an injunction against the issuance of government permits and approvals for Site C. On January 31, 2018 West Moberly First Nations filed an injunction application to halt Site C construction pending trial of their treaty infringement claim. [Table 4-15](#) below summarizes the proceedings with hearings or decisions pending.

Table 4-15 Summary of Proceedings with Hearings or Decisions Pending as at January 31, 2018

Description		Date
B.C. Supreme Court: Treaty Infringement Claims		
West Moberly First Nations Prophet River First Nation	Notice of Claims filed	January 15, 2018
West Moberly First Nations	Injunction application filed Hearing date	January 31, 2018 Expected to be heard in the period between July and September 2018
B.C. Court of Appeal:		
Prophet River First Nation West Moberly First Nations	Appeal filed Hearing date	November 30, 2016 Appeal is inactive. Requires leave of court to proceed
Environmental Appeal Board		
C. London	Hearing date	Written hearing of the matter through until the middle of July 2018
Other Proceedings		
Building Trades v. BC Hydro	Civil claim filed, Response to claim filed	

4.6 Permits and Government Agency Approvals

Permits and licences are required for construction activity to be undertaken from January 2018 to December 2018. Approximately 30 permit applications are anticipated to be submitted for approval in this time frame as well as four Environmental Assessment Certificate amendment requests: design changes to the Generating Station and Spillways, design changes to the Halfway River bridge, alignment changes to the Highway 29 Cache Creek realignment, and housing proportional changes to market value versus subsidized (at the request of the City of Fort St John).

Delays to these permits, licences or amendments may result in delays to the associated construction work. However, BC Hydro continues to consult with federal and provincial authorities, local government and Indigenous groups to mitigate this

risk and does not anticipate delays that will impact construction schedules. Specific actions to mitigate risk to permits and licences include:

- Early identification and submission of permit and licence applications through consultation with contractors (e.g., weekly meetings with Main Civil Works on permits/permitting plan);
- Weekly meetings with Ministry of Forests, Lands, Natural Resource Operations and Rural Development on permitting process, technical details and consultation status;
- Bi-weekly meetings with the Environmental Assessment Office.
- Leave to Commence Construction scoping meetings with the Comptroller of Water Rights, Independent Engineer, and Independent Environmental Monitor (and contractor, as appropriate);
- Weekly meetings and monthly on-site visits (and more, as required) with BC Hydro, Peace River Hydro Partners, Independent Engineer and Independent Environmental Monitor regarding Leave to Construct approvals;
- Joint development of permitting dashboards between the Ministry of Forests, Lands, Natural Resource Operations and Rural Development, Comptroller of Water Rights and BC Hydro to track permit risks and develop mitigation measures; and
- Proactive key stakeholder and Indigenous group consultation on Environmental Assessment Certificate condition amendment requests.

4.7 Compliance

Site environmental monitoring and survey work will continue over the next year. The Project team will continue to collaborate with Indigenous groups and stakeholders to ensure BC Hydro is adhering to the environmental conditions of both the

Environmental Assessment Certificate and Federal Decision Statement and any other permits or authorizations.

On-site compliance resources have been increased on daily spot inspections and recording will continue with a focus on the areas of sediment and erosion control, water management and spill prevention. Additionally, as new contractors mobilize to site, the site staff are working closely to ensure an immediate focus on environmental compliance. A joint regulator / BC Hydro / contractor representative compliance promotion meeting is scheduled for early 2018.

4.8 Community Engagement and Communications

Increased focus on community engagement through the Regional Community Liaison Committee, one on one community meetings and issue specific technical meetings. Additionally, a new web link has been created to share project progress and permit / authorization requests that may be of interest to the communities.

Site C public affairs will continue to promote local and B.C. business participation on the Project by encouraging businesses to sign up to the Site C Business Directory to receive information about the Project and notifications about procurements; posting procurement information on the Project website; and providing a copy of the Site C Business Directory to proponents during the competitive selection process to encourage partnering with local businesses.

Discussions will continue with the community of Hudson's Hope and the Peace River Regional District to reach community measure agreements related to the construction and operation of Site C.

The Regional Community Liaison Committee will continue meeting at least four times in the year, with increased frequency as requested by the committee.

4.9 Properties Acquisitions

BC Hydro continued discussions with owners whose land is required for the Eastern Reservoir Clearing Project as well as the Cache Creek-Bear Flat Highway 29 Re-alignment and Halfway River Highway 29 Re-alignment. Negotiations progressed with Crown Tenure holders within the Transmission Line Project and permissions to enter were received for investigations for the Hudson Hope Shoreline Protection Project.

Over the next year, permissions to enter will be sought for investigations for the middle and western segments of the Reservoir Clearing Project and western segments of the Highway 29 Re-alignment Project as well as the new realignment for the Cache Creek portion of Highway 29. After investigations and design have been completed, the acquisition process will commence for these project areas.

4.10 Cost Plan by Quarter F2018 and F2019

Table 4-16 Annual Cost Plan (\$ million Nominal)
Reporting Period: January 2018 to December 2018

Description	Final Investment Decision	F2018 Q4	F2019 Q1	F2019 Q2	F2019 Q3	Summary of Quarters
Total Project Costs (\$)	9,992	180	335	303	222	1,040
Treasury Board Reserve	708	0	0	0	0	0
Authorized Project Cost (\$)	10,700	180	335	303	222	1,040

4.11 Material Project Risks

Risk management is an ongoing, iterative process where early steps are revisited on a regular basis. As documented in the Site C Risk Management Plan, these ongoing activities include risk identification, risk analysis and evaluation, risk response planning, and risk monitoring and control. Over the next year, the Project's risk registers will be regularly updated to identify new risks, refine risk evaluations and treatment plans, and monitor mitigation activities.

4.12 Key Milestones

The Project is on track to achieve the Project completion date of November 2024.

The key milestones for the next year are listed in [Table 4-17](#).

Table 4-17 Key Milestones

Milestone	Plan Date
Completes Inlet Portal	September 2018
Completes Powerhouse Roller-Compacted Concrete (Upper and Lower)	October 2018
Turbine First Stage Embedded Parts provided to Generating Station and Spillways (Anchors and embedded piping)	April 2018
Supply of Anchors for Draft Tube Maintenance Gates	August 2018
Generating Station and Spillways Civil Contract Award	March 2018
Generating Station and Spillways Civil contractor mobilizes to site	March 2018
Transmission Line Construction Contract Award	March 2018
Cache Creek-Bear Flat route re-alignment options decision	August 2018
Completion of transmission access roads	October 2018
Substation Construction Contract mobilization	April 2018

5 Risk and Cost Management Assessment Summary and Independent Oversight

In October 2017, BC Hydro engaged Ernst & Young to provide independent oversight to the Project Assurance Board for the Site C Project going forward. Since then, Ernst & Young has supported the Project team to develop the updated budget of \$10.7 billion through commenting on the processes and documentation used to develop the new budget and provided input to the Project team organizational design.

As reported in Annual Report No. 1, BC Hydro engaged Ernst & Young (EY) and BTY in 2016 to provide an independent, external review of the Site C Clean Energy Project's business and risk management plans, and risk analysis of major components of the Project budget. Their report which was released in October 2016 identified strong overall project management practices, as well as some areas for improvement. [Table 5-18](#) below lists the report's recommendations, the actions BC Hydro committed to in 2016, and the progress to December 2017.

Table 5-18 EY Recommendations and BC Hydro Action Plan

EY Finding/Recommendation	BC Hydro Action	Completed to December 2017
<p>While the complex nature of these interfaces will put significant pressure on BC Hydro to manage and control as multiple contracts run in parallel, we are encouraged by the depth of experience across the organization in managing complex interfaces.</p> <p>Recommendation 1: An interface manager and team should be considered as part of the overall project organization.</p>	<p>BC Hydro will develop an interface management plan between major contracts and implement an interface register.</p>	<p>BC Hydro hired an Interface Manager in 2017, developed Interface Management Plan and implemented an Interface register.</p>
<p>Current contract management needs and reporting requirements are placing significant strain on the capacity of the Site C project team.</p> <p>Recommendation 2: As the project progresses, Site C would benefit from an independent review of the capacity and capability of the project team to deliver upon evolving project needs.</p>	<p>As the Project progresses, BC Hydro will commission an independent review to ensure sufficient capacity and capability with regards to contract management and reporting requirements.</p>	<p>In June 2017 BC Hydro's Business Planning department conducted an independent capacity and capability review of the Project team. The overview included recommendations on organizational structure and capability gaps, as well as areas of process improvement focus. The outcome of the review identified three key areas of development for the Project to establish a best practice operating model: capabilities, processes & technology. Building on that work, a number of functions will be consolidated under dedicated leads for Project Controls and Risk Management, Commercial Management, and Quality Management.</p>
<p>The project team is aware of the risks on the Main Civil Works package and is supporting the contractor in many aspects.</p> <p>Recommendation 3: The Main Civil Works contractors would benefit from a forward-looking capability and capacity review to help monitor contractor performance against schedule. The implementation of Earned Value Management and Unifier will also support contract management.</p>	<p>BC Hydro will:</p> <ul style="list-style-type: none"> Continue implementation of a site verification process including weekly surveying of progress. Develop a plan in collaboration with Unifier Sustainment team to implement required enhancements to Unifier tool, processes and procedures. Implement Earned Value metrics on sub-projects: main civil works, generating station and spillways, transmission, and turbines and generators, as work commences. 	<p>A number of Unifier enhancements have been implemented including Claims Management & Contingency Delegation, which have enhanced BC Hydro's capability in monitoring Contractor Performance.</p> <p>BC Hydro has restructured the organization of the Project Schedule to enable automated Earned Value measurement and analysis</p>

EY Finding/Recommendation	BC Hydro Action	Completed to December 2017
<p>We observed strong schedule development and controls processes, including a challenge function, when reporting schedule against planned. The underlying data feeding the schedule and capability and capacity to manage the project will need to be evaluated throughout the lifecycle.</p> <p>Recommendation 4: BC Hydro should commission a comprehensive, independent review of the project schedule at a work package-by-work package level in order to both validate schedule content and to identify any schedule risks.</p>	<p>BC Hydro will commission an independent review of the Project schedule at a work package-by-work package level to validate schedule content and to identify any schedule risks.</p>	<p>As part of the 2017 Site C review by the Commission, Deloitte LLP undertook a detailed review of the Project's schedule.</p>
<p>The capacity of the project team to keep pace with reporting requirements will be challenged going forward.</p> <p>Recommendation 5: Reporting requirements should be assessed and streamlined where possible.</p>	<p>BC Hydro will propose to streamline reporting by changing the frequency of some quarterly reports to semi-annually, where appropriate.</p>	<p>The project implemented a consolidated Project Dashboard for the Project Board that accompanies the Quarterly Progress Report. An additional outcome of the restructuring of the Project schedule is the ability to better leverage BC Hydro's standard Project & Portfolio Management Reports. This will reduce current manual efforts to produce various reports.</p> <p>An inventory of reports has been comprised that can be filtered on source, purpose, owner, contributor.</p> <p>A centralized reporting portal has been developed and is being implemented.</p>

EY Finding/Recommendation	BC Hydro Action	Completed to December 2017
<p>Positively, we observed many areas of insightful, forward-looking reporting including data and information on schedule, cost, interfaces, etc. Some of these areas include weekly construction reports, Progression Meetings, and the Accountability Report, which provide an important 'look ahead' view for risk management. However, this reporting could benefit from further refinement into a concise, easily digestible format.</p> <p>Recommendation 6: Dashboards with key project data should be considered to aid decision-making across the project.</p>	<p>BC Hydro will develop an implementation plan for the appropriate Dashboard tool with key project data.</p>	<p>Efforts are underway to assess the operational requirements to manage Site C, investigate external technology solutions, and assess our ability to modify BC Hydro's internal system architecture to accommodate the requirements to enable Operational Dashboard reporting.</p> <p>A project plan has been developed to address technology requirements during 2018.</p>
<p>We have seen good practice with quality management and in assuring the schedule integrity, however what isn't clear is the contractors' capability to manage and report on the works accurately.</p> <p>Recommendation 7: An audit and people, process, and systems review of the contractors should be considered.</p>	<p>BC Hydro will conduct a review of the contractors systems to verify the validity of the information being provided by contractors and will review the organizational structure of major contractors to ensure the optimal team, systems and processes are in place.</p>	<p>An audit of the contractors scheduling system is being be considered for 2018.</p>
<p>We recognize the integration of Unifier into the suite of project tools will support cost management and contract management on the whole, however, gaps still exist related to cash flow projections.</p> <p>Recommendation 8: BC Hydro should continue supplementing P6 with other tools to address limitations as required.</p>	<p>BC Hydro will develop a plan to update P6 schedule set up to enable improved cash flow forecasting and to enable Earned Value.</p>	<p>P6 enhancements, including a system upgrade, were implemented in 2017, in coordination with the restructuring of the Project schedule.</p>

EY Finding/Recommendation	BC Hydro Action	Completed to December 2017
<p>Project controls should be a key focus for the project management team going forward.</p> <p>Recommendation 9: Continue to refine the project controls processes on the project.</p>	<p>BC Hydro will develop a Project Controls Handbook customized for the Site C project team.</p>	<p>As discussed in recommendation #3 the Project is undergoing a restructuring to enable Earned Value reporting. Each work package is being detailed to a more granular level, thereby enabling improved cash-flowing.</p> <p>Further, a Director level role in Project Controls Risk Management has been bulletined.</p>
<p>Most cost drivers have been stable or have seen reductions, with the notable exception of currency exchange rates.</p> <p>Recommendation 10: Continue proactive management of cost drivers.</p>	<p>BC Hydro has embedded a monthly review of Estimate at Completion in the Site C Progression process.</p>	<p>Process flows have been developed to document the Contingency Management and Cost Forecasting processes that have been piloted on the Main Civil Works sub-project.</p> <p>A process to identify potential future contingency draws has been implemented, providing early warning of cost pressures to the Leadership team. The process involves a monthly review of cost forecasts and variances by Project Controls, Finance Professionals and Work Package Managers. Contingency forecast allocations are updated accordingly and requests for the release of additional contingency from the Board are submitted on a quarterly basis.</p>

6 Technical Advisory Board

The Technical Advisory Board is a global panel of engineering and construction experts appointed by the Board of Directors. Its mandate includes:

- Advising the Vice President and Director of the Site C Project, the President & Chief Operating Officer and the Site C Project Board regarding the engineering and technical decisions related to project design consistent with best practices and current international guidelines;
- Provide technical review of key design milestones and ongoing external advice to supplement existing engineering and design and procurement expertise;
- Report out to the Project Board and management following each meeting and provide a report of key findings and recommendations; and
- Prepare and submit technical reports as required to management and the Board of Directors.

The 16th Technical Advisory Board meeting was held from November 21 to 24, 2016 and the 17th Technical Advisory Board meeting was held from June 5 to 9, 2017.

Refer to [Appendix C](#) for the Technical Advisory Board Meeting Report Nos. 16 and 17.

Subsequent to this reporting period, the 18th meeting of the Technical Advisory Board was convened in Vancouver from January 29, 2018 to February 2, 2018. The primary objective of this meeting was to update the Technical Advisory Board on the status of the Project with focus on the excavations on both the Right and Left Banks. The Board provided a number of recommendations for BC Hydro's consideration.

7 Annual Compliance Report

As per the Environmental Assessment Certificate, the Project is required to submit an Annual Compliance Report describing the status of compliance with the conditions of the certificate. To date the Project has met all required conditions and submitted its second Annual Compliance Report on time on March 31, 2017, which can be found in [Appendix D](#).

Site C Clean Energy Project

Annual Progress Report No. 2

Appendix A

Site Photographs

Figure A-1 Construction of the Moberly River Construction Bridge, Looking Northeast. (October 2016)



Figure A-2 Dust Mitigation on the North Bank View Point Access Road (October 2016)



Figure A-3 Old Fort Road Realignment (October 2016)



Figure A-4 Completed Worker Accommodation Lodge, Looking West. (October 2016)



Figure A-5 Aerial View of the Stage 1 Right Bank Cofferdam, including One of Three Slurry (Concrete) Production Plants (November 2016)



Figure A-6 Construction Continues on the Moberly River Construction Bridge (November 2016)



Figure A-7 Concrete Batch Plant on the South Bank (November 2017)



Figure A-8 Shotcrete Application at the Drainage Tunnel on the South Bank (December 2016)



Figure A-9 Excavation Continues for the South Bank Approach Channel (January 2017)



Figure A-10 Preparation for the Start of Tunnelling at the Drainage Tunnel on the South Bank (January 2017)



Figure A-11 Aerial View of Remediation for the Tension Crack on the North Bank (March 2017)



Figure A-12 Riprap Placement along the South Bank Cofferdam (April 2017)



Figure A-13 Clearing on Tea Island (April 2017)



Figure A-14 South Bank Approach Channel and Buttress Excavation (May 2017)



Figure A-15 North Bank Excavation, Looking South East (May 2017)



Figure A-16 South Bank Drainage Tunnel (May 2017)



Figure A-17 South Bank Cofferdam, Excavation, and Sediment Storage Area. (May 2017)



Figure A-18 Exterior View of the Temporary On-site Manufacturing Facility for the Turbines and Generators (June 2017)



Figure A-19 Rock Slope Stabilization at the Stilling Basin (June 2017)



Figure A-20 Aggregated Crushing Equipment on the South Bank (June 2017)



Figure A-21 Site C Viewpoint (June 2017)



Figure A-22 Aggregate Crushing Facility on the South Bank (July 2017)



Figure A-23 Slope Stabilization above the Closure Chancel in the L3 Gully on the North Bank (September 2017)



Figure A-24 Aerial View of Septimus Siding on the South Bank (September 2017)



Figure A-25 Roller-compacted Concrete Placement at the Stilling Basin on the South Bank (September 2017)



Figure A-26 Curing Roller-compacted Concrete at the Still Basin on the South Bank (September 2017)

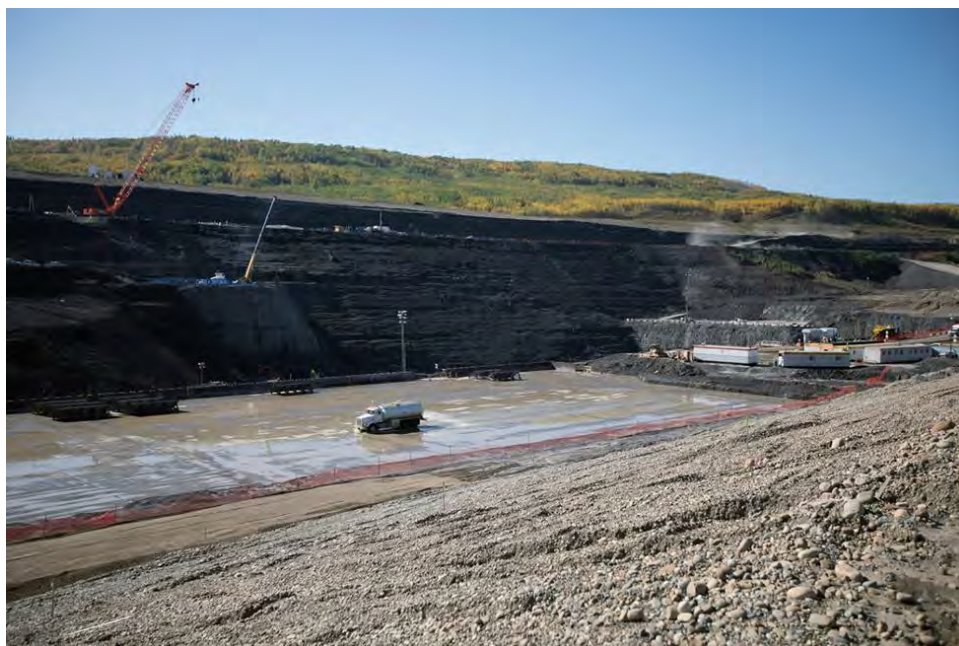


Figure A-27 Completed Upper Inclined Portion of the Closure Channel in the L3 Gully on the North Bank. (September 2017)



Figure A-28 Completed Upgrades to Old Fort Road (October 2017)



Figure A-29 Completed Upgrades to 271 Road
(October 2017)

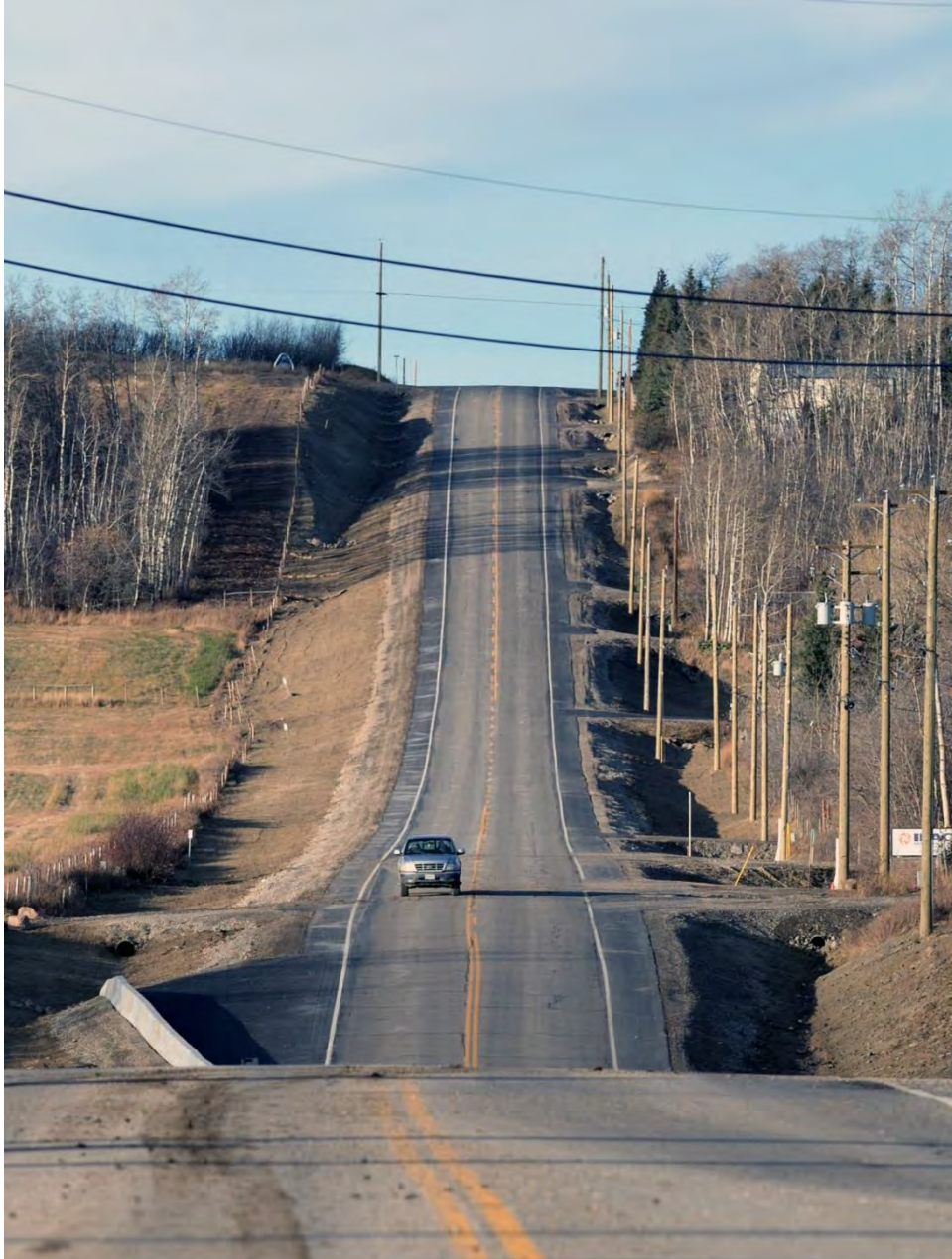


Figure A-30 Turbines and Generators Contractor Assembling Equipment at their Work Area (November 2017)



Figure A-31 Batch Plant Area on the South Bank (November 2017)



Figure A-32 Aerial View of the North Bank, with Cofferdams and Laydown Area, Looking East (November 2017)



Figure A-33 Aerial View of the South Bank, with the Powerhouse and Spillway Buttress and Approach Channel Excavation (November 2017)



Figure A-34 Drilling at West Pine Quarry
(November 2017)



Figure A-35 Hauling Material on the South Bank
(December 2017)



Figure A-36 **Blasting at West Pine Quarry**
(December 2017)



Site C Clean Energy Project

Annual Progress Report No. 2

Appendix B

**Technical Advisory Board Meeting
Report No. 16 and No. 17**



Site C Clean Energy Project

Technical Advisory Board Meeting No. 16

Report

Revision 1

(November 21 - 24, 2016)

December 2016

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List of Attachments

- Attachment A – Meeting Agenda
- Attachment B - A List of Meeting Attendees

1 Introduction

The 16th meeting of the Technical Advisory Board (the Board) was convened at the Site C Construction site in Fort St. John, over November 22-23, 2016, and subsequently in Vancouver on November 24, 2016. The primary objectives of this meeting were to undertake a review of the technical aspects of the Main Civil Works (MCW) including:

- Winter work requirements
- Excavation and monitoring
- Design update on cofferdams

The agenda for the meeting is included as Attachment A. Attachment B is a list of attendees to the meetings prior to the debriefing presented to the executive of BC Hydro and the Project Board on the afternoon of November 24.

Four questions were put to the Board:

1. Does the Board have any comment on design or construction of the Right Bank Cofferdam, including cold weather construction of the seepage cut-off and abutment grouting?
2. Does the Board have any comment on the design of the Stage 2 cofferdam?
3. Does the Board have any comments on the monitoring and instrumentation results to date and mitigation planned to address the schedule for the Right Bank Drainage Tunnel?
4. Does the Board have any comment on the plans for the RCC trial including cold weather considerations and preparations for RCC placement?

Responses to these Questions are presented below in Section 5, Technical Comments. A number of additional issues were identified in discussions on a variety of matters and they are included in Section 6, Additional Matters.

2 Tracking Log

The Board received a status report on the Tracking Log to November, 2016. It is pleased to report that all previous items put forward by the Board have been or are being addressed by the Project in a satisfactory manner.

However, with respect to the response to Item 142 (TAB Report No. 15) regarding gates, the TAB has the following additional observations:

Spillway Gate Performance

At the last TAB meeting the Board recommended that BC Hydro re-check the advisability of wire rope hoists for operating the spillway radial gates in view of their need to operate at times using small gate openings. BC Hydro have done this and the comparison to the similar gates operating successfully at Peace Canyon dam is both valid and useful. However, the Board notes that minimum gate openings at Peace Canyon dam are 1.0m representing 8.0% of gate height. For the Site C spillway gates to achieve a unit discharge of $6\text{m}^3/\text{s}/\text{m}$ in accordance at times with dissolved gas requirements and with the reservoir at EI +460.00m, the equivalent opening will be 0.72m or 6.5% of gate height. With the reservoir at EI +461.80m, the equivalent opening will need to be 0.56m or 5.1% of gate height.

The Board notes that some aspects of spillway gate design were to be completed by the successful gate supplier including possibly through hydraulic model testing where those aspects were not fully addressed during the earlier model testing, generally due matters of scaling and detail. One such aspect would be the ability of the surface and low level gates to operate at small, say 5% to 10% gate openings free of hydraulically induced vibration or oscillation. A second aspect would be demonstrating that any gate slots in the side piers are profiled so as to minimise their effects on gate operation due to induced eddy and vortex shedding. In both cases the Board recommends that the successful Contractor be required to demonstrate design adequacy by either appropriate hydraulic model testing or through directly relevant and successful precedent from existing works.

3 Site Visit

On the morning of November 23, the Board undertook a site tour, stopping to note on the left bank the locations of past slope instabilities and on the right bank the cofferdams, excavations and RCC facilities.

The Board appreciated the opportunity to observe the status of the works and their organization. It did not observe any issues unknown to the Project Staff.

4 Presentations for Information

5 Organization for Project Management and Operations

The Board has no comments.

5.1 Overview of Construction

This included:

- Overview of the Main Civil Works Components and Project Schedule
- Overview of Construction
- Update from Independent Engineer

5.2 Project Schedule

The overall status of the Project was described as:

- Early Works Mostly Complete
- Risk to schedule from Permits and Authorizations reduced
- Environmental compliance continues to be challenging
- Main Civil Works contractor behind schedule in some activities, however BC Hydro schedule float in place to maintain overall project schedule
- Overall schedule milestones on track to meet 2019 River Diversion window
- First Nations & Litigation risk continues to be managed

The critical path of the Project flows through the progress of the excavations, on both the right and left banks of the Project. On the right bank the excavation for the RCC Buttress must be completed by April 2017, such that the RCC can begin placement by May 8th.

The following Right Bank schedule was presented:

- Approach Channel Excavations are on track for Overburden and Rock
- Rock Excavations for Powerhouse Buttress Mid-December to Mid-April
- RCC Trial scheduled to Start December 7th, 2016 and run for 15 days
- RCC to start construction 90 days after Trial
- Start RCC Placement (May 8th, 2017)

On the left bank the excavations must also be completed by April 2017 in order to start construction of both the upstream and downstream diversion tunnel portals and begin tunneling. Thus, the major excavations along both sides of the river are major factors affecting the Project Schedules. At present the Main Civil Works contractor is behind schedule in some activities, however BC Hydro schedule float in place will help to maintain the overall project schedule. It is understood that there are both major

incentives as well as liquidated damages associated with progress and completion of this work.

The following Left Bank schedule was presented:

- Main Civil Works Contract envisioned a two stage excavation on the Left Bank
- Stage 1 excavation is required as part of the scope of work of the inlet and outlet portal structures
- Stage 2 excavation with the permanent emergency access road is required by December 2021
- PRHP proposal and contract schedule was a single stage excavation (Stage 1 and Stage 2) to be completed by April 2017
- PRHP experienced delays on left bank excavations and is not able to achieved the April 2017 requirement with a single stage excavation
- PRHP is currently re-sequencing the left bank excavations to a two stage excavation in order to maintain schedule for start of inlet and outlet portal structures

Therefore, in recognition of the significance of the excavations on both abutments, the work must continue to be carefully monitored, studied and documented in order to make adjustments in Contractor production and achieve the milestones to maintain the Project Schedule.

The Board was pleased to learn that the overall Project health is good. The overall Project Schedule remains maintainable and is on track to meet the 2019 River Diversion window. In the short term, all elements support RCC placement on the Right Bank, starting May 8th, 2017 are on track. However, this is contingent on the excavation of the right bank behaving as intended. It is scheduled to be complete in April 2017 and will require enhanced geotechnical attention. This is discussed in Section 5.3, below.

A discussion around environmental conditions associated with this RSEM areas raised some issues that are discussed in Section 6.2, below.

5.3 GSS Update

The GSS Contracts were described as follows:

- GSS Civil Works
 - Includes the major civil structures (powerhouse, intakes, penstocks, spillways)

- Hydromechanical Contract
 - Includes design & supply (optional installation) of all hydromechanical equipment: gates, hoists and associated embedded parts

The present scheduling of the Contracts is:

- GSS Civil Works
 - RFP released (Sept 2016)
 - Detail design underway
- Hydromechanical Contract
 - RFQ issued (Oct 2016); RFP release anticipated for early 2017

Given the necessary interface among the equipment and structures and between these two contracts, the Board is concerned that the accommodation and timing necessary for BC Hydro to incorporate the hydromechanical details into the GSS Contract will be disruptive and cause delays and potential claims within the GSS contract. It seems to the Board that it would have been desirable for the hydromechanical contracting to lead the award of the GSS contract by several months in order to incorporate the hydromechanical information into the bidding documents of the GSS contract. At this point in the contracting it is recommended that BCH be conservative regarding the assumptions of the hydromechanical equipment and the interface details with the GSS structures.

5.4 Embankment Construction Incidents

The responses to the instability incidents at L3 Gully and the Blind Corner location were presented. The Board notes that the anticipated service life of the buried conduit at the L3 Gully might be reduced due to the deformation that it developed. The Board does not regard this as consequential.

The development of instability at Blind Corner, its evaluation and mitigation were presented. Questions have arisen related to the interpretation of this incident and they are presented in Section 6, below.

5.5 Left Bank Excavation

The status of the left bank excavation was presented. Instability was also encountered here requiring adjustments to the excavation plans. The Board has no comments other than to ensure that in future excavation plans, the contractor adequately recognizes slope instability.

5.6 Induced Seismicity

Following past recommendations of the Board, the Project has conducted an assessment of the influence of induced seismicity on potential damage to the RCC structure. The assumptions adopted are sensibly conservative and result in the conclusion that induced seismic motion would not be consequential to the safety of the RCC structure. The calculations are based on current leading practice for such assessments and the Board accepts the results as presented. Additional studies are proposed to investigate the influence of induced ground motions on structures, gates and generating equipment.

The Board requests a copy of the report summarizing this work when it is completed. It should be noted that the behaviour of the geological structure forming the base to the RCC structure will be validated in the next six months and if significant departures from the current site model are identified, these analyses may have to be re-visited.

5.7 Resident Engineering and Quality

The Board has previously written documentation on these items and welcomed a verbal presentation.

Quality Management is being addressed on site using typical and appropriate procedures and documentation. The focus for BC Hydro would seem to be on internal Quality Assurance (QA) via procedures while the perception is that the focus for the Contractor should be on Quality Control (QC) in terms of what he is building. During the meetings it was suggested that the Contractor produces good method statements describing how he intends to carry out the work but that these do not always get carried through to practice on site. This implies that the Contractor's own internal QA procedures are deficient. In addition to any Contractor inadequacies being addressed by BC Hydro monitoring on site, the Board recommends that the Contractor should be encouraged to address them by internally improving the enforcement of his own internal procedures.

6 Technical Commentary

- 1. Does the Board have any comment on design or construction of the Right Bank Cofferdam, including cold weather construction of the seepage cut-off and abutment grouting?**

The cofferdam will be constructed in two stages:

The first stage confines the river to the center of the valley and protects work areas on both valley sides for preparing the foundation construction, with priority for the RCC

buttresses. The right bank dam combines a long stretch along the shore of the river with two wings connecting it to the valley flanks on the upstream and downstream ends. At this stage the crest of the dam on the upstream side is taken to elevation 418 m.

The second stage will cross the bed of the river and divert the flow through the diversion tunnels. For this purpose, the crest of the upstream side is to reach elevation 433.9 m.

The Project had prepared a reference design but the contractual responsibility for final design and construction of the cofferdams rests with the MCW contractor. The Contractor has submitted design reports including stability and seepage analysis and method statements for construction. The Contractor complies with the hydraulic and hydrologic requirements established by the Project and uses type sections for the dams as conceived by the Project. However, in supporting this design, additional explorations have been carried out with boreholes spaced at 30 m centers, intended to provide information on the overburden and on the depth to weathered and sound bedrock. The stability and seepage analyses and construction works so far executed confirm the reliability of this information.

Earlier investigations had indicated possible existence of a liquefiable horizon in the overburden near the upstream right bank cofferdam. The additional investigations have eliminated concern of this hazard. Only minor lenses, not continuous and not capable of causing damage to the dam were detected.

The seismic stability of the cofferdam has been checked, using the 1000 and 2475 year recurrence earthquake, respectively, as defined by the Project seismic hazard analysis, i.e. PGA corresponding to 0.041 and 0.087 g. The pseudostatic factor introduced in the analysis has been set to equal the PGA, which is a conservative approach. Additionally, the possible crest settlement due to seismic loading has been estimated using empirical and semi-empirical methods. The evaluation demonstrates satisfactory performance of the dam.

The reference design of the stage 1 cofferdam had foreseen a plastic cement-bentonite slurry trench or a diaphragm wall to be taken through the dam and overburden and tied into sound rock. The Contractors methodology utilizes a diaphragm wall. Instead of continued trenching and back filling, the diaphragm is constructed in intersecting panels, alternating 3.4m (primary) and 2.4m lengths (secondary). The method offers several advantages over a more simple slurry trench construction:

- The trench is more stable and problems of deficiencies in the cut-off resulting from caving of the side walls are substantially reduced.
- The quality of the completed diaphragm is much better controlled, more uniform and with higher resistance. It is assumed that also the shrinkage of the wall can be kept favorably low.

- The frequent problem of deficiencies of the diaphragm due to accumulation of coarse debris at the bottom is practically eliminated, provided operations are controlled as foreseen.
- The construction in panels eases pre-heating of the ground and allows construction work to proceed even with low air temperatures.

Even with the advantages offered by the adopted methodology, the difficulty remains to seal the diaphragm into the rock. The depth actually obtained complies with the requirements of the reference design but does not necessarily allow comprehensive treatment of sprung bedding planes, which may still exist at slightly larger depths inside the sound rock. Such bedding planes, if and where existing, could cause local seepage entering the construction pit. Such seepage is not expected to cause critical erosion in the rock but it may be capable to undesirably raise the infiltration to the excavations and cause local uplift. Accordingly, the need for complementary treatment, e. g. by grouting and by drainage, is not definitely excluded. Board therefore endorses the installation of monitoring devices, which will allow detecting and locating the development of hydrogeological complications.

The hydrogeological modelling of the seepage through the dam and the foundation predicts satisfactory performance. Nevertheless, the models may not incorporate certain details of the hydrogeological properties of the foundations. For instance, the models assume isotropic permeability in overburden and embankment fill whereas anisotropy with higher horizontal permeability is commonly experienced. The anisotropy could reduce the seepage discharge but increase the exit gradients of the seepage flows. For this reason, the importance of monitoring must, again, be emphasized. Monitoring, additionally to the piezometers, should include the seepage flows and regular visual inspections checking the appearance of sediments in the water

The upstream wing of the cofferdam connects with the rock at the toe of the slope. The explorations, especially the adits, demonstrated pervasive development of relaxation joints in the exterior zone of the slope. The relaxation joints not only would be prone to channel notable seepage bypassing the cofferdam, they could also build undesirable hydraulic thrust along the side of the excavation. Therefore, the TAB strongly endorses the construction of a grout curtain. In consideration of conditions seen in the adits, the curtain should extend at least 25 m into the slope but it would be prudent to confirm the extension by initial probe holes. Grouting methodology may have to cope with two specific concerns:

- the risk of causing excessive jacking of the existing joints
- the difficulty of controlling the reach of penetration of the grout and thus the building of an effective curtain

With these concerns, the TAB would suggest to consider a triple row curtain for the stage 2 cofferdam, subject to the findings of primary holes. If notably opened joints should exist, the outer rows could be grouted with stiff slurries, even mortars, and the

central row with penetrative slurries and seal the curtain. The contractor adds bentonite to the slurry. This can be done to stabilize the slurry but it has the effect of raising the yield and thus reducing the reach of the grout. Thus, its use in the standard slurry should be based on relevant test results.

Drilling is done with a button bit. This bit will crush the weak shale and create a mud cake sealing finer fissures if the hole is not adequately flushed. The need for adequate flushing is recognized by the contractor.

The equipment used by the contractor records pressure and flow of the grout pumped into the hole. These parameters have to be observed carefully during the grouting process. A drop of pressure and a rise of the flow rate would indicate hydraulic jacking. If stable grouts are used, moderate jacking is not objectionable but if drastic effects materialize, the pump should be throttled or even stopped and the grout allowed to set and build resistance. The hole will have to be re-drilled and re-grouted or a grout hole has to be added in its vicinity.

The Board was advised that the project and its grouting consultant have favoured specifications that favour low pressure, primarily because of the concern of jacking in and bedding planes opening sub-vertical joints. This is understandable. However, there are also views that some jacking may be advantageous if penetration is controlled by the GIN methodology. There was not adequate time to discuss these matters in detail, particularly the use of GIN curves at low pressure, and therefore the Board requests that the Project summarize the proposed methodology in a Technical Memorandum, recognizing the Contractor's current monitoring capability. These matters should be discussed at the meeting proposed for February 20, 2017.

2. Does the Board have any comment on the design of the Stage 2 cofferdam?

Many aspects already discussed for the Stage 1 cofferdam, such as the need for regular seepage monitoring, also apply to the Stage 2 works. The Stage 2 cofferdam represents river closure and diversion of the Peace River through the left bank diversion tunnels. To do this sections of the left and right bank Stage 1 cofferdams are raised to a crest elevation of +433.90m and extended across the main river channel using a similar arrangement. Both cases feature an upstream cut-off below elevation +422.00m and taken 1m into sound rock. The right bank Stage 1 cofferdam achieves this by means of a slurry wall as discussed in response to Question 1. In the case of the river closure section it is achieved and expedited by means of interlocking steel piles.

In both cases the Stage 2 cofferdam extends downstream from the Stage 1 cut-off, rises to El +433.90m and is sealed internally with a centrally located, inclined earth core. An earth blanket at approx. El +421.00m connects and seals the cofferdam between the inclined core and the upstream lower cut-off. It is understood that this flat area has been dimensioned to provide a generous working area and hence to minimise the risk

of interference between different activities. This is especially relevant at the flanks where the existing Stage 1 cofferdams are to be raised. However the opportunity may exist to slightly reduce this provision in the case of the new, main river closure section. In any case the connections between the cut-off slurry walls and the sheet piled cut-off wall, will need careful design and detailing.

The core and blanket will be formed of either Type 1 till material or the more widely graded Type 1e material comprising glaciolacustrine / crushed shale / colluvium. Either should be acceptable. Downstream of the core and below the blanket, some form of filter is needed to prevent the migration of fines into the main embankment type 3 fill material. The reference design indicates a geotextile filter fabric. An alternative could be appropriately graded layers of Type 2a and Type 2b filter material. It is understood that the Contractor's prices for the two alternatives are similar.

The likelihood of upstream water levels reaching the upper elevations of the Stage 2 cofferdam is rare. For example a tunnel flow of 3,000 m³/s with a probability of about 1:80 represents an upstream water elevation of +430.90m. The top of Stage 2 cofferdam elevation of +433.90m assumes protection against a tunnel flow of 3,200 m³/s at a probability of approx. 1:160. Furthermore such levels would only be sustained for a few days (16 days assumed for design purposes). Nevertheless the Board is also aware that the consequences of failure could be significant both in terms of damage downstream and possible loss of life and in terms of reputational risk to BC Hydro.

The opinion of the Board is that the use of double filter layers represents a more secure solution than the use of a geotextile and also that using appropriate placement techniques, such as simultaneous placement via spilt boxes, it should be just as quick to construct. The Board would therefore recommend the use of double filter layers unless a significant benefit can be demonstrated to the project by adopting a geotextile.

In addition to the above there is a one metre thick Zone 1 impervious till blanket under the upstream slope of initial stage of the Stage 2 cofferdam to El. 421 m. This till zone is founded on granular Zone 3. It is realized that the use of this till zone is very short term for up to about six weeks till the steel pipe pile cut-off is installed downstream. Nevertheless it recommended to place a geotextile in between the till and Zone 3 to act as a filter between the two zones.

The Contractor proposes to use rip-rap which meets the requirements of the Engineering Design Team. Judging visually the material currently being used at site is suitable. However with the formation of vortices and local scour in the river bed, the capability for maintaining the rip-rap should be provided.

3. Does the Board have any comments on the monitoring and instrumentation results to date and mitigation planned to address the schedule for the Right Bank Drainage Tunnel?

The Project has long recognized that the greatest geotechnical uncertainties that could impact Project schedule are associated with the Right Bank excavation and subsequent RCC platform construction. As a result of this recognition, the Project has implemented a comprehensive observational program to monitor the response of the rock to excavation and to manage the uncertainty by means of the observational method. This is documented in the following:

- i. RCC Buttress and Approach Channel – Early Excavation Requirements. Memorandum, INT-1196, January 2014

This presents the results of FLAC Analyses that determine the early excavation requirements of the approach channel and RCC buttress to facilitate early installation of monitoring equipment used for the Observational Method.

- ii. As above, Technical Advisory Board, March 3-6, 2014
- iii. RCC Buttress Excavation – Concepts of Observational Method, Memorandum, INT-1194, January 2014

This summarizes the uncertainties of concern and how they would be recognized and managed by the Observational Method.

- iv. As above, Technical Advisory Board, March 3-6, 2014
- v. RCC Buttress Excavation – Instrumentation Design, Memorandum, INT-1206, February 2014
- vi. As above, Technical Advisory Board, March 3-6, 2014

The original concept to monitor the rock slopes at the RCC Buttress from the Right Bank Drainage Tunnel (RBDT) was not achieved. An alternative plan to install instruments from the surface was proposed by PRHP and accepted. The initial phase is complete allowing the excavations for the Approach Channel and Powerhouse Buttress to proceed to El. 406m. A second phase of additional instruments from the surface must be in place when the excavation from the Powerhouse Buttress reaches El. 406m. The instruments approved for this installation and the layout are described in Inter-Office Memo, "RCC Buttress instruments and drainage installed from surface due to delay in construction of Right Bank Drainage Tunnel, November 10, 2016". A summary of available data

for right bank instrumentation has been presented in Inter-Office Memo, "Summary of Available Data from Right Bank Instrumentation, November 8, 2016".

The current excavation schedule requires completion by April and is a critical path item. To apply the Observational Method under these circumstances is very challenging and it requires prompt data processing, interpretation and up-dating of any mitigation measures that are under consideration at the time.

The layout of alternative instruments from the ground surface has been appropriate. Alternative drainage measures in the absence of the RBDT have been developed. The sequence of excavation to date is well-documented.

The observations from the instrumentation to date was reported. Movements have been detected in inclinometers installed in 2010. Recently the vertical extensometers have responded to the excavation. This data is continuous in time and appears to be rich in information. The Board is appreciative of this contribution to the monitoring.

During drilling high water pressures were induced in an open joint that induced small movements nearby on BP25. This has been interpreted as a jacking process and the Board agrees. Similar communication along open joints has been encountered in the past. The incident highlights the need to eliminate the ponding of water at the surface of the excavation until it has been sealed. This is an important issue and the Board recommends that a strict protocol be established as soon as possible

The intent of this instrumentation is to evaluate whether the rock mass is behaving as assumed following the excavation and subsequent re-loading by the construction of the RCC Buttress. In addition, it is intended to assess whether the special joints proposed in the RCC Buttress can be eliminated. There is a substantial economic benefit in doing so. As presently being executed, the Board is not confident that adequate assessments will be made in a timely manner. The response of the deformation monitoring instruments is affected by the three-dimensional aspect of stress changes and excavation unloading proceeding in time. The detailed geological structure also affects both deformation and available shearing resistance. Interpretation is complex.

The Board recommends that the monitoring and interpretation effort be strengthened immediately by means of the following:

1. Re-assess instrumentation needs over the next six months to evaluate rock decompression deep in the mass and at depth to the critical BP's. This

should include data to evaluate the ultimate installation of drains required for long-term depressurization.

2. Add geological resources to capture the geological/structural detail as the excavation unfolds. Since the right bank excavation is proceeding rapidly the Board recommends that several geologists be assigned to the site as soon as possible to observe, photograph, and map the rock conditions.
3. Develop a geomechanical and seepage model of the excavation process that history-matches observations and make forward projections.
4. The model should be capable of introducing pre-existing stresses, three-dimensional unloading and discontinuities (joints).
5. It should be operated at the outset with simple formulations; growing in complexity as data and information warrant.
6. The effort should be guided by Dr. Derek Martin.
7. An assessment of ultimate stability should also be included with periodic updates.

The Board wishes to be informed of progress in this activity and has recommended that a one day meeting be convened in Vancouver on February 20, 2017.

4. Does the Board have any comment on the plans for the RCC trial including cold weather considerations and preparations for RCC placement?

The past several months have been spent investigating the various aggregate borrow areas for RCC aggregate needs. The Contractor has finally obtained the proper crushing equipment to develop the desired aggregate shape and quality. There is still some question regarding the need for washing of the coarse aggregate; however this will be evaluated shortly and factored into the program. Brian Forbes, RCC Consultant spent several days at the site in October and provided good and additional insight to the Contractor regarding both the RCC mixes as well as recommended means and methods for successful RCC.

There have been over 150 trial mixes developed and tested to select the optimum mix for the test trials and project needs. The focus was on gradation, particle shape, density, strength, admixtures and workability. The desirable mixes have been selected, based on the results of accelerated curing tests to represent the 365 day strength. The test trials will begin in early December.

The Board is impressed with the work and planning with regard to the RCC trial placements. The various placement conditions to be tested are defined and are all inclusive and will represent most if not all of the potential foundation and interfaces to be encountered. The cold weather conditions will be simulated at controlled temperatures in a large enclosed structure roughly 98m by 30m and the trial placement will be 40m x 10m with 300mm lifts. The program will consist of 12 lifts in December and 2 additional lifts in spring just before the RCC buttress placement commences.

7 Additional Matters

7.1 Blind Corner Slide

The Blind Corner Slide developed in an important site access road along the valley wall. Instrumentation and characterization identified shearing near or at the top of bedrock and back-analysis revealed a low shear strength of about 10°. Stabilization measures are targeted to a Factor of Safety of 1.5. The low shear strength and position support the notion that the slide may be moving on a pre-sheared bedding plane in the shale, possibly a sub-crop of BP12, which has comparable strengths.

The Board is of the view that the slide investigation has been addressed in an acceptable manner but it has reservations about the interpretation that the low shear strength encountered is only of limited extent. The borehole data are not conclusive.

The Board requests additional evaluation of the likely distribution of the low shear strength material and an assessment of whether this reserve resistance (Factor of Safety) of adjacent reaches of the road are adequate for such an important artery.

7.2 Project Environmental Sensitivity (RSEM Avenue)

The Board was pleased to be updated on the precautionary measures being undertaken to manage the risks associated with acid generation from the waste areas on site. They are comprehensive. From discussions with the Regulator, the Board learnt that criteria for regulatory compliance may be assessed on a risk basis.

In discussion, the Board raised the perspective that scientific measures and criteria for dealing with such issues may be found wanting when criticized from more holistic perspectives. In order to engage in such discussions, if necessary, the Board supports that intent of the Project to gain a more comprehensive understanding of the geochemical sources of both all significant surface water and groundwater sources entering the reservoir basin.

8 Future Meetings

The Board suggests the following meetings, subject to BC Hydro approval:

1. February 20: one day meeting in Vancouver to review right abutment performance and both grouting specifications and experience
2. June 5 – 9: full week, including travel, on site review and technical update

Respectfully submitted,

Attachment A – Meeting Agenda

**Site C Clean Energy Project
 Advisory Board Meeting No. 16 - Report**



**Site C Clean Energy Project
 Technical Advisory Board Meeting No. 16
 November 2016**

Location: Fort St John, BC and 333 Dunsmuir, Vancouver BC

Day 1 (November 21, 2016) Travel to FSJ

Time	Title	Presenter / Time Allocated
15:05 to 17:45	Air Canada Flight AC8185 from YVR to YXJ	Engineering team representative will meet board members at YVR
	N.R. Morgenstern, J. Ehasz, P. Mason	
	Travel from FSJ Airport to Worker Accommodations	
18:05 to 20:45	Air Canada Flight AC8187 from YVR to YXJ	Engineering team representative will meet Dr Riemer at YVR
	W. Riemer	
	Travel from FSJ Airport to Worker Accommodations	

Day 2 (November 22, 2016) Meeting Room BCHydro Construction offices

Time	Title	Presenter / Time Allocated
06:45	Breakfast WA Cafeteria	
07:30	Meet Outside WA Cafeteria	
07:45 to 08:00	Site Orientation and Safety Moment	
08:00 to 08:30	Introduction, Meeting Purpose and Agenda Overview	
08:30 to 08:45	Update on TAB Tracking Log	
08:45 to 09:15	Update on Generating Station and Spillway Design and Procurement	
09:15 to 10:00	Overview of Construction <ul style="list-style-type: none"> • Review of Components and Project Schedule • Overview of Construction • Update from Independent Engineer 	
10:00 to 10:15	Break	
10:00 to 11:45	Excavations, Monitoring and Instrumentation <ul style="list-style-type: none"> • Overview of Road Construction Left Bank Excavation 	

**Site C Clean Energy Project
 Advisory Board Meeting No. 16 - Report**



**Site C Clean Energy Project
 Technical Advisory Board Meeting No. 16
 November 2016**

Location: Fort St John, BC and 333 Dunsmuir, Vancouver BC

Time	Title	Presenter / Time Allocated
	<ul style="list-style-type: none"> ▪ Right Bank Excavation Instrumentation, monitoring and drainage of right bank excavations • Review by Derek Martin 	
12:00 to 12:45	Lunch at Worker Accommodations Cafeteria	
12:45 to 13:15	Cofferdams <ul style="list-style-type: none"> • Update on Stage 1 Cofferdam • Winter work requirements and contractor's plans • Grouting of abutment • Instrumentation • Update on Stage 2 Cofferdam Design 	
13:15 to 14:00	RCC <ul style="list-style-type: none"> • Update on trial mixes • Update on aggregates, contractor's set up • Contractor's materials (cement, flyash, etc.) • Contractor's plans (conveying, batch plants, etc.) • Trial placement • Plans for protection of rock 	
16:00 to 16:30	Induced Seismicity	
16:30 to 17:00	Update on Quality and Resident Engineer Processes	

Other Attendees:

**Site C Clean Energy Project
 Advisory Board Meeting No. 16 - Report**



**Site C Clean Energy Project
 Technical Advisory Board Meeting No. 16
 November 2016**

Location: Fort St John, BC and 333 Dunsmuir, Vancouver BC

Day 3 (November 23, 2016) Site Tour and BChydro Construction Office

Time	Title	Presenter / Time Allocated
06:45	Breakfast	
07:45 to 8:00	Site Tailboard Orientation	
08:00 to 12:00	Site Tour: Right Bank Cofferdams, Excavations and RCC Facilities	
12:00 to 12:30	Packed Lunch	
12:30 to 14:30	Tour of Left Bank	
14:30 to 16:00	Discussion	
16:00 to 17:45	TAB time for preparing report out	

Other Attendees:

Day 4 (November 24, 2016) Travel to 333 Dunsmuir, Vancouver

Time	Title	Presenter / Time Allocated
06:45	Breakfast	
08:00 to 9:30	TAB prepare short report out	
9:45 to 10:05	Travel to FSJ Airport (pack lunch)	
12:05 – 13:00	Travel to Bentall	
15:30 to 16:00	Travel to Dunsmuir , 333 Dunsmuir	
16:00 to 17:00	Report out to Executive and Project Board Duns 2 – Customer Presentation Centre	TAB verbal report out

Attachment B - A List of Meeting Attendees

**Site C Clean Energy Project
Advisory Board Meeting No. 16 - Report**

Site C Clean Energy Project CCM Daily Sign in Sheet									
Date	Name	Time		Location	Time		Location	Time	
		In	Out		In	Out		In	Out

]

Site C Clean Energy Project

Technical Advisory Board Meeting No. 17

Report

(June 5 – 9, 2017)

June 2017

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1 Introduction

The 17th meeting of the Technical Advisory Board (the Board) was convened at the Site C Construction Site in Fort St. John, during June 5th, to 7th and in Vancouver during June 8th and 9th. The primary objectives of this meeting were to undertake a review of the technical aspects of the Main Civil Works (MCW) including:

General construction progress to date

Left bank excavation progress

Right bank excavation progress

Aggregate processing and stockpiling

Preparation for RCC placement

Design progress on various features such as cofferdams and tunnel portals

The agenda for the meeting is included as Attachment A. Attachment B is a list of attendees during the meetings. A debriefing was conducted with the executives of BC Hydro and the Project Board on the afternoon of June 9th.

Four questions were put to the Board:

1. Does the Board have any comments on the performance and assessments of the right bank excavations?
2. Does the Board have any comment on the design review for the left bank structures including the long term drainage measures?
3. Does the Board have any comment on the plans for the upcoming RCC placement?
4. Does the Board have any comment on the design of the Generating Station and Spillways prior to issuing the Structural and Hydro-Mechanical Contracts?

2 Tracking Log

The Board received a status report on the Tracking Log to June 2017. It is pleased to report that several items put forward by the Board have been addressed. In particular the Items with regard to Debris Management and Diversion are in progress as well as the Cofferdam and Monitoring of the Right Bank Slopes. The Left Bank Slopes continue to be addressed, see Item on Left Bank discussion, Section 5.2.

However, with respect to the response to Item 152 (QC/QA Contractor Procedures) there still needs to be firm commitments enforced regarding Quality Procedures, see Section 4.6.

3 Site Visit

An overview of the construction progress was presented during the morning of Monday, June 5th and presentations of the various project features were given in the early afternoon. A site visit to the left bank was made to observe the conditions of the various slide areas, such as the L3 Gully, the Blind Corner slide and the Left Bank Tension Crack Area. On the morning of Tuesday, June 6th the right bank excavations, mapping and drainage were discussed as well as the RCC program, together with the plans for the future RCC program and schedule. Tuesday afternoon was spent at the right bank and the RCC and aggregate production areas.

During the site visit various features of the project were observed and discussed.

Right Bank Cofferdam was observed to be in very good condition. The crest and side slopes were well aligned and the under-seepage was thought to be very low. While low, the Board recommends that a record of seepage discharge be maintained with a record of sources of seepage.

RSEM R5a was observed with its confining dykes to form a substantial containment for capturing seepage waters and preventing them from entering the river.

Right Bank Excavations The fragile nature of the shales showed surface degradation of all of the rocks along the right bank excavations. The current means of protecting the surfaces with geofabrics subjected to periodic wetting is doubtful.

Right Bank Drainage The locations of the present wells and pump system was observed and discussed. The Contractor's method of maintaining the pumps is not acceptable and not effective in lowering the water within the right bank.

Aggregate Processing was observed. The natural in-situ materials provide a good source of aggregates for the Project. The Contractor is having some difficulty producing the in-specification materials and continues to add equipment to achieve the necessary products.

4 For Information Only

4.1 Overview of Construction

As discussed in Section 3 the Site is very active on many fronts. The primary activities have been the major excavations on both the left and right banks of the Project. The left bank activities have been hampered recently by the unstable slide areas that were caused by the Contractors access road activities and have since caused delays in removal of the overburden materials necessary to access the upstream diversion tunnel portals. The right bank activities have progressed well to expose the deep cut and slope

necessary for the RCC Buttress construction. Unfortunately, the right bank drainage tunnel has not made any progress due to contractor submissions to WorkSafeBC and associated approvals. The right bank cofferdam has been completed and is functioning well. The RSEM waste disposal areas are completed and are functioning well to facilitate the safe storage of the major excavation materials being developed. The concrete and RCC aggregates are being developed and preliminary crushing, screening and stockpiling of materials are underway. New and higher capacity crushers are being assembled for use in the upcoming RCC Buttress construction.

4.2 RSEM Areas

The Board had in the past recognized that the environmental management of the RSEM areas will be a sensitive issue and a precautionary approach is needed to ensure compliance. This has proved to be the case as exemplified by the change to the Peace River discharge criteria. The Board was pleased to see the design and construction of the RSEM areas and to be briefed on the PRHP water management philosophy as well as ongoing discussions with the Regulator regarding various discharge limits. To date, no ARD has appeared and the challenge of water management is focussed on TSS control.

The Board queried whether the Project readiness for ARD and substantial volumes of affected water is adequate. It learnt that the plan, sensibly, relies on a responsive Contractor. Given the current circumstances, this constitutes a risk and the Board suggests that a focussed risk analysis be conducted to assess what measures need to be in place when storage and treatment are required, and deficiencies in the execution by the Contractor become evident.

4.3 Cofferdams

The Stage 1 right bank cofferdam (RBCD) has been completed since the last TAB visit and the Stage 1 diversion inlet cofferdam is nearly complete. The work has been done to a good standard and the areas downstream are essentially dry. The RBCD includes sections sealed by grout curtain and sections with diaphragm slurry walls. Tests on the slurry mixes showed notable variability with some results suggesting the mixes used may have been too strong and hence brittle. The RBCD is well instrumented and results indicate that the RBCD is behaving well and as intended. At the same time the Board would stress the importance of monitoring seepage at these and other similar works.

4.4 Debris Management

The Board was introduced to current proposals for debris management at Site C. These range from measures for vegetation clearance upstream to the general provisions of booms and specific provisions for preventing debris entering the diversion

tunnels. A decision flowchart was presented for vegetation clearance together with associated debris management plans and clearance criteria. These were all well thought out and included temporary and permanent boom facilities at strategic locations at the Moberly and Halfway rivers and also just upstream of the main dam. These are to be designed to guide or retain floating debris but not to retain floating ice.

The Board was also updated on the various measures planned to keep debris from entering the diversion tunnels especially at critical times which could prevent eventual closure. The proposals have been discussed before and include a rock trap, anchored debris posts and, following an earlier suggestion by the Board, underwater sonar monitoring. The arrangements are currently being developed and finalised with the aid of a computational fluid dynamic (CFD) model. The Board is satisfied with the arrangements under consideration including craneage for debris removal.

4.5 Ice Flow Studies

On occasion, floating ice on the Peace River has built up from downstream as far as Site C. There was concern that were this to happen when the diversion tunnels were operating, additional ice passing through the tunnels could enhance downstream blockages and raise water levels locally. This would then affect levels upstream of the tunnels with a potential danger to the cofferdams. In view of this BC Hydro have commissioned studies to investigate the matter and the results of these were presented to the Board.

The specialist ice modelling was carried out using the CRISSP 2D flow modelling package developed by the Clarkson University at Potsdam, New York specifically for investigating ice flows and blockages. Flows varying from 400 to 2,000 m³/s were simulated in conjunction with an assumed steady supply of floating ice from upstream. It was found that when ice passed through the tunnels to an extent which caused downstream blockages, the associated rise in river level upstream then prevented further ice from entering the tunnels whilst maintaining full water flow. In other words, the system is self-regulating. The Board was satisfied that sufficient work has been done on this to demonstrate that floating ice will not threaten diversion arrangements.

4.6 Quality Management

At the last TAB meeting in November 2016 the Board wrote that; *“Quality Management is being addressed on site using typical and appropriate procedures and documentation. The focus for BC Hydro would seem to be on internal Quality Assurance (QA) via procedures while the perception is that the focus for the Contractor should be on Quality Control (QC) in terms of what he is building. During the meetings it was suggested that the Contractor produces good method statements describing how he intends to carry out the work but that these do not always get carried through to practice on site. This implies that the Contractor’s own internal QA procedures are deficient. In addition to any Contractor inadequacies being addressed by BC Hydro monitoring on site the Board recommends that the Contractor should be encouraged to equally address them by internally improving the enforcement of his own internal procedures.”*

It would seem that this situation has not improved. Indeed BC Hydro site staff have had to become much more involved in site monitoring and auditing in order to compensate for deficiencies by the Contractor in supervising his own workforce. This is taking much staff time and indeed BC Hydro staff numbers on site have increased progressively along with construction in order to ensure that adequate construction quality standards are being met. This is a less than ideal situation which is recognized by BC Hydro’s senior management. The Board supports the efforts of BC Hydro senior management to address this issue with the Contractor’s organisation at the highest level.

4.7 Risk Register

Threats to the Project are summarised on a regular and simple basis using a "Project Dashboard". At the same time a full risk register records potential threats in more detail together with mitigation strategies. This was over-viewed by the Board and its use is commended as a live and useful document. However, it was noted that the delay in driving the right bank drainage tunnel was recorded as a potential threat to project schedule and not with regard to the way in which its absence might threaten the stability of the main right bank excavation. The Board would recommend that the register be reviewed from time to time to ensure that changes to the character of known risks are also fully reflected.

5 Technical Commentary

5.1 Question 1: Does the Board have any comments on the performance and assessments of the right bank excavations?

5.1.1 Monitoring

Excavation has proceeded at the right bank with the protection of the Stage 1 cofferdam which was completed in April 2017. The focus of the excavation is to advance construction of the powerhouse, to be followed by excavation for the construction of the spillway. The excavation is extensively monitored by means of piezometers, inclinometers, extensometers and surface monitoring. This program of data gathering and interpretation is being conducted in a skillful manner.

The summary of information presented to the Board stated the following:

i) Inclinometers and Extensometers

Some movement on bedding planes in advance of excavation; more movement as excavation crosses that bedding plane, movements stop after bedding plane daylight

Abrupt small displacements in response to blasts; steady trends between blasts

Response to rainfall significant at some locations; little to no response at others

One extensometer may show an indication of swell-induced deformation

ii) Piezometers

The piezometers display stable or falling trends and the slope is generally well-drained

Some piezometers display short-term increases due to infiltration associated with snow melt or rainfall

There is no piezometric head on BP25 and BP28

Piezometric heads on BP31 and BP33 are influenced by the operation of wells and water levels within the buttress excavation

iii) Wells

Recharge rates increase with time, suggesting that deformations increase the hydraulic conductivity by opening fractures

iv) Slope Prisms

The reliability of information obtained by monitoring slope prisms remains to be determined

The behaviour of the excavation is generally acceptable and consistent with the conceptual model developed in the design of the right bank.

Monitoring will go on for a long time. The Project should improve its presentation of monitoring data by integrating the observations and displaying the responses on cross-sections together with stratigraphic and installation details. These plots should become a standard for the long-term monitoring expected at this location.

Monitoring of surface prisms will likely expand in the future and this data could be improved by robotic measurements creating more frequent data with greater accuracy.

Findings from experience so far also indicate the need to improve surface water management in order to reduce infiltration. The operation of the well drainage system also requires improvement as discussed in more detail below.

5.1.2 Bedrock Mapping

The bedrock mapping effort continues to improve our understanding of the shale deposit and the Board recommends continuation of this effort as the opportunity arises.

5.1.3 Stability

New calculations of stability of the excavated slope have been presented using different methods to calculate the Factor of Safety. The Project advocates relying on the results of the Sarma analysis but the Board is reluctant to do so without a more exhaustive set of analyses. The outcome will affect the declaration of the likely reserve resistance (Factor of Safety) available during construction at various phases, and thereafter. Other analyses have projected deformations during construction. The comparison with observations and theory will also be of value in final assessment of stability.

The Board recommends that the following analyses be conducted for presentation at a proposed workshop of the Board.

- i) Conduct additional 2D-Sarma analyses with simple kinematic restraints for comparison with the results from MP analyses
- ii) Conduct 3D-CLARA analyses to evaluate the contribution of 3D restraints to stability for various length/height ratios

- iii) Run the 3DEC model with plasticity to investigate the potential failure mode that develops
- iv) Conduct RS2 analyses with appropriate sensitivity studies of input properties
- v) Evaluate whether FLAC modelling to failure would add value

5.1.4 Drainage

The Board is concerned about the lack of progress of the Drainage Tunnel. The significance of this delay to schedule is recognized by BC Hydro. However, the perspective of the Board is somewhat different. The design concept for performance of the right bank relies on extensive internal drainage. The delay of these installations increases risk of poor performance. The Project has already accepted some compromise measures associated with the delayed start-up of the Drainage Tunnel. Further delay may compromise the integrity of the design.

In the experience of the Board, the execution of the tunnel is a relatively minor undertaking with ample precedence. The Board has the sense that the delay results from contractor construction plans awaiting review and approval from WorkSafeBC. The Board urges BC Hydro to take all possible measures to overcome this impasse.

At this time, drainage relies on vertical wells that appear to be operating spasmodically due to a limited number of installed pumps and apparently irregular and unacceptable operating procedures. Local rock movements in the slope are aggravated by water pressure developing in joints within the rock. Efficient drainage is a critical defensive measure. The Board recommends that the installation and operating procedures be improved in this regard.

5.1.5 Rock Surface Protection and Surface Water Management

At this time, considerable effort is devoted to removing the weathered and softened shale from the exposed surface of the rock. A geofabric is in place which was intended to be moistened to reduce the deterioration but was not seen to be effective in this regard. Moreover, the control of potential infiltration into joints within the rock appears to be minimal.

In the view of the Board, all of these measures would be improved by utilizing shotcrete at the face of finished excavations. Deterioration due to slaking would be reduced which might also reduce the cost of surface preparation. In addition, the potential for infiltration into joints, particularly in the near surface zone where confining stresses are low, would also be reduced.

The Board recommends that fibre-reinforced shotcrete be introduced where feasible to protect final rock surfaces.

5.2 Question 2: Does the Board have any comment on the design review for the left bank structures including the long term drainage measures?

5.2.1 Status of Works

Excavation on the left bank currently has reached close to 50% of the Stage 2 target. On the upstream side, material above the diversion tunnel portals remains to be removed. Major volumes still have to be excavated at the core trench and above the diversion tunnel outlet structure. For various reasons, excavation work was suspended in March.

Minor slope movements inside the excavation have been experienced but with the implementation of the designed slope, these features have been eliminated. However, there were three incidents of slope failures which required remedial action:

1. The slide at the culvert crossing of the L3 Gully bank access road
2. The “blind corner slide” on the left bank access road
3. The “left bank existing road upgrade slide” (LBERU)

Three borehole inclinometers installed in the completed part of the left bank excavation recorded slight tilting and some surface creep. The general performance of the finished slope is satisfactory.

5.2.2 L3 Gully Crossing

Construction of the road and excavation for the foundation of the culvert had reactivated a dormant slide. Buttress fill, partially reinforced, stabilized the slide. No further action is required.

5.2.3 Blind Corner Slide

The slope movements cut across the access road.

The back of the slide mass follows the contact between shale bedrock and colluvium and a subhorizontal bedding plane at the top of the bedrock controls the slip surface. Shear strength parameters for stability analysis were obtained from back analysis.

Morphological conditions and proximity to the property boundary constrain the options for remedial measures. With these conditions, the design adopted for stabilization included the construction of the working berm across the frontal reach of the slide mass and the installation of 109 piles drilled from this berm through the slide mass and keyed

into the bedrock. The piles raise the shear resistance to reach a safety factor of 1.5 under static conditions and above 1.1 under earthquake loading.

The design deals appropriately with the geotechnical model of the slope. Monitoring will have to continue in accordance with site requirements.

5.2.4 Left Bank Existing Road Upgrade Slide

The movements affect an area of the left bank where past geological surveys had suspected a fossil landslide. Activities related with temporary works – extraction of material in the valley floor as well as placement of fill for the temporary road – changed the mass distribution in the area of the fossil slide. Eventually, these activities together with infiltration due to snow melt in early February triggered the movements. Displacement rates accelerated to 2 m/day and accumulated to more than 5m. Thus, the shear strength in the failure plane will certainly have dropped to residual level if not already there.

Exploratory drilling, deformation monitoring with borehole inclinometers, surface monitoring and also piezometric records helped to establish a model of the slide mass. Shear strength estimates derived from back analysis differed notably, depending on the assumption of pore pressures and shear strength parameters. Monitoring in LB-10, located on the cofferdam and the road fill, demonstrate a very pronounced rise of pore pressure near the base of the slide mass indicating ongoing sensitivity to loading.

Two buttresses, placed as an immediate remedial measure over the flat segment of the failure plane, have succeeded in essentially stopping the movement. However, the buttresses only offer a temporary solution. Substantial further work in the area of the slide mass and its vicinity will have to be carried out, for completion of the access road and of the inlet structure of the diversion tunnel.

The Board attributes high importance to the treatment of this stability problem. It has the potential of interfering with the commencement of works at the inlet portal structure and in consequence could lead to substantial delay the entire project. The mechanics of the slide have not been unequivocally established but it is obviously capable of abrupt and drastic responses to any adverse changes in mass distribution or other causes raising the pore pressures. These conditions call for adopting conservative measures and careful planning and sequencing of all activities in this area. Risk management should embark on the development of the corresponding designs and plans of action which should be given a high priority to pre-empt critical delays. In this context, the Board recommends a detailed execution plan be developed for future works at this location.

5.2.5 Slope Support at Diversion Tunnel Portals

The diversion tunnels enter and leave the left abutment nearly perpendicular to the left bank. This arrangement implies the risk of undercutting stress relief joints in the rock mass. Therefore, support by a pattern of tensioned rock bolts has been designed.

The Board has the impression that the envisaged support might be on the conservative side, a condition which is justified because a reliable support has to be applied concurrent with the advancing excavation, pre-empting stability problems that may possibly emerge when the cut enters deeper horizons of the rock. Nevertheless, the Board recommends evaluating certain modifications. In this regard, the following can be mentioned:

Geological investigations intended to provide direct information on the rock mass structure and its implication for stability, and

Substituting fully grouted dowels for tensioned monobars.

Some of the advantages of the dowels would be that their installation is easier, less time is required for obtaining the resistance, no special element for an anchor head is required, and long term corrosion protection is less demanding.

Monitoring of the cuts during and after excavation will have to be provided.

5.2.6 Drainage

The design of the grout curtain and drainage system for the main dam shows an unusually sharp upstream deviation from the dam axis in the upper reach of the dam. The Board understands that this arrangement is imposed by the presence of the former test chamber and by the configuration of the contact between bedrock and overburden. The Board agrees that the design appropriately matches the existing conditions in the left abutment.

5.3 Question 3: Does the Board have any comment on the plans for the upcoming RCC placement?

The RCC Test Placement and Evaluation Program went very well during the last winter season and acceptable placing techniques were verified. The present RCC field program has advanced somewhat, in that an area in the lower spillway basin has been prepared for RCC placement with the proper foundation cleaning and concrete placement as a base for the RCC materials. The present production plan is to place 425,000m³ by the end of 2017. Given the present equipment and conditions of the new large aggregate plant and the present conveyor assembly, it is questionable that RCC production will meet the contractors proposed schedule.

The temporary RCC aggregate production facilities are in place and operating, however, there are several quality issues to overcome. The issues are: 1) Lack of experienced supervision and staff; 2) non-uniformity of the aggregate, leading to poor quality RCC; 3) Low production capacity, leading to extended schedule; 4) Cleanliness of the aggregate, necessitating washing of all coarse aggregate; and 5) Extension of overall RCC schedule and potential interface problems with the GSS Civil Contractor. In addition, the Contractors Quality Control Program and Testing Lab are not in place to support the RCC placement schedule.

Given these circumstances, the Board recommends that the Project undertake contingency planning in the event a production short fall arises, and subsequent RCC placement may have to continue along side adjacent spillway excavation.

5.4 Question 4: Does the Board have any comment on the design of the Generating Station and Spillways prior to issuing the Structural and Hydro-Mechanical Contracts?

During a short visit on the Project in February, one Board member reviewed the drawings produced at that time for the GSS civil works. A number of comments were made on details such as the need for adequate anchoring between the stilling basin RCC works and the associated facing walls and apron slabs. Comments were also made on the internal concrete profiling of gate soffit structures. The Board was pleased to note that these comments have been addressed. Horizontal water stops between concrete lifts in the lower stilling basin facing walls may not be necessary, depending on what design assumptions are made with regard to securing the reinforced facing walls into the underlying RCC. However, the Board recommended that they remain shown on the drawings while the matter is being considered and while bids are being finalised. Their presence is unlikely to affect total bid prices whereas adding them post bid would likely be costly. On the other hand, if it is shown later they can be omitted that should provide schedule and/or cost benefits.

It was noted that there is an expansion/movement joint between the spillway and power station works and that within those two elements there are a number of concrete to concrete contraction joints but without shear keys. All this is in accordance with earlier advice by the Board to allow for long-term differential foundation movements. The Board noted that where services, gantry rails and even gate supports cross such joints adequate allowance has been made for possible future movement and adjustment.

During the same earlier visit the Board member also noted an apparently high seismic design load requirement for the spillway gates. Since that time BC Hydro have re-defined these requirements based on methods being used at Ruskin dam. This has significantly reduced the earlier seismic loading criteria but to a level which is still adequate and robust. This requires the gates to be designed for the same seismic acceleration values as the concrete structures in which they are housed and the Board supports this approach.

The Board earlier advised BC Hydro to obtain assurances from gate bidders that the gates would be secure against hydraulically induced vibrations and oscillations when operating for prolonged periods at small openings. Such assurances have been obtained in discussions with bidders at this pre-bid stage and the low level gates will be model tested. However, the radial gates will not be modelled and the Board was pleased to note that language is incorporated in the appropriate contract documents obliging the Contractor to redress any such deficiency should it emerge on testing.

For both the civil and other associated GSS contracts, the Board was pleased to note the level of engagement with prospective bidders and also that all the equipment proposed for Site C is within precedent and BC Hydro experience. This provides confidence that there should be no untoward surprises. Coupled with this the Board was impressed with the way REVIT is being used to integrate the equipment and plant into a comprehensive BIM model using researched and realistic plant footprints to minimise the risk of clashes once the work proceeds.

Lessons have also been learned with regard to Contractor QA and QC compliance. BC Hydro are therefore proposing QA and QC systems for the GSS contracts which will have greater independence from production and which include a penalty system for non-compliances missed by the Contractor but later noted by BC Hydro. The Board supports this approach provided it is clear that it has worked beneficially at other similar projects.

Lastly, it was noted that the GSS civil works contract is scheduled to be awarded at the end of 2017 / beginning of 2018. Given current construction delays at Site C it is possible that the RCC foundations for the GSS structures may not all be complete when intended. The Board were advised that interface aspects have been addressed in the current GSS civil documents but would recommend that attention be given to this particular aspect at Site C.

6 Future Meetings

The Board recommends that a workshop related to items raised in this report associated with excavations and RCC be convened on site October 12 and 13, 2017, with a site visit on the 12th, followed by an office meeting on the 13th.

The Board recommends that the next TAB meeting be held in Vancouver on January 15 to 17, 2018.

Respectfully submitted,

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Attachment A – Meeting Agenda

**Site C Clean Energy Project
 Advisory Board Meeting No. 17 - Report**



**Site C Clean Energy Project
 Technical Advisory Board Meeting No. 17
 June 2017**

Location: Fort St John, BC and 1111 West Georgia, Vancouver, BC

Day 1 (Monday, June 5, 2017) Travel to FSJ

Time	Title	Presenter / Time Allocated
7:30am	Arrive at Gate for boarding	Engineering team representative will meet board members at YVR or Fort St John Airport for W. Riemer
8:05 am	Depart Vancouver on AC8181	
9:45 am	Arrive Fort St. John N.R. Morgenstern, J. Ehasz, P. Mason (Note: W. Riemer travel on AC8185 Arrive 5pm Sunday June 4)	
10am to 10:45am	Travel and check in to camp	
10:45 to 11:00am	Site orientation and safety moment	
11:00 to 11:45am	Overview of Construction <ul style="list-style-type: none"> • Review of Components and Project Schedule • Overview of Construction • Update from Independent Engineer 	
11:45 to 12:15pm	TAB tracking log	
12:15 to 12:45	Lunch	
12:45 to 1:15pm	Blind Corner Remediation and Investigations	
1:15 to 2:00	Cofferdams Update <ol style="list-style-type: none"> a. Stage 2 cofferdam b. Right Bank performance c. Inlet Cofferdam d. Grouting 	
2:00 to 2:30	Left Bank Tension Crack and Left Bank Excavations <ol style="list-style-type: none"> e. Status update f. Design g. Instrumentation 	
2:30 to 3:00	Discussion and prep for tour	
3:00 to 5:00	Tour of Left Bank, Blind Corner, Left Bank Excavation, Lower Left Bank	

**Site C Clean Energy Project
 Advisory Board Meeting No. 17 - Report**



**Site C Clean Energy Project
 Technical Advisory Board Meeting No. 17
 June 2017**

Location: Fort St John, BC and 1111 West Georgia, Vancouver, BC

Day 2 (Tuesday, June 6, 2017) Meeting Room BC Hydro Construction offices

Time	Title	Presenter / Time Allocated
06:45am	Breakfast WA Cafeteria	
07:30am	Meet Outside WA Cafeteria	
07:45 to 9am	Right Bank Slope <ul style="list-style-type: none"> • Status update • Monitoring • Mapping • Modelling • Spillway Buttress excavation • Path Forward 	
9:00 to 10:00am	Left Bank Slopes and Drainage <ul style="list-style-type: none"> • Status update • Design and geology review 	
10:00 to 10:30am	Open Discussion and Break	
10:30 to 12:00pm	RCC <ul style="list-style-type: none"> a. Schedule b. Aggregates c. RCC trial placement and plans d. Movement joints 	
12:00 to 1:00	Lunch and prep for tour	
1:00 to 5:30pm	Project tour of right bank. <ul style="list-style-type: none"> • RSEM's • Right Bank Excavations • Stage 1 Cofferdam • RCC • Area A 	

**Site C Clean Energy Project
 Advisory Board Meeting No. 17 - Report**



**Site C Clean Energy Project
 Technical Advisory Board Meeting No. 17
 June 2017**

Location: Fort St John, BC and 1111 West Georgia, Vancouver, BC

Day 3 (Wednesday, June 7, 2017) BC Hydro Construction Office

Time	Title	Presenter / Time Allocated
07:00	Breakfast	
08:00 to 8:30am	Diversion Inlet a. Debris catcher at rock trap b. Sonar monitoring Debris Management update	
8:30 to 10:30	Debris Management update	
8:45 to 10:00am	Quality Assurance <ul style="list-style-type: none"> • Summary of NCR's • Overview of QA/QC • Field review plans • Upcoming work 	
10:00 to 10:30	Break	
10:30 to 12:00	Open Discussion	
1:00 to 4:00	Open Discussion or TAB prepare report	
4:00	Depart for FSJ airport	
5:30 pm	Depart Fort St. John on AC8186	
7:13 pm		

**Site C Clean Energy Project
 Advisory Board Meeting No. 17 - Report**



**Site C Clean Energy Project
 Technical Advisory Board Meeting No. 17
 June 2017**

Location: Fort St John, BC and 1111 West Georgia, Vancouver, BC

Day 4 (Thursday, June 8, 2017) Meeting Room #1, 1111 West Georgia, Vancouver

Time	Title	Presenter / Time Allocated
8:30am	Meet in lobby of 1111 West Georgia	
8:40 to 8:45am	Safety overview	
8:45 to 9:15am	GSS Design Overview and Schedule	
9:15 to 9:45am	GSS Civil Contract. Design Overview	
9:45 to 10:30am	Hydromechanical, cranes, equipment supply and completions design packages	
10:30 to 10:45am	Break	
10:45 to 11:00am	TAB tracking Action Items on GSS	
11:00 to 11:30am	Quality Schedule in GSS	
11:30am to 12:00pm	Revit Model Update	
12:00 to 1:00pm	Lunch	
1:00 to 1:30pm	Open Discussion and TAB prepare report	
2:30 to 5:00pm	Open Discussion and TAB prepare report	
7:00pm	Dinner for TAB/BC Hydro (TBC)	



Site C Clean Energy Project
Technical Advisory Board Meeting No. 17
June 2017

Location: Fort St John, BC and 1111 West Georgia, Vancouver, BC

Day 5 (Friday, June 9, 2017) Meeting Room #1, 1111 West Georgia, Vancouver

Time	Title	Presenter / Time Allocated
8:30am	Meet in lobby of 1111 West Georgia	
8:30 to 12:00pm	TAB prepare report	
12:00 to 1:00pm	Lunch	
1:00 to 5:00pm	Report out to Executive and Project Board Location and time TBC	

Attachment B - A List of Meeting Attendees

**Site C Clean Energy Project
Advisory Board Meeting No. 17 - Report**

List of June 5, 2017 TAB Attendees

Site C Clean Energy Project

Annual Progress Report No. 2

Appendix C

**Site C Clean Energy Project Environmental
Management Plans and Reports**

As a result of the Environmental Assessment Certificate and the Federal Decision Statement conditions, the Site C Clean Energy Project is required to submit a number of plans and reports to various agencies. These plans and reports are posted on the Site C Project website at www.sitecproject.com as they are issued. This appendix contains a list of all issued documents as at December 31, 2017.

Mitigation, Management and Monitoring Plans	
Aboriginal Plant Use Mitigation Plan	https://www.sitecproject.com/sites/default/files/Aboriginal_Plant_Use_Mitigation_Plan.pdf
Aboriginal Training and Inclusion Plan	https://www.sitecproject.com/sites/default/files/Aboriginal_Training_and_Inclusion_Plan.pdf
Accidents and Malfunctions Plan	https://www.sitecproject.com/sites/default/files/Accidents_and_Malfunctions_Plan.pdf
Agricultural Mitigation and Compensation Plan	https://www.sitecproject.com/sites/default/files/site-c-agricultural-mitigation-compensation-plan-final-september-2017.pdf
Agricultural Mitigation and Compensation Plan Framework	https://www.sitecproject.com/sites/default/files/SiteC-Agriculture-Mitigation-Compensation-Framework.pdf
Agricultural Monitoring and Follow-up Program	https://www.sitecproject.com/sites/default/files/Agricultural%20Monitoring%20and%20Follow-up%20Program.pdf
Business Participation Plan	https://www.sitecproject.com/sites/default/files/BPP-20150605.pdf
Construction Environmental Management Plan	https://www.sitecproject.com/sites/default/files/construction-environmental-management-plan-aug-2.pdf
Construction Environmental Management Plan Appendices - Part 1	https://www.sitecproject.com/sites/default/files/CEMP-Appendices-1-20160726.pdf
Construction Environmental Management Plan Appendices - Part 2	https://www.sitecproject.com/sites/default/files/CEMP-Appendices-2-20160708.pdf
Construction Safety Management Plan	https://www.sitecproject.com/sites/default/files/Construction%20Safety%20Management%20Plan.pdf
Cultural Resources Mitigation Plan	https://www.sitecproject.com/sites/default/files/Cultural_Resources_Mitigation_Plan.pdf
Del Rio Pit Development Plan	https://www.sitecproject.com/sites/default/files/Del%20Rio%20Pit%20Development%20Plan.pdf
Emergency Services Plan	https://www.sitecproject.com/sites/default/files/Emergency_Services_Plan.pdf
Fisheries and Aquatic Habitat Management Plan	https://www.sitecproject.com/sites/default/files/Fisheries_and_Aquatic_Habitat_Management_Plan.pdf

Mitigation, Management and Monitoring Plans	
Fisheries and Aquatic Habitat Monitoring and Follow-up Program	https://www.sitecproject.com/sites/default/files/Fisheries%20and%20Aquatic%20Habitat%20Monitoring%20and%20Follow-up%20Program.pdf
Health Care Services Plan	https://www.sitecproject.com/sites/default/files/Health_Care_Services_Plan.pdf
Heritage Resources Management Plan	https://www.sitecproject.com/sites/default/files/Heritage_Resources_Management_Plan.pdf
Housing Plan and Housing Monitoring and Follow-up Program	https://www.sitecproject.com/sites/default/files/Housing-Plan-Housing-Monitoring-and-Follow-up-Program-Rev2.pdf
Labour and Training Plan	https://www.sitecproject.com/sites/default/files/Labour_and_Training_Plan.pdf
Outdoor Recreation Mitigation Plan	https://www.sitecproject.com/sites/default/files/site-c-outdoor-recreation-mitigation-plan_0.pdf
Recreation Program	https://www.sitecproject.com/sites/default/files/Recreation%20Program.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan	https://www.sitecproject.com/sites/default/files/Veg_and_Wildlife_Mit_and_Mon_Plan.pdf
Vegetation Clearing and Debris Management Plan	https://www.sitecproject.com/sites/default/files/Veg_Clearing_and_Debris_Mgmt_Plan.pdf
West Pine Quarry Development Plan	https://www.sitecproject.com/sites/default/files/West_Pine_Quarry_Development_Plan.pdf
Wuthrich Quarry Development Plan	https://www.sitecproject.com/sites/default/files/Wuthrich_Quarry_Development_Plan.pdf
85th Avenue Industrial Lands Detailed Operations Plan	https://www.sitecproject.com/sites/default/files/Final-Detailed-Operations-Plan-85th%20Ave%20Industrial%20Lands-20161122.pdf

Site C Project Reports	
Aboriginal Group Communication Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-Aboriginal-Group-Communication-Plan-2015-2016-20160705.pdf
Aboriginal Group Communications Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/aboriginal-group-communications-plan-2016-2017-annual-report.pdf
Aboriginal Plant Use Mitigation Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-Aboriginal-Plant-Use-Mitigation-Plan-2015-2016-20160705.pdf

Site C Project Reports	
Aboriginal Plant Use Mitigation Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/aboriginal-plant-use-mitigation-plan-2016-2017-annual-report.pdf
Aboriginal Training and Inclusion Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-Aboriginal-Training-Inclusion-Plan-2015-2016-20160705.pdf
Aboriginal Training and Inclusion Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/aboriginal-training-inclusion-plan-2016-2017-annual-report.pdf
Accidents and Malfunctions Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Annual-Update-Accidents-and-Malfunctions-Plan-2015.pdf
Accidents and Malfunctions Plan 2016 Annual Update	https://www.sitecproject.com/sites/default/files/accidents-malfunctions-plan-2016.pdf
Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2015	https://www.sitecproject.com/sites/default/files/Annual-Update-Water-Quality-2015-FDS-Condition-7-5_0.pdf
Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2016	https://www.sitecproject.com/sites/default/files/acid-rock-drainage-metal-water-quality-annual-report-2016.pdf
Agricultural Monitoring and Follow-up Program 2016 Annual Report	https://www.sitecproject.com/sites/default/files/Agricultural-Monitoring-Annual-Report-2016.pdf
Agriculture Monitoring and Follow-up Program 2017 Annual Report	https://www.sitecproject.com/sites/default/files/agriculture-monitoring-annual-report-2017.pdf
Air Quality Management Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Appendix-A-RWDI-Site-C-Climate-and-Air-Quality-Monitoring-Annual-Report-2015.pdf
Air Quality Management Plan 2016 Annual Report	https://www.sitecproject.com/sites/default/files/climate-air-quality-annual-report-2016.pdf
Annual Compliance Report - Status of Compliance with EAC Conditions and Schedule B	https://projects.eao.gov.bc.ca/api/document/59cd1ef9f97b1600180310a3/fetch
Business Participation Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/business-participation-plan-annual-report-july-29-2016.pdf
Business Participation Plan 2016 – 2017 Annual Report	https://www.sitecproject.com/sites/default/files/business-participation-plan-annual-report-year-two-july-2017.pdf
Construction Communications 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Site-C-Construction-Communications-Annual-Report-2016.pdf
Construction Communications 2016 – 2017 Annual Report	https://www.sitecproject.com/sites/default/files/site-c-construction-communications-annual-report-july-2017.pdf

Site C Project Reports	
Cultural Resources Mitigation Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-Cultural-Resources-Mitigation-Plan-2015-2016-20160705.pdf
Cultural Resources Mitigation Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/cultural-resources-mitigation-plan-2016-2017-annual-report.pdf
Fisheries and Aquatic Habitat Mgmt Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Annual-Report-Fisheries-Aquatic-Habitat-Management-Plan-2015-2016.pdf
Fisheries and Aquatic Habitat Mgmt Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/fisheries-aquatic-habitat-management-plan-annual-report-2016.pdf
Fisheries and Aquatic Habitat Monitoring and Follow Up Program 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/fisheries-aquatic-habitat-monitoring-follow-up-program-annual-report.pdf
Heritage Resources Management Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-BCH-to-CEAA-Heritage-Rsrcs-Mgt-Plan-20160705.pdf
Heritage Resources Management Plan 2016 Annual Report	https://www.sitecproject.com/sites/default/files/heritage-resource-management-plan-annual-report-2016.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/vegetation-and-wildlife-mitigation-and-monitoring-plan-annual-report-2015.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2015 Annual Report Appendices Part 1	https://www.sitecproject.com/sites/default/files/vegetation-and-wildlife-mitigation-and-monitoring-plan-annual-report-2015-appendices-part-1.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2015 Annual Report Appendices Part 2	https://www.sitecproject.com/sites/default/files/vegetation-and-wildlife-mitigation-and-monitoring-plan-annual-report-2015-appendices-part-2.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2016 Annual Report	https://www.sitecproject.com/sites/default/files/vegetation-wildlife-mitigation-monitoring-plan-2016.pdf
Water Quality Management Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Annual-Update-Water-Quality-2015-FDS-Condition-7-5_0.pdf

Site C Clean Energy Project

Annual Progress Report No. 2

Appendix D

Annual Compliance Report



Environmental Assessment Certificate #14-02 Annual Compliance Report

Site C Clean Energy Project

March 31, 2017

Site C Clean Energy Project
Status of Compliance with the Conditions of the EAC #14-02
March 31, 2017

Background

The Site C Clean Energy Project (the Project) will be the third dam and generating station on the Peace River that will provide up to 1,100 megawatts (MW) of capacity and about 5,100 gigawatt hours (GWh) of energy each year to the province's integrated electricity system. On October 14, 2014, the BC Provincial Minister of Environment and Minister of Forests, Lands and Natural Resource Operations decided that the Project is in the public interest and that the benefits identified by the Project outweigh the risks of significant adverse environmental, social and heritage effects. The assessment leading to the conclusion noted that the effects of the Project will largely be mitigated through careful, comprehensive mitigation programs and ongoing monitoring during construction and operations.

The Ministers issued Environmental Assessment Certificate 14-02 (EAC) setting 77 conditions under which the Project can proceed. EAC 14-02 also requires that BC Hydro submit a report to "EAO Compliance and Enforcement staff on the status of compliance with the Conditions of this Certificate, and the conditions in Schedule B ... on or before March 31 in each year during construction and operation phases of the Project."

The following report is being submitted in accordance with this requirement, and covers the period April 1, 2016 to March 31, 2017.

EAC Conditions and Requirements

EAC #14-02 contains 77 conditions which comprise 593 unique requirements relating to the following areas:

- Aquatic Environment
- Fish and Fish Habitat
- Vegetation and Ecological Communities
- Wildlife Resources
- Current Use of Lands and Resources for Traditional Purposes
- Land and Resource Use
- Transportation
- Outdoor Recreation
- Community
- Human Health
- Heritage Resources
- Environmental Protection and Management
- Environmental Management Plans, Follow-up and Monitoring
- Dam Safety

BC Hydro has assessed compliance of conditions as a whole, as well as with the individual requirements of each condition. This assessment is based on evidence collected through a comprehensive compliance program which requires monitoring and reporting by contractors, an Independent Environmental Monitor, and by BC Hydro.

Summary of Compliance with 77 Conditions:

Of the 77 conditions in EAC #14-02:

- No conditions have been assessed as being in non-compliance
- 14 conditions have not yet been implemented – all of the requirements in these conditions will be addressed at a future time, such as during reservoir filling or operations
- 59 conditions are underway and have been assessed as having requirements that are “in compliance” and are in various stages of implementation. The requirements in these conditions have either been completed, are ongoing, or are not yet required to have started, but are deemed in compliance
- Four conditions are underway and have been assessed as having one or more requirements that “partially met compliance” during the reporting year.

Summary of Compliance with 593 Requirements:

Table 1 summarizes the status of compliance with each of the requirements in the 77 conditions of the EAC. The table shows that five out of a total 593 requirements were assessed as partially meeting compliance for the year. These five requirements are found within the following four Conditions: 2, 9, 57 and 69.

Condition 2: Erosion and Prevention and Sediment Control

Condition 2 requires the development, implementation and adherence to an Erosion Prevention and Sediment Control Plan. The condition contains 16 requirements, 15 of which have been assessed as being in compliance. One condition – to establish vegetative cover on the soil stockpiled to prevent erosion” – has been assessed as partially meeting compliance because some stockpiles on site have not yet been hydroseeded or covered with protective material. BC Hydro is working with its contractors to complete revegetation of these stockpiles, and anticipates being in compliance with this requirement in the spring of 2017.

Conditions 9 and 69: Vegetation and Invasive Plant Management

Conditions 9 and 69 require the development, implementation and adherence to a Vegetation and Invasive Plant Management Plan. BC Hydro has met 41 of the 43 requirements of Conditions 9 and 69.

On March 22, 2017, EAO issued a Section 34 Order regarding compliance with Conditions 9 and 69 of the EAC and implementation measures to prevent the introduction and spread of invasive weeds on the Project. The Order requires that BC Hydro submit and implement an invasive weed mitigation and adaptive management plan to the EAO by April 21, 2017. This plan is currently being prepared by a Qualified Professional (QP) and will be implemented by a QP as required by the Order. The management plan will include herbicide based invasive plant management in the dam site area, and the expansion of the vehicle cleanliness program, including the use of vehicle inspection forms. BC Hydro anticipates being in compliance with the requirements of Condition 9 and 69 in the spring of 2017.

Condition 57: Air Quality Management

Condition 57 requires the development, implementation and adherence to an Air Quality Management Plan and Smoke Management Plan. The condition contains 11 requirements, 10 of which have been assessed as being in compliance. One requirement – to implement

measures to manage emissions and dust from all Project activities – has been assessed as partially meeting compliance due to air quality exceedances during the year. BC Hydro is working with its contractors to find appropriate and practical measures to manage dust, in order to bring this requirement fully into compliance in the spring of 2017.

Summary of Compliance Orders by EAO:

Between April 2016 and March 2017, BC Hydro received seven Section 34 Orders from EAO, as listed in Table 2. These Orders were related to sediment and erosion control in L3 ravine, hydrocarbon management, waste management, well monitoring, amphibian mitigation structures, and invasive plant management. Corrective actions for six of the seven Orders have been implemented and the related EAC conditions brought into compliance. As described above, mitigation measures to address the Order on invasive plant management are underway, and are expected to be implemented by spring of 2017. Details regarding the Orders and corrective actions are described in the attached compliance table, per relevant conditions.

Conclusion

BC Hydro is committed to meeting all the conditions of its Environmental Assessment Certificate for the Site C Clean Energy Project, including the 77 EAC conditions and 593 unique requirements.

In this 2017 Annual Compliance Report, BC Hydro has provided evidence to demonstrate compliance with all EAC 14-02 Conditions.

Table 1. Summary of Compliance with Requirements of EAC Conditions.

Area	Category	# of Conditions	Total # of Requirements	# of Future Requirements	# of Requirement "in Compliance" (Completed or Ongoing)	# of Requirements "Partially In Compliance"
Aquatic Environment	Hydrology	1	11	11	0	0
	Fluvial Geomorphology and Sediment	1	16	0	15	1
	Water Quality	1	12	0	12	0
	Fish and Fish Habitat	4	51	27	24	0
Vegetation and Ecological Communities		7	66	2	62	2
	Wildlife Resources	10	64	1	63	0
	Current Use of Lands and Resources for Traditional Purposes	4	20	2	18	0
Land and Resource Use	Harvest of Fish and Wildlife	1	1	0	1	0
	Agriculture	2	25	2	23	0
Transportation	Other Resource Industries	3	13	6	7	0
	Transportation	4	41	0	41	0
Outdoor Recreation and Tourism	Outdoor Recreation and Tourism	3	15	3	12	0
Community	Community	6	31	6	25	0

Area	Category	# of Conditions	Total # of Requirements	# of Future Requirements	# of Requirement "in Compliance" (Completed or Ongoing)	# of Requirements "Partially In Compliance"
	Infrastructure and Services					
	Housing	2	18	0	18	0
	Regional Economic Development	6	34	1	33	0
Human Health	Potable and Recreational Water Quality	1	3	1	2	0
	Ambient Air Quality	1	11	2	8	1
	Noise and Vibration	2	14	1	13	0
	Methylmercury	1	13	13	0	0
	Visual Resources	1	4	0	4	0
Heritage Resources	Physical Heritage and Cultural Heritage	3	22	6	16	0
Environmental Protection and Management	GHG Monitoring	1	7	7	0	0
Environmental Management Plans, Follow-up and Monitoring	Environmental Management Plans, Follow-up and Monitoring	10	98	31	66	1
Dam Safety	Dam Safety	2	3	3	0	0
TOTAL		77	593	125	463	5

Table 2. Section 34 Orders Issued by EAO, April 2016 to March 2017.

	Date of Order	Date of Inspection	Condition	Order	Summary of Order
1	April 7, 2016	March 28-April 1, 2016	EAC 2, 69	Water and sediment control	Issue: Failure to adhere to measures to control runoff water and sediment including in and immediately adjacent to the L3 Ravine. Order/Corrective Action: to immediately implement erosion control measures and submit an Erosion and Sediment Control Plan
2	June 24, 2016	March 29-April 1, 2016; April 26-29, 2016	EAC 69	Hydrocarbon	Issue: Failure to implement measures to control and clean up leaks and spills of hydrocarbon material. Order/Corrective Action: to inspect for leaks to ground daily, contain the leak and properly dispose of any contaminated soil and maintain records of the amount and disposal mechanism.
3	June 24, 2016	March 29-April 1, 2016; April 26-29, 2016	EAC 69	Waste Management	Issue: Failure to adhere to measures to properly segregate and dispose of recyclables and waste material. Order/Corrective Action: to segregate recyclables and all waste types separately in clearly marked bins, inspect daily and maintain records of inspections.
4	Dec 22, 2016	December 9-11, 2015; and Feb 17, 2016	EAC 56	Well Monitoring	Issue: Failure to monitor water quality Order/Corrective Action: to follow notification procedures, monitor water quality and maintain records of the water well monitoring program conducted
5	Dec 22, 2016	August 30-September 1, 2016	EAC 16, 19	Portage Amphibian Mitigation Structures	Issue: Failure to conduct additional amphibian surveys at Portage Mountain, and install amphibian mitigation structures. Order/Corrective Action: to develop a surveys plan, conduct surveys per plan, determine what (if any) mitigation measures are required, with consultation implement the mitigation measures, and monitor the use and effectiveness of amphibian mitigation measures
6	March 3, 2017	August 30, 2016	EAC 2, 69	L3 Remedy	Issue: Failure to adhere to measures to control water and sediment in and immediately adjacent to the L3 Ravine, and may have adversely affected fish and fish habitat in the L3 watercourse and Peace River. Order/Corrective Action: to submit and implement a Water Quality Management Plan and an assessment of potential effects to fish and fish habitat and implement the methods to address these effects
7	March 22, 2017	August 30-September 1, 2016	EAC 9, 69	Invasive Weeds Management	Issue: Failure to implement measures to prevent the introduction and spread of invasive weeds. Order/Corrective Action: to submit and implement an Invasive Weed Mitigation and Adaptive Management Plan



Acronyms and Abbreviations

CEAA	Canadian Environmental Assessment Act
CEMP	Construction Environmental Management Plan
CMHC	Canada Mortgage and Housing Corporation
CSMP	Construction Safety Management Plan
DFO	Department of Fisheries and Oceans Canada
EAC	Environmental Assessment Certificate
EAO	Environmental Assessment Office
EPP	Environmental Protection Plan
FAHMFPP	Fisheries and Aquatic Habitat Management Follow-up Program
FLNR	Ministry of Forests, Lands and Natural Resource Operations
FNHA	First Nations Health Authority
GHG	Greenhouse Gas
HRMP	Heritage Resources Management Plan
IEM	Independent Environmental Monitor
MOE	Ministry of Environment
MOTI	Ministry of Transportation and Infrastructure
MOU	Memorandum of Understanding
NHA	Northern Health Authority
OEMP	Operations Environmental Management Plan
OHWM	Ordinary High Water Mark
PAG	Potentially Acid Generating
PRRD	Peace River Regional District
QEP	Qualified Environmental Professional
QP	Qualified Professional
RAA	The Regional Assessment Area
RSEM	Relocated Surplus Excavated Material
RVMA	Riparian Vegetation Management Area
TSS	Total Suspended Solids
TU	Treatment Unit
VCDMP	Vegetation Clearing and Debris Management Plan
VWMMP	Vegetation and Wildlife Mitigation and Monitoring Plan
VWTC	Vegetation and Wildlife Technical Committee
WHIMS	Workplace Hazardous Materials Information System

Site C Clean Energy Project
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No.	EAC Condition	Implementation Status	Compliance Status	Description
	AQUATIC ENVIRONMENT			
	Hydrology			
EAC01	The EAC Holder must address potential risks to infrastructure downstream of the Site C dam as far as Peace River, Alberta caused by low flows, caused by the Project, during reservoir filling and operation by implementing the following measures:	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC01	<ul style="list-style-type: none"> The Holder must maintain a minimum release of 390 cubic metres per second from the Site C dam 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC01	<ul style="list-style-type: none"> The Holder must estimate downstream flows at minimum, average and maximum rates of reservoir filling in order to identify the approach that would minimize impacts on downstream flows and water level conditions. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC01	<ul style="list-style-type: none"> The Holder must work with the Government of Alberta to jointly develop an Adaptive Management Plan to manage potential risks to infrastructure downstream of the Site C dam to the Town of Peace River, Alberta caused by low water flows during reservoir filling and operation of the Project. For the purposes of the Plan infrastructure must include water intakes, ferry crossings and any other activities identified by the Proponent and the Government of Alberta. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC01	<ul style="list-style-type: none"> The Plan must include at least the following: 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	<ul style="list-style-type: none"> o Provisions for assessing potential risks to infrastructure caused by low water flows as a result of the Project; 			
EAC 01	<ul style="list-style-type: none"> o Provisions for obtaining baseline and operational flow information; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 01	<ul style="list-style-type: none"> o Provisions for obtaining information on any current impacts to infrastructure attributable to low water flows caused by the Project; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 01	<ul style="list-style-type: none"> o Identification of any impacts to infrastructure attributable to low water flows caused by the Project; and 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 01	<ul style="list-style-type: none"> o Mitigation measures such as additional flow regulation, adjustment to Alberta infrastructure and notifying the Government of Alberta of prolonged low water flow conditions, necessary to avoid or minimize impacts attributable to low water flows caused by the Project. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 01	<ul style="list-style-type: none"> The EAC Holder must submit the plan to EAO a minimum of 30 days prior to reservoir filling. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 01	<ul style="list-style-type: none"> The EAC Holder must implement the Plan and report on the results annually to EAO commencing from reservoir filling to the end of year 5 of operations. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Fluvial Geomorphology and Sediment Transport			
EAC 02	The Erosion Prevention and Sediment Control Plan must be developed by a Qualified Environmental Professional (QEP).	Completed	In Compliance	<p>The Erosion and Sediment Control Plan is described in Section 4.4 of the Construction Environmental Management Plan (CEMP). Section 6.0 of the CEMP lists the qualified professionals (QP) who prepared the plan.</p> <p>The final CEMP (Revision 1) was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016. Revision 4 of the CEMP contains a new Appendix - Appendix I - which provides details on the Project's erosion and sediment control requirements, including the requirement for Contractors to retain their own Erosion and Sediment Control QPs. Appendix I sets out the credential requirements of the Erosion and Sediment Control QPs and requires that QPs approve and oversee the implementation of site-specific erosion and sediment control plans.</p>
EAC 02	The Plan must identify areas of high erosion and sediment potential. The Erosion Prevention and Sediment Control Plan must include at least the following:	Ongoing	In Compliance	<p>The CEMP requires that contractors identify and isolate work areas to prevent sediment from entering the downstream environment. BC Hydro audits compliance with this requirement by reviewing contractor Environmental Protection Plans (EPPs) and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 02	<ul style="list-style-type: none"> Manage water (e.g. rainfall, snowmelt,) to control runoff and direct it away from work areas where excavation, spoil placement, and staging activities occur. 	Ongoing	In Compliance	<p>The CEMP requires that Contractor EPPs identify water management plans to control runoff and direct it away from work areas where excavation, soil placement and staging activities occur. BC Hydro audits compliance</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 02	<ul style="list-style-type: none"> Adjust the timing of construction activities to coincide with periods of high background sediment levels. 	Ongoing	In Compliance	<p>with these requirements by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p> <p>The CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.</p>
EAC 02	<ul style="list-style-type: none"> Use clean rock materials for riprap construction. 	Ongoing	In Compliance	<p>The CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.</p>
EAC 02	<ul style="list-style-type: none"> Manage equipment production rates during construction to reduce sediment generation. 	Ongoing	In Compliance	<p>The CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.</p>
EAC 02	<ul style="list-style-type: none"> Identify and isolate work areas to prevent sediment from entering the downstream environment. 	Ongoing	In Compliance	<p>BC Hydro is implementing and adhering to the final Erosion Prevention and Sediment Control Plan. To date, the Project has experienced several extreme weather events that caused local inflows to exceed pumping capacity and/or caused local runoff that has overwhelmed erosion and sediment control measures, leading to releases of sediment into the downstream environment.</p> <p>On April 7, 2016 and March 3, 2017, the Environmental Assessment Office (EAO) issued two respective Orders regarding compliance with Conditions 2 and 69 of the EAC and the control of runoff and sediment within and adjacent to the L3 ravine. The April 7, 2016 Order required that BC Hydro submit and implement an</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 02	<p>· Leave stumps in place to reduce soil disturbance, erosion and sediment transport in the headpond during reservoir clearing to reduce soil disturbance and potential sedimentation issues.</p>	Ongoing	In Compliance	<p>Erosion and Sediment Control Plan. The March 3, 2017 Order required that BC Hydro submit and implement a Water Quality Management Plan and an assessment of potential effects to fish and fish habitat. BC Hydro has complied with the requirements of both of these Orders.</p> <p>BC Hydro has made additional commitments to the Environmental Assessment Office regarding an expanded program to manage Erosion and Sediment Control across the project. This program involves Qualified Erosion and Sediment Control Professionals who review work areas for Erosion and Sediment Control risks, author prescriptions with due dates based on risk, oversee the implementation of these prescriptions, prescribe re-inspection dates and have overall responsibility for Erosion and Sediment Control measures in their work areas. This Program was initiated in October 2016 and its results are reported to the EAO weekly. From the start of the program on October 18, 2016 to March 18, 2017, Qualified Professionals have completed 1,959 inspections and re-inspections of 327 individual prescription locations. The average rate of non-compliance to date is less than 3%. Non compliances are typically brought into compliance within one week of identification. Examples of non-compliances could include missed installations, maintenance or follow-up inspections.</p> <p>The CEMP requires contractors to leave stumps in place to reduce soil disturbance, erosion and sediment transport in the headpond during reservoir clearing. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
				<p>environmental audits during construction to verify implementation of EPPs.</p> <p>Note that stumps are removed for road construction associated with reservoir clearing as described in the Project's Environmental Impact Statement and Vegetation Clearing and Debris Management Plan (VCDMP). BC Hydro has determined that stump removal associated with road construction is consistent with this condition.</p>
EAC 02	<ul style="list-style-type: none"> Manage vegetation and soil stripping, taking into consideration proximity to sensitive habitats as determined by a QEP (e.g. wetlands) and slope stability. 	Ongoing	In Compliance	<p>The CEMP requires contractors to manage vegetation and soil stripping, taking into consideration proximity to sensitive habitat as determined by a Qualified Environmental Professional (QEP) and slope stability. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 02	<ul style="list-style-type: none"> Salvage and stockpile clean surface soils for site restoration. 	Ongoing	In Compliance	<p>The CEMP requires contractors to salvage and stockpile clean surface soils for site restoration. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 02	<ul style="list-style-type: none"> Establish vegetative cover on the soils stockpiled to prevent erosion. 	Ongoing	Partially met compliance	<p>The CEMP requires contractors to establish vegetative cover on the soils stockpiled to prevent erosion. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. The majority of soil stockpiles on site have been re-vegetated, and some that are not yet re-vegetated (due to winter conditions) have been covered with polyethylene sheeting to prevent erosion. There are remaining soil stockpiles that are exposed; BC</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC02	<ul style="list-style-type: none"> Develop construction schedules such that reservoir clearing in the winter is maximized. 	Ongoing	In Compliance	<p>Hydro is working with its contractors to complete re-vegetation of these stockpiles into the spring.</p> <p>To date, reservoir clearing has been scheduled to coincide with winter conditions. The final stage of lower reservoir clearing commenced in December 2016 and is expected to be completed by the end of March 2017. Clearing of the Moberly River area commenced in January 2017, and is also expected to be complete by the end of March.</p>
EAC02	<ul style="list-style-type: none"> Isolate in-stream work areas from flowing water except as permitted by the on-site environmental monitor. 	Ongoing	In Compliance	<p>The CEMP requires contractors to isolate in-stream work areas from flowing water, except as permitted by the on-site environmental monitor. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p> <p>Some instream work has occurred on the Project in compliance with the Project's Fisheries Act Authorizations both early works and dam construction and this work has not always been completed in isolation of the Peace river but the work was monitored for compliance with the Authorizations' severity of ill effects limits.</p>
EAC02	<p>The EAC Holder must provide this draft Erosion Prevention and Sediment Control Plan to BC Ministry of Forests, Lands and Natural Resource Operations (FLNR), BC Ministry of Environment (MOE), Aboriginal Groups, Peace River Regional District, City of Fort St. John, and District of Hudson's Hope for review a minimum of 90 days prior to commencement of construction activities.</p>	Completed	In Compliance	<p>The Erosion Prevention and Sediment Control Plan is described in Section 4.4 of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014</p>
EAC02	<p>The EAC Holder must file the final Erosion</p>	Completed	In Compliance	<p>The final CEMP (Revision 1) was provided to regulatory</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Prevention and Sediment Control Plan with EAO, FLNR, MOE, Aboriginal Groups, Peace River Regional District, City of Fort St. John and District of Hudson's Hope a minimum of 30 days prior to commencement of construction activities.			agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016.
EAC 02	The EAC Holder must develop, implement and adhere to the final Erosion Prevention and Sediment Control Plan, and any amendments to the final Erosion Prevention and Sediment Control Plan, to the satisfaction of Environmental Assessment Office (EAO).	Ongoing	In Compliance	<p>BC Hydro is implementing and adhering to the final Erosion Prevention and Sediment Control Plan. To date, the Project has experienced several extreme weather events that caused local inflows to exceed pumping capacity and/or caused local runoff that has overwhelmed erosion and sediment control measures, leading to releases of sediment into the downstream environment.</p> <p>On April 7, 2016 and March 3, 2017, the EAO issued two respective Orders regarding compliance with Conditions 2 and 69 of the EAC and the control of runoff and sediment within the L3 ravine. BC Hydro immediately undertook corrective actions to restore controls within the ravine and met the requirements of both orders.</p> <p>BC Hydro has also made additional commitments to the EAO regarding an expanded program to manage erosion and sediment control across the project. This program involves Qualified Erosion and Sediment Control Professionals who review work areas for Erosion and Sediment Control risks, author prescriptions with due dates based on risk, oversee the implementation of these prescriptions, prescribe re-inspection dates and have overall responsibility for Erosion and Sediment Control measures in their work areas.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
				<p>This Program was initiated in October 2016 and its results are reported to the EAO weekly. From the start of the program on October 18, 2016 to March 18, 2017, Qualified Professionals have completed 1,959 inspections and re-inspections of 327 individual prescription locations. The average rate of non-compliance to date is less than 3%. Non compliances are typically brought into compliance within one week of identification. Examples of non-compliances could include missed installations, maintenance or follow-up inspections.</p>
EAC 03	<p>Water Quality To address potential environmental effects of acid generation and metal leaching from construction activities and reservoir creation, EAC Holder must develop a water quality monitoring program.</p>	Ongoing	In Compliance	<p>Section 4.14 and Appendix E of the CEMP sets out the water quality management program that contractors are required to adhere to, including associated measures to address potential effects of acid generation and metal leaching. Appendix E specifically sets out water quality monitoring activities at L3 ravine, and adds requirements to continuously monitor flow, pH, turbidity and conductivity in Potentially Acid-Generating (PAG)-contact Relocated Excavated Surplus Material (RSEM) sediment ponds. BC Hydro audits compliance with Section 4.14 and Appendix E of the CEMP by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 03	<p>The water quality monitoring program must include:</p> <ul style="list-style-type: none"> Identification of water quality parameters to be monitored; 	Ongoing	In Compliance	<p>CEMP Appendix E identifies water quality parameters to be monitored based on the source and type (e.g., surface water, groundwater, sediment pond water) of potential PAG contact water. These factors dictate the monitoring frequency, duration, and parameters, which vary by monitoring sub-program. Parameters of interest</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC03	<ul style="list-style-type: none"> Identification of the geographic extent and duration of the monitoring; 	Ongoing	In Compliance	<p>for PAG-containing RSEM discharges have been identified as Cd, Co, Cu, Zn, TSS, and pH (CEMP Appendix E, Table 2), in addition to a requirement for acute toxicity testing.</p> <p>CEMP Appendix E identifies the geographic extent and duration of the water quality monitoring requirements based on the source and type of potential PAG contact water (e.g., surface water, groundwater, sediment pond water). These factors dictate the monitoring frequency, duration, and parameters, which vary by monitoring sub-program. For example, the geographic extent of the monthly Peace River water quality monitoring program includes a control point upstream of the construction footprint, and a far-field location downstream of all RSEM discharges where the Peace River and RSEM discharge is completely mixed, with the duration of the monitoring assumed to be for the duration of RSEM sediment pond operation.</p>
EAC03	<ul style="list-style-type: none"> Baseline sampling of parameters; 	Ongoing	In Compliance	<p>A quarterly baseline water quality monitoring program at sampling locations in the Peace River commenced in 2015 and is ongoing.</p>
EAC03	<ul style="list-style-type: none"> Monitoring of parameters; 	Ongoing	In Compliance	<p>Surface water monitoring in the Peace River, at runoff locations at the dam site, and in PAG-contact RSEM sediment ponds (as required by the CEMP, Appendix E) is ongoing.</p> <p>Installation of groundwater wells at RSEM Areas R5a and R5b occurred between September and November 2016, with baseline monitoring also completed, and quarterly monitoring ongoing.</p>
EAC03	<ul style="list-style-type: none"> Identification of potential mitigation measures if water quality impacts observed; and 	Ongoing	In Compliance	<p>Potential mitigation measures to be implemented if water quality impacts are observed are described in CEMP Appendix E, Section 7.4. One RSEM sediment</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 03	<ul style="list-style-type: none"> Process for implementing mitigation measures to address water quality impacts. 	Ongoing	In Compliance	<p>pond (at RSEM Area R5b) was operational as of November 2016, with first discharge taking place in January 2017. No mitigation measures have been required to date for discharge from this pond.</p> <p>The process for implementing mitigation measures if water quality impacts are observed is described in CEMP Appendix E, Section 7.4. One RSEM sediment pond (at RSEM Area R5b) was operational as of November 2016, with first discharge taking place in January 2017. No mitigation measures have been required to date for discharge from this pond.</p>
EAC 03	The EAC Holder must provide this draft water quality monitoring program to Environment Canada, Natural Resources Canada, MOE, FLNR, Aboriginal Groups, Peace River Regional District and the City of Fort St. John for review a minimum of 90 days prior to commencement of construction.	Completed	In Compliance	The Water Quality Monitoring Program is described in Section 4.14 and Appendix E - Section 7.3 of the CEMP. The draft CEMP was provided to regulatory agencies, governments and Aboriginal Groups on October 17, 2014.
EAC 03	The EAC Holder must file the final water quality monitoring program with EAO, Environment Canada, Natural Resources Canada, MOE, FLNR, Aboriginal Groups, Peace River Regional District and City of Fort St. John a minimum of 30 days prior to commencement of construction.	Completed	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016.
EAC 03	The EAC Holder must report on the results annually to the EAO every June 1.	Ongoing	In Compliance	A water quality report covering 2015 construction activities was submitted to the EAO on June 1, 2016.
EAC 03	The final water quality monitoring program must be detailed in the Acid Rock Drainage and Metal Leachate Management Plan,	Completed	In Compliance	The Water Quality Monitoring Program is described in Section 4.14 and Appendix E - Section 7.3 (Acid Rock Drainage and Metal Leachate Management Plan) of revision 4 of the CEMP.
EAC 03	and the EAC Holder must develop, implement and adhere to the final water quality	Ongoing	In Compliance	The water quality monitoring program, as outlined in CEMP Appendix E, is being implemented and adhered

No.	EAC Condition	Implementation Status	Compliance Status	Description
	monitoring program, and any amendments, to the satisfaction of EAO.			to, with responsibilities specific to BC Hydro and the Contractor as outlined. A water quality report covering 2015 construction activities was submitted to the EAO on June 1, 2016. A second annual water quality report covering 2016 construction activities will be submitted to the EAO on June 1, 2017.
	FISH AND FISH HABITAT			
EAC 04	The EAC Holder must manage harmful Project effects on fish and fish habitats during the construction and operation phases by implementing mitigation measures detailed in a Fisheries and Aquatic Habitat Management Plan.	Ongoing	In Compliance	BC Hydro developed Fisheries and Aquatic Habitat Management and is implementing measures in accordance with the plan.
EAC 04	The Fisheries and Aquatic Habitat Management Plan must be developed by a QEP.	Completed	In Compliance	Section 8.0 of the Fisheries and Aquatic Habitat Monitoring Plan lists the QPs who prepared the plan.
EAC 04	The Fisheries and Aquatic Habitat Management Plan must include at least the following: <ul style="list-style-type: none"> · Remove temporary structures as soon as they are no longer required. 	Ongoing	In Compliance	Section 4.5 of the CEMP (Fisheries and Aquatic Habitat Management) requires that Contractor Environmental Protection Plans (EPPs) identify how the Contractor will remove temporary structures as soon as they are no longer required. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 04	<ul style="list-style-type: none"> · Maintain a 15 m machine free zone adjacent to watercourses during reservoir clearing (as measured from the Ordinary High Water Mark). 	Ongoing	In Compliance	Section 4.5 of the CEMP (Fisheries and Aquatic Habitat Management) requires that Contractor EPPs identify that the Contractor will maintain a 15 m machine free zone adjacent to watercourses during reservoir clearing. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 04	<ul style="list-style-type: none"> · Place material relocation sites (R5a, R5b, 	Ongoing	In Compliance	Material relocation sites (R5a, R5b and R6) were

No.	EAC Condition	Implementation Status	Compliance Status	Description
	and R6) 15 m back from the mainstem to avoid affecting Peace River fish habitat.			designed to be at least 15 m from the mainstem of the Peace River as required by this condition.
EAC 04	<ul style="list-style-type: none"> Contour mainstem bars to reduce potential for fish stranding, as advised by FLNR. 	Ongoing	In Compliance	Initial stages of mainstem channel contouring are underway with completion expected by 2021.
EAC 04	<ul style="list-style-type: none"> Incorporate fish habitat features into the final capping of material relocation sites upstream of the dam. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Contour and cap with gravels and cobble substrate the spoil area between elevations 455 m and 461 m to provide a productive fish habitat that will be available to fish during the operation phase. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Include fish habitat features (e.g., shears, large riprap point bars, etc.) in the final design of the north bank haul road bed material that would be placed in the Peace River. 	Completed	In Compliance	Fish habitat features have also been incorporated into the design of the north bank haul road bed material placed in the Peace River; this work was completed in the Spring of 2016.
EAC 04	<ul style="list-style-type: none"> Incorporate fish habitat features into the final design of the Highway 29 roadway that would border the reservoir, east of Lynx Creek. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Construct the Hudson's Hope shoreline protection with large material that will provide replacement fish habitat. Incorporate additional fish habitat features (e.g., shear zones and point bars) into the final design of the Hudson's Hope shoreline protection. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Contour Highway 29 borrow sites prior to decommissioning to provide littoral fish habitat in the reservoir. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Cap material repositioning areas with gravel and cobble, and contour to enhance fish habitat conditions. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 04	<ul style="list-style-type: none"> Plant a 15 m wide riparian area along the reservoir shoreline adjacent to BC Hydro-owned farmland where necessary to provide riparian habitat and bank stabilization except as approved by the onsite environmental monitor. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Increase wetted habitat by creating new wetted channels and restoring back channels on the south bank island downstream of the dam. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Enhance side channel complexes between the dam site and the confluence of the Peace and Pine rivers during low flows. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Manage reservoir fluctuation within a 1.8 m maximum normal operating range from the maximum operating level of 461.8 m. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> If the reservoir deviates from the normal operating range, the EAC Holder must report the event in accordance with water licence requirements. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	<ul style="list-style-type: none"> Develop a feasible strategy for the salvage and relocation of stranded fish in habitats that are at risk of dewatering. 	Ongoing	In Compliance	Section 4.5 of the CEMP (Fisheries and Aquatic Habitat Management) requires that Contractor EPPs contain a feasible strategy for the salvage and relocation of stranded fish in habitats that are at risk of dewatering. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 04	<ul style="list-style-type: none"> The EAC Holder must manage construction footprints to reduce the harmful Project effects on fish and fish habitat, in accordance with the conditions of the applicable Fisheries Act authorization(s) and direction provided by 	Ongoing	In Compliance	Construction footprints to reduce the harmful Project effects on fish and fish habitat are being managed in accordance with Fisheries Act authorizations 15-HPAC-00170 for site preparation activities and 15-HPAC-01160 for dam construction, reservoir preparation and

No.	EAC Condition	Implementation Status	Compliance Status	Description
	FLNR.			filling as well as any direction provided by FLNR.
EAC 04	This draft Plan must be provided to FLNR, MOE and Aboriginal Groups for review a minimum of 90 days prior to commencement of construction.	Completed	In Compliance	The Draft Fisheries and Aquatic Habitat Management Plan was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014.
EAC 04	The EAC Holder must file the Final Plan with EAO, FLNR, MOE and Aboriginal Groups a minimum of 30 days prior to commencement of construction.	Completed	In Compliance	The Final Fisheries and Aquatic Habitat Management Plan was submitted to regulatory agencies, governments, and Aboriginal Groups on June 1, 2015.
EAC 04	The EAC Holder must develop, implement and adhere to the Final Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The Fisheries and Aquatic Habitat Management Plan is being implemented as planned.
EAC 05	EAC Holder must manage harmful Project effects on fish during reservoir filling, turbine commissioning and operations by developing and implementing mitigation measures detailed in operational procedures developed by a QEP to:	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 05	· Minimize levels of total dissolved oxygen gas in the tailwater;	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 05	· Minimize levels of dissolved gas super-saturation	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 05	These operational procedures must be developed in consultation with FLNR and MOE prior to reservoir filling, and include monitoring activities.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 06	The Fish Passage Management Plan must be developed by a QEP.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 06	The Fish Passage Management Plan must include at least the following: · Establish a periodic capture data base/protocol/methodology for small-fish	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 06	<p>species to assess genetic exchange between upstream and downstream fish populations. Data must be provided annually to the relevant federal and provincial agencies.</p> <ul style="list-style-type: none"> Address genetic differences exceeding beyond a pre-defined threshold (to be determined through discussion with the agencies) by implementing a translocation program. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 06	<ul style="list-style-type: none"> Design the installation and use of a trap and haul facility. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 06	<p>This draft Fish Passage Management Plan must be provided to FLNR, MOE and Aboriginal Groups for review a minimum of 90 days prior to Project activities that may impact upstream fish passage.</p>	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 06	<p>The EAC Holder must file the final Fish Passage Management Plan with EAO, FLNR, MOE and Aboriginal Groups a minimum of 30 days prior to Project activities that may impact upstream fish passage.</p>	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 06	<p>The EAC Holder must develop, implement and adhere to the final Fish Passage Management Plan, and any amendments, to the satisfaction of EAO.</p>	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 07	<p>The EAC Holder must develop a Fisheries and Aquatic Habitat Monitoring and Follow-up Program to assess the effectiveness of measures to mitigate Project effects on healthy fish populations in the Peace River and tributaries, and, if recommended by a QEP or FLNR, to assess the need to adjust those measures to adequately mitigate the Project's</p>	Ongoing	In Compliance	<p>A Fisheries and Aquatic Habitat Monitoring and Follow-up Program (FAHMFP) was submitted to the EAO on December 22, 2015. The FAHMFP provides for: a) monitoring fish and fish habitat during construction and operation of the Site C Clean Energy Project (the Project), and b) an outline for a procedure to evaluate and implement future mitigation and compensation options during operation of the Project. The types of</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	effects.			monitoring and the outline of procedures for evaluation and implementation required by Condition 7 of the EAC are provided for in this FAHMFP. The monitoring will provide information that can be used to assess the effectiveness of the mitigation measures described in Fisheries and Aquatic Habitat Management Plan.
EAC07	The Fisheries and Aquatic Habitat Monitoring and Follow-up Program must be developed by a QEP.	Completed	In Compliance	Section 7.0 of the FAHMFP lists the QPs who prepared the program.
EAC07	The Program must include monitoring during construction for at least the following: <ul style="list-style-type: none"> · Effectiveness of standard mitigation measures for reducing sedimentation and fish stranding in the construction headpond and proximal reach of the river downstream of the dam. 	Ongoing	In Compliance	These requirements are addressed in Mon-3 Peace River Physical Habitat Monitoring and Follow-up Program and Mon-12 Site C Fish Stranding Monitoring Program which are included as Appendices C and M, respectively of the FAHMFP. Data collection/monitoring is for Mon-3 is scheduled to occur in future years. Monitoring of fish stranding sites is ongoing for Mon-12, the fish stranding monitoring program.
EAC07	<ul style="list-style-type: none"> · Accuracy of predictions about physical changes to habitat in the reservoir area during the development and operation of the construction headpond during the diversion stage of the Project. 	Not Started	Future Requirement	This requirement is addressed in Mon-3 Peace River Physical Habitat Monitoring Program, which is included as Appendix C of the FAHMFP. Data collection/monitoring is for Mon-3 is scheduled to occur in future years.
EAC07	<ul style="list-style-type: none"> · Documenting, at an appropriate scale, spatial and temporal changes occurring in physical environmental conditions resulting from headpond hydrology, and in localized areas in relation to the effects of construction activities and mitigation procedures. 	Not Started	Future Requirement	This requirement is addressed in Mon-3 Peace River Physical Habitat Monitoring Program, which is included as Appendix C of the FAHMFP. Data collection/monitoring is for Mon-3 is scheduled to occur in future years.
EAC07	<ul style="list-style-type: none"> · Effectiveness of mitigation measures for management of predicted effects of sediment and fish stranding, and provide information required to adjust the mitigation program to 	Ongoing	In Compliance	These requirements are addressed in Mon-3 Peace River Physical Habitat Monitoring Mon-12 and Site C Fish Stranding Monitoring included as Appendices C and M of the FAHMFP. Data collection/monitoring is for

No.	EAC Condition	Implementation Status	Compliance Status	Description
	reduce unforeseen adverse effects, as required.			Mon-3 is scheduled to occur in future years. Monitoring of fish stranding sites is ongoing for Mon-12, the fish stranding monitoring program.
EAC 07	<ul style="list-style-type: none"> • Total dissolved gas. 	Not Started	Future Requirement	This requirement is addressed in Mon-11 Site C Total Dissolved Gas Monitoring Program, which is included as Appendix L of the FAHMFP. Data collection/monitoring for Mon-11 is scheduled to occur in future years.
EAC 07	<p>The Fisheries and Aquatic Habitat Monitoring and Follow-up Program must include monitoring during operations for a period of twenty years for at least the following:</p> <ul style="list-style-type: none"> • Continued effectiveness of environmental protection measures undertaken during construction to mitigate effects on fish and fish habitat. 	Ongoing	In Compliance	This requirement will be met through implementation of the Site C FAHMFP as described in FAHMFP Section 6 and the supporting monitoring plans, which are included as Appendices A - Q of the FAHMFP.
EAC 07	<ul style="list-style-type: none"> • Total dissolved gas. 	Not Started	Future Requirement	This requirement is addressed in Mon-11 Site C Total Dissolved Gas Monitoring Program, which is included as Appendix L of the FAHMFP. Data collection/monitoring for Mon-11 is scheduled to occur in future years.
EAC 07	<ul style="list-style-type: none"> • Meeting monitoring commitments as per the Fish Passage Management Plan. 	Not Started	Future Requirement	This requirement is addressed in: <ol style="list-style-type: none"> 1) Mon-13 Site C Fishway Effectiveness Monitoring; 2) Mon-14 Site C Trap and Haul Fish Release Location Monitoring Program; 3) and MON-15 Site C Small Fish Species Translocation Monitoring Program. These monitoring plans are included as Appendices N – P of the FAHMFP. Data collection/monitoring for Mon-13, Mon-14, and Mon-15 are scheduled to occur in future years.
EAC 07	<ul style="list-style-type: none"> • Implement on-site monitoring of fish habitat areas in the side channel and mainstem margins, resulting from water fluctuations. 	Ongoing	In Compliance	These requirements are addressed in Mon-3 Peace River Physical Habitat Monitoring Mon-12 and Site C Fish Stranding Monitoring included as Appendices C and M of the FAHMFP. Data collection/monitoring is for Mon-3 is scheduled to occur in future years.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC07	<ul style="list-style-type: none"> Fish and fish habitat productivity, for reservoir, reservoir tributaries, and for downstream Peace River. 	Ongoing	In Compliance	<p>Monitoring of fish stranding sites is ongoing for Mon-12, the fish stranding monitoring program.</p> <p>This requirement is addressed in the following programs (status in parenthesis):</p> <ol style="list-style-type: none"> 1) Mon-1a Site C Reservoir Fish Community Monitoring Program (scheduled to occur in future years) 2) Mon-1b Site C Reservoir Tributaries Fish Community and Spawning Monitoring Program (Peace River Bull Trout Spawning Assessment is ongoing; Site C Reservoir Tributaries fish population indexing survey has been completed) 3) Mon-2 Peace River Fish Community Monitoring Program (ongoing) 4) Mon-3 Peace River Physical Habitat Monitoring Program (scheduled to occur in future years) 5) Mon-4 Site C Reservoir Riparian Vegetation Monitoring Program (scheduled to occur in future years) 6) Mon-5 Peace River Riparian Vegetation Monitoring Program (scheduled to occur in future years) 7) Mon-6 Site C Reservoir Fish Food Organisms Monitoring Program (scheduled to occur in future years) 8) Mon-7 Peace River Fish Food Organisms Monitoring Program (scheduled to occur in future years) 9) Mon-8 Site C Reservoir Water and Sediment Quality Monitoring Program (general water and sediment quality monitoring, temperature monitoring, and turbidity monitoring are ongoing). 10) Mon-9 Peace River Water and Sediment Quality Monitoring Program (scheduled to occur in future years)

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC07	The Fisheries and Aquatic Habitat Monitoring and Follow-up Program must outline a procedure for evaluating future mitigation and compensation options after reservoir development and follow-up monitoring, as well as procedures for how compensation options that are technically and economically feasible will be implemented.	Completed	In Compliance	The monitoring plans are included as Appendices A – J of the Fisheries and Aquatic Habitat Monitoring and Follow-up Program. This requirement is addressed in Section 7.0 of the FAHMFP, Framework to Implement Future Compensation Actions.
EAC07	The Fisheries and Aquatic Habitat Monitoring and Follow-up Program reporting must occur at least annually during construction and operations beginning 180 days following commencement of construction and operations phases, or in accordance with the applicable Fisheries Act authorization(s).	Ongoing	In Compliance	BC Hydro submitted the 2015-2016 Annual Report for the FAHMFP on March 1, 2017. The report describes the status of each component of the FAHMFP. All of the monitoring programs that were scheduled to occur in 2016 were implemented.
EAC07	The EAC Holder must provide this draft Fisheries and Aquatic Habitat Monitoring and Follow-up Program to FLNR, MOE and Aboriginal Groups for review within 90 days following the commencement of the construction and operations phases.	Completed	In Compliance	The draft FAHMFP was submitted to regulatory agencies and Aboriginal Groups on June 1, 2015.
EAC07	The EAC Holder must file the final Fisheries and Aquatic Habitat Monitoring and Follow-up Program with EAO, FLN, MOE and Aboriginal Groups within 150 days following the commencement of the construction and operations phases.	Completed	In Compliance	The final FAHMFP was submitted to regulatory agencies and Aboriginal Groups on December 22, 2015.
EAC07	The EAC Holder must develop, implement and adhere to the final Fisheries and Aquatic	Ongoing	In Compliance	BC Hydro submitted the 2015-2016 Annual Report for the FAHMFP on March 1, 2017. The report describes

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Habitat Monitoring and Follow-up Program, and any amendments, to the satisfaction of EAO.			<p>the status of each component of the FAHMFP. All of the monitoring programs that were scheduled to occur in 2016 were implemented. In support of meeting Fish and Fish Habitat conditions, a Fisheries and Aquatic Habitat Mitigation and Monitoring Technical Committee has been established with MOE, FLNR and Fisheries and Oceans Canada (DFO) staff to:</p> <ul style="list-style-type: none"> - Review the approach and outcome of mitigation and monitoring plans, provide technical recommendations to BC Hydro and regulatory agencies, and endorse relevant plans. - Provide technical advice during plan implementation. - Provide recommendations for adaptive management where needed. - Provide a mechanism to resolve areas of disagreement on technical or policy matters.
	VEGETATION AND ECOLOGICAL COMMUNITIES			
EAC 08	The EAC Holder must develop a Soil Management, Site Restoration, and Re-vegetation Plan to effectively manage disturbed soils, and to reclaim and revegetate disturbed construction areas to a safe and environmentally acceptable condition.	Completed	In Compliance	<p>The Soil Management, Site Restoration, and Re-vegetation Plan is described in Section 4.12 of the CEMP for the Project. The final CEMP (Revision 1) was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016. Revision 4 added new soil management and site restoration requirements in response to changes requested by the Vegetation and Wildlife Technical Committee (VWTC) (established in support of meeting conditions related to Vegetation and Wildlife).</p>
EAC 08	The Soil Management, Site Restoration, and Re-vegetation Plan must be developed by a	Completed	In Compliance	<p>The Soil Management, Site Restoration, and Re-vegetation Plan is described in Section 4.12 of the</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	QEP.			Construction Environmental Management Plan (CEMP). Section 6.0 of the CEMP lists the QPs who prepared the plan. In 2016, the Soil Management, Site Restoration, and Re-vegetation Plan was reviewed and revised by the VWTC composed of members from the MOE, the FLNR and Canadian Wildlife Services.
EAC 08	The Soil Management, Site Restoration, and Re-vegetation Plan must include at least the following: <ul style="list-style-type: none"> · Soil storage and handling measures that will maximize native soil use in restoration efforts, and manage incidental introduction and spread of invasive species. 	Ongoing	In Compliance	Section 4.12 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 08	<ul style="list-style-type: none"> · Manage run-off so that it is directed around soil stockpiles and areas where excavation, spoil placement, and staging activities occur. 	Ongoing	In Compliance	Section 4.3 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 08	<ul style="list-style-type: none"> · Progressive closure and reclamation of any temporary disturbance. Disturbed sites are replanted within one year with ground cover, shrubs, or trees that are regionally appropriate once erosion concerns have been addressed. 	Ongoing	In Compliance	Section 4.12 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 08	<ul style="list-style-type: none"> · Identify native seed mixes used for site restoration and revegetation purposes. 	Ongoing	In Compliance	Appendix H of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 08	<ul style="list-style-type: none"> · Identify traditional use plants for revegetation purposes, in consultation with Aboriginal Groups. 	Ongoing	In Compliance	Plant species of high traditional Aboriginal value are being identified (per EAC 25) and will be included in the mix of species considered for re-vegetation activities conducted under the Soil Management, Site

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 08	The EAC Holder must provide this draft Plan to FLNR, MOE, Aboriginal Groups, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope for review a minimum of 90 days prior to the commencement of construction.	Completed	In Compliance	Restoration and Revegetation Plan (Appendix H of the CEMP). See EAC conditions 25 and 26 below. The Soil Management, Site Restoration, and Revegetation Plan is described in Section 4.12 of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014
EAC 08	The EAC Holder must file the final Soil Management, Site Restoration, and Revegetation Plan with EAO, FLNR, MOE, Aboriginal Groups, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope a minimum of 30 days prior to the commencement of construction.	Completed	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016.
EAC 08	The EAC Holder must develop, implement and adhere to the final Soil Management, Site Restoration, and Re-vegetation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Appendix H of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 09	The EAC Holder must develop a Vegetation and Invasive Plant Management Plan to protect ecosystems, plant habitats, plant communities, and vegetation with components applicable to the construction phase.	Ongoing	In Compliance	Section 4.15 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 09	The Vegetation and Invasive Plant Management Plan must be developed by a QEP.	Completed	In Compliance	The Vegetation and Invasive Plant Management Plan is described in Section 4.15 of the Construction Environmental Management Plan (CEMP). Section 6.0 of the CEMP lists the QPs who prepared the plan.
EAC 09	The Vegetation and Invasive Plant Management Plan must include at least the following:	Completed	In Compliance	Surveys of existing invasive species populations within the Project footprint were completed in 2015.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 09	<p>Invasive Species</p> <ul style="list-style-type: none"> • Surveys of existing invasive species populations prior to construction. • Invasive plant control measures to manage established invasive species populations and to prevent invasive species establishment. 	Ongoing	Partially met compliance	<p>Section 4.15 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p> <p>To date, contractors have completed the following: invasive plant removal through hand pulling, on-going inventories of invasive plant locations, extensive hydroseeding of exposed slopes across the Project area, regular vehicle inspections and cleaning through various methods to ensure vehicles are clean and free of dirt and invasive plants when transitioning between sites and into the Project area. The Main Civil Works contractor has also retained an invasive plant species specialist to advise on invasive plant species management.</p> <p>On March 22, 2017, EAO issued a Section 34 Order regarding compliance with Conditions 9 and 69 of the EAC and implementation measures to prevent the introduction and spread of invasive weeds on the Project. The Order requires that BC Hydro submit and implement an invasive plant mitigation and adaptive management plan to the EAO by April 21, 2017. This plan is currently being prepared by a QP and will be implemented by a QP as required by the Order. The management plan will include herbicide based invasive plant management in the dam site area, and the expansion of the vehicle cleanliness program, including</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 09	<p>Rare Plants and Sensitive Ecosystems</p> <ul style="list-style-type: none"> The EAC Holder must expand its modelling, including completing field work, to improve identification of rare and sensitive plant communities and aid in delineation of habitats that may require extra care, 90 days prior to any Project activities that may affect these rare or sensitive plant communities 	Completed	In Compliance	<p>the use of vehicle inspection forms.</p> <p>Field surveys in support of expanding modelling to improve the identification of rare and sensitive plant communities were completed in 2015. The results of these field surveys are described in the 2015 Annual Report for the VWMMP, provided to agencies on January 22, 2016.</p>
EAC 09	<ul style="list-style-type: none"> The EAC Holder must, with the use of a QEP, complete an inventory in areas not already surveyed and use rare plant location information as inputs to final design of access roads and transmission lines. 	Ongoing	In Compliance	<p>Field surveys for rare plants along roads and portions of the transmission line not previously surveyed were conducted between July 25 and August 3, 2016. A total of 84.1 km were surveyed. Forty (40) occurrences of 14 different rare plant species-10 vascular plants and 4 lichens were documented. Of the 16 rare species, 5 are on the BC Ministry of Environment's (MOE) 'Red' list, with the remaining 8 being on the 'Blue' list. None of the taxa are listed on Schedule 1 of the Species at Risk Act, or are considered to be Extinct, Extirpated, Endangered, Threatened, or Special Concern by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC). No new rare plant species were documented during the 2016 surveys although identification of lichens is still underway. The complete 2016 program report is provided in the 2015 Annual Report for the VWMMP, provided to agencies on January 22, 2016.</p>
EAC 09	<p>These pre- construction surveys must target rare plants as defined in Section 13.2.2 of the EIS — including vascular plants, mosses, and lichens.</p>	Ongoing	In Compliance	<p>Pre-construction surveys are targeting rare plants as defined in Section 13.2.2 of the EIS. The complete 2016 program report is provided in the 2015 Annual Report for the VWMMP, provided to agencies on January 22, 2016.</p>
EAC 09	<ul style="list-style-type: none"> The EAC Holder must create and 	Ongoing	In Compliance	<p>A spatial database of rare plant occurrences in the</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 09	<p>maintain a spatial database of known rare plant occurrences in the vicinity of Project components that must be searched to avoid effects to rare plants during construction activities.</p> <p>The database must be updated as new information becomes available and any findings of new rare plant species occurrences must be submitted to Environment Canada and MOE using provincial data collection standards.</p>	Ongoing	In Compliance	<p>vicinity of Project Components is captured on the Environmental Features Map. The Environmental Features Map was updated with the 2016 rare plant data on September 1, 2016 and provided to contractors for use in planning.</p> <p>A spatial database of rare plant occurrences in the vicinity of Project Components is captured on the Environmental Features Map. The Environmental Features Map was updated with the 2016 rare plant data on September 1, 2016 and provided to contractors for use in planning. The 2016 rare plant data were submitted to the Program Botanist at the BC Conservation Data Center, MOE on January 19 and 27, 2017.</p>
EAC 09	<p>The EAC Holder must implement construction methods to reduce the impact to rare plants, maximize use of existing access corridors, and construct transmission towers and temporary roads away from wetlands and known rare plant occurrences.</p>	Ongoing	In Compliance	<p>As outlined in the 2015 Annual Report for the VWMMP, BC Hydro finalized the layout of the transmission line, access roads and laydown areas to avoid as many rare plant occurrences as feasible. In 2016, a "no disturbance" buffer was established around a rare plant occurrence located within the Portage Mountain Quarry. This buffer was established to avoid impacting this occurrence.</p>
EAC 09	<p>Protect known occurrences of Tufa seeps, wetlands and rare plants located adjacent to construction areas. Install signage and flagging where necessary, as determined by the QEP, to indicate the boundaries of the exclusion area.</p>	Ongoing	In Compliance	<p>No incidents of tufa seeps were recorded for areas cleared in 2016 to winter 2017. Tufa seeps are located on the south bank of the eastern reservoir. This area will be cleared in the fall of 2017. At the time of clearing signage flagging will be installed to indicate boundaries of the exclusion area.</p>
EAC 09	<p>The EAC Holder will engage the services of a Rare Plant Botanist during construction to design and implement an experimental rare plant translocation program in consultation with MOE using the BC MOE's Guidelines for</p>	Ongoing	In Compliance	<p>BC Hydro engaged the services of two rare plant biologists to design the rare plant translocation program. Development of the program began in 2016 following the steps outlined in the VWMMP (June 5, 2015) and in "Guidelines for Translocation of Plant</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Translocation of Plant Species at Risk in BC (Maslovat, 2009).			Species at Risk in British Columbia", by C. Maslovat, C. 2009. The 2016 Annual Report for the VWMMP, submitted to regulatory agencies and Aboriginal Groups on March 31, 2017, outlines the status of the program as of December 2016.
EAC 09	The EAC Holder must provide this draft Vegetation and Invasive Plant Management Plan to Environment Canada, FLNR, MOE, and Aboriginal Groups for review a minimum of 90 days prior to construction and operation phases.	Completed	In Compliance	The Vegetation and Invasive Plant Management Plan is described in Section 8.1 of the VWMMP. The draft and first revision of the VWMMP was submitted to regulatory agencies and Aboriginal Groups on October 17, 2014, and April 7, 2015, respectively.
EAC 09	The EAC Holder must file the final Vegetation and Invasive Plant Management Plan with EAO, Environment Canada, FLNR, MOE, and Aboriginal Groups, a minimum of 30 days prior to construction and operation phases.	Completed	In Compliance	The final Vegetation and Invasive Plant Management Plan was submitted to regulatory agencies and Aboriginal Groups on June 5, 2015.
EAC 09	The EAC Holder must develop, implement and adhere to the final Vegetation and Invasive Plant Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	Partially met compliance	<p>Section 4.15 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p> <p>To date, contractors have completed the following: invasive plant removal through hand pulling, on-going inventories of invasive plant locations, extensive hydroseeding of exposed slopes across the Project area, regular vehicle inspections and cleaning through various methods to ensure vehicles are clean and free of dirt and invasive plants when transitioning between sites and into the Project area. The Main Civil Works contractor has also retained an invasive plant species specialist to advise on invasive plant species management.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 10	<p>The EAC Holder must fund or undertake directly with the use of a Rare Plant Botanist the following, during construction:</p> <ul style="list-style-type: none"> Targeted surveys in the RAA (as defined in the amended EIS) to identify occurrences of the 18 directly affected rare plant species (as defined in the amended EIS), and rare plant species identified by the MOEs Conservation Framework requiring additional inventories. 	Ongoing	In Compliance	<p>On March 22, 2017, EAO issued a Section 34 Order regarding compliance with Conditions 9 and 69 of the EAC and implementation measures to prevent the introduction and spread of invasive weeds on the Project. The Order requires that BC Hydro submit and implement an invasive plant mitigation and adaptive management plan to the EAO by April 21, 2017. This plan is currently being prepared by a QP and will be implemented by a QP as required by the Order. The management plan will include herbicide based invasive plant management in the dam site area, and the expansion of the vehicle cleanliness program, including the use of vehicle inspection forms.</p> <p>The requirement for targeted surveys in the Regional Assessment Area (RAA) is addressed in Section 7.4.7 Part B Supplemental Regional Rare Plant Surveys (see also S. 8.2.2) of the VWMMP. Targeted surveys in the RAA began in 2016. The results are presented in Section 7.2 of the 2016 Annual Report for the VWMMP, which was submitted to regulatory agencies and Aboriginal Groups on March 31, 2017.</p>
EAC 10	<ul style="list-style-type: none"> A study focused on clarifying the taxonomy of Ochroleucus bladderwort (<i>Utricularia ochroleuca</i>), including field, herbaria, and genetic work in consultation with FLNR and the MOE (BC Conservation Data Centre). 	Completed	In Compliance	<p>On March 22, 2016, BC Hydro submitted a letter to the Conservation Data Centre indicating that the taxonomy of Ochroleucus bladderwort had been completed by the BC MOE, and therefore no further work was required by BC Hydro. On March 24, 2016, the Conservation Data Centre confirmed the same understanding. Based on this information no further work is planned.</p>
EAC 10	The EAC Holder must provide FLNR and MOE (BC Conservation Data Centre) with the findings and analysis of results from the	Completed	In Compliance	<p>Results of the targeted surveys are provided to FLNR and MOE in the 2016 Annual Report for the VWMMP. As noted above, no further work is required on</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 11	<p>surveys and taxonomic study.</p> <p>The EAC Holder must compensate for the loss of rare and sensitive habitats and protect occurrences of rare plants by developing, or funding the development and implementation of a compensation program, during construction, that includes:</p> <ul style="list-style-type: none"> Assistance (financial or in-kind) to the managing organization of suitable habitat enhancement projects in the RAA (RAA as defined in the amended EIS). 	Ongoing	In Compliance	<p>taxonomy of Ochroleucus bladderwort.</p> <p>This condition is addressed in the VWMMP, Section 7.4.4 Part D. As indicated in the Plan, identification of potential projects is scheduled to begin in Construction Year 2, and funds are intended to be dispersed by the end of Construction Year 3 (July 2018). In 2016 BC Hydro began consulting with the VWTTC on how these funds will be distributed.</p>
EAC 11	<ul style="list-style-type: none"> Direct purchase of lands in the RAA and manage these lands and suitable existing properties owned by the EAC Holder to enhance or retain rare plant values where opportunities exist. 	Ongoing	In Compliance	<p>In 2014 BC Hydro purchased the Marl Fen property, located outside Hudson's Hope. This property supports several rare plant species. This property is being managed to maintain rare plants along with other wildlife and vegetation values. Results of surveys documenting species that are using the property are provided in the 2015 Annual Reports for the VWMMP.</p>
EAC 11	<p>The EAC Holder must engage with FLNR, MOE and Aboriginal Groups with regard to the development of the compensation program.</p>	Ongoing	In Compliance	<p>The compensation plan is described in the VWMMP, Section 7.4.4 Part D. The draft and first revision of the VWMMP was submitted to regulatory agencies and Aboriginal Groups on October 17, 2014, and April 7, 2015, respectively. The final VWMMP was submitted to regulatory agencies and Aboriginal Groups on June 5, 2015.</p>
EAC 12	<p>The EAC Holder must develop a Wetland Mitigation and Compensation Plan.</p>	Ongoing	In Compliance	<p>The Wetland Mitigation and Compensation Plan is described in Section 7.3 (see also Section 8.4) of the VWMMP.</p>
EAC 12	<p>The Wetland Mitigation and Compensation Plan must include an assessment of wetland function lost as a result of the Project that is important to migratory birds and species at risk (wildlife and plants).</p>	Ongoing	In compliance	<p>The draft function assessment of wetland function was provided in the 2015 Annual Report for the VWMMP. A revised assessment of wetland function is provided in the 2016 Annual Report for the VWMMP.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 12	The Wetland Mitigation and Compensation Plan must be developed by a QEP with experience in wetland enhancement, maintenance and development.	Completed	In Compliance	The Wetland Mitigation and Compensation Plan is described in Section 7.3 (see also Section 8.4) of the VWMMP. Section 2.3 of the Plan lists the QPs who prepared the plan.
EAC 12	The Wetland Mitigation and Compensation Plan must include at least the following: <ul style="list-style-type: none"> Information on location, size and type of wetlands affected by the Project; 	Ongoing	In Compliance	Data on wetland location, size and type gathered during baseline surveys are summarized in Section 7.3.3 of the VWMMP. To gather additional site specific data on wetlands within the Project footprint, BC Hydro prepared a guidance document, Wetland Verification Classification, for contractors to follow to collect information on the location, size and type of wetland affected by construction. Contractors are required to provide BC Hydro with this information in support of the Wetland Mitigation and Compensation Plan.
EAC 12	<ul style="list-style-type: none"> If roads cannot avoid wetlands, culverts will be installed under access roads to maintain hydrological balance, and sedimentation barriers will be installed; 	Ongoing	In Compliance	Culverts are being installed under access roads to maintain hydrological balance, and sedimentation barriers installed as required. For example, a total of 21 new culverts were installed in 2016 during the construction of Septimus road. The location of culverts is provided in Figure 2 of the 2016 Annual Report for the VWMMP.
EAC 12	<ul style="list-style-type: none"> Stormwater management will be designed to control runoff and direct it away from work areas where excavation, spoil placement, and staging activities occur. 	Ongoing	In Compliance	Stormwater across the site is managed by contractors under the Erosion and Sediment Control Program. Management includes installation of sedimentation ponds and interception ditches. Interception ditches capture and divert stormwater away from construction areas into the sedimentation ponds. Water from the sedimentation ponds is discharged into surrounding environment.
EAC 12	<ul style="list-style-type: none"> Develop, with the assistance of a hydrologist, site-specific measures prior to construction to reduce changes to the existing hydrologic balance and wetland function 	Ongoing	In Compliance	BC Hydro has engaged a forestry consultant to design access roads and clearing prescriptions along the transmission line. A hydrologist on staff with the forestry consultant has reviewed the design to ensure

No.	EAC Condition	Implementation Status	Compliance Status	Description
	during construction of the Jackfish Lake Road and Project access roads and transmission line.			that the hydrology of wetlands along the transmission line is maintained. Clearing work on the eastern portion of the transmission line where most of the wetlands are located has been scheduled for winter, when frozen ground conditions mitigate impacts to the wetland hydrology. Transmission line construction and clearing works are anticipated to commence in 2017.
EAC 12	<ul style="list-style-type: none"> • All activities that involve potentially harmful or toxic substances, such as oil, fuel, antifreeze, and concrete, must follow approved work practices and consider the provincial BMP guidebook Develop with Care (BC Ministry of Environment 2012 or as amended from time to time). 	Ongoing	In Compliance	Section 4.13 of the CEMP requires contractors to follow approved work practices and BMPs with regard to potentially harmful or toxic substances. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 12	<ul style="list-style-type: none"> • A defined mitigation hierarchy that prioritizes mitigation actions to be undertaken, including but not limited to: <ul style="list-style-type: none"> o Avoid direct effects where feasible; o Minimize direct effects where avoidance is not feasible; o Maintain or improve hydrology where avoidance is not feasible; o Replace like for like where wetlands will be lost, in terms of functions and compensation in terms of area; o Improve the function of existing wetland habitats; and o Create new wetland habitat 	Ongoing	In Compliance	In 2016 BC Hydro and Ducks Unlimited continued the process of identifying wetland mitigation opportunities that could become components of the wetland mitigation plan. Additional wetland mitigation opportunities have been identified in three zones: <ul style="list-style-type: none"> - within 1km of the Site C reservoir - within the Peace Region - within the remainder of the Province These sites will undergo further investigations to gather additional site-specific data and determine which opportunities are suitable for inclusion in the wetland mitigation plan. <p>The construction guidelines for Area A, a new wetland area to be completed as part of the dam site reclamation area, were submitted with the June 5, 2015 VWMMP, and have been incorporated as requirements in the Main Civil Works contract covering this area. Creation of this new wetland will occur toward the end</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 12	The EAC Holder must monitor construction and operation activities that could cause changes in wetland functions.	Ongoing	In Compliance	of 8 year construction period, and will contribute toward wetland compensation requirements. BC Hydro requires its contractors to describe in their EPPs construction activities that could cause changes in wetland functions, including how those construction activities will be monitored and at what frequency. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 12	The EAC Holder must provide this draft Wetland Mitigation and Compensation Plan to Environment Canada, FLNR, MOE, Aboriginal Groups, Peace River Regional District and District of Hudson's Hope for review a minimum of 90 days prior to any activity affecting the wetlands.	Completed	In Compliance	The draft and first revision of the VWMMP was submitted to regulatory agencies and Aboriginal Groups on October 17, 2014, and April 7, 2015, respectively.
EAC 12	The EAC Holder must file the final Wetland Mitigation and Compensation Plan with EAO, Environment Canada, FLNR, MOE, Peace River Regional District, District of Hudson's Hope and Aboriginal Groups, a minimum of 30 days prior to any activity affecting the wetlands.	Completed	In Compliance	The final VWMMP was submitted to regulatory agencies and Aboriginal Groups on June 5, 2015.
EAC 12	The EAC Holder must develop, implement and adhere to the final Wetland Mitigation and Compensation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro has partnered with Ducks Unlimited and procured property to start fulfilling the Plan's wetland compensation requirements. BC Hydro is also currently reviewing the wetland mitigation and compensation plan with the VWTC with the goal of improving the Plan. Work on completing reviews of the Plan and implementing more work related to wetland compensation is ongoing
EAC 13	The EAC Holder must develop the Vegetation Clearing and Debris Management Plan.	Completed	In Compliance	Revision 1 of the VCDMP was submitted to regulatory agencies and Aboriginal Groups on June 5, 2015.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 13	The Vegetation Clearing and Debris Management Plan must be developed by a QEP.	Completed	In Compliance	Section 11.0 of the VCDMP lists the QPs who prepared the plan.
EAC 13	The Vegetation Clearing and Debris Management Plan must ensure that clearing would be conducted in the approved Project Activity Zone only.	Ongoing	In Compliance	BC Hydro prepares the clearing plans for all work on the Site C Project. As part of this plan preparation, BC Hydro ensures that clearing boundaries are within the Project activity Zone.
EAC 13	and construction would be monitored by the QEP to prevent any unnecessary clearing.	Ongoing	In Compliance	BC Hydro requires its contactors to prepare EPPs that include an explanation of environmental monitoring effort and that this monitoring occur by a QEP or under the supervision of a QEP. In early 2017, the transmission line clearing contractor decided to widen an unapproved access road and therefore went outside its approved clearing area. This was identified by the Monitor and BC Hydro representative and the work was stopped. BC Hydro is working with FLNR to identify a corrective action plan. This will be determined after the snow melts at the site of occurrence.
EAC 13	Specific to the transmission line component of the Project: • The EAC Holder must not grub the right of way with the exception of transmission tower foundation pads, temporary work spaces and access roads.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 13	• Where conductor clearance allows, the EAC Holder must not remove riparian vegetation along watercourses or waterbodies crossed by the transmission corridor.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 13	To reduce erosion along steep or unstable slopes, the EAC Holder must apply best management practices for reservoir clearing along riparian areas and watercourses.	Ongoing	In Compliance	The Riparian Vegetation Management Area (RVMA) buffer is established 15m back from the Ordinary High Water Mark(OHWM). Terrain Stability Field Assessments are done by a terrain specialist to ensure

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 13	Practices must include but not limited to the following: Retention of all trees on steep, unstable slopes that would be highly susceptible to landslides if the vegetation was removed.	Ongoing	In Compliance	any clearing on or near Terrain Class V (high likelihood of landslide initiation following timber harvesting or road construction) areas will not increase slope instability. Areas of potential instability will be removed until a Terrain Stability Field Assessment can be completed. Steep areas will be handfelled (fall and leave) where safe to do so. Areas deemed unsafe or unstable will be left standing until inundation occurs. Boundary limits for clearing activities are flagged (orange ribbon) in the field.
EAC 13	Retention of non-merchantable trees and vegetation in riparian areas within a 15 m buffer from the Ordinary High Water Mark.	Ongoing	In Compliance	Clearing plans were altered to exclude Terrain Class V (high likelihood of landslide initiation following timber harvesting or road construction) areas within the Moberly River, and lower and eastern reservoir as Terrain Stability Field Assessments reports were either not available or lacked adequate rationale for inclusion. Moberly River clearing boundaries were re-engineered to remove unstable terrain prior to clearing. Clearing activities on the north bank of the eastern reservoir were deferred until a terrain specialist is able to complete a review under snow-free conditions. Clearing within the south bank of the eastern reservoir was delayed in the westernmost portion of the block while the ground was being assessed and then re-engineered to meet the assessment requirements.
EAC 13	Retention of non-merchantable trees and vegetation in riparian areas within a 15 m buffer from the Ordinary High Water Mark.	Ongoing	In Compliance	Clearing prescriptions include descriptions on how Riparian Vegetation Management Area clearing is to be conducted and the level of RVMA retention within each treatment unit (TU). Handfalling within the 15m RVMA buffer will occur where equipment can't reach in to remove trees. RVMA buffer is flagged in the field, 15m back from the OHWM (as per the Approved Work Practices for Managing Riparian Vegetation Guide, 26

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 13	Merchantable trees and trees that may protrude above 455 m elevation may still be removed using clearing practices to maintain a 15 m machine-free zone from the OHWM.	Ongoing	In Compliance	Oct 2003). Site specific prescriptions for allowing limited machine access into certain parts of the RVMA will be done by a QEP. Clearing prescriptions include descriptions on how RVMA clearing is to be conducted and the level of RVMA retention within each treatment unit (TU). Handfalling within the 15m RVMA buffer will occur where equipment can't reach in to remove trees. In TU 1 (clear merchantable timber only) areas, only merchantable trees will be removed from the RVMA. Non-merchantable timber and shrubs will be retained where feasible to do so. In TU2 (clear all) and TU4 (fall & leave) areas, no conservation is planned.
EAC 13	The EAC Holder must provide this draft Vegetation Clearing and Debris Management Plan to Environment Canada, FLNR, MOE, Aboriginal Groups, Peace River Regional District and District of Hudson's Hope for review a minimum of 90 days prior to commencement of construction.	Completed	In Compliance	The draft VCDMP was submitted to regulatory agencies, governments, and Aboriginal Groups October 17, 2014.
EAC 13	The EAC Holder must file the final Vegetation Clearing and Debris Management Plan with EAO, Environment Canada, FLNR, MOE, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups, a minimum of 30 days prior to commencement of construction.	Completed	In Compliance	The final VCDMP was submitted to regulatory agencies, governments, and Aboriginal Groups on June 5, 2015, respectively.
EAC 13	The EAC Holder must develop, implement and adhere to the final Vegetation Clearing and Debris Management Plan, and any amendments, to the satisfaction of EAO	Ongoing	In Compliance	The VCDMP is being implemented as planned.
EAC 14	The EAC Holder must develop a Vegetation and Ecological Communities Monitoring and	Completed	In Compliance	This requirement is addressed in Section 7.4.4, Part C of the VWMMP.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Follow-up Program for the construction phase and first 10 years of the operations phase.			
EAC 14	The Vegetation and Ecological Communities Monitoring and Follow-up Program must be developed by a QEP.	Completed	In Compliance	The Vegetation and Ecological Communities Monitoring and Follow-up Program is described in Section 7.4.4, Part C of the VWMMP. Section 2.3 of the VWMMP lists the QPs who prepared the plan.
EAC 14	The Vegetation and Ecological Communities Monitoring and Follow-up Program must include at least the following: Definition of the study design for the rare plant translocation program (see condition 9).	Ongoing	In Compliance	Development of the Rare Plant Translocation program began in 2016. A plan for follow-up monitoring of translocations and measurement criteria is being developed as part of the program. Section 7.4 of the 2016 Annual Report for the VWMMP outlines the status of the translocation program.
EAC 14	Plan for following-up monitoring of any translocation sites to assess the survival and health of translocated rare plant species, under the supervision of a Rare Plant Botanist.	Ongoing	In Compliance	Development of the Rare Plant Translocation program began in 2016. A plan for follow-up monitoring of translocations and measurement criteria is being developed as part of the program. Section 7.4 of the 2016 Annual Report for the VWMMP outlines the status of the translocation program.
EAC 14	Measurement criteria, including vegetation growth, persistence of rare plants and establishment / spread of invasive plant species, and associated monitoring to document the effectiveness of habitat enhancement and possible compensation programs.	Ongoing	In Compliance	The monitoring program will document a suite of measurable parameters designed to evaluate the efficacy of translocation methods and management in relation to the stated objectives of the program. Monitoring is scheduled to begin in 2018 and continue through 2022. Specifically, the monitoring program will measure, document, and evaluate the following: - the efficacy of the methods used to 1) collect and store plant parts; 2) conduct ex situ propagation; 3) translocate the rare plant species from the host site to the recipient sites; 4) collect data; - the survival of the translocated rare plant species through monitoring of population size, extent, threats, resilience, and persistence; and - the follow up procedures applied to address any

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 14	The Vegetation and Ecological Communities Monitoring and Follow-up Program reporting must occur annually during construction and the first 10 years of operations, beginning 180 days following commencement of construction.	Ongoing	In Compliance	declines in survival or fitness of the translocated plants/populations. BC Hydro provided the 2015 Annual Report on the implementation of the VWMMP on January 22, 2016. The 2016 Annual Report for the VWMMP was submitted to regulatory agencies and Aboriginal Groups on March 31, 2017.
EAC 14	The EAC Holder must provide this draft Vegetation and Ecological Communities Monitoring and Follow-up Program to Environment Canada, FLNR, MOE, Peace River Regional District, City of Fort St. John and Aboriginal Groups for review within 90 days after the commencement of construction.	Completed	In Compliance	This requirement is addressed in Section 7.4.4, Part C of the VWMMP. The draft and first revision of the VWMMP was submitted to regulatory agencies and Aboriginal Groups on October 17, 2014, and April 7, 2015, respectively. The final VWMMP was submitted to the same recipients on June 5, 2015.
EAC 14	The EAC Holder must file the final Vegetation and Ecological Communities Monitoring and Follow-up Program with EAO, Environment Canada, FLNR, MOE, Peace River Regional District, City of Fort St. John, and Aboriginal Groups, within 150 days after commencement of construction.	Completed	In Compliance	The final VWMMP was submitted to regulatory agencies and Aboriginal Groups on June 5, 2015.
EAC 14	The EAC Holder must develop, implement and adhere to the final Vegetation and Ecological Communities Monitoring and Follow-up Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro provided the 2015 Annual Report on the implementation of the VWMMP on January 22, 2016. The 2016 Annual Report for the VWMMP was submitted to regulatory agencies and Aboriginal Groups on March 31, 2017.
WILDLIFE RESOURCES				
EAC 15	The EAC Holder must develop a Wildlife Management Plan.	Completed	In Compliance	The Wildlife Management Plan is described in Sections 3.0 and 4.17 of the CEMP and Section 8.6.2 of the VWMMP.
EAC 15	The Wildlife Management Plan must be	Completed	In Compliance	The Wildlife Management Plan is described in Sections

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 15	<p>developed by a QEP.</p> <p>The Wildlife Management Plan must include at least the following:</p> <ul style="list-style-type: none"> Field work, conducted by a QEP, to verify the modelled results for surveyed species at risk and determine, with specificity and by ecosystem, the habitat lost or fragmented for those species. 	Completed	In Compliance	<p>3.0 and 4.17 of the CEMP and Section 8.6.2 of the VWMMP. Section 6.0 of the CEMP and Section 2.3 of the VWMMP lists the QPs who prepared the plans.</p> <p>Results of the field work completed to verify the modelled results for surveyed species at risk was included in the 2015 Annual Report for the VWMMP.</p>
EAC 15	<p>The EAC Holder must use these resulting data to inform final Project design and to develop additional mitigation measures, as needed, as part of the Wildlife Management Plan, in consultation with Environment Canada and FLNR.</p>	Completed	In Compliance	<p>Resulting data were used to update the models and the ranking of habitats. BC Hydro is using this information to assess habitat losses and plan for mitigation efforts.</p>
EAC 15	<ul style="list-style-type: none"> Measures to avoid, if feasible, constructing in sensitive wildlife habitats. <p>If avoiding sensitive wildlife habitats is not feasible, condition 16 applies.</p>	Ongoing	In Compliance	<p>BC Hydro is avoiding, if feasible, construction in sensitive wildlife habitats. For example, BC Hydro relocated work zones within the Portage Mountain quarry to avoid known bat hibernacula. BC Hydro also implemented buffer zones and no-activity windows to avoid disturbing hibernating bats adjacent to the quarry. In accordance with the CEMP Wetlands within the transmission line right-of way were identified and buffer zones established in advance of clearing and construction. A summary of BC Hydro's actions is provided in Appendix 9 of the 2016 Annual Report for the VWMMP.</p>
EAC 15	<ul style="list-style-type: none"> If sensitive habitats, such as wetlands, are located immediately adjacent to any work site, buffer zones must be established by a QEP to avoid direct disturbance to these sites. 	Ongoing	In Compliance	<p>Section 4.18 of the CEMP requires contractors to identify Restricted Activity and Work Avoidance Zones and the implementation of buffer zones. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 15	<ul style="list-style-type: none"> Protocol for the application of construction methods, equipment, material and timing of activities to mitigate adverse effects to wildlife and wildlife habitat. 	Ongoing	In Compliance	during construction to verify implementation of EPPs. Section 4.17 of the CEMP describes how requirements for EPPs in minimizing disturbance to wildlife during the construction phase, including conducting works within the least risk timing windows. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 15	<ul style="list-style-type: none"> Protocol to ensure that lighting is focused on work sites and away from surrounding areas to manage light pollution and disturbance to wildlife. 	Ongoing	In Compliance	The requirement to focus lighting into work areas is included in the CEMP S. 4.17. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Lighting was focused on the work site in all construction locations.
EAC 15	If lighting cannot be directed away from surrounding areas, the EAC Holder must ensure additional mitigation measures are implemented to reduce light pollution, including light shielding.	Ongoing	In Compliance	The requirement to focus lighting into work areas is included in the CEMP S. 4.17. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Lighting was focused on the work site in all construction locations.
EAC 15	<ul style="list-style-type: none"> A mandatory environmental training program for all workers so that they are informed that hunting in the vicinity of any work site/Project housing site is strictly prohibited for all workers. 	Completed	In Compliance	The requirement for all workers to receive training is included in S. 3.0 of the CEMP V4. S. 4.17 of the CEMP V4 states: "Project workers shall be prohibited from hunting while on construction sites, Project built roads or worker housing sites, Cleaning game at construction sites Project built roads or worker housing sites. All workers are required to attend both a BC Hydro orientation and a contractor specific orientation(s) prior to starting work on-site. A component of these training sessions is environmental training for workers. Completion of

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 15	The EAC Holder must ensure that all workers are familiar with the Wildlife Management Plan.	Ongoing	In Compliance	these sessions required prior to the issuance of site access cards."
EAC 15	The EAC Holder must submit this draft Wildlife Management Plan to Environment Canada, FLNR, MOE and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Completed	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation EPPs. The Wildlife Management Plan is described in Section 4.17 of the CEMP and Section 8.6.2 of the VWMMP. The Draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014. The draft and first revision of the VWMMP was submitted to regulatory agencies and Aboriginal Groups on October 17, 2014, and April 7, 2015, respectively.
EAC 15	The EAC Holder must file the final Wildlife Management Plan with EAO, Environment Canada, FLN, MOE and Aboriginal Groups, a minimum of 30 days prior to commencement of construction.	Completed	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. The final VWMMP was submitted to regulatory agencies and Aboriginal Groups on June 5, 2015.
EAC 15	The EAC Holder must develop, implement and adhere to the final Wildlife Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 16	If loss of sensitive wildlife habitat or important wildlife areas cannot be avoided through Project design or otherwise mitigated, the EAC Holder must implement the following measures, which must be described in the Vegetation and Wildlife Mitigation and Monitoring Plan.	Ongoing	In compliance	All required measures of EAC condition 16 are identified in the VWMMP, as described below.
EAC 16	The Vegetation and Wildlife Mitigation and Monitoring Plan must include the following	Ongoing	In Compliance	Section 8.7.2 of the VWMMP sets out the specifications for the new wetland area (Area A of the dam site area),

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 16	compensation measures: • Compensation options for wetlands must include fish-free areas to manage the effects of fish predation on invertebrate and amphibian eggs and larvae and young birds. • Mitigation for the loss of snake hibernacula, artificial dens must be included during habitat compensation.	Ongoing	In Compliance	which are to include fish-free areas. BC Hydro is currently negotiating a contract to develop and implement construction and monitoring of artificial snake hibernacula. The plan developed by the consultant will be reviewed by the VWTC. Implementation will occur in 2017 after review by the VWTC is complete.
EAC 16	• Management of EAC Holder-owned lands adjacent to the Peace River suitable as breeding habitat for Northern Harrier and Short-eared Owl.	Ongoing	In Compliance	BC Hydro continues to manage three BC Hydro owned properties identified for retention and wildlife management date. All three properties provide suitable habitat for non-wetland birds, including the northern harrier and Short-eared Owl. Surveys in 2016 documented Short-eared Owl on one property and Northern Harrier on all three properties.
EAC 16	• Establishment of nest boxes for cavity-nesting waterfowl developed as part of wetland mitigation and compensation plan, and established within riparian vegetation zones established along the reservoir on BC Hydro-owned properties.	Ongoing	In Compliance	The establishment of nest boxes for cavity-nesting waterfowl is addressed in the Section 7.3.6 of the VWMMP (Wetland compensation). An expanded nest box program to mitigate for the loss of nesting sites for cavity nesting bird species has been developed based on discussions with the VWTC. Implementation will occur in 2017 after review by the VWTC is complete.
EAC 16	• A design for bat roosting habitat in HWY 29 bridges to BC Ministry of Transportation and Infrastructure (MOTI) for consideration into new bridge designs located within the Peace River valley.	Ongoing	In Compliance	BC Hydro continues to work with the BC Ministry of Transportation and Infrastructure (MOTI) on including roosting structures for bats in bridges. In 2016 MOTI identified preliminary locations for bat boxes on the Cache Creek Bridge. Designs were sent to the VWTC for review.
EAC 16	• Following rock extraction at Portage Mountain, creation of hibernating and	Ongoing	In Compliance	The Portage Mountain Quarry development plan, currently under development, will outline how bat

No.	EAC Condition	Implementation Status	Compliance Status	Description
	roosting sites for bats.			hibernating and roosting sites will be provided after extraction activities are complete.
EAC 16	<ul style="list-style-type: none"> Creation of natural or artificial piles of coarse woody debris dispersed throughout the disturbed landscape to maintain foraging areas and cold-weather rest sites, and arboreal resting sites, for the fisher population south of the Peace River. 	Ongoing	In Compliance	Twenty-five (25) coarse woody debris piles for fisher were created within the dam site area in 2016. A map of the CWD piles created is included in the 2016 Annual Report for the VWMMP.
EAC 16	The EAC Holder must provide this draft Vegetation and Wildlife Mitigation and Monitoring Plan to Environment Canada, FLNR, MOE, and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Completed	In Compliance	The draft and first revision of the VWMMP was submitted to regulatory agencies and Aboriginal Groups on October 17, 2014, and April 7, 2015, respectively.
EAC 16	The EAC Holder must file the final Vegetation and Wildlife Mitigation and Monitoring Plan with EAO, Environment Canada, FLNR MOE, and Aboriginal Groups, a minimum of 30 days prior to commencement of construction.	Completed	In Compliance	The final VWMMP was submitted to the same recipients on June 5, 2015. Section 2.0 of the VWMMP provides a concordance table which shows how each of the requirements of Condition 16 is addressed in the Plan, including references to the CEMP as appropriate.
EAC 16	The EAC Holder must develop, implement and adhere to the final Vegetation and Wildlife Mitigation and Monitoring Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The 2015 Annual Report for the VWMMP describes implementation of the plan to date. Please refer to EAC Condition 19 for measures specific to injury and mortality to amphibians and snakes, with regard to implementation of the VWMMP.
EAC 17	As part of the Vegetation Clearing and Debris Management Plan, if the EAC Holder must conduct clearing activities during these specified critical time periods: <ul style="list-style-type: none"> Songbirds: May 1 through July 31; Trumpeter swan, raptors and owls: April 1 through July 31; and Sharp-tailed grouse: mid-April and mid-July (lek to nesting to hatching). 	Ongoing	In Compliance	Section 3.5 of the VCDMP and Section 4.17 of the CEMP describe the requirements outlined in Condition 17. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 17	The EAC Holder must first develop and implement a nest and lek search protocol, in consultation with the FLNR and MOE.	Ongoing	In Compliance	The nest search protocol has been revised based on 2016 findings and is included as Appendix 2 of the 2016 Annual Report for the VWMMP, submitted to regulatory agencies and Aboriginal Groups on March 31, 2017. An expanded Sharp-tailed Grouse lek mitigation program was developed based on discussions with the VWTC. The program was provided in Section 4.17 of CEMP Revision 4 issued July 26, 2016.
EAC 17	The EAC Holder must provide FLNR and MOE with all known nest and lek locations.	Ongoing	In Compliance	All known nest locations identified during pre-clearing nest surveys were provided to FLNR and MOE on March 16, 2017. All data on leks BC Hydro was provided by MOE/FLNR. BC Hydro did not find any additional leks in 2016 and as such no new data on lek occurrences was submitted to FLNR and MOE.
EAC 17	The EAC Holder must flag these sites and require employees and contractors to avoid these sites.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 17	The nest and lek search protocol must include specifications for buffers around active nest sites and flagging, as required by FLNR.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs..
EAC 18	The EAC Holder must avoid human-wildlife conflicts during the construction phase by implementing measures detailed in a Human-Wildlife Conflict Management Plan.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	The Human-Wildlife Conflict Management Plan must include at least the following: . Prior to the commencement of work, the EAC Holder must ensure that all crews have	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	participated in Bear Aware or a similar training program.			verify implementation of EPPs.
EAC 18	<ul style="list-style-type: none"> Prohibit feeding of wildlife at work sites. 	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	<ul style="list-style-type: none"> Ensure that all construction areas and worker housing sites are kept clean and free of discarded anthropogenic food sources, with garbage securely stored in verified bear-proof containers or removed from site. 	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	<ul style="list-style-type: none"> Prohibit work crews from hunting while on any work sites, Project built roads and worker housing sites. 	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	<ul style="list-style-type: none"> Prohibit work crews from cleaning game at construction sites. Project built roads and worker housing sites. 	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	<ul style="list-style-type: none"> Measures to minimize road mortality, including posted speed limits, provision of alternative transportation options including, for example, carpooling, 	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	<ul style="list-style-type: none"> Procedures for reporting dangerous human-wildlife incidents and incidents of wildlife mortality. 	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 18	<ul style="list-style-type: none"> Prompt notification to the appropriate authorities of incidences of roadkill, or, in the event a wildlife act permit to manage road kill is obtained by the EAC Holder, the EAC Holder must implement management measures as per permit requirements. 	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	<ul style="list-style-type: none"> Review of effectiveness of measures to manage dangerous human-wildlife interactions. 	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	The EAC Holder must provide the draft Human-Wildlife Conflict Management Plan to the MOE Conservation Officer Service for review a minimum of 90 days prior to the commencement of construction.	Completed	In Compliance	The Human Wildlife Conflict Management Plan is described in Section 4.17 of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014
EAC 18	The EAC Holder must file the final Human-Wildlife Conflict Management Plan with EAO and the MOE Conservation Officer Service a minimum of 30 days prior to the commencement of construction.	Completed	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016.
EAC 18	The EAC Holder must develop, implement and adhere to the final Human-Wildlife Conflict Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.
EAC 19	The EAC Holder must use reasonable efforts to avoid and reduce injury and mortality to amphibians and snakes on roads adjacent to wetlands and other areas where amphibians or snakes are known to migrate across roads including locations with structures designed for wildlife passage	Ongoing	In Compliance	BC Hydro is using reasonable efforts to avoid and reduce injury and mortality to amphibians and snakes. In 2016, BC Hydro conducted two amphibian salvages along the side channel on the south bank of the Peace River. The first was an emergency salvage conducted in May and June 2016, where 364 amphibians were removed from and relocated outside of the work zone;

No.	EAC Condition	Implementation Status	Compliance Status	Description
				<p>the second salvage was in July and August 2016 when approximately 5,053 amphibians were removed from the work zone including 4,981 western toads, 70 wood frogs, and 2 boreal chorus frogs. Eleven common garter snakes were also removed from the work zone. The 2016 transmission line center line surveys identified and buffered wetlands within and adjacent to the right-of-way and tower locations.</p> <p>On December 22, 2016, EAO issued an Order to BC Hydro regarding amphibian surveys at Portage Mountain Quarry and the installation of amphibian mitigation structures. This Order was issued based on an inspection from August 30 to September 1, 2016. In response to the Order, BC Hydro developed a protocol for conducting amphibian assessments within and adjacent to work sites. BC Hydro has also conducted an internal investigation into this incident and recommended several improvements to BC Hydro's Compliance Program. Implementation of improvement measures is underway. BC Hydro will implement the remainder of the amphibian assessment protocol resulting Order in spring/summer 2017.</p>
EAC 19	The EAC Holder must consult with Environment Canada, FLNR and MOE with regard to the size and number of the proposed structures prior to construction.	Ongoing	In Compliance	<p>BC Hydro has developed a protocol to salvage amphibians where they are observed along roads adjacent to wetlands and in other areas where they are known to migrate across roads. The protocol calls for installation of crossing structures after 3 years of documenting amphibian migration across a road in the same location.</p> <p>At this time no migration areas across roads have been identified.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 20	The EAC Holder must use reasonable efforts to minimize disturbance to wildlife during the construction phase by scheduling construction activities in accordance with the Construction Environmental Management Plan.	Ongoing	In Compliance	BC Hydro is consulting with EC, FLNR and MOE on the protocol as part of the Program Area review established under the Conditional Water license. Section 4.17 of the CEMP describes how requirements for EPPs in minimizing disturbance to wildlife during the construction phase, including conducting works within the least risk timing windows. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 20	The EAC Holder must ensure that measures implemented to manage harmful Project effects on wildlife resources are effective by implementing monitoring measures detailed in a Vegetation and Wildlife Mitigation and Monitoring Plan.	Ongoing	In Compliance	The final VWMMP was developed and submitted to regulatory agencies, governments and Aboriginal Groups on June 5, 2015.
EAC 21	The Vegetation and Wildlife Mitigation and Monitoring Plan must be developed by a QEP.	Completed	In Compliance	Section 2.3 of the VWMMP lists the QPs who prepared the plan.
EAC 21	The Vegetation and Wildlife Mitigation and Monitoring Plan must include at least the following: Monitor Bald Eagle nesting populations adjacent to the reservoir, including their use of artificial nest structures.	Ongoing	In Compliance	Monitoring of the Bald Eagle nesting population occurred in September 2016. Sixty seven (67) stick nests were surveyed; 60 of these were confirmed as Bald Eagle nests during the 2014 survey. For the confirmed Bald Eagle nests, the September survey determined 4 of these nests to be inactive, 15 could not be relocated and 41 were confirmed present but could not have an activity status assigned as the young had fledged.
EAC 21	Monitor waterfowl and shorebird populations and their use of natural wetlands, created wetlands, and artificial wetland features.	Ongoing	In Compliance	Spring waterfowl and shorebird surveys along the Peace River and adjacent large lakes were conducted on March 30, April 20 and May 17, 2016. Results are in Appendix C of the 2016 Annual Report for the VWMMP. Fall waterfowl and shorebird surveys along the Peace

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 21	<ul style="list-style-type: none"> Monitor amphibian use of migration crossing structures installed along Project roads. 	Ongoing	In Compliance	<p>River and adjacent large lakes were conducted on September 12 and October 12, 2016. The third survey could not be conducted due to unsuitable weather conditions (high winds, fog, and rain) that persisted throughout the fall migration survey period. The 2015/16 fall waterfowl and shorebird survey report is provided in Appendix D of the 2015 Annual Report for VWMMP.</p> <p>No amphibian crossing structures were installed in 2016. Monitoring of structures will occur in future years as required.</p>
EAC 21	<ul style="list-style-type: none"> Survey songbird and ground-nesting raptor populations during construction and operations. 	Ongoing	In Compliance	<p>Birds were surveyed using 100 m fixed-radius point counts conducted May 11 to July 9, 2016. Survey stations were located within three zones: Upstream Peace River Valley, Downstream Peace River Valley and Plateau (the area between the Upstream Peace River Valley and the transmission line). Stations were stratified by Broad Habitat Mapping unit. Surveys were conducted at 143 stations and 275 surveys were conducted, including revisits to the same stations. A total of 2049 birds of 68 songbird species were recorded during the point count surveys. The Upstream Valley had the largest number of species and the highest average station species richness; the Plateau had the lowest. Nine species listed under the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), the Species at Risk Act (SARA) and/or British Columbia's Red and Blue lists were observed during the surveys. Point count stations were located within two of three BC Hydro Compensation properties. Surveys in the Marl Fen property and the Wilder Creek property found 27 and 34 songbird species respectively.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 21	<ul style="list-style-type: none"> Survey the distribution of western toad and garter snake populations downstream of the Site C dam to the Pine River. 	Not Started	Future Requirement	<p>The ground nesting surveys were completed in three BC Hydro compensation properties (Marl Fen, Rutledge Property and Wilder Creek). Surveys were also intended to be completed in cleared portions of the Site C dam headpond area however no clearing had occurred prior to the 2016 surveys. Ground nesting raptor surveys were completed three times between May and June 2016. The surveys were conducted using a combination of encounter transects walked on foot and stationary stand watches. Ground nesting raptors were observed at each of the three properties. One Short-eared Owl was observed at Marl Fen. The remaining observations were Northern Harrier: six at Marl Fen and one observation each at Rutledge and Wilder Creek. No nests or evidence of nesting were observed.</p> <p>Downstream snake and toad monitoring is scheduled to begin in 2018, one year prior to river diversion.</p>
EAC 21	<ul style="list-style-type: none"> Require annual reporting during the construction phase and during the first 10 years of operations to EAO, beginning 180 days following commencement of construction. 	Ongoing	In Compliance	<p>Results of the above surveys and other programs are described in the 2016 Annual Report for the VWMMP, submitted to regulatory agencies and Aboriginal Groups on March 31, 2017.</p>
EAC 21	<p>The EAC Holder must provide this draft Vegetation and Wildlife Mitigation and Monitoring Plan to FLNR, MOE, Environment Canada and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.</p>	Completed	In Compliance	<p>The draft and first revision of the VWMMP was submitted to regulatory agencies and Aboriginal Groups on October 17, 2014, and April 7, 2015, respectively. The final VWMMP was submitted to the same recipients on June 5, 2015.</p>
EAC 21	<p>The EAC Holder must file the final Vegetation and Wildlife Mitigation and Monitoring Plan must with EAO, FLNR, MOE, Environment</p>	Completed	In Compliance	<p>The final VWMMP was submitted to regulatory agencies and Aboriginal Groups on June 5, 2015.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 21	<p>Canada and Aboriginal Groups a minimum 30 days prior to the commencement of construction.</p> <p>The EAC Holder must develop, implement and adhere to the final Vegetation and Wildlife Mitigation and Monitoring Plan, and any amendments, to the satisfaction of EAO.</p>	Ongoing	In Compliance	<p>The 2015 Annual Report for the VWMMP provides an update on implementation of the plan. This report was submitted to regulatory agencies and Aboriginal Groups on January 22, 2016.</p>
EAC 22	<p>The EAC Holder must implement measures that reduce the potential for new or increased public access via roads constructed for the Project, by using pre-existing routes where feasible, decommissioning temporary access roads as soon as practicable after use, and proposing to FLNR Project access roads that should be closed to the public in areas known to be important to Aboriginal groups.</p>	Ongoing	In Compliance	<p>Appendix A of the VCDMP describes how the requirements of Condition 22 are being met during construction. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 22	<p>The EAC Holder must develop mitigation measures in collaboration with FLNR and the Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band.</p>	Ongoing	In Compliance	<p>Specific access routes will be identified in relevant permit applications, such as the Forest Act Occupant Licence to Cut permits. Consultation on these permits is undertaken with the groups identified in the condition, which allows for discussion about the selection of new or pre-existing access routes, and decommissioning requirements.</p>
EAC 22	<p>The EAC Holder must develop mitigation measures in collaboration with FLNR and the Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band.</p>	Ongoing	In Compliance	<p>Specific access routes will be identified in relevant permit applications, such as the Forest Act Occupant Licence to Cut permits. Consultation on these permits is undertaken with the groups identified in the condition, which allows for discussion about the selection of new or pre-existing access routes, and decommissioning requirements.</p>
EAC 23	<p>The EAC Holder must maintain current</p>	Ongoing	In Compliance	<p>In addition, the draft and final VCDMP were submitted to regulatory agencies, governments, and Aboriginal Groups for comment on October 17, 2014 and June 5, 2015, respectively.</p> <p>Rare Plants: In 2016 no rare plants were added to the</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	<p>knowledge of Project effects on the status of listed species by tracking updates for species identified by the Province, the Committee on the Status of Endangered Wildlife in Canada, and the Species at Risk Act.</p>			<p>lists or up listed that overlap with the Site C Project footprint. Two species, Tawny Paintbrush and Purple-stemmed Aster that occur within the Site C Project footprint were down listed to yellow in 2016. As such they are no longer considered rare plants. The rankings of field pussytoes and pretty cinquefoil were changed in 2015 in anticipation of construction of the Site C Clean Energy Project. The rationale provided by the BC Conservation Data Centre (CDC) for the rank changes is:- field pussytoes- much of the range is threatened by a hydroelectric development and other threats (CDC 2015a)- pretty cinquefoil-occurs in BC Only in the Peace Lowlands (CDC 2015a)Recovery planning documents are not yet available for field pussytoes or pretty cinquefoil. BC Hydro will work with FLNR and MOE, through the wildlife technical sub-committee, to quantify effects of the Project on these species and to determine if any changes to the Projects associated management plans or monitoring programs are required to mitigate effects of the Project on these listed species.</p> <p>Wildlife: Recovery strategies for Canada Warbler and Common Nighthawk were released by the Government of Canada in 2016. BC Hydro is addressing mitigation for these species in consultation with Environment Canada through the VWTC. None of the wildlife species added to the Species at Risk Act in 2016 occur within the Site C Project area. None of the wildlife species added to the provincial red and blue lists occur within the Site C Project area.</p>
EAC 23	<p>Should the status of a listed species change for the worse during the course of the</p>	<p>Ongoing</p>	<p>In Compliance</p>	<p>Rare Plants: In 2016 no rare plants were added to the lists or up listed that overlap with the Site C Project</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	<p>construction of the Project due to Project activities, the EAC Holder, must work with Environment Canada FLNR and MOE to determine if any changes to the associated management plans or monitoring programs are required to mitigate effects of the Project on affected listed species.</p>			<p>footprint. Two species, Tawny Paintbrush and Purple-stemmed Aster that occur within the Site C Project footprint were down listed to yellow in 2016. As such they are no longer considered rare plants. The rankings of field pussytoes and pretty cinquefoil were changed in 2015 in anticipation of construction of the Site C Clean Energy Project. The rationale provided by the CDC for the rank changes is:</p> <ul style="list-style-type: none"> - field pussytoes- much of the range is threatened by a hydroelectric development and other threats (CDC 2015a) - pretty cinquefoil-occurs in BC Only in the Peace Lowlands (CDC 2015a) <p>Recovery planning documents are not yet available for field pussytoes or pretty cinquefoil. BC Hydro will work with FLNR and MOE, through the wildlife technical sub-committee, to quantify effects of the Project on these species and to determine if any changes to the Projects associated management plans or monitoring programs are required to mitigate effects of the Project on these listed species.</p> <p>Wildlife: Recovery strategies for Canada Warbler and Common Nighthawk were released by the Government of Canada in 2016. BC Hydro is addressing mitigation for these species in consultation with Environment Canada through the VWT. None of the wildlife species added to the Species at Risk Act in 2016 occur within the Site C Project area. None of the wildlife species added to the provincial red and blue lists occur within the Site C Project area.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 24	The EAC Holder must identify suitable lands for ungulate winter range by the end of the first year of construction, on BC Hydro-owned lands, or Crown lands, in the vicinity of the Project in consultation with FLNR.	Completed	In Compliance	BC Hydro fulfilled this condition in 2015. Section 8.11 of the VWMMP addresses this condition. Suitable winter range on BC Hydro owned land was identified in Figures 9, 10 and 11 of the VWMMP, and in Forest Act Occupant Licence to Cut permit applications overlapping with provincially designated winter range.
EAC 24	If FLNR determines that identified winter range is required, the EAC Holder must identify and maintain suitable BC Hydro-owned lands for ungulate winter range to the satisfaction of FLNR and for the length of time determined by FLNR.	Completed	In Compliance	BC Hydro fulfilled this condition in 2015. Section 8.11 of the VWMMP addresses this condition. Suitable winter range on BC Hydro owned land was identified in Figures 9, 10 and 11 of the VWMMP, and in Forest Act Occupant Licence to Cut permit applications overlapping with provincially designated winter range.
CURRENT USE OF LANDS AND RESOURCES FOR TRADITIONAL PURPOSES				
EAC 25	The EAC Holder must undertake a ground truthing program of traditional plants currently used by Aboriginal Groups in collaboration with Aboriginal Groups prior to construction.	Ongoing	In Compliance	<p>Ground-truthing with Saulteau First Nations registered trapline holders took place in summer/fall 2014 and August 2015, and with McLeod Lake Indian Band in summer 2015 and fall 2016. QPs have been retained to accompany BC Hydro and Aboriginal land users in the field to record locations, features, and sites and prepare the summary report. Reports generated are shared with the Aboriginal land users for their review and comment. BC Hydro has provided funding to support Doig River First Nation's and Halfway River First Nation's independent ground-truthing.</p> <p>BC Hydro will continue to seek ground truthing opportunities throughout construction, and will be sending invitation letters highlighting areas where construction is planned to take place in the near term so that BC Hydro and respective Aboriginal groups can ground-truth areas of traditional and cultural significance (as identified in TLUS reports submitted for</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 25	Where specific plants are known to be harvested by Aboriginal Groups, the EAC Holder must make reasonable efforts to consult interested Aboriginal Groups using the results of the ground truthing to inform the development and implementation of mitigation and compensation measures to accommodate adverse effects of the Project on plants traditionally used by Aboriginal Groups.	Ongoing	In Compliance	the EIS) prior to construction. Ground-truthing information received will continue to be used to support and inform mitigation measures and relevant mitigation plans. Based on the ground truthing results to date, a list of plants species of traditional aboriginal value has been compiled and shared with the Culture and Heritage Resources Committee for discussion and to seek input on additional plants of high traditional aboriginal value. Through this process, as well as new information provided through future ground truthing, plants of high traditional aboriginal value will continue to be identified and included in the mix of species considered for re-vegetation conducted under the VWMMP and the Soil Management, Site Restoration and Revegetation Plan (Appendix H of the CEMP). Based on ground-truthing information received from Doig River First Nation and Mcleod Lake Indian Band, no new plant species have been identified. Additionally, BC Hydro and Sauteau First Nations registered trapline holders conducted ground-truthing activities in the vicinity of the transmission line right-of-way and dam site area in the summer and fall of 2014 and summer of 2015. The ground-truthing information received was considered as part of the transmission line clearing plan and tower placements.
EAC 26	The EAC Holder must develop an Aboriginal Plant Use Mitigation Plan to describe how the effects of the Project on plants currently harvested by Aboriginal Groups will be mitigated, including through compensation measures.	Ongoing	In Compliance	The Aboriginal Plant Use Mitigation Plan (June 2015) is available on the Project website at https://www.siteproject.com/sites/default/files/Aboriginal_Plant_Use_Mitigation_Plan.pdf
EAC 26	The Aboriginal Plant Use Mitigation Plan must	Ongoing	In Compliance	Plant species of high traditional Aboriginal value will be

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 26	include at least the following: Identify within the Project footprint including areas being reclaimed potential sites for relocation of medicinal and food plants; relocate when deemed necessary by a QEP.	Not Started	Future Requirement	identified (per EAC 25) and included in the mix of species considered for re-vegetation activities conducted under the Soil Management, Site Restoration and Revegetation Plan (Appendix H of the CEMP). Rare plant species impacted, or potentially impacted, by project construction activities may be included in the experimental rare plant translocation program (described in section 8.2 of the VWMMP) based on the characteristics of the species, and availability of suitable locations and habitat conditions near to the construction area. For other (non-rare) species, a QEP will identify those species suitable for use in reclamation plans, based on the biological and site conditions of identified reclamation areas as well as the requirements of the target plant species. Currently, "Rat root" (Acorus americanus) is the only rare plant species of high traditional Aboriginal value identified through ground truthing (currently Red-listed in BC by the BC Conservation Data Centre).
EAC 26	Identify within the Project footprint including areas being reclaimed opportunities to restore ecological communities that support species of high traditional use value for affected Aboriginal Groups	Ongoing	In Compliance	Based on the ground truthing results to date, a list of plants species of traditional aboriginal value have been compiled and shared with the Culture and Heritage Resources Committee for discussion and to seek input on additional plants of high traditional aboriginal value. Through this process, as well as new information provided through future ground truthing, plants of high traditional aboriginal value and ecological communities that support them will be identified and considered for re-vegetation activities conducted under the Soil Management, Site Restoration and Revegetation Plan (Appendix H of the CEMP).
EAC 26	and undertake restoration of those ecological	Not Started	Future	Plant species of high traditional Aboriginal value will be

No.	EAC Condition	Implementation Status	Compliance Status	Description
	communities where deemed necessary by a QEP.		Requirement	identified (per EAC 25) and included in the mix of species considered for re-vegetation activities conducted under the Soil Management, Site Restoration and Revegetation Plan (Appendix H of the CEMP).
EAC 26	Identify opportunities and provide financial support for propagation of indigenous plant species for use in reclamation programs, such as that offered through the indigenous nursery owned by the West Moberly First Nation and Saulteau First Nation.	Ongoing	In Compliance	BC Hydro has entered into a contract with Twin Sisters Nursery (indigenous nursery owned by West Moberly First Nations and Saulteau First Nations) for supply and delivery of live native grass seeds suitable for dry or hydro seed application to support re-vegetation and reclamation activities. Seeds of local plant species of Aboriginal value have been collected by Twin Sisters and will be available for use in reclamation plans as required.
EAC 26	The EAC Holder must make reasonable commercial efforts to obtain up to \$1 million in commercial service contracts with indigenous nurseries for provision of plants.	Ongoing	In Compliance	BC Hydro has entered into a contract with Twin Sisters Nursery (indigenous nursery owned by West Moberly First Nations and Saulteau First Nations) for supply and delivery of live native grass seeds suitable for dry or hydro seed application to support re-vegetation and reclamation activities. Seeds of local plant species of Aboriginal value have been collected by Twin Sisters and will be available for use in reclamation plans as required.
EAC 26	The EAC Holder must make reasonable efforts to develop the Aboriginal Plant Use Mitigation Plan in collaboration with FLNR and Aboriginal Groups, at least 90 days prior to Project activities that may affect traditional plants.	Completed	In Compliance	The draft Aboriginal Plant Use Mitigation Plan was submitted to regulatory agencies and Aboriginal Groups on October 17, 2014.
EAC 26	The EAC Holder must file the final Aboriginal Plant Use Mitigation Plan with EAO, FLNR and Aboriginal Groups at least 30 days prior to Project activities that may affect traditional plants.	Completed	In Compliance	The final Aboriginal Plant Use Mitigation Plan was submitted to regulatory agencies and Aboriginal Groups on June 5, 2017.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 26	The EAC Holder must develop, implement and adhere to the final Aboriginal Plant Use Mitigation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The 2015-2016 Annual Report for the Aboriginal Plant Use Mitigation Plan was submitted to the EAO on July 5, 2016. The 2016-2017 Annual Report for the Aboriginal Plant Use Mitigation Plan will be submitted to the EAO in July, 2017. BC Hydro will update the plan as required based on new information. Initiatives described in the Aboriginal Plant Use Mitigation Plan will continue to be implemented through project construction.
EAC 27	In order to manage adverse effects on Aboriginal plant, fish and game harvesters during both the construction and operations phases of the Project, the EAC Holder must develop, as part of the Construction Communication Plan, a communications program (Program) for informing Aboriginal harvesters about construction activities that may affect their harvesting opportunities for plants, fish, and game, as well as access to those opportunities.	Ongoing	In Compliance	BC Hydro has developed an Aboriginal Group Communication Plan (see Appendix D of the CEMP) which describes the measures being taken to inform Aboriginal groups about construction activities that may affect harvesting opportunities. The 2015-2016 Annual Report for the Aboriginal Group Communication Plan was submitted to the EAO on July 5, 2016. The 2016-2017 Annual Report will be submitted in July 2017.
EAC 27	The Program must also include information regarding how fish monitoring programs will be used to inform Aboriginal harvesters about changes in fish community composition during operations.	Completed	In Compliance	BC Hydro has developed an Aboriginal Group Communication Plan (see Appendix D of the CEMP) which describes the measures being taken to inform Aboriginal groups about construction activities that may affect harvesting opportunities. The 2015-2016 Annual Report for the Aboriginal Group Communication Plan was submitted to the EAO on July 5, 2016. The 2016-2017 Annual Report will be submitted in July 2017.
EAC 27	The EAC Holder must make all reasonable efforts to develop the draft Program in collaboration with FLNR and Aboriginal Groups, at least 90 days prior to Project activities that may affect Aboriginal harvesting opportunities.	Completed	In Compliance	The draft Aboriginal Group Communications Plan is described in Appendix D of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 27	The EAC Holder must file the final Program with EAO, FLNR and Aboriginal Groups at least 30 days prior to any activities that may affect Aboriginal harvesting opportunities.	Completed	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016. The 2015-2016 Annual Report for the Aboriginal Group Communication Plan was submitted to the EAO and shared with Aboriginal Groups on July 5, 2016. The 2016-2017 Annual Report will be submitted to the EAO in July, 2017.
EAC 27	The EAC Holder must develop, implement and adhere to the final Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	
EAC 28	In order to mitigate the loss of use and access to structures used in Aboriginal traditional and current harvesting (e.g. cabins associated with tenured trap lines) as a result of Project reservoir flooding, the EAC Holder must make all reasonable efforts to consult with Aboriginal Groups and FLNR to identify the locations of such structures, including permanent, untenured structures.	Ongoing	In Compliance	BC Hydro undertook ground-truthing with Saulteau First Nations registered trapline holders in summer/fall 2014 and August 2015 to verify and understand their Aboriginal traditional and current harvesting practices. Compensation agreements have been signed with 5 of 6 Saulteau First Nations registered trapline holders to compensate for impacts of the project on their ability to trap, which include impact to structures. BC Hydro has a standing invitation to Aboriginal groups to meet and discuss any issues or concerns regarding the project as construction proceeds, and remain committed to conducting ground truthing with any interested Aboriginal groups in the project activity zone. Site C's Aboriginal Relations staff has conducted site visits and ground truthing activities with interested Aboriginal groups in the dam site area, along the transmission line, and on the Peace River between Halfway River and Taylor. The Cultural and Heritage Resources Committee (described in the Cultural Resources Mitigation Plan) has met on nine occasions to discuss construction activities and mitigation measures related to cultural and heritage resources.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 28	Where the loss of such structures are identified and confirmed through ground-truthing, the EAC Holder must make reasonable efforts to consult with Aboriginal groups and FLNR to establish measures to compensate for the loss of such structures prior to the loss of the structures.	Ongoing	In Compliance	<p>The Committee last met on December 8, 2016, and is continuing to work on developing an Aboriginal public display board to be installed at the north bank viewpoint.</p> <p>BC Hydro undertook ground-truthing with Saulteau First Nations registered trapline holders in summer/fall 2014 and August 2015 to verify and understand their Aboriginal traditional and current harvesting practices. Compensation agreements have been signed with 5 of 6 Saulteau First Nations registered trapline holders to compensate for impacts of the project on their ability to trap, which include impact to structures.</p> <p>BC Hydro has a standing invitation to Aboriginal groups to meet and discuss any issues or concerns regarding the project as construction proceeds, and remain committed to conducting ground truthing with any interested Aboriginal groups in the project activity zone. Site C's Aboriginal Relations staff has conducted site visits and ground truthing activities with interested Aboriginal groups in the dam site area, along the transmission line, and on the Peace River between Halfway River and Taylor. The Cultural and Heritage Resources Committee (described in the Cultural Resources Mitigation Plan) has met on nine occasions to discuss construction activities and mitigation measures related to cultural and heritage resources. The Committee last met on December 8, 2016, and is continuing to work on developing an Aboriginal public display board to be installed at the north bank viewpoint.</p>
EAC 28	The EAC Holder must implement a process for the identification of, and compensation for	Ongoing	In Compliance	<p>BC Hydro undertook ground-truthing with Saulteau First Nations registered trapline holders in summer/fall 2014</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	<p>untended structures that are culturally important to Aboriginal Groups at least 30 days prior to the commencement of construction activities.</p>			<p>and August 2015 to verify and understand their Aboriginal traditional and current harvesting practices. Compensation agreements have been signed with 5 of 6 Saulteau First Nations registered trapline holders to compensate for impacts of the project on their ability to trap, which include impact to structures.</p> <p>BC Hydro has a standing invitation to Aboriginal groups to meet and discuss any issues or concerns regarding the project as construction proceeds, and remain committed to conducting ground truthing with any interested Aboriginal groups in the project activity zone. Site C's Aboriginal Relations staff has conducted site visits and ground truthing activities with interested Aboriginal groups in the dam site area, along the transmission line, and on the Peace River between Halfway River and Taylor. The Cultural and Heritage Resources Committee (described in the Cultural Resources Mitigation Plan) has met on nine occasions to discuss construction activities and mitigation measures related to cultural and heritage resources. The Committee last met on December 8, 2016, and is continuing to work on developing an Aboriginal public display board to be installed at the north bank viewpoint.</p>
	LAND AND RESOURCE USE			
EAC 29	<p>Harvest of Fish and Wildlife Resources</p> <p>In order to appropriately manage effects on disruption of access to registered trapline holders and Guide Outfitters during construction, the EAC Holder must make reasonable efforts to conclude access agreements with these affected registered</p>	Ongoing	In Compliance	<p>BC Hydro is in discussions with all trapline holders (seven) and guide outfitters (two) within whose territory construction activities are taking place. An agreement has been reached with four of the seven trapline holders and an offer has also been made to and verbally accepted by another trapline holder. An</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	third parties, unless there are safety concerns involved.			agreement has been reached with one of the two guide outfitters. BC Hydro is in discussions with regard to reaching agreements with all trapline holders and guide outfitters within whose territory construction activities are planned for 2017 and beyond.
EAC 30	Agriculture In order to avoid or manage the effects of the project on agricultural land owners and tenure holders, the EAC Holder must develop an Agricultural Mitigation and Compensation Plan.	Ongoing	In Compliance	BC Hydro submitted and publically posted the Framework for the Agricultural Mitigation and Compensation Plan on July 27, 2016, one year after the commencement of construction. The draft Agriculture Mitigation and Compensation Plan was posted for feedback on January 27, 2017, 18 months after the start of construction. Submission of the final Agriculture Mitigation and Compensation Plan is targeted for July 2017, 2 years after the commencement of construction. Section 2.1 of the draft Agricultural Mitigation and Compensation Plan lists the QEPs who prepared the plan.
EAC 30	The Agricultural Mitigation and Compensation Plan must be developed by a QEP.	Ongoing	In Compliance	The draft Agriculture Mitigation and Compensation Plan was posted on the Project website for feedback on January 27, 2017. Section 2.4 describes how BC Hydro will jointly develop individual farm mitigation plans with agricultural land owners and tenure holders or all farms directly affected by the Project. Mitigation and compensation measures consistent with industry compensation standards will be developed within Individual farm mitigation plans by the Site C Properties Team, following the process outlined within the BC Hydro Site C Property Acquisition Process Guide. BC Hydro's Properties Team is in discussions with agricultural land owners and tenure holders regarding
EAC 30	As part of Agricultural Mitigation and Compensation Plan development, the EAC Holder must evaluate effects on agricultural land owners and tenure holders, and develop mitigation and compensation measures consistent with industry compensation standards, to mitigate effects or compensate for losses.	Ongoing	In Compliance	

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 30	<p>The Agricultural Mitigation and Compensation Plan must include at least the following:</p> <ul style="list-style-type: none"> • Inclusion of suitable land in the Agricultural Land Reserve in consultation with the Agriculture Land Commission. 	Ongoing	In Compliance	<p>potential effects of the Project on their land and operations, including potential mitigation actions related to disruption of their continuing agricultural operations.</p> <p>The draft Agriculture Mitigation and Compensation Plan was posted on the Project website for feedback on January 27, 2017. Section 1.7.2 and 2.5 of the draft Agriculture Mitigation Compensation Plan identified how and when the Agricultural Land Commission has directed BC Hydro to work with them on the management of residual lands.</p>
EAC 30	<ul style="list-style-type: none"> • When residual land parcels are to be sold, consolidate and/or connect residual agricultural parcels with adjacent agricultural land holdings, where practical and when owner(s) and BC Hydro agree. 	Ongoing	In Compliance	<p>The draft Agriculture Mitigation and Compensation Plan was posted on the Project website for feedback on January 27, 2017. Section 2.5 of the draft Agriculture Mitigation Compensation Plan reflects this requirement.</p>
EAC 30	<ul style="list-style-type: none"> • Funding for mitigation actions for disruptions to agricultural land owners and tenure holders, including but not limited to the provision of alternative / replacement: <ul style="list-style-type: none"> o Livestock movement options and compensation for associated increased costs; o Infrastructure (irrigation and drainage improvements); o Water supplies; o Relocation of quality soil in selected locations; o Farm and field access; o Highway crossings; o Utility crossings; o Livestock watering and drainage works during construction, and restore original works after construction is completed; and 	Ongoing	In Compliance	<p>The draft Agriculture Mitigation and Compensation Plan was posted on the Project website for feedback on January 27, 2017. Section 2.4 of the draft Agriculture Mitigation Compensation Plan reflects this requirement.</p> <p>These mitigation actions are part of on-going negotiations with directly affected land owners and tenure holders. BC Hydro's Properties Team is in discussions with agricultural land owners and tenure holders regarding potential effects of the Project on their land and operations, including potential mitigation actions related to disruption of their continuing agricultural operations.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 30	<ul style="list-style-type: none"> o Fencing. · Minimize access to agricultural lands by construction workers and implement measures to minimize unauthorized public access. 	Ongoing	In Compliance	<p>The draft Agriculture Mitigation and Compensation Plan was posted on the Project website for feedback on January 27, 2017. Section 2.3 of the draft Agriculture Mitigation Compensation Plan reflects this requirement.</p> <p>Respect for private property and restrictions on unauthorized public access are included within contractor terms and BC Hydro's CEMP, and is monitored and enforced by BC Hydro environmental monitors and independent environmental monitors.</p> <p>The draft Agriculture Mitigation and Compensation Plan was posted on the Project website for feedback on January 27, 2017. Section 2.4 of the draft Agriculture Mitigation Compensation Plan reflects this requirement. Reimbursements are part of on-going negotiations with directly affected land owners and tenure holders.</p>
EAC 30	<ul style="list-style-type: none"> · For impacts that cannot be avoided, the plan will contain an approach for reimbursements that compensate for associated financial losses due to disruptions to agricultural land use. 	Ongoing	In Compliance	<p>The draft Agriculture Mitigation and Compensation Plan was posted on the Project website for feedback on January 27, 2017. Section 2.6, Appendix D and Appendix E of the draft Agriculture Mitigation Compensation Plan reflects this requirement. This section of the draft plan identifies the steps which will be taken to set-up the Fund after submission of the final Agriculture Mitigation and Compensation Plan in July 2017.</p>
EAC 30	<p>In addition to the above bulleted measures in this condition, establishment of an agricultural compensation fund of \$20 million for use in the Peace Region or other areas of the province as necessary to compensate for lost agricultural lands and activities, and an approach for establishing the governance and allocation of funds.</p>	Not Started	Future Requirement	<p>A joint Consultation Steering Committee has been established including staff from Ministry of Agriculture, Ministry of Energy and Mines, and BC Hydro to develop the Agricultural Mitigation and Compensation Plan. The joint committee is focused on the governance structure of the compensation fund and regional agricultural</p>
EAC 30	<p>The EAC Holder must work with the Ministry of Agriculture to establish a governance structure for the agriculture compensation fund that will ensure funds will be used to support enhancement projects that improve agricultural land, productivity or systems.</p>	Ongoing	In Compliance	<p>The draft Agriculture Mitigation and Compensation Plan was posted on the Project website for feedback on January 27, 2017. Section 2.6, Appendix D and Appendix E of the draft Agriculture Mitigation Compensation Plan reflects this requirement. This section of the draft plan identifies the steps which will be taken to set-up the Fund after submission of the final Agriculture Mitigation and Compensation Plan in July 2017.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 30	The framework for the Agricultural Mitigation and Compensation Plan must be developed in consultation with the affected agricultural land owners and tenure holders, and the Ministry of Agriculture, and provided to Peace River Regional District and the District of Hudson's Hope for review within 1 year after the commencement of construction.	Completed	In Compliance	input on the fund development. The Agricultural Mitigation and Compensation Plan Framework was submitted on July 27, 2016. Stakeholder consultation regarding the Framework took place from November 23 to January 29, 2016 in coordination with Ministry of Agriculture and Ministry of Energy and Mines. One hundred and fourteen (114) participant interactions occurred during the consultation period, including 81 attendees at regional meetings in December and January in Hudson's Hope, Fort St. John, Dawson Creek, and Chetwynd, 30 online feedback forms, and three written submissions. The Consultation Summary Report was posted publicly on March 7, 2016. A meeting with Regional representatives on the Agricultural compensation fund occurred on March 8, 2016.
EAC 30	The EAC Holder must provide this draft Agricultural Mitigation and Compensation Plan to the affected agricultural land owners and tenure holders, Peace River Regional District, District of Hudson's Hope, Ministry of Agriculture and FLNR for review within 18 months after the commencement of construction.	Completed	In Compliance	BC Hydro submitted the Draft Agricultural Mitigation and Compensation Plan on January 27, 2017. The Plan addresses the requirements set out in Condition 30 and provides further detail on the concepts which were identified and consulted on in the Framework. The draft Plan was developed with input from the Ministry of Agriculture, Ministry of Energy and Mines and stakeholders. The draft Plan was posted publicly on the Project website on January 27 and the feedback was requested by March 13, 2017. Email notices were sent to all identified organizations in the EAC, directed affected agricultural land owners and tenure holders as well as previous participants in consultation who provided their contact information. A

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 30	The EAC Holder must file the final Agricultural Mitigation and Compensation Plan with EAO, Peace River Regional District, District of Hudson's Hope the Ministry of Agriculture and FLNR within 2 years after the commencement of construction.	Not Started	Future Requirement	meeting was held on February 23, 2017 with some directly affected land owners and regional agricultural sector representatives to gather feedback on the draft. BC Hydro acknowledges and understands this condition.
EAC 30	The EAC Holder must develop, jointly with agricultural land owners and tenure holders, individual farm mitigation plans throughout the construction phase for all farms directly affected by the Project.	Ongoing	In Compliance	<p>As part of the Project's property acquisition process, BC Hydro has been, and will continue to, work with directly affected agricultural land owners and tenure holders to determine the effects of the project on their agricultural operations, the mitigation opportunities available and any applicable compensation (business loss) for impacts that cannot be mitigated. Individual farm mitigation plans that identify mitigation opportunities and any business loss are an integral part of the property acquisition process. These plans are developed in conjunction with the property owners and relevant professionals as required (e.g. professional Agrolgist or Certified Business Valuator); mitigation and compensation measures are consistent with industry standards and follow the process outlined within BC Hydro's Site C Property Acquisition Process Guide.</p> <p>Mitigation measures and any compensation payable are typically included in the individual property agreements; however, in some instances, mitigation measures identified will not be included in agreements, but will be included in construction contracts. In the event that a property is expropriated, the mitigation</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 30				<p>measures will be identified in an individual farm mitigation plan, and construction contract if required.</p> <p>Any compensation payable for impacts that cannot be mitigated would be included in advanced payments, final settlements, or determined by the court. BC Hydro will continue to work with all agricultural property owners or tenure holders who have not completed agreements or individual farm mitigation plans.</p>
EAC 31	<p>The EAC Holder must develop, implement and adhere to the final Agricultural Mitigation and Compensation Plan, and any amendments, to the satisfaction of EAO.</p>	Ongoing	In Compliance	<p>The final Agriculture Mitigation and Compensation Plan is targeted for submission the end of July 2017. The draft Agriculture Mitigation and Compensation Plan and Framework for the plan were both developed and submitted in accordance with the condition.</p>
EAC 31	<p>In addition to and separate from the compensation funding and mitigation funding the EAC Holder must fund and develop an Agriculture Monitoring and Follow-up Program for a 10 year period which includes the five years prior to reservoir filling and the first five years of operation.</p>	Ongoing	In Compliance	<p>The draft and final Agricultural Monitoring and Follow-up Programs were submitted to regulatory agencies and governments on October 23, 2015 and December 22, 2015, respectively. Section 3.0 of the Agricultural Monitoring and Follow-up Program contains a concordance table which shows how each of the requirements of Condition 31 is addressed in the Program. A summary update is also provided below.</p>
EAC 31	<p>The Agriculture Monitoring and Follow-up Program must include at least the following:</p> <ul style="list-style-type: none"> Monitoring for Project-induced changes in wildlife habitat utilization, and evaluation of associated crop or feed storage damage for, agricultural operations within 5 km of the reservoir, to assess if there is an increase in wildlife-related crop depredation due to Project-related habitat losses. Monitoring must include pre- and post- reservoir filling field surveys, wildlife monitoring, farm 	Ongoing	In Compliance	<p>Historical data on the extent and severity of wildlife damage to crops and stored livestock feed from the BC Ministry of Agriculture's Wildlife Damage Compensation Program is being reviewed relevant to the Peace River Region, and specifically within 5 km of the reservoir.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 31	<p>operator interviews, and analysis of relevant records related to wildlife-related crop depredation.</p> <ul style="list-style-type: none"> Monitoring for Project-induced changes to humidity within 3 km of the reservoir, and evaluate associated effects on crop drying within this area. Monitoring must include collection and analysis of climate data, calculation of crop drying indices, and farm operator interviews. 	Ongoing	In Compliance	Eight climate station locations are being confirmed, and farm operators for interview participation are being identified.
EAC 31	<ul style="list-style-type: none"> Monitoring for Project-induced changes to groundwater elevations within 2 km of the reservoir (the area potentially influenced by groundwater elevation changes), and evaluate associated effects on crop productivity. Monitoring must include field surveys and farm operator interviews. 	Ongoing	In Compliance	Baseline data review of rainfall data from existing climate stations is Ongoing. Selection of monitoring sites for field survey, and Identification of farm operators for interviews is being undertaken.
EAC 31	<ul style="list-style-type: none"> Monitoring for climatic factors to estimate moisture deficits and to estimate irrigation water requirements in the vicinity of the reservoir to provide information for potential future irrigation projects. Data collection will be undertaken before reservoir filling, and in the 5 years after reservoir filling, and data will be reviewed as required for proposed irrigation projects. 	Ongoing	In Compliance	Climate station siting and network upgrades are being undertaken.
EAC 31	<p>The Agriculture Monitoring and Follow-up Program reports must be provided annually during the monitoring and follow-up period to affected agricultural land owners and tenure holders, and Ministry of Agriculture. The results of the Agriculture Monitoring and Follow-up Program must inform the Farm</p>	Ongoing	In Compliance	BC Hydro provided the first annual report on the implementation of the Agriculture monitoring and Follow-up Program on July 21, 2016. The second annual report will be provided in July 2017.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 31	Mitigation Plans. Reporting must begin 180 days after the commencement of the monitoring and follow-up program that is to begin 180 days after commencement of construction.	Ongoing	In Compliance	BC Hydro provided the first annual report on the implementation of the Agriculture monitoring and Follow-up Program on July 21, 2016. The second annual report will be provided in July 2017.
EAC 31	The EAC Holder must provide this draft Agriculture Monitoring and Follow-up Program to the Ministry of Agriculture, Peace River Regional District and the District of Hudson's Hope for review within 90 days after the commencement of construction.	Completed	In Compliance	The draft Agricultural Monitoring and Follow-up Program was submitted to regulatory agencies and governments on October 23, 2015.
EAC 31	The EAC Holder must file the final Agriculture Monitoring and Follow-up Program with EAO, Ministry of Agriculture, Peace River Regional District and the District of Hudson's Hope within 150 days of commencement of construction.	Completed	In Compliance	The final Agricultural Monitoring and Follow-up Program was submitted to regulatory agencies and governments on December 22, 2015.
EAC 31	The EAC Holder must develop, implement and adhere to the final Agriculture Monitoring and Follow-up Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro provided the first annual report on the implementation of the Agriculture monitoring and Follow-up Program on July 21, 2016. The second annual report will be provided in July 2017.
EAC 32	Other Resource Industries The EAC Holder must develop an Oil, Gas and Energy Monitoring and Follow-up Program.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	The Oil, Gas and Energy Monitoring and Follow-up Program must, at a minimum, monitor baseline conditions and effects of increased sedimentation on Spectra intakes, during construction, and effects of increased water temperature and sedimentation during operations, on Spectra cooling operations for a period of 10 years after the commencement	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 32	of operations. Monitoring reports must be provided to Spectra Energy beginning 180 days following commencement of operations, and annually thereafter.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	The EAC Holder must provide this draft Oil, Gas and Energy Monitoring and Follow-up Program to Spectra Energy for review within 90 days after the commencement of operations.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	The EAC Holder must file the final Oil, Gas and Energy Monitoring and Follow-up Program with EAO and Spectra Energy within 150 days after the commencement of operations.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	The EAC Holder must develop, implement and adhere to the final Oil, Gas and Energy Monitoring and Follow-up Program, and any amendments, to the satisfaction of EAO.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 33	The EAC Holder must negotiate a Memorandum of Understanding (MOU) with the MOTI prior to material extraction at MOTI quarries or pits to compensate for material used by the Project and to maintain availability of regional aggregate resources for MOTI operational needs.	Ongoing	In Compliance	BC Hydro has a signed MOU with MOTI, dated November 12, 2013. Discussions have been ongoing with MOTI to make amendments to the agreement to be more reflective of the Project and associated works moving forward.
EAC 33	The MOU must include: Aggregate source strategy to compensate for inundated Ministry aggregate sources, and	Ongoing	In Compliance	The MOU is currently being finalized between BC Hydro and the MOTI. Aggregate sources are being set aside for MOTI during construction of Hwy 29 at Peaceview Pit. BC Hydro is actively pursuing other sources.
EAC 33	Strategy for the EAC Holder to stockpile	Ongoing	In Compliance	This is addressed in the Pit Development Plans that the

No.	EAC Condition	Implementation Status	Compliance Status	Description
	surplus rock material at the West Pine, Wuthrich, and Portage Mountain quarries.			contractor is required to submit for West Pine, Wuthrich, and Portage Mountain. Pit Development Plans have been completed for Wuthrich and West Pine. Surplus rock is currently being stockpiled at Wuthrich.
EAC 33	The EAC Holder commitments as outlined in the MOU must be implemented and adhered to, to the satisfaction of the MOTI.	Ongoing	In Compliance	BC Hydro is working with MOTI to satisfy these commitments while finalizing the MOU. Current commitments include: Coordination of Hwy 29 construction/tendering/management and MOTI involvement and actively pursuing material sources for MOTI for areas that will be inundated.
EAC 34	The EAC Holder must discuss any overlap with the Project activity zone and preliminary reservoir impact lines with affected mineral and aggregate tenure holders.	Completed	In Compliance	No mineral tenures appear to overlap with the Project Activity Zone and preliminary impact lines. The dam site, reservoir and transmission line are covered by no registration reserves or conditional registration reserves. No mineral claims may be made in no-registration reserves. No activity may be undertaken without prior consent of BC Hydro in conditional registration reserves. Further the entire District of Hudson's Hope, the Peace Moberly Tract and the Proposed Peace Boudreau Protected area are also covered by no registration reserves. Portions of the preliminary impact lines on the north bank are not protected by any reserve, however, no mineral claims appear to have been made. Other than reserves held by the MOTI, BC Hydro is not aware of any tenures issued to third parties for the purposes of aggregate production on Crown land that overlap with the Project Activity Zone and preliminary impact lines.
EAC 34	Where conflicts exist, the EAC Holder must make reasonable efforts to enter into agreements with mineral and aggregate tenure holders, to the satisfaction of EAO, to	Completed	In Compliance	No mineral tenures appear to overlap with the Project Activity Zone and preliminary impact lines. The dam site, reservoir and transmission line are

No.	EAC Condition	Implementation Status	Compliance Status	Description
	resolve conflicts with mineral and aggregate tenure holders.			<p>covered by no registration reserves or conditional registration reserves. No mineral claims may be made in no-registration reserves. No activity may be undertaken without prior consent of BC Hydro in conditional registration reserves. Further the entire District of Hudson’s Hope, the Peace Moberly Tract and the Proposed Peace Boudreau Protected area are also covered by no registration reserves.</p> <p>Portions of the preliminary impact lines on the north bank are not protected by any reserve, however, no mineral claims appear to have been made.</p> <p>Other than reserves held by the MOTI, BC Hydro is not aware of any tenures issued to 3rd parties for the purposes of aggregate production on Crown land that overlap with the Project Activity Zone and preliminary impact lines.</p>
EAC 34	Efforts made by the EAC Holder to enter into such agreements must be documented.	Completed	In Compliance	<p>No mineral tenures appear to overlap with the Project Activity Zone and preliminary impact lines.</p> <p>The dam site, reservoir and transmission line are covered by no registration reserves or conditional registration reserves. No mineral claims may be made in no-registration reserves. No activity may be undertaken without prior consent of BC Hydro in conditional registration reserves. Further the entire District of Hudson’s Hope, the Peace Moberly Tract and the Proposed Peace Boudreau Protected area are also covered by no registration reserves.</p> <p>Portions of the preliminary impact lines on the north bank are not protected by any reserve, however, no mineral claims appear to have been made.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
TRANSPORTATION				
EAC 35	The EAC Holder must develop a Traffic Management Plan to appropriately manage Project-related traffic in and around work sites during construction in a manner that protects wildlife, maximizes worker and public safety, and manages effects on productivity.	Ongoing	In Compliance	This requirement is addressed in the final Construction Safety Management Plan (CSMP), Section 5.4 Traffic Management Plan. Site-specific Traffic Management Plans and Safety Plans have been provided by contractors for the North Bank Roads project, 271 Rd, Clearing at Cache Creek for Hwy 29 Realignment and Geotechnical Investigations at Halfway River. All of these plans have been approved by MOTI. These plans include measures such as coordinating Project Scheduling, Traffic Control Plans, addressing posted speeds, lane widths, hazardous zones, lane closures, public notification, etc. to protect wildlife, maximize safety and manage effects on productivity.
EAC 35	The Traffic Management Plan must be developed by a QEP.	Completed	In Compliance	The Traffic Management Plan is described in Section 5.4 of the CSMP. Section 6.0 of the CSMP lists the QPs who prepared the plan.
EAC 35	The Traffic Management Plan must include at least the following: <ul style="list-style-type: none"> · Maximize the use of existing access corridors. 	Ongoing	In Compliance	The project is maximizing the use of existing access corridors as much as possible. This is currently being done in areas along the Transmission line where existing Right-Of-Way access exists for maintenance and for clearing in the Eastern Reservoir.
EAC 35	<ul style="list-style-type: none"> · Equip Project vehicles travelling on Project access roads with VHF/UHF communication radios. 	Ongoing	In Compliance	All Project vehicles travelling on Project access roads have VHF/UHF communication radios.
EAC 35	<ul style="list-style-type: none"> · Control and/or restrict access where required, and as discussed with MOTI. 	Ongoing	In Compliance	Current control measures in place, as discussed with MOTI, include locks at Wuthrich Quarry and West Pine

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 35	<ul style="list-style-type: none"> Identify access roads to be decommissioned after Project use. 	Ongoing	In Compliance	<p>Quarry with future plans of locked gates at Portage Mountain Quarry and Peaceview Pit.</p> <p>Contractor Traffic Management Plans will identify access roads to be decommissioned. This has included temporary access for clearing, dam site construction, and Hwy 29 realignment.</p>
EAC 35	<ul style="list-style-type: none"> Public safety measures. 	Ongoing	In Compliance	<p>Public safety measures are addressed in Contractor Traffic Management Plans or Safety Plans, which are reviewed and approved by MOTI. Measures include having Incident Management Plans, Traffic Control Plans, public signage and notification, etc.</p>
EAC 35	<ul style="list-style-type: none"> Post speed limits on all construction access roads. 	Ongoing	In Compliance	<p>Speed limits are posted throughout the dam site area as well as on all public roadways where construction is taking place. These speed limits are reflective of construction speed zones.</p>
EAC 35	<ul style="list-style-type: none"> Work schedules, subject to safety considerations, to minimize delays and nuisance to the public caused by the realignment of Highway 29, particularly during peak visitor periods. 	Ongoing	In Compliance	<p>All works on public roadways are subject to Traffic Management Guidelines as provided by MOTI. This includes measures such as maximum delay and work stoppage.</p>
EAC 35	<ul style="list-style-type: none"> Inclusion of Traffic Control Plans, Public Information Plans, Incident Plans, and Implementation Plans. 	Ongoing	In Compliance	<p>These topics are included in site-specific Contractor Traffic Management Plans.</p>
EAC 35	<ul style="list-style-type: none"> The Traffic Management Plan must also establish measures for identifying and mitigating effects on local transportation infrastructure resulting from Project activities. 	Ongoing	In Compliance	<p>Traffic Management Plans include a pavement management program. MOTI conducts pavement condition monitoring surveys in the region once every two years travelling in one direction on main roads. BC Hydro has increased the requirement to survey both directions on main roads every two years for all project affected roads. This includes 240 Rd, 269 Rd, 271 Rd, Jackfish Lake Rd, Hwy 97, and Hwy 29.</p>
EAC 35	<ul style="list-style-type: none"> The Traffic Management Plan must also 	Completed	In Compliance	<p>All road modifications and improvements on the listed</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 35	<p>include at least the following: Identification of all road modifications, realignments, and improvements on Highway 29 North, Highway 29 South, Jackfish Lake Road, and North Bank Minor Roads that are required to ensure access is maintained and service levels meet the appropriate MOTI standards.</p> <ul style="list-style-type: none"> Construction of a paved brake-check before the start of the 10% grade on Canyon Drive west of Hudson's Hope and make it a mandatory requirement for Project-related trucks to stop and check vehicle brakes. 	Completed	In Compliance	roads require approval from MOTI. MOTI has reviewed and approved design standards for 271 Rd, Cache Creek segment of Hwy 29, etc.
EAC 35	<ul style="list-style-type: none"> In consultation with MOTI, identify any additional measures that may be required for public safety (signage, signals, illumination, monitoring etc.) 	Ongoing	In Compliance	BC Hydro is working with MOTI to identify any additional required measures that may be required for public safety.
EAC 35	<ul style="list-style-type: none"> Follow best management practices as outlined in Traffic Management Guidelines for Work on Roadways (BC Ministry of Transportation 2001 and as amended from time to time). 	Ongoing	In Compliance	This is written into contracts and being followed for all works on public roadways.
EAC 35	<p>The EAC Holder must provide this draft Traffic Management Plan to MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope, District of Chetwynd and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band for review 90 days prior to the commencement of construction.</p>	Completed	In Compliance	The Draft Traffic Management Plan is described in Section 5.4 of the CSMP. The draft CSMP was submitted to the required recipients on October 17, 2014.
EAC 35	<p>The EAC Holder must file the final Traffic Management Plan with EAO, MOTI, Peace</p>	Completed	In Compliance	The Draft Traffic Management Plan is described in Section 5.4 of the CSMP. The final CSMP was submitted

No.	EAC Condition	Implementation Status	Compliance Status	Description
	River Regional District, City of Fort St. John, District of Hudson's Hope, Chetwynd and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band 30 days prior to the commencement of construction.			to the required recipients on June 5, 2015.
EAC 35	The EAC Holder must develop, implement and adhere to the final Traffic Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Site-specific Traffic Management Plans and Safety Plans have been provided by contractors for the North Bank Roads project, 271 Rd, Clearing at Cache Creek for Hwy 29 Realignment and Geotechnical Investigations at Halfway River. All of these plans have been approved by MOTI. These plans include measures such as coordinating Project Scheduling, Traffic Control Plans, addressing posted speeds, lane widths, hazardous zones, lane closures, public notification, etc. to protect wildlife, maximize safety and manage effects on productivity. Revision 2 to the CSMP was issued in March 2017. Revision 2 of the CSMP contains updates to Section 5.2.12 Traffic Monitoring and Appendix C, section 2.1 and 2.4.
EAC 36	The EAC Holder must develop and implement a carpool and commuter program as part of the Traffic Management Plan.	Ongoing	In Compliance	The carpool and commuter program is described in Appendix C of the CSMP, Appendix C – Commuter and Carpool Plan and is being implemented as planned.
EAC 36	The EAC Holder will provide a shuttle service for workers between Chetwynd and the Site C dam site if warranted by demand or restrictions on access for private vehicles to the dam site.	Ongoing	In Compliance	Potential carpool coordination websites for works were posted on the public Site C website in the fall of 2015. Please see: http://hw/activities/sustainable_transportation/Pages/default.aspx . A requirement for a shuttle service if warranted by demand or restrictions for workers between Chetwynd and the Site C dam site was placed in the GSS and MCW contracts. The Contractors will

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 36	The EAC Holder must consult with the affected local communities, including Aboriginal communities in the development of a carpool and commuter program.	Completed	In Compliance	monitor demand from their workforce. There are no restrictions on access for private vehicles to the dam site gates. The draft and final CSMPs were submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014 and June 5, 2015, respectively.
EAC 37	The EAC Holder must develop a Transportation Monitoring and Follow-up Plan to ensure measures to mitigate Project effects on local transportation infrastructure are effective or need to be adjusted to adequately mitigate the effects.	Completed	In Compliance	The requirements of Condition 37 are addressed in Sections 5.4.10, Section 5.4.12, and Appendix B of the CSMP.
EAC 37	The Transportation Monitoring and Follow-up Plan must be developed by a QEP.	Completed	In Compliance	The Transportation Monitoring and Follow-up Plan is described in Sections 5.4.10, Section 5.4.12, and Appendix B of the CSMP. Section 6.0 of the CSMP lists the QPs who prepared the plan. Appendix B Traffic Monitoring and Mitigation Plan - Fort St. John and North Bank Area Roads was developed in consultation with the City of Fort St. John staff.
EAC 37	The Transportation Monitoring and Follow-up Plan must include at least the following: <ul style="list-style-type: none"> o On an annual basis during construction and during each year when Project traffic will be using each identified intersection, traffic counts and monitoring of traffic operations at the following intersections: o Beattie Drive in Hudson's Hope o Clarke Avenue in Hudson's Hope o Highway 29 and Canyon Drive in Hudson's Hope o Highway 29 and Jackfish Lake Rd 	Ongoing	In Compliance	Intersection monitoring was carried out in Nov 2015 and Feb, Apr and Jul 2016. The next monitoring period is scheduled for Feb-Mar 2017 for the dam site entrances.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	<ul style="list-style-type: none"> o Highway 97 / Highway 29 in Chetwynd o Highway 97 intersections in Fort St. John, including: o Highway 97 at Old Fort Road in Fort St. John o Highway 97 at 100th Street in Fort St. John o Highway 97 at 85th Avenue in Fort St. 			
EAC 37	<ul style="list-style-type: none"> • Annual monitoring during construction of traffic operations on local roads to determine if road restrictions for Project- related traffic should be implemented, in accordance with appropriate MOTI standards. 	Ongoing	In Compliance	<p>Intersection monitoring was carried out in Nov 2015 and Feb, Apr and Jul 2016. The next monitoring period is scheduled for Feb-Mar 2017 for the dam site entrances. The Traffic and Pavement Monitoring report for the first year of construction was submitted to regulatory agencies and local governments on January 20, 2017. BC Hydro is now in the process of setting up a meeting with MOTI, Peace River Regional District (PRRD), and Fort St. John to discuss the results.</p>
EAC 37	<ul style="list-style-type: none"> As part of the Transportation Monitoring and Follow-up Plan, the EAC Holder must implement the following 90 days prior to commencement of operations: illumination of continuous lightning along Highway 97 through Taylor, from Birch Avenue west to 100th Street access at McMahon Drive, and intersection lightning at Highway 97 and Pine Avenue, 103rd 	Completed	In Compliance	<p>Continuous lightning was installed in 2015 and is operating in Taylor along Highway 97 in accordance with this requirement.</p>
EAC 37	<ul style="list-style-type: none"> • Installation of changeable message signs on Highway 97 on the south Taylor Hill and on the hill north of Taylor, to be operated as part of the MOTI network that will provide drivers with advanced notification of road 	Completed	In Compliance	<p>Changeable message signs were installed in 2015 and are operating on Highway 97 in accordance with this requirement.</p>

October 2016 to December 2017
Appendix D

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 37	<p>Installation of a highway webcam in Taylor to monitor fog conditions, to be operated as part of the MOTI network. The location will be determined in consultation with Taylor and MOTI.</p>	Ongoing	In Compliance	The webcam is planned for installation in 2017 as part of MOTI's network.
EAC 37	<p>The Transportation Monitoring and Follow-up Plan reporting must occur at least annually during the monitoring and follow-up program period, beginning 180 days after the commencement of construction.</p>	Ongoing	In Compliance	The Traffic and Pavement Monitoring report for the period beginning 180 days after the commencement of construction was submitted on January 22, 2016 and the report for the entire first year of construction was submitted on Jan 20, 2017. BC Hydro is now in the process of setting up a meeting with MOTI, PRRD, and Fort St. John to discuss the results.
EAC 37	<p>The EAC Holder must provide the draft Transportation Monitoring and Follow-up Plan to MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review within 90 days after the commencement of construction.</p>	Completed	In Compliance	The draft Transportation Monitoring and Follow-up Plan, as part of the CSMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014.
EAC 37	<p>The EAC Holder must file the final Transportation Monitoring and Follow-up Plan with EAO, MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope, District of Chetwynd and Aboriginal Groups within 150 days after the commencement of construction.</p>	Completed	In Compliance	The final CSMP was submitted to regulatory agencies, governments, and Aboriginal Groups on June 5, 2015.
EAC 37	<p>The EAC Holder must develop, implement and adhere to the final Transportation Monitoring and Follow-up Plan, and any amendments, to the satisfaction of EAO.</p>	Ongoing	In Compliance	BC Hydro submitted the CSMP on June 5, 2015. The CSMP includes all of the measures in the Transportation Monitoring and Follow-up Plan in section 5.4.10, section 5.4.12, and Appendix B Traffic Monitoring and Mitigation Plan - Fort St. John and North Bank Area Roads. The Traffic and Pavement Monitoring report for the first year of construction was submitted on Jan 20, 2017. BC Hydro is now in

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 38	The EAC Holder must develop a Public Safety Management Plan to describe how it will implement measures to avoid or manage the effects of the Project on public safety during construction and operations.	Completed	In Compliance	meeting with MOTI, PRRD, and Fort St. John to discuss the results. Section 5.3 of the CSMP describes the Public Safety Management Plan (Public Safety Management Plan) as well as planning for future aspects of the project. The Public Safety Management Plan, developed by a QEP, is described in Section 5.3 of the CSMP. The draft and final CSMPs were submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014 and June 5, 2015, respectively. A status update on Condition 37 requirements is provided below. Public Safety Management Plans are key deliverables by all Primes and major contactors at Site C and must be approved before the contractor can mobilize to site.
EAC 38	The Public Safety Management Plan must be developed by a QEP.	Completed	In Compliance	The Public Safety Management Plan is described in Section 5.3 of the CSMP. Section 6.0 of the CSMP lists the QPs who prepared the plan.
EAC 38	The Public Safety Management Plan must include at least the following: <ul style="list-style-type: none"> · Increase public awareness of safety hazards, including navigational hazards, access restrictions and closures during the construction and operation of the Site C reservoir. 	Ongoing	In Compliance	Information about safety is shared publicly using a variety of methods. The bi-weekly construction bulletin provides information about planned work and safety information for boaters (26 bulletins were provided in 2016). The quarterly Aboriginal group construction notification also contains this information (four letters were provided in 2016). Public safety signs and beacons have been installed on the north and south banks of the Peace River, upstream and downstream of the dam site, to mark the boundaries of the active construction area. Further, BC Hydro facilitated the distribution of the Main Civil Works Contractor's Public Safety Management Plan in summer 2016 to coincide with the start of major earthworks. This was sent to local governments and Aboriginal groups. In river work zone hazards are well marked for navigation purposes and

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 38	<ul style="list-style-type: none"> Establish boater communication protocol including communication of navigational hazards during construction and operations. 	Ongoing	In Compliance	<p>meet the requirements for river navigation. The work site maintains a security perimeter with activity access control, security patrols and signage to inform members of the public.</p> <p>Information about safety is shared publicly using a variety of methods, including the bi-weekly construction bulletin and the quarterly Aboriginal group construction notification. Public safety signs and beacons have been installed on the banks of the Peace River to mark the boundaries of the active construction area. Further, BC Hydro facilitated the distribution of the Main Civil Works Contractor's Public Safety Management Plan in summer 2016 to coincide with the start of major earthworks.</p>
EAC 38	<ul style="list-style-type: none"> Develop standard navigation mitigations for signals, markings and notifications, relating to overhead structures such as towers and conductors crossing navigable waters. 	Ongoing	In Compliance	<p>Standard navigation mitigations for signals, markings and notifications are being undertaken in compliance with Navigation Protection Act approvals.</p>
EAC 38	<ul style="list-style-type: none"> Manage public water-based access during construction and for the first 5 years of operation. 	Ongoing	In Compliance	<p>The Peace River is not closed to the public until river is diverted in 2019; public safety beacons were installed in the Peace River within the dam site area in 2016.</p>
EAC 38	<p>The EAC Holder must provide this draft Public Safety Management Plan to MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band for review 90 days prior to the commencement of construction and operations.</p>	Completed	In Compliance	<p>The draft CSMP (Section 5.3 Public Safety Management Plan) was submitted to regulatory agencies, governments and Aboriginal Groups on October 7, 2014.</p>
EAC 38	<p>The EAC Holder must file the final Public Safety Management Plan with the MOTI, Peace River Regional District, City of Fort St.</p>	Completed	In Compliance	<p>The final CSMP (Section 5.3 Public Safety Management Plan) was submitted to regulatory agencies, governments and Aboriginal Groups on June 5, 2015.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 38	<p>John, District of Hudson's Hope and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band 30 days prior to the commencement of construction and operations.</p> <p>The EAC Holder must develop, implement and adhere to the final Public Safety Management Plan, and any amendments, to the satisfaction of EAO.</p>	Ongoing	In Compliance	<p>The Public Safety Management Plan includes the Emergency Action Plan, which was completed in August 2016. Ongoing mitigations include: blocking trails where public can access the site; appropriate signage in the river channel along the property perimeter and in other key places; appropriate information on Public Safety Management Plan included in site orientations; additional emergency measures related to downstream inundation response; security enforcement of trespass and access control protocols; managing tour groups and visitor access to mitigate safety concerns; managing work practices so public safety is contemplated in all components of the project. River navigation hazards are in place in addition to river channel signs and construction zone beacons. The Peace River bridge is well marked in stream work is identified by warning signs and river safety boat patrols are ongoing. Site C Communications takes steps to keep key public stakeholders informed about construction activity and to provide applicable warnings about work that may impact public safety, including noise abatement, dust abatement and traffic management planning.</p>
OUTDOOR RECREATION AND TOURISM				
EAC 39	<p>The EAC Holder must provide information to the Province of Alberta, during construction and operations, to assist in their communications with anglers in Alberta</p>	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition.</p> <p>BC Hydro will provide information regarding changes in downstream fishing opportunities on to the Province of</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	regarding changes in downstream fishing opportunities due to construction activities and longer-term changes in fish community composition.			Alberta on an annual basis, commencing when information from the FAHMF becomes available.
EAC 40	The EAC Holder must finalize and implement the Outdoor Recreation Mitigation Plan to mitigate changes in recreational opportunities and loss of existing recreational areas resulting from the Project.	Ongoing	In Compliance	BC Hydro submitted the draft Outdoor Recreation Mitigation Plan on July 27, 2016 and submitted the final Outdoor Recreation Mitigation Plan on January 27, 2017 with regulatory agencies, governments and Aboriginal Groups. The Plan describes the timing for when different measures will occur.
EAC 40	The Outdoor Recreation Mitigation Plan must be developed by a QEP.	Completed	In Compliance	Section 5.0 of the Outdoor Recreation Management Plan lists the QPs who prepared the plan.
EAC 40	The Outdoor Recreation Mitigation Plan must include at least the following to: <ul style="list-style-type: none"> · Provide technical information to support outdoor recreation providers in adapting to new shoreline conditions. 	Ongoing	In Compliance	An emergency management plan has been drafted for discussion and coordination with the PRRD. The latest version of that draft is expected to be delivered to the PRRD in early 2017.
EAC 40	<ul style="list-style-type: none"> · Establish three new boat launch/day use sites, complete with parking, picnic areas and toilets, at Cache Creek, Lynx Creek and Hudson's Hope Shoreline, and accessible via Highway 29. 	Ongoing	In Compliance	The design of three new boat launch and day use sites is Ongoing. Road access for boaters and recreation site users from Highway 29 for each of the boat launches is currently in design phase, in coordination with Highway 29 work.
EAC 40	<ul style="list-style-type: none"> · Establish at least one public viewpoint at the Site C dam site. 	Ongoing	In Compliance	The design of the Site C North bank Viewpoint and viewpoint road was completed in February 2016. Consultation with local and regional government and Aboriginal groups on the design, and interpretive signage contribution opportunities, were undertaken in February and March 2016. Construction began in fall 2016 and will be completed in late spring/early summer 2017.
EAC 40	<ul style="list-style-type: none"> · Provide approximately \$150,000 to the District of Hudson Hope for the enhancement of Alwin Holland Park, or other community 	Ongoing	In Compliance	BC Hydro signed a Partnering Relationship Agreement with the District of Hudson's Hope in January 2017 and the timing of this payment is described in the

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 40	shoreline recreation areas. Provide approximately \$200,000 for a Community Recreation Site Fund of which \$50,000 is for recreational sites on the south bank to support development of new shoreline recreation areas within the Peace River and its tributaries to the Alberta border.	Ongoing	In Compliance	Agreement. The PRRD declined to participate in the administration of the fund. BC Hydro has identified an alternate fund administrator and a contract is being developed.
EAC 40	Outline an approach to governance and allocation of funds from the Community Recreation Site Fund	Ongoing	In Compliance	The PRRD declined to participate in the administration of the fund. BC Hydro has identified an alternate fund administrator and a contract is being developed.
EAC 40	Fund the development of a BC Peace River/Site C Reservoir Navigation and Recreation Opportunities Plan	Not Started	Future Requirement	The Outdoor Recreation Mitigation Plan describes the plan in section 2.2.4. A BC Peace River / Site C Reservoir Navigation and Recreation Opportunities Plan will be developed to mitigate potential effects on over the long term on outdoor recreation and tourism infrastructure, as well as access to water-based navigation. The planning process and the plan development will be funded by BC Hydro and initiated within one year after reservoir filling.
EAC 40	The EAC Holder must provide this draft Outdoor Recreation Mitigation Plan to FLNR, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band for review within 12 months after the commencement of construction.	Completed	In Compliance	BC Hydro submitted the draft Outdoor Recreation Mitigation Plan on July 27, 2016 to regulatory agencies, governments and Aboriginal Groups.
EAC 40	The EAC Holder must file the final Outdoor Recreation Mitigation Plan with EAO, FLNR, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Saulteau, West Moberly, Halfway River, Doig River,	Completed	In Compliance	BC Hydro will submit the final Outdoor Recreation Mitigation Plan on January 27, 2017 to regulatory agencies, governments and Aboriginal Groups.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band within 18 months after the commencement of construction.			
EAC 40	The EAC Holder must develop, implement and adhere to the final Outdoor Recreation Mitigation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Implementation of the measures as described in the final Outdoor Recreation Mitigation Plan is underway.
EAC 41	The EAC Holder must make reasonable efforts to enter into agreements with the owners of the campground at Cache Creek and the hunting camp near the Site C dam site to compensate for any effects to those facilities, prior to potential effects on operation of these facilities.	Ongoing	In Compliance	BC Hydro has entered into an agreement with the owner of the campground at Cache Creek. This agreement transferred the land to BC Hydro in return for compensation. Further discussions regarding the effects of the project on the campground facility are ongoing. BC Hydro has entered into an agreement with the operator of the hunt camp near Site C. This agreement compensated the operator for the effects on the facility and the cost to replace and/or relocate the physical infrastructure. It is not known if the operator has reinstated the hunt camp at an alternative location.
EAC 41	Where it is both physically and economically feasible, the costs to relocate facilities will be included in the agreements.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
	COMMUNITY			
EAC 42	Community Infrastructure and Services The EAC Holder must manage increased demands resulting from the influx of the Project workforce on community health care and social services by implementing mitigation measures detailed in a Healthcare Services Plan.	Ongoing	In Compliance	The final Health Care Services Plan was submitted on June 5, 2015. Implementation of the measures in the Plan are underway.
EAC 42	The Healthcare Services Plan must include at	Ongoing	In Compliance	The on-site Project Health Clinic opened on March 1,

No.	EAC Condition	Implementation Status	Compliance Status	Description
	least the following: • Implement on-site health care comprised of physician and nursing services to manage non-urgent health issues for the workforce residing in the construction camps.			2016 staffed with a nurse practitioner and advanced care paramedic.
EAC 42	• Establish a process for coordination of program delivery with the Northern Health Authority (NHA).	Completed	In Compliance	Project Health Clinic staff have been in contact with Northern Health Authority (NHA) contacts provided by Northern Health to coordinate programs delivered through the clinic. BC Hydro provides a quarterly report to Northern Health on use of the Project Health Clinic. BC Hydro and Health Clinic staff also hosted a tour and meeting with Northern Health staff and members of the Local Division of Family Practice on Sep 30, 2016.
EAC 42	• Establish a process for providing new resident workers and their families with local information about health, education and social services.	Completed	In Compliance	Links to information about health, education and social services for each community in the Peace have been posted on the public Site C website in fall 2015 to share with new residents and potential new residents.
EAC 42	The EAC Holder must provide this draft Healthcare Services Plan to NHA, Peace River Regional District, City of Fort St. John and District of Hudson's Hope for review a minimum of 90 days prior to the commencement of construction.	Completed	In Compliance	The draft Health Care Services Plan was submitted to NHA and governments on October 17, 2014.
EAC 42	The EAC Holder must file the final Healthcare Services Plan with the NHA, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope a minimum of 30 days prior to the commencement of construction.	Completed	In Compliance	The final Health Care Services Plan was submitted to NHA and governments on June 5, 2015.
EAC 42	The EAC Holder must develop, implement and adhere to the final Healthcare Services Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Project Health Clinic staff have been in contact with NHA contacts provided by Northern Health to coordinate programs delivered through the clinic. BC Hydro provides a quarterly report to Northern Health

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 43	The EAC Holder must develop an Emergency Services Plan that includes at least the following to describe how the EAC Holder will implement measures to: <ul style="list-style-type: none"> · Contract for provision of emergency services (fire services and medical transport) ; 	Ongoing	In Compliance	on use of the Project Health Clinic. BC Hydro and Health Clinic staff also hosted a tour and meeting with Northern Health staff and members of the local Division of Family Practice on Sep 30, 2016. BC Hydro reports clinic statistics to Northern Health quarterly. A contract for fire services with the City of Fort St John has been assigned by the contractor for the worker accommodation camp. Additionally, meetings have been held with Northern Health and BC Ambulance service for coordination, especially on the topic of emergency medical transport from the site. In the event of a medical transport requirement, patients can be transported to hospital by either the Prime contractor's emergency transport or by BC Ambulance. BC Hydro does not have any special agreements with any other emergency services to manage.
EAC 43	<ul style="list-style-type: none"> · Communicate Project emergency management plans to all emergency service providers, and provide updates as plans are amended 	Ongoing	In Compliance	An emergency management plan has been drafted for discussion and coordination with the PRRD. The latest version of that draft is expected to be delivered to the PRRD in early 2017. Copies of plans relating to emergency response to site have been discussed and coordinated with FSJ, Charlie Lake Fire and Taylor Fire services. FSJ Fire Department, FSJ RCMP and FSJ Ambulance services have all been oriented to Site C and have had tours of the site as well as ongoing conversations with key leads at Site C.
EAC 43	<ul style="list-style-type: none"> · Develop site access protocols to enable safe site access during construction and communicate to emergency service providers For this condition, these emergency services refer only to Project need for emergency services during construction and are defined	Ongoing	In Compliance	An access protocol to ensure safety orientation and accreditation before coming into the construction site is in place and well managed through the security contractor and the Prime contractors. Ongoing coordination on orientations is part of the process. BC Hydro implements access control for visitors and others. Vehicle accreditation, a vehicle security

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 43	<p>as those services relating to: firefighting, policing, ambulance services, Conservation Officer Service, Search and Rescue Associations, BC Wildfire Management Branch.</p> <p>The EAC Holder must provide this draft Emergency Services Plan to the appropriate local emergency service providers including the Peace River Regional District, City of Fort St. John, District of Hudson's Hope and District of Taylor for review a minimum of 90 days prior to the commencement of construction.</p>	Completed	In Compliance	<p>inspection protocol, access denial process and various other security rules enforcement form part of the ongoing access management plan at Site C.</p> <p>The draft Emergency Services Plan was submitted to local emergency services providers, and governments on October 17, 2014.</p>
EAC 43	<p>The EAC Holder must file the final Emergency Services Plan with EAO, local emergency service providers including the Peace River Regional District, City of Fort St. John, District of Hudson's Hope and District of Taylor a minimum of 30 days prior to the commencement of construction.</p>	Completed	In Compliance	<p>The draft Emergency Services Plan was submitted to local emergency services providers, and governments on October 17, 2014.</p>
EAC 43	<p>The EAC Holder must develop, implement and adhere to the final Emergency Services Plan, and any amendments, to the satisfaction of EAO.</p>	Ongoing	In Compliance	<p>BC Hydro submitted an Emergency Action Plan with full sign-off in August 2016. The Emergency Action Plan was socialized to all senior managers associated with the Site C Project, including executives from Primes at site, and was released to safety, security and emergency managers at Site C during a workshop in October 2016. The plan has been integrated into all safety management planning for contractors at site. Additionally, Emergency Response exercises and plan review updates sessions are scheduled for mid-year 2017 and will follow an iterative cycle of review and exercise, annually.</p>
EAC 44	<p>The EAC Holder must assist School Districts 59 and 60 to adjust to potential increased need</p>	Ongoing	In Compliance	<p>BC Hydro provided this information on the Project workforce to School Districts 59 and 60 on July 27,</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	resulting from the influx of the Project workforce by providing annual information throughout construction about anticipated changes in the resident population and potential new school enrollment.			2016. BC Hydro will provide updated information in July 2017.
EAC 45	The EAC Holder must assist the Northern Lights College to adjust to potential increased need resulting from the influx of the Project workforce by providing information annually during construction to identify the number of worker hires.	Ongoing	In Compliance	BC Hydro has required its contractors to submit monthly reports regarding the number of workers hired to work on the Site C Project. BC Hydro will include this information in its Annual Report to be submitted to Northern Lights College in July 2017.
EAC 46	The EAC Holder must develop a Waste Management Plan.	Completed	In Compliance	The Waste Management Plan is described in Section 4.16 of the CEMP for the Project. The CEMP is available on the Project website at: https://www.siteproject.com/document-library/environmental-management
EAC 46	The Waste Management Plan must be developed by a QEP.	Completed	In Compliance	The Waste Management Plan is described in Section 4.16 of the CEMP. Section 6.0 of the CEMP lists the QPs who prepared the plan.
EAC 46	The Waste Management Plan must include at least the following: <ul style="list-style-type: none"> · Identify waste management strategies to manage effects on landfills in the region. 	Ongoing	In Compliance	Section 4.16 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 46	<ul style="list-style-type: none"> · Develop methods for disposal of project-related waste. 	Ongoing	In Compliance	Section 4.16 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 46	<ul style="list-style-type: none"> · Ensure capacity of local landfills to meet disposal requirements of the Project construction activities 	Ongoing	In Compliance	BC Hydro has been in communications with local landfills about operations. Landfill operators have not to date expressed concerns about waste streams from the Project negatively affecting landfill capacity.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 46	<ul style="list-style-type: none"> Establish resources and funding arrangements to address any potential shortfall in existing landfill capacity. 	Ongoing	In Compliance	Operators of the Regional District Landfill have not expressed concern over landfill capacity resulting from increased waste flows from the Site C Project.
EAC 46	<ul style="list-style-type: none"> Identify other waste management options through consultation with the Peace River Regional District/municipal agencies responsible for management of solid waste in the area. 	Ongoing	In Compliance	BC Hydro is currently engaged with the PRRD with regard to general waste going to the local landfill. PRRD is working with BC Hydro to identify the waste streams on-site, including general waste, recyclables and cardboard. Other potential waste vendors have been identified as well as numerous local vendors for recyclables.
EAC 46	The EAC Holder must provide the Waste Management Plan to the MOE, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope for review a minimum of 90 days prior to the commencement of construction activities.	Completed	In Compliance	The Waste Management Plan is described in Section 4.16 of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014
EAC 46	The EAC Holder must file the final Waste Management Plan with the EAO, MOE, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope a minimum of 30 days prior to the commencement of construction activities.	Completed	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016.
EAC 46	The EAC Holder must develop, implement and adhere to the final Waste Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Section 4.16 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 47	The EAC Holder must mitigate actual effects on the functionality of local water and sewage systems by implementing measures detailed in a Local Infrastructure Mitigation Plan.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro established mitigation and/or monitoring programs with the District of Hudson's Hope, City of Fort St. John and the District of Taylor for their water and sewage systems as appropriate, in their community agreements. BC Hydro is working with the PRRD to

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 47	<p>The Local Infrastructure Mitigation Plan must include at least the following:</p> <ul style="list-style-type: none"> • A strategy for ongoing communication with local municipalities. • Specific mitigation measures (system relocation, replacement, monitoring) that may be required to ensure the functionality of existing municipal water and sewer systems. • Identification of resources and funding arrangements associated with specific mitigation measures that may be required to ensure functionality of existing municipal water and sewer systems. 	Not Started	Future Requirement	<p>establish a similar agreement.</p> <p>BC Hydro will submit the draft Local Infrastructure Mitigation Plan to governments and Aboriginal Groups, a minimum of 360 days prior to reservoir filling. BC Hydro will submit the final Local Infrastructure Mitigation Plan to the EAO, governments and Aboriginal Groups, a minimum of 30 days prior to reservoir filling.</p> <p>BC Hydro acknowledges and understands this condition.</p>
EAC 47	<ul style="list-style-type: none"> • Identification of resources and funding arrangements associated with specific mitigation measures that may be required to ensure functionality of existing municipal water and sewer systems. 	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition.</p>
EAC 47	<p>The EAC Holder must provide this draft Local Infrastructure Mitigation Plan to the Peace River Regional District, City of Fort St. John, District of Hudson's Hope, District of Taylor, and Aboriginal Groups for review a minimum of 360 days prior to reservoir filling.</p>	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition.</p>
EAC 47	<p>The EAC Holder must file the final Local Infrastructure Mitigation Plan with EAO, Peace River Regional District, City of Fort St. John, District of Hudson's Hope, District of Taylor, and Aboriginal Groups a minimum of 30 days prior to reservoir filling.</p>	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 47	The EAC Holder must develop, implement and adhere to the final Local Infrastructure Mitigation Plan, and any amendments, to the satisfaction of EAO.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
	Housing			
EAC 48	The EAC Holder must manage the increased demands for housing in the City of Fort St. John, resulting from the influx of the Project workforce by implementing mitigation measures detailed in a Housing Plan.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 was submitted in December 2016. The Housing Plan is available on the Project website at: https://www.siteproject.com/document-library/environmental-management
EAC 48	The Housing Plan must include at least the following: <ul style="list-style-type: none"> · Establish a community camp co-coordinator. 	Ongoing	In Compliance	The coordinator identified and posted logistical information on the public Site C website to support workers consideration of moving to a local community.
EAC 48	<ul style="list-style-type: none"> · Establish a process for adjusting camp capacity throughout the construction phase to accommodate direct Project workers. 	Completed	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 describes in section 5.2 how the camp was structured to allow the accommodation of direct Project workers. BC Hydro has constructed the Two Rivers Lodge (Lodge) at the dam site worker accommodation camp to meet anticipated demand for camp housing at the dam site location for the Project workforce. The first beds in the Lodge opened on February 29, 2016 with the last beds opening on September 1, 2016 for a total of approximately 1,600 beds. The camp is planned and contracted to allow additional phased units to be added to meet the on-site housing needs of the workforce through the course of the Project construction if needed.
EAC 48	<ul style="list-style-type: none"> · Expand affordable rental housing supply in the City of Fort St. John by building 50 rental units to be owned and operated by BC Housing or an approved non-profit operator. Immediately on completion of the housing 	Ongoing	In Compliance	BC Hydro completed a contract with BC Housing on July 19, 2016. BC Housing issued a request for proposal in December 2016 for a design-build team for the Project. The building is targeted for opening in fall 2018.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	development, 40 of the rental units will be available for BC Hydro worker housing and 10 will be available to low to moderate income households. Upon completion of the Site C construction phase, the 40 worker housing units will be made available to low to moderate income households.			
EAC 48	<ul style="list-style-type: none"> Expand RV accommodation by building 20 new temporary long-stay RV accommodations. 	Ongoing	In Compliance	Substantial completion of the RV spaces at Peace Island Park have been completed. Permitting with Northern Health for the sewer and water systems is underway and may require some additional upgrades to the system which would be completed in 2017.
EAC 48	<ul style="list-style-type: none"> Provide approximately \$250,000 to emergency or transitional housing providers in the City of Fort St. John. 	Completed	In Compliance	To date, BC Hydro has provided the following funding for emergency and transitional housing programs in Fort St. John: \$25,000 contribution to Skye's Place in September 2015 to support transitional housing; \$25,000 contribution to Meaope Transition House in September 2015 to support transitional housing; and \$200,000 contribution to Salvation Army in November 2016 to support emergency housing.
EAC 48	<ul style="list-style-type: none"> Monitor net migration to reserves as a result of the Project. 	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 describes how monitoring net migration to reserves is completed in section 7.2. The report for 2015 was submitted on Oct 4, 2016. The report for 2016 is targeted for submission in early May 2017.
EAC 48	The EAC Holder must provide this draft Housing Plan to the City of Fort St. John, and Aboriginal Groups for review a minimum of 90 days prior to the construction of housing.	Completed	In Compliance	The draft Housing Plan and Housing Monitoring and Follow-Up Program, was submitted to the City of Fort St. John and Aboriginal Groups on April 7, 2015.
EAC 48	The EAC Holder must file the final Housing Plan with the EAO, the City of Fort St. John and Aboriginal Groups a minimum of 30 days prior	Completed	In Compliance	The final Housing Plan and Housing Monitoring and Follow-Up Program, was submitted to the EAO, the City of Fort St. John and Aboriginal Groups on June 5, 2015.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	to the construction of housing.			Revision 2 of the final plan was submitted on December 12, 2016.
EAC 48	The EAC Holder must develop, implement and adhere to the final Housing Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 was submitted in December 2016. The Housing Plan Rental Apartments Monitoring Report - 2016 was submitted to the City and BC Housing on January 20, 2017. The First Nations Net Migration report for 2016 is targeted for submission in early May 2017.
EAC 49	The EAC Holder must ensure that measures implemented under the Housing Plan are effective in mitigating increased demands for housing in the City of Fort St. John by developing and implementing a Housing Monitoring and Follow-up Program for the construction phase.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 was submitted in December 2016. The Housing Plan Rental Apartments Monitoring Report - 2016 was submitted to the City and BC Housing on January 20, 2017. The First Nations Net Migration report for 2016 is targeted for submission in early May 2017.
EAC 49	The Housing Monitoring and Follow-up Program must include at least the following to ensure measures to mitigate Project effects are effective or need to be adjusted to adequately mitigate the effects: • The EAC Holder must develop an approach for monitoring the apartment rental vacancy rate and price as published by the CMHC semi-annually, for the Fort St. John area and must define the nature and duration of market changes that may require additional mitigation.	Completed	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 describes monitoring of the apartment rental vacancy rate and price as published by the Canada Mortgage and Housing Corporation (CMHC) and defines the nature and duration of market changes that may require additional mitigation.
EAC 49	The EAC Holder will review the monitoring results with the City of Fort St. John and discuss if additional mitigation is required and mitigation options.	Ongoing	In Compliance	The Housing Plan Rental Apartments - Interim Monitoring Report, containing the results of the October 2015 monitoring cycle, was submitted to City of Fort St. John and BC Housing on January 22, 2016. The Housing Plan Rental Apartments Monitoring Report

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 49	<ul style="list-style-type: none"> Reports must be provided semi-annually during construction to BC Housing and City of Fort St. John, beginning 180 days following the commencement of construction. 	Ongoing	In Compliance	<p>- 2016 was submitted to the City and BC Housing on January 20, 2017.</p> <p>The Housing Plan Rental Apartments - Interim Monitoring Report, containing the results of the October 2015 monitoring cycle, was submitted to City of Fort St. John and BC Housing on January 22, 2016.</p> <p>The Housing Plan Rental Apartments Monitoring Report - 2016 was submitted to the City and BC Housing on January 20, 2017.</p>
EAC 49	<ul style="list-style-type: none"> The EAC Holder must work with Aboriginal communities in the LAA (as defined in EIS) to track net migration to reserves attributable to Project effects, on rental market conditions in the City of Fort St. John and to identify if additional mitigation is needed. 	Ongoing	In Compliance	<p>The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 describes how monitoring net migration to reserves is completed in section 7.2. The report for 2015 was submitted on October 4, 2016. The report for 2016 is targeted for submission in early May 2017. BC Hydro has written to the Aboriginal communities requesting any information they would like included in the report for 2016.</p>
EAC 49	<ul style="list-style-type: none"> The EAC Holder must provide this draft Housing Monitoring and Follow-up Program to the City of Fort St. John and Aboriginal Groups for review within 90 days after the commencement of construction. 	Completed	In Compliance	<p>The draft Housing Plan and Housing Monitoring and Follow-Up Program was submitted to the City of Fort St. John and Aboriginal Groups on April 7, 2015.</p>
EAC 49	<ul style="list-style-type: none"> The EAC Holder must file the final Housing Monitoring and Follow-up Program with EAO, City of Fort St. John and Aboriginal Groups within 150 days following the commencement of construction. 	Completed	In Compliance	<p>The final Housing Plan and Housing Monitoring and Follow-Up Program, was submitted to the EAO, the City of Fort St. John and Aboriginal Groups on June 5, 2015.</p> <p>BC Hydro submitted Revision 2 of the Housing Plan and Housing Monitoring and Follow-Up Program on Dec 12, 2016. The Plan was updated due to CMHC eliminating its spring data collection period. As such, the revised plan includes monitoring once a year, but the threshold when mitigation would be explored was reduced to one monitoring cycle to maintain the same time frame (12 months).</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 49	The EAC Holder must develop, implement and adhere to the final Housing Monitoring and Follow-up Program, any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro submitted the Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 on December 12, 2016 which reflects the change by CMHC from semi-annual reporting to annual reporting. The monitoring was updated to reflect only fall monitoring but the threshold to consider mitigation was lowered from two reporting cycles to one to off-set this change.
EAC 50	<p>Regional Economic Development</p> <p>The EAC Holder must provide a one-time contribution of \$160,000 to the District of Hudson’s Hope within one year of reservoir filling to address permanent inundation of land no longer available for development.</p>	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro will provide a one- time contribution to the District of Hudson’s Hope within one year of reservoir filling to address permanent inundation of land no longer available for funding.
EAC 51	The EAC Holder must develop and implement a Business Participation Plan (Plan).	Ongoing	In Compliance	<p>In the recent period (August 2016 – December 2016), the Site C project continued to maintain an active business directory, with approximately 2,000 businesses registered. Information about all BC Hydro-issued procurement opportunities are posted on the Site C website and emailed to the Site C business directory. In this period, seven emails were sent to the business directory and information on major procurements are provided to local and regional governments and local and provincial business association stakeholders.</p> <p>Other activities include: The Site C procurement forecast, including regularly-updated major procurement/contract fact sheets, is available on the Site C website. BC Hydro responded to 175 enquiries related to business opportunities in this period, providing information and linking businesses to relevant opportunities with BC Hydro and the Site C contractors. BC Hydro is an active member of several local and</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
				<p>regional Chamber organizations (e.g. Fort St. John, Chetwynd), attending meetings and providing presentations as requested. This satisfies the requirement to build relationships and increase awareness in the region. A series of business networking sessions were held in 2015/2016 to coincide with the award of several major contracts. Additional sessions may be held as required when future large contracts are awarded.</p> <p>As part of ongoing community relations, BC Hydro will continue to meet with local economic development offices and business organizations to provide up-to-date information on business opportunities with the Site C project. Site C's major contractors have also led several procurements through their own internal systems and maintain active vendor's lists. BC Hydro provides information to businesses about how to contact the contractors and sign up for these lists on the Site C website.</p>
EAC 51	<p>The Plan must include at least the following: Increase awareness in the business community about Project procurement opportunities.</p>	Ongoing	In Compliance	<p>In the recent period (August 2016 – December 2016), the Site C project continued to maintain an active business directory, with approximately 2,000 businesses registered. Information about all BC Hydro-issued procurement opportunities are posted on the Site C website and emailed to the Site C business directory. In this period, seven emails were sent to the business directory and information on major procurements are provided to local and regional governments and local and provincial business association stakeholders.</p> <p>Other activities include: The Site C procurement</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 51	<p>Develop partnerships with local business organizations and economic development offices and programs to communicate and maximize opportunities for local businesses.</p>	Ongoing	In Compliance	<p>forecast, including regularly-updated major procurement/contract fact sheets, is available on the Site C website. BC Hydro responded to 175 enquiries related to business opportunities in this period, providing information and linking businesses to relevant opportunities with BC Hydro and the Site C contractors. BC Hydro is an active member of several local and regional Chamber organizations (e.g. Fort St. John, Chetwynd), attending meetings and providing presentations as requested. This satisfies the requirement to build relationships and increase awareness in the region. A series of business networking sessions were held in 2015/2016 to coincide with the award of several major contracts.</p> <p>Additional sessions may be held as required when future large contracts are awarded. As part of ongoing community relations, BC Hydro will continue to meet with local economic development offices and business organizations to provide up-to-date information on business opportunities with the Site C project. Site C's major contractors have also led several procurements through their own internal systems and maintain active vendor's lists. BC Hydro provides information to businesses about how to contact the contractors and sign up for these lists on the Site C website.</p> <p>In the recent period (August 2016 – December 2016), the Site C project continued to maintain an active business directory, with approximately 2,000 businesses registered. Information about all BC Hydro-issued procurement opportunities are posted on the Site C website and emailed to the Site C business directory. In this period, seven emails were sent to the</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 51	The EAC Holder must provide this draft Plan to	Completed	In Compliance	<p>business directory and information on major procurements are provided to local and regional governments and local and provincial business association stakeholders.</p> <p>Other activities include: The Site C procurement forecast, including regularly-updated major procurement/contract fact sheets, is available on the Site C website. BC Hydro responded to 175 enquiries related to business opportunities in this period, providing information and linking businesses to relevant opportunities with BC Hydro and the Site C contractors. BC Hydro is an active member of several local and regional Chamber organizations (e.g. Fort St. John, Chetwynd), attending meetings and providing presentations as requested. This satisfies the requirement to build relationships and increase awareness in the region. A series of business networking sessions were held in 2015/2016 to coincide with the award of several major contracts.</p> <p>Additional sessions may be held as required when future large contracts are awarded. As part of ongoing community relations, BC Hydro will continue to meet with local economic development offices and business organizations to provide up-to-date information on business opportunities with the Site C project. Site C's major contractors have also led several procurements through their own internal systems and maintain active vendor's lists. BC Hydro provides information to businesses about how to contact the contractors and sign up for these lists on the Site C website.</p> <p>The draft Business Participation Plan was submitted to</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	the City of Fort St. John, District of Hudson Hope, District of Taylor and Peace River Regional District for review 90 days prior to the commencement of construction.			regulatory agencies and governments on October 7, 2014.
EAC 51	The EAC Holder must file the Final Plan with EAO, City of Fort St. John, District of Hudson's Hope, District of Taylor, and Peace River Regional District a minimum of 30 days prior to the commencement of construction.	Completed	In Compliance	The final Business Participation Plan was submitted to regulatory agencies and governments on June 5, 2015.
EAC 51	The EAC Holder must develop, implement and adhere to the Final Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	As described in the Business Participation Plan (available on the Site C website), BC Hydro will publicly report on business participation activities on an annual basis. The 2015-2016 Annual Report for the Business Participation Plan was made available on the Site C website in July 2016. The 2016- 2017 annual report will be available on the Site C website in July 2017.
EAC 52	The EAC Holder must support the North and South Peace non-profit organizations by establishing a community non-profit fund and providing an annual contribution of \$100,000 per year to the fund during the construction phase. Organizations that support children and families will be eligible to apply for funding from the community non-profit fund.	Ongoing	In Compliance	BC Hydro worked with local governments and non-profit organizations active in the Peace region to establish the BC Hydro Peace Region Non-Profit Community Fund ("Fund"), now called the BC Hydro Generate Opportunities 'GO Fund". The Fund will support programs provided by non-profit organizations in target communities in the North and South Peace (Chetwynd, Hudson's Hope, Taylor, Fort St. John and PRRD) throughout Project construction. BC Hydro will provide an annual contribution of \$100,000 per year to the fund for eight years, with \$200,000 this year to cover year 1 and 2. BC Hydro established the Regional Decision-making Committee in June 2016. The GO Fund was launched jointly by BC Hydro, Northern Development Initiative Trust (NDIT) and the Committee on September 13, 2016. All information is available on website: www.northerndevelopment.bc.ca/funding-

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 53	The EAC Holder must develop and implement a Labour and Training Plan.	Ongoing	In Compliance	<p>programs/capacity-building/bc-hydro-go-fund/. Applications will be accepted continuously with four intake reviews (November, February, May, and August).</p> <p>The final Labour and Training Plan was submitted to regulatory agencies, governments, Aboriginal Groups, School Districts 59 and 60, and Northern Lights College on June 5, 2017. An annual report on labour and training was submitted to training institutions and employment agencies in the July 2016. The next annual report will be submitted in the summer of 2017.</p>
EAC 53	<p>The Labour and Training Plan must include at least the following:</p> <ul style="list-style-type: none"> Where labour requirements cannot be met through the local labour pool, develop a strategy for attracting new entrants to the local labour force. 	Ongoing	In Compliance	<p>BC Hydro has undertaken the following initiatives described in the Plan to date:</p> <ul style="list-style-type: none"> - Partnered with Site C contractors, local employment agencies and training institutions to host career fairs in various communities in Northern BC in early 2016; - Required Site C contractors to post Site C employment opportunities on the WorkBC and Employment Connections websites; - Requiring Site C contractors to provide information to BC Hydro which identifies categories of workers that are difficult to hire from the Peace Region labour pool. - Requiring Site C contractors to provide information on the number and job category of foreign workers, management, and supervisors employed in Canada on Project related work.
EAC 53	<ul style="list-style-type: none"> Resources and funding arrangements with education providers to ensure required training and skill development programs are available. 	Ongoing	In Compliance	<p>BC Hydro has undertaken the following initiatives described in the Plan to date:- Continued to support trades and skilled training through the BC Hydro Trades and Skilled Training Bursary Awards program through Northern Lights College;- Maintained regular contact</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 53	Participation in regional workforce training initiatives during construction	Ongoing	In Compliance	with the ministry of JTST to update relevant departments with workforce requirements for the Project and provide workforce information BC Hydro has undertaken the following initiatives described in the Plan to date: - Maintained on-going contact with training providers/institutions and employment agencies in Northeast British Columbia and facilitated contact between these agencies and Site C contractors
EAC 53	Identification of apprenticeship opportunities during construction	Ongoing	In Compliance	BC Hydro has undertaken the following initiatives described in the Plan to date: - Required Site C contractors to adhere to the provincial government's policy "Apprentices on Public Projects in British Columbia" which requires identification of apprentices being utilized on the Site C Project; - Worked with major Site C contractors to identify apprenticeship and training opportunities for the term of their respective construction contract.
EAC 53	Provision of additional day-care spaces in Fort St. John to increase spousal participation in the labour market.	Ongoing	In Compliance	Section 6.5 of the Labour and Training Plan submitted on June 5, 2015 describes the approach to providing additional day-care spaces in Fort St. John. In spring 2015, BC Hydro and School District 60 reached an agreement that will create 37 new childcare spaces in the new elementary school in Fort St. John. BC Hydro will contribute \$1.8 million to School District 60 to build the new childcare centre as part of the new school, which is targeted for completion by spring 2018.
EAC 53	The EAC Holder must provide this draft Labour and Training Plan to the City of Fort St John, District of Taylor, District of Hudson Hope, Peace River Regional District, Aboriginal Groups, School Districts 59 and 60, and Northern Lights College for review a minimum	Completed	In Compliance	The draft Labour and Training Plan was submitted to regulatory agencies, governments, Aboriginal Groups, School Districts 59 and 60, and Northern Lights College on October 17, 2014.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	of 90 days prior to the commencement of construction.			
EAC 53	The EAC Holder must file the final Labour and Training Plan with EAO, City of Fort St John, District of Taylor, District of Hudson Hope, Peace River Regional District, Aboriginal Groups, School Districts 59 and 60, and Northern Lights College a minimum of 30 days prior to the commencement of construction.	Completed	In Compliance	The final Labour and Training Plan was submitted to regulatory agencies, governments, Aboriginal Groups, School Districts 59 and 60, and Northern Lights College on June 5, 2017.
EAC 53	The EAC Holder must develop, implement and adhere to the final Labour and Training Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	An annual report on labour and training was submitted to training institutions and employment agencies in the July 2016. The next annual report will be submitted in the summer of 2017.
EAC 54	The EAC Holder must develop an Aboriginal Training and Inclusion Plan.	Completed	In Compliance	The Aboriginal Training and Inclusion Plan (June 2015) is available on the Project website at: https://www.sitecproject.com/sites/default/files/Aboriginal_Training_and_Inclusion_Plan.pdf
EAC 54	The Aboriginal Training and Inclusion Plan must include at least the following: • Description of a protocol and plan for the communication of employment opportunities to Aboriginal groups.	Ongoing	In Compliance	During this reporting period, BC Hydro and its contractors participated in job and career fairs hosted by Blueberry River First Nations, Saulteau First Nations, Mcleod Lake Indian Band, and Halfway River First Nation. Job opportunities with the Site C project are posted on the Site C Project, WorkBC and Employment Connections websites. These sites and the hyperlinks are provided as standing information in the bi-weekly information updates sent out by email to Aboriginal groups. BC Hydro's Aboriginal Employment and Business Development team has a Program Specialist in Fort St. John who is actively working in the communities to

No.	EAC Condition	Implementation Status	Compliance Status	Description
				<p>highlight the opportunities both on Site C as well as with BC Hydro broadly. This support includes coaching and support in the application process, highlighting opportunities with contractors, and provide required training and qualifications; e.g., electro-fishing certification or the Kitchen Skills program. Additionally, on March 16, 2017 the AEBD Program Specialist took Halfway River First Nation and Doig River First Nation members on a Site C tour to see the project site and camp, and to meet Aboriginal employees to hear about their work.</p> <p>The Site C project environmental and construction contractors have employed over 50 Aboriginal workers each month since the Project started. The latest confirmed employment statistics (January 2017) show that there were 195 Aboriginal employees working for Construction and Non-Construction Contractors.</p>
EAC 54	<ul style="list-style-type: none"> Inclusion of evaluation criteria for hiring and training Aboriginal persons in contractor procurement packages. 	Ongoing	In Compliance	<p>BC Hydro contractors have trained and employed Aboriginal carpenter apprentices on the Project. Where applicable to their role, the following safety training has been provided to over 50 Aboriginal workers on the Site C Project: Worker Fall Protection Certification; general safety training; environmental awareness; Workplace Hazardous Materials Information System (WHMIS); and Bear Aware.</p>
EAC 54	<ul style="list-style-type: none"> Strategies for capacity building, education, and training associated with Aboriginal participation in the labour market, including construction, trades, and other indirect and induced sectors for Aboriginal workers, as these jobs are likely to be longer lived than those related strictly to 	Ongoing	In Compliance	<p>BC Hydro has implemented capacity building initiatives that have supported essential skills training, pre-trades and trades training, or increased business capacity in Aboriginal businesses. Examples include funding to the Northern Lights College Foundation to provide student bursaries, to support the development of skilled workers in northern BC; Camp Cook Training Program;</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	construction.			<p>Construction Craft Work Training Program; Science World Program; Pathways to Success with BC Hydro; and WE for SHE Conference (Awareness Building Initiative).</p> <p>As of November 2016, 67 Aboriginal students residing in northeastern BC have benefitted from BC Hydro's Trades and Skilled Training Bursary at Northern Lights College, which supports students in programs such as electrical, welding, millwright, cook training, and social work. BC Hydro, along with the Northern Lights College Foundation, continues to promote the bursary with Aboriginal groups by sharing information with First Nation Education Managers at both Aboriginal and non-Aboriginal community career fair events.</p> <p>BC Hydro will continue to consider proposals from Aboriginal groups and training organizations for potential capacity building, education and training opportunities through the construction phase of the Project.</p>
EAC 54	<p>Resources and funding arrangements to support training, industry, and Aboriginal partnership opportunities in the region. Provide \$30,000 to the Minerva Foundation for three years to support Treaty 8 First Nation women in northeast BC wishing to participate in the Minerva Foundation's Combining Our Strength Initiative (\$10,000 provided to date.).</p>	Ongoing	In Compliance	<p>BC Hydro continues to provide funding to Minerva to support Treaty 8 First Nation women of northeast BC wishing to participate in the Combining Our Strength Initiative. The purpose of the Initiative is to create a space for Aboriginal women to discover themselves, connect with others, and to enhance leadership skills. Committed funding was provided in April 2016.</p>
EAC 54	<p>This is in addition to funding provided to date to Northern Lights College Foundation (\$1 million over five years), Northern</p>	Ongoing	In Compliance	<p>BC Hydro provided Ōhō Education with additional funding to support eight Treaty 8 Employment and Training Assistants to develop human resources skills</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Development Opportunities Program (\$175,000), Northern Opportunities School District Counsellor (\$184,000), NENAS NEATT Program (\$100,000) and Oho Education (\$16,600).			within each community. As part of the training, Employment and Training Assistants met with Contractors and BC Hydro to learn about careers, employment opportunities, and the hiring processes with the organizations. Employment and Training Assistants received tours of BC Hydro's northern facilities, including the camp at the Site C construction site. The training completed in August 2016. Three of Eight Employment and Training Assistants continue to work for their communities in training and employment.
EAC 54	<ul style="list-style-type: none"> · Aboriginal Business Participation Strategy to maximize opportunities for Aboriginal businesses, incorporating at least the following: <ul style="list-style-type: none"> o Obtaining information from Aboriginal suppliers in the LAA, and from other Aboriginal groups with whom BC Hydro is engaged about the Project, about their business capacity and capabilities to provide goods and services for the Project o Direct engagement with the local Aboriginal business community, including sponsoring and participating in Aboriginal business events and conferences. 	Ongoing	In Compliance	BC Hydro contractors have trained and employed Aboriginal carpenter apprentices on the Project. Where applicable to their role, the following safety training has been provided to over 50 Aboriginal workers on the Site C Project: Worker Fall Protection Certification; General safety training; Environmental awareness; WHIMIS; and, Bear Aware.
EAC 54	<ul style="list-style-type: none"> o Implementation of BC Hydro's Aboriginal Contract and Procurement Policy. 	Ongoing	In Compliance	BC Hydro continues to engage the local Aboriginal Business community through the following initiatives: <ul style="list-style-type: none"> - Site C Business Directory - Business Networking Sessions and Job Fairs - Procurement Process Support
EAC 54		Ongoing	In Compliance	Procurement Process Support: On request, BC Hydro's procurement and Aboriginal Relations staff are available to discuss procurement processes and ways to stay informed about upcoming procurements. BC Hydro works closely with Aboriginal communities and businesses to understand their capacity and interest with respect to the Project and identification of potential contracting.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 54	The EAC Holder must provide this draft Aboriginal Training and Inclusion Plan to Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Completed	In Compliance	The draft Aboriginal Training and Inclusion Plan was submitted to Aboriginal Groups on October 17, 2014.
EAC 54	The EAC Holder must file the final Aboriginal Training and Inclusion Plan with EAO and Aboriginal Groups a minimum of 30 days prior to construction.	Completed	In Compliance	The final Aboriginal Training and Inclusion Plan was submitted to EAO and Aboriginal Groups on June 5, 2015
EAC 54	The EAC Holder must develop, implement and adhere to the final Aboriginal Training and Inclusion Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The 2015-2016 Annual Report for the Aboriginal Training and Inclusion Plan was submitted to the EAO on July 5, 2016. The 2016-2017 Annual Report will be submitted to the EAO in July, 2017. BC Hydro will update the plan as required based on new information. Initiatives described in the Aboriginal Training and Inclusion Plan will continue to be implemented through project construction.
EAC 55	The EAC Holder must manage increased demands on community recreational programs and services resulting from the influx of the Project workforce by implementing mitigation measures detailed in a Recreation Program for residents of the work camp, in consultation with the City of Fort St. John.	Ongoing	In Compliance	BC Hydro signed a Community Measures Agreement with the City of Fort St. John on April 22, 2016 which addressed mitigation for camp resident use of City recreational services.
EAC 55	If the recreational services required by residents of the camp extend beyond that provided through in-house (EAC Holder) facilities and programming, the EAC Holder must identify, through consultation with the City of Fort St. John, additional facility and/or programming needs and must provide the resources required to meet those needs.	Ongoing	In Compliance	BC Hydro signed a Community Measures Agreement with the City of Fort St. John on April 22, 2016 which addressed mitigation for camp resident use of City recreational services.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 55	The EAC Holder must develop a draft Recreation Program for review by the City of Fort St. John and the Peace River Regional District a minimum of 90 days prior to the commencement of camp operations.	Completed	In Compliance	The draft Recreation Program was submitted to City of Fort St. John, and PRRD on October 17, 2014.
EAC 55	The EAC Holder must file the final Recreation Program with EAO, City of Fort St. John and Peace River Regional District a minimum of 30 days prior to the commencement of camp operations.	Completed	In Compliance	The final Recreation Program was submitted to EAO, City of Fort St. John, and PRRD on June 5, 2015.
EAC 55	The EAC Holder must develop, implement and adhere to the final Recreation Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro has made payments to the City in accordance with the Community Measures Agreement for Year 1 and 2 of the Project.
	HUMAN HEALTH			
	Potable and Recreational Water Quality			
EAC 56	The EAC Holder must ensure that wells affected by changes to groundwater levels within 1 km of the reservoir or Peace River continue to function as reliable and safe sources of water for human consumption by monitoring potentially affected wells, with the approval of potentially affected well owners, for significant long-term well quality issues.	Ongoing	In Compliance	BC Hydro commenced monitoring of groundwater in June 2015 at representative water sampling locations selected based on historical well drill logs and spatial proximity to water wells within 1 km of the reservoir. This program was implemented as an alternative to monitoring private wells for which BC Hydro cannot control access, operation, maintenance, or possible contamination. In 2015, BC Hydro was granted access to sample one private homeowner well, within 1 km of current construction activities and downstream of the permanent dam site. In spring summer 2016, BC Hydro reinitiated efforts to engage with property owners with potentially affected drinking water wells by contacting all owners of known wells within 1 km of the reservoir or Peace River near the Site C construction site. An advertisement was also placed in the Hudson's Hope Bulletin in August 2016 inviting eligible well owners to participate in the voluntary program.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 56	Monitoring must be done twice a year for 10 years, beginning annually from the outset of	Ongoing	In Compliance	<p>On December 22, 2016, EAO issued an Order regarding the monitoring of water quality. The Order was based on inspections from December 9 to 11, 2016 and February 17, 2016. The Order set out requirements for notifications procedures, the monitoring of water quality and maintenance of records of the water well monitoring program.</p> <p>BC Hydro has undertaken corrective actions to address the order. For those willing to participate in the monitoring program, BC Hydro will be requesting requested information on wells, and if used for drinking water, will request approval to complete well water quality testing. A field program was conducted in October 2016, during which time 10 wells were sampled at eight residential properties for baseline water quality analysis. Well owners whom BC Hydro was unable to successfully contact to schedule monitoring in advance of the planned field program, or who requested to join the voluntary program after the October 2016 event, will be considered for inclusion in future monitoring events.</p> <p>Implementation of twice per year monitoring will include contact with drinking water well owners with a brief questionnaire on well operations and any potential changes in water quality. Water quality testing will be completed on an as-needed basis in private drinking water wells, if potential changes or concerns are identified.</p> <p>Monitoring will continue for a period of 10 years from the date of the initial voluntary sampling event in</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 56	<p>construction.</p> <p>If any functionality problems such as poor water quality or low yield result from the Project, the EAC Holder must work with the well owner(s) to provide an alternate source of potable water.</p>	Not Started	Future Requirement	<p>October 2016.</p> <p>If testing finds issues with quality or yield caused as a result of the project, BC Hydro will work with the well owner (s) to provide an alternate source of potable water.</p>
EAC 57	<p>Ambient Air Quality</p> <p>The EAC Holder must develop an Air Quality Management Plan and Smoke Management Plan, in compliance with applicable legislation and consistent with the Air Quality Guidelines for the Protection of Human Health and the Environment (CCME 1998), and the British Columbia Air Quality Objectives and Standards (BC Ministry of Environment 2009). The main purpose of the Air Quality Management Plan and Smoke Management Plan is to mitigate the potential human health effects from a degradation of air quality in the region of Fort St. John, Taylor, Hudson's Hope, Chetwynd and for Aboriginal Groups using areas for traditional purposes close to the construction activities of clearing and burning.</p>	Completed	In Compliance	<p>The Smoke Management Plan and Air Quality Monitoring Program are described in Section 4.1 and Appendix A and B, respectively, of the CEMP.</p>
EAC 57	<p>The Air Quality Management Plan and Smoke Management Plan must include at least the following to describe how the EAC Holder:</p> <ul style="list-style-type: none"> Identify places of high use by Aboriginal Groups for traditional purposes and develop mitigation measures if adverse effects are predicted at those locations. 	Ongoing	In Compliance	<p>Ground truthing site visits have taken place in summer 2014, summer 2015, and fall 2016 and are being planned for summer 2016. To date BC Hydro has done site visits with registered trapline holders from Saulteau First Nation and the McLeod Lake Indian Band. Doig River First Nation and Halfway River First Nation have conducted independent ground-truthing activities. BC Hydro received a report from Doig River First Nation in August 2016, and is currently awaiting receipt of an outstanding report from Halfway River First Nation.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 57	<ul style="list-style-type: none"> Measures to manage emissions and dust from all Project activities. 	Ongoing	Partially met compliance	<p>Where areas of high use are identified through ground-truthing activities, BC Hydro will share information with its respective project teams so that the information may be considered in the development of mitigation measures.</p> <p>Requests have been made to undertake ground truthing trips with other aboriginal groups.</p> <p>Section 4.1 of the CEMP requires Contractors to prepare EPPs that include measures to manage emissions and dust from all project activities. In non-freezing conditions Contractors undertook wide-spread dust control (watering) activities on project roads and work areas. During freezing conditions Contractors did not water roads and laydown areas to suppress dust and the dam site area experienced some air quality exceedances.</p> <p>BC Hydro is working with its Contractors to find appropriate and practical measures to manage dust, including trials on several cold weather dust suppressant products and creating a taskforce to examine other suitable dust suppression methods.</p>
EAC 57	<ul style="list-style-type: none"> Measures to manage Project effects on air quality associated with concrete production at concrete batch plants. 	Ongoing	In Compliance	<p>Section 4.1 of the CEMP provides mitigation measures to be taken to manage air quality effects associated with concrete batch plant operations.</p>
EAC 57	<ul style="list-style-type: none"> Control Project-related smoke by following the most current BC Ministry of Environment Open Burning Smoke Control Regulation. 	Not Started	Future Requirement	<p>BC Hydro has not burned waste materials or wood-waste on the project. Waste wood burning is anticipated to occur in Fall 2017.</p>
EAC 57	<ul style="list-style-type: none"> Measures to retain vegetative barriers, or install temporary barriers, where practical. 	Ongoing	In Compliance	<p>Section 4.1 of the CEMP requires Contractors to retain vegetative barriers, or install temporary barriers,</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 57	<p>Procedures to provide MOE with data collected during monitoring so that they can notify sensitive populations if air quality thresholds are exceeded.</p>	Completed	In Compliance	<p>where practicable. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p> <p>A MOU agreement was established between BC Hydro and the MOE regarding the housing and publishing of Site C air quality monitoring data on January 7, 2016.</p>
EAC 57	<p>The EAC Holder must monitor air quality associated with shoreline protection works at Hudson's Hope during the construction period and for the first two years of operations.</p>	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition. Shoreline protection works at Hudson's Hope are planned to commence in 2019 – 2021. Air quality monitoring plans will be implemented during construction and for the first 2 years of reservoir operations.</p>
EAC 57	<p>The EAC Holder must provide these draft Air Quality Management Plan and Smoke Management Plan to MOE, City of Fort St. John, District of Hudson's Hope, Peace River Regional District, District of Taylor, District of Hudson's Hope, District of Chetwynd and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction activities.</p>	Completed	In Compliance	<p>The Smoke Management Plan and Air Quality Monitoring Program are described in Section 4.1 and Appendix A and B, respectively, of the CEMP. The Draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014</p>
EAC 57	<p>The EAC Holder must file the final Air Quality Management Plan and Smoke Management Plan with EAO, MOE, City of Fort St. John, District of Hudson's Hope, Peace River Regional District, District of Taylor, District of Chetwynd and Aboriginal Groups a minimum of 30 days prior to the commencement of construction activities.</p>	Completed	In Compliance	<p>The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016.</p>
EAC 57	<p>The EAC Holder must develop, implement and adhere to the final Air Quality Management</p>	Ongoing	In Compliance	<p>Appendix A of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Plan and Smoke Management Plan, and any amendments, to the satisfaction of EAO.			with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
	Noise and Vibration			
EAC 58	The EAC Holder must develop a Noise and Vibration Management Plan to mitigate Project-related noise and vibration effects on human health.	Completed	In Compliance	The Noise and Vibration Management Plan is described in Section 4.11 of the CEMP.
EAC 58	The Noise and Vibration Management Plan must include at least the following: <ul style="list-style-type: none"> • Program to monitor noise levels associated with construction of Hudson's Hope Shoreline Protection. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition. Shoreline protection works at Hudson's Hope are planned to commence in 2019 – 2021, and noise level monitoring will be undertaken during construction.
EAC 58	<ul style="list-style-type: none"> • Implement notification of construction program and Construction Communication Plan for residents in vicinity of Project activities 	Ongoing	In Compliance	The Site C project team is implementing the Construction Communication Plan and the Aboriginal Group Communication Plans (dated: June 5, 2015) to ensure that residents, stakeholders and Aboriginal groups are provided with advance notification about construction activities. The 2015-2016 Annual Report for the Construction Communications Plan was posted on the Site C website on July 27, 2016. The 2016-2017 Annual Report will be posted in July 2017. Events include: Regional Community Liaison Committee meetings, mail drops, bi-weekly construction updates, First Nations Construction Notification Letter, Construction Information Sheets posted on the Project website, News releases about key construction milestones, site tours, Project website, responses to public enquiries, advertising (i.e., transmission line access road).
EAC 58	<ul style="list-style-type: none"> • Retain or erect acoustic barriers, fencing, and vegetative screens as appropriate. 	Ongoing	In Compliance	The CEMP Section 4.11 describes the retention or erection of acoustic barriers, fencing, and vegetative screens as appropriate as a mitigation measure for

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 58	<ul style="list-style-type: none"> · Develop and implement noise monitoring and adaptive management as required. 	Ongoing	In Compliance	<p>noise and vibration effects. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p> <p>The CEMP Section 4.11 describes the implementation of a noise monitoring program to measure noise levels at sensitive locations near the 85th Avenue Industrial Lands, Highway 29 re-alignment, and Hudson's Hope berm. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 58	<ul style="list-style-type: none"> · Mitigate night-time noise (e.g. perimeter berms and acoustic barriers, portable enclosures or barriers to the conveyor hopper, and silent backup alarms) 	Ongoing	In Compliance	<p>The CEMP Section 4.11 describes the scheduling of construction activity near homes to reduce periods of disturbance, and the control of construction traffic and deliveries on local roads during night-time hours (22:00-07:00). BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 58	<ul style="list-style-type: none"> · Monitor noise at 85th Avenue Industrial Lands 	Ongoing	In Compliance	<p>The CEMP Section 4.11 describes the implementation of a noise monitoring program at 85th Avenue Industrial Lands. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 58	<ul style="list-style-type: none"> o Construct perimeter fencing and retain or plant tree screens at 85th Avenue Industrial Lands 	Ongoing	In Compliance	<p>The CEMP Section 4.11 describes noise mitigation measures specific to 85th Avenue Industrial Lands. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 58	<ul style="list-style-type: none"> o Design a work and noise management 	Completed	In Compliance	<p>The Noise Management Plan included within Worker</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 58	<p>schedule that allows an uninterrupted eight hour sleep schedule for Project workers,</p> <ul style="list-style-type: none"> o Manage Project construction noise to provide quiet enjoyment to residents, even if it means temporary relocation of residents at the EAC Holder's expense. 	Ongoing	In Compliance	<p>Accommodation design and operations contract is aligned with the CEMP Section 4.11.</p> <p>The CEMP Section 4.11 describes noise mitigation measures specific to 85th Avenue Industrial Lands. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation. Construction activity to-date in the 85th Ave industrial lands area has been very limited.</p>
EAC 58	<p>The EAC Holder must provide this draft Noise and Vibration Management Plan to FLNR, District of Hudson's Hope, City of Fort St. John, Peace River Regional District and District of Chetwynd for review a minimum of 90 days prior to the commencement of construction activities.</p>	Completed	In Compliance	<p>The Noise and Vibration Management Plan is described in Section 4.11 of the CEMP. The Draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014</p>
EAC 58	<p>The EAC Holder must file the final Noise and Vibration Management Plan with EAO, FLNR, District of Hudson's Hope, City of Fort St. John, Peace River Regional District and District of Chetwynd a minimum of 30 days prior to the commencement of construction activities.</p>	Completed	In Compliance	<p>The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. The CEMP continues to be updated as required, with the most recent version, Revision 4, dated July 26, 2016, provided to regulators, government agencies, Aboriginal Groups and the public via the Site C Clean Energy Project website at: https://www.sitecproject.com/document-library/environmental-management.</p>
EAC 58	<p>The EAC Holder must develop, implement and adhere to the final Noise and Vibration Management Plan, and any amendments, to the satisfaction of EAO.</p>	Ongoing	In Compliance	<p>Section 4.11 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.</p>
EAC 59	<p>The EAC Holder must outline measures including relocation of affected home-owners, as deemed appropriate in consultation with</p>	Ongoing	In Compliance	<p>Implementation of the Noise and Vibration and Air Quality Management Plans, including review of EPPs, inspections of mitigation measures, and monitoring, is</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	<p>affected home-owners, to address serious levels of noise or changes in air quality during construction of the Project. The measures would be included in the appropriate plans.</p>			<p>ongoing. A noise and air quality complaint response process has been developed and is being implemented.</p>
EAC 60	<p>Methylmercury The EAC Holder must, in collaboration with the First Nations Health Authority (FNHA), NHA and Aboriginal Groups, develop a Methylmercury Monitoring Plan.</p>	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition. BC Hydro will work with the FNHA, Northern Health Authority (NHA) and Aboriginal Groups to jointly develop a Methylmercury Monitoring Plan, and will submit this Plan to EAO, FNHA and NHA, a minimum 90 days prior to reservoir filling. Reservoir filling is scheduled to commence in 2022.</p>
EAC 60	<p>The Methylmercury Monitoring Plan must include: Methods for collecting monitoring information must include: • Involving Aboriginal Groups and the FNHA in the design, implementation, management and interpretation and communication of results;</p>	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition.</p>
EAC 60	<p>• Use of information regarding consumption of fish by Aboriginal Groups known to consume fish in the methylmercury monitoring study if available, and non-aboriginal harvesters including: o species and size of fish caught for consumption; o location where fish are caught for consumption; o consumption of fish by age group and gender; o fish meal sizes by age group and gender; o fish meal frequency; o parts of fish consumed; o fish preparation methods; and o other relevant consumption information (e.g. events where</p>	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 60	consumption is higher over a short period of time such as a camping event); and • Use of baseline methylmercury levels in representative fish species consumed by Aboriginal Groups and non-aboriginal harvesters.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 60	Requirements for monitoring the trend and evolution of methylmercury concentrations in fish. Monitoring requirements must include the following: • proposed geographic extent; • proposed monitoring parameters; • proposed monitoring locations; and • proposed monitoring timelines and frequency.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 60	Measures to enable people to limit exposure to methylmercury to avoid risk to human health such as:	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 60	• a detailed communications strategy developed in consultation with relevant Aboriginal groups and government departments and agencies including consumption advisories or other health related bulletin or information, as may be necessary; and	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 60	• an annual update on the status, results, and trends of methylmercury concentrations in fish and the presence of human health risks associated with the consumption of fish from the affected waterbodies.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 60	Baseline information must be established prior to any project impacts using a minimum of two years of data and operations phase	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	monitoring will occur each year for the first ten years of operations and every 5 years after until such time as methylmercury levels in fish populations have stabilized.			
EAC 60	The EAC Holder must report on the results to EAO, FNHA and NHA in accordance with the monitoring schedule.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 60	The EAC Holder must provide this draft Methylmercury Monitoring Plan to FNHA and NHA for review a minimum of 90 days prior to the commencement of reservoir filling.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 60	The EAC Holder must file the final Methylmercury Monitoring Plan with EAO, FNHA and NHA a minimum of 30 days prior to the commencement of reservoir filling.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 60	The EAC Holder must develop, implement and adhere to the final Methylmercury Monitoring Plan, and any amendments, to the satisfaction of EAO.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
	HERITAGE RESOURCES			
	Visual Resources			
EAC 61	The EAC Holder must develop and implement measures to manage Project effects on visual resources by undertaking the following throughout construction: • Address how to landscape the shoreline protection area in Hudson's Hope to maintain or enhance natural views in collaboration with the District of Hudson's Hope	Ongoing	In Compliance	BC Hydro has completed public consultation on the Hudson's Hope shoreline protection area. BC Hydro will collaborate with the District of Hudson's Hope regarding measures to maintain or enhance visual resources. BC Hydro signed a Partnering Relationship Agreement with the District of Hudson's Hope in January 2017 which addresses how the District and BC Hydro will work together on the measures in their community.
EAC 61	• Set objectives and requirements for exterior designs for Project structures, and	Ongoing	In Compliance	BC Hydro has included requirement for building designs to blend in with surrounding in architectural contract

No.	EAC Condition	Implementation Status	Compliance Status	Description
	landscaping to blend in with the character of the surrounding environment except in accordance with safety objectives.			terms for Project Structures, where feasible.
EAC 61	Set objectives and requirements for establishing and building workforce accommodation camps on previously disturbed areas or areas generally hidden from key viewpoints.	Completed	In Compliance	The Site C workforce accommodation camp has been sited on a previously disturbed area and is, in general, hidden from key viewpoints.
EAC 61	The EAC Holder must undertake the measures to the satisfaction of EAO.	Ongoing	In Compliance	The implementation of the measures is underway in accordance with this condition.
Physical Heritage and Cultural Heritage				
EAC 62	The EAC Holder must protect and preserve heritage resources by implementing measures as detailed in a Heritage Resources Management Plan.	Ongoing	In Compliance	The Heritage Resources Management Plan (HRMP) is available on the Project website at: https://www.siteproject.com/document-library/environmental-management . Annual reports for field work completed in 2016 under these permits and for paleontological resources were submitted to regulatory agencies on March 31, 2017.
EAC 62	The Heritage Resources Management Plan must be developed by a QEP.	Completed	In Compliance	Section 10.0 of the HRMP lists the QPs who prepared the plan.
EAC 62	The Heritage Resources Management Plan must specify a process for the engagement of Aboriginal Groups in planning and follow-up/monitoring activities related to heritage resources as the Project proceeds.	Ongoing	In Compliance	This is addressed in the final HRMP, dated June 5, 2015. Implementation of this requirement has included:-the opportunity for Aboriginal groups to comment on Section 14 heritage reports and Section 14 and 12 permit amendments in accordance with the Heritage Conservation Act where the Aboriginal Group is listed in the permit.-a presentation on the annual report findings to the Culture and Heritage Resources Committee.-providing archaeology crew field assistant employment opportunities for Aboriginal people.
EAC 62	In particular, the Plan must incorporate a process for continued collaboration with	Ongoing	In Compliance	This is addressed in the final HRMP, dated June 5, 2015. Implementation of this requirement has included:

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Aboriginal Groups on ground-truthing for the identification of any burial sites that the Project may disturb.			<ul style="list-style-type: none"> -in accordance with the Heritage Conservation Act, for Aboriginal Groups that may be affected by a permitting decision and who are listed in the permit, are provided a review period of between 15 and 30 days will be provided to provide an opportunity for comments. -Providing archaeology crew field assistant employment opportunities for Aboriginal people The draft HRMP was submitted to the Archaeology Branch of FLNR, and Aboriginal Groups on October 17, 2014.
EAC 62	The EAC Holder must provide the draft Heritage Resources Management Plan to Archaeology Branch of FLNR and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Completed	In Compliance	
EAC 62	The Heritage Resources Management Plan must include Archaeological Impact Management and Heritage Resources Monitoring and Follow-Up Programs.	Ongoing	In Compliance	Section 6 of the HRMP describes Heritage Resources Impact Management. Management measures implemented to date have included: <ul style="list-style-type: none"> -inclusion of heritage requirements in contractor EPPs, as applicable to the scope of work covered by the EPP. -undertaking archaeological work for the Heritage Resources Impact Assessment in accordance with the terms and conditions of Heritage Conservation Act Section 14 (Heritage Inspection) permits. -undertaking any land-altering work in accordance with Section 12 Heritage Conservation Act (Site alteration) permit.
EAC 62	The field and reporting portions of each program will be of a scope, duration and frequency prescribed by the BC Heritage Conservation Act permits.	Ongoing	In Compliance	Annual reports for field work completed in 2016 under these permits, and for paleontological resources, were submitted to regulatory agencies on March 31, 2017.
EAC 62	The Archaeology Impact Management Program must be developed by a QEP qualified to hold Section 14 Heritage Inspection and Investigation Permits.	Completed	In Compliance	Section 10.0 of the HRMP lists the QPs who prepared the plan.
EAC 62	The Heritage Resources Monitoring and	Not Started	Future	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	<p>Follow-Up Program must include at least the following:</p> <ul style="list-style-type: none"> Monitor reservoir erosion during occurrences of exposure to assess the impacts on existing or newly identified protected archaeological sites and other heritage resources 		Requirement	
EAC 62	<ul style="list-style-type: none"> Implement mitigation measures, systematic data recovery or emergency salvage operations in accordance with the Heritage Resources Management Plan. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 62	<ul style="list-style-type: none"> Conduct the monitoring of shoreline erosion downstream (for approximately 2 km) as part of chance-find procedures to determine if physical heritage resources are affected by the Project. The EAC Holder must undertake this monitoring for any spills from the Project reservoir for a period of two years following the commencement of reservoir filling and commissioning. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 62	<ul style="list-style-type: none"> Establish a reporting structure for reporting to Aboriginal Groups and the Archaeology Branch beginning 180 days following the commencement of operations. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 62	<p>The EAC Holder must file the final Heritage Resources Management Plan with EAO, Archaeology Branch and Aboriginal Groups a minimum of 30 days prior to commencement of construction.</p>	Completed	In Compliance	The final HRMP was submitted to EAO, the Archaeology Branch of FLNR, and Aboriginal Groups on June 5, 2015.
EAC 62	<p>The EAC Holder must develop, implement and adhere to the final Heritage Resources Management Plan, and any amendments, to the satisfaction of EAO.</p>	Ongoing	In Compliance	Annual reports for field work completed in 2016 under these permits and for paleontological resources were submitted to regulatory agencies on March 31, 2017.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 63	The EAC Holder must manage adverse Project effects on cultural resources by implementing mitigation measures detailed in a Cultural Resources Mitigation Plan.	Ongoing	In Compliance	The Cultural Resources Mitigation Plan (June 2015) is available on the Project website at https://www.siteproject.com/sites/default/files/Cultural_Resources_Mitigation_Plan.pdf
EAC 63	The Cultural Resources Mitigation Plan must be developed in collaboration with a Cultural and Heritage Resources Committee (Committee) established by the EAC Holder that includes Aboriginal Groups.	Ongoing	In Compliance	<p>Since September 2014, BC Hydro has invited 13 Aboriginal groups to participate in the Culture and Heritage Resources Committee (the "Committee"). The Committee has met on nine occasions to discuss construction activities and mitigation measures related to cultural and heritage resources. The Committee last met on December 8, 2016 in Fort St John.</p> <p>To date, nine Aboriginal groups, including Doig River First Nation, Blueberry River First Nations, Halfway River First Nation, Dene Tha' First Nation, Horse Lake First Nation, Duncan's First Nation, McLeod Lake Indian Band, Métis Nation BC, and Kelly Lake Métis Settlement Society, have participated on the Committee. Invitations continue to be sent to NWD (on behalf of Prophet River and West Moberly First Nations), Saulteau First Nations, and Fort Nelson First Nation to join and participate on the Committee.</p>
EAC 63	The Cultural Resources Mitigation Plan must include consideration of the following elements and/or others that may be recommended by the Committee: <ul style="list-style-type: none"> · Identification and naming of key cultural sites. · Documenting historical use of the area, including trails, sites, and stories. · Commemoration of sites lost to inundation. · Cultural awareness and orientation of workforce. · Support for cultural camps 	Ongoing	In Compliance	<p>Since Summer 2016, BC Hydro and the Culture and Heritage Resources Committee have been working on a project to develop Aboriginal content for displays at the public Site C north bank viewpoint. It was agreed that the Committee would be responsible for collectively developing content for one side of a sign, while Doig River First Nation would have responsibility for the other side. The Committee continues to work on developing content for one side of the interpretive sign, while Doig River First Nation and BC Hydro are working closely on finalizing their side of the interpretive sign.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
	support.			<p>Additionally, with direction from the Committee, BC Hydro has been working with Doig River First Nation to understand the Beaver spelling for naming of the viewpoint. Doig River First Nation provided BC Hydro with the correct Beaver spelling for "viewpoint" on January 18, 2017. BC Hydro is also working closely with Doig River First Nation on creating a memorial at the north bank viewpoint for Chief Attachie. The Committee has also discussed the possibility and feasibility of developing a traveling museum exhibit that could travel Aboriginal communities and to ultimately reside in the Fort St John Museum. The Committee is determining if this is a project of interest and will be further discussed at the next Committee meeting.</p>
EAC 63	The EAC Holder must provide the draft Cultural Resources Mitigation Plan to the Committee for review a minimum 90 days prior to the commencement of construction.	Completed	In Compliance	The draft Cultural Resources Mitigation Plan was submitted to Aboriginal Groups on October 17, 2014.
EAC 63	The EAC Holder must file the final Cultural Resources Mitigation Plan with EAO and the Committee a minimum of 30 days prior to the commencement of construction.	Completed	In Compliance	The final Cultural Resources Mitigation Plan was submitted to Aboriginal Groups on June 5, 2015.
EAC 63	The EAC Holder must develop, implement and adhere to the final Cultural Resources Mitigation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The 2015-2016 Annual Report for the Cultural Resources Mitigation Plan was submitted to the EAO and shared with Aboriginal groups on July 5, 2016. Future annual reports will continue to be submitted in July of that calendar year.
EAC 64	The EAC Holder must provide a total of \$100,000 to local accredited facilities in close proximity to the Project, prior to the start of operations, to curate and display the recovered resources and the funding is not to	Not Started	Future Requirement	BC Hydro understands this condition. BC Hydro will fund local accredited facilities in close proximity to the Project, prior to the start of operations, to curate and display the recovered resources and the funding is not to be used for buildings to house them. The allocation

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 64	<p>be used for buildings to house them.</p> <p>These funds must be provided only to facilities that agree to work with interested Aboriginal Groups on the display and curation of those artefacts.</p>	Not Started	Future Requirement	<p>of the funding is planned for Year 5 of Construction.</p> <p>BC Hydro understands this condition. BC Hydro will fund local accredited facilities in close proximity to the Project, prior to the start of operations, to curate and display the recovered resources and the funding is not to be used for buildings to house them. The allocation of the funding is planned for Year 5 of Construction.</p>
ENVIRONMENTAL PROTECTION AND MANAGEMENT				
Greenhouse Gas Emissions				
EAC 65	The EAC Holder must monitor the levels of Greenhouse Gas (GHG) emissions resulting from the Project as detailed in a Greenhouse Gases Monitoring and Follow-Up Program to confirm predictions of the GHG model.	Not Started	Future Requirement	<p>BC Hydro acknowledges and understands this condition.</p> <p>BC Hydro will submit a draft and final Greenhouse Gases Monitoring and Follow-Up Program to regulatory agencies and Environment Canada within 90 day, and 150 days, respectively, after the commencement of operations.</p>
EAC 65	The Program must include at least the following: <ul style="list-style-type: none"> Protocols for monitoring GHG emissions from Site C reservoir for the first 10 years of operations. Protocols for monitoring and reporting GHG emissions during operation and maintenance activities. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 65	<ul style="list-style-type: none"> A reporting structure for reporting results at least annually during the monitoring and follow-up program period, beginning 180 days following commencement of operations, to MOE and Environment Canada. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 65	The EAC Holder must provide this draft Greenhouse Gases Monitoring and Follow-Up	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Program to MOE and Environment Canada for review within 90 days after the commencement of operations.			
EAC 65	The EAC Holder must file the final Greenhouse Gases Monitoring and Follow-Up Program with EAO, MOE and Environment Canada within 150 days after the commencement of operations.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 65	The EAC Holder must develop, implement and adhere to the final Greenhouse Gases Monitoring and Follow-Up Program, and any amendments, to the satisfaction of EAO.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
	ENVIRONMENTAL MANAGEMENT PLANS, FOLLOW-UP AND MONITORING			
EAC 66	The EAC Holder must clearly document its roles and responsibilities for monitoring and reporting employee and contractor performance and compliance with the EAC and its conditions in an Environmental Oversight Program.	Completed	In Compliance	Environmental Management Roles and Responsibilities are described in Section 2.0 of the CEMP.
EAC 66	The Environmental Oversight Program must include requirements for investigating and reporting non-compliance with the EAC and any management plans, ensuring corrective actions are implemented, and requirements for reviewing and updating the Construction Environmental Management Plans and Operations Environmental Management Plans to ensure that they remain relevant and current.	Ongoing	In Compliance	The BC Hydro environmental team onsite inspects and audits against the various environmental documentation and commitments. Contractors and BC Hydro keep a non-compliance report tracking program and share the information to ensure the identified items are acted upon. Some generic items have been identified so moving forward BC Hydro will ensure Non-compliance Reports are specific, actionable with accountable individuals assigned and a due date which is timely but able to be met. If BC Hydro or the IEM identify a non-compliance, contractors are required to investigate, document and rectify the non-compliance, keeping BC Hydro involvement to an inspection, audit,

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 66	The EAC Holder must submit the draft Environmental Oversight Program to EAO 90 days prior to commencing construction.	Completed	In Compliance	and oversight role. The draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014.
EAC 66	The EAC Holder must submit the final Environmental Oversight Program to EAO 30 days prior to commencing construction.	Completed	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016.
EAC 66	The EAC Holder must develop, implement and adhere to the final Environmental Oversight Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The BC Hydro environmental team onsite inspects and audits against the various environmental documentation and commitments. Contractors and BC Hydro keep a non-compliance report tracking program and share the information to ensure the identified items are acted upon. Some generic items have been identified so moving forward BC Hydro will ensure Non-compliance Reports are specific, actionable with accountable individuals assigned and a due date which is timely but able to be met. If BC Hydro or the IEM identify a non-compliance, contractors are required to investigate, document and rectify the non-compliance, keeping BC Hydro involvement to an inspection, audit, and oversight role.
EAC 67	The EAC Holder must appoint an IEM acceptable to EAO, at least three months prior to construction.	Completed	In Compliance	BC Hydro retained Environmental Dynamics Inc. as the Independent Environmental Monitor for the Project on January 13, 2015. EAO approved this on May 7, 2015.
EAC 67	The IEM will be responsible for monitoring the course of construction of the Project as directed by EAO.	Ongoing	In Compliance	BC Hydro retained Environmental Dynamics Inc. as the Independent Environmental Monitor for the Project on January 13, 2015. EAO approved this on May 7, 2015. EDI provides a weekly environmental monitoring report to BC Hydro and regulators.
EAC 67	The IEM must audit any incident reports as well as EAC Holder responses to the EAC	Ongoing	In Compliance	BC Hydro retained Environmental Dynamics Inc. as the Independent Environmental Monitor for the Project on

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Holder's Environmental Monitor's findings and recommendations (Reports) must be filed with FLNR and EAO within 30 days of request.			January 13, 2015. EAO approved this on May 7, 2015. EDI provides a weekly environmental monitoring report to BC Hydro and regulators.
EAC 67	These Reports must be developed and reported to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro retained Environmental Dynamics Inc. as the Independent Environmental Monitor for the Project on January 13, 2015. EAO approved this on May 7, 2015. EDI provides a weekly environmental monitoring report to BC Hydro and regulators.
EAC 68	The EAC Holder must manage worker and public safety throughout the construction phase by implementing measures detailed in a Construction Safety Management Plan that complies with all applicable requirements of statutes, permits, approvals, and authorizations as outlined in Section 35 of the EIS.	Ongoing	In Compliance	BC Hydro is auditing the implementation of measures in the CSMP by: - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety performance and exploring opportunities for improvement, and - conducting safety audits during construction to verify that requirements of the Plan are being considered and implemented as required. BC Hydro has also required that the MCWs contractor retain independent third party auditors to conduct safety audits on an annual basis.
EAC 68	The Construction Safety Management Plan must be developed by a QEP.	Completed	In Compliance	Section 6.0 of the CSMP lists the QPs who prepared the plan.
EAC 68	The Construction Safety Management Plan must include the following component plans: . Fire Hazard and Abatement Plan;	Ongoing	In Compliance	The Fire Hazard and Abatement Plan is contained in CSMP Section 5.2 and its sub-sections. Fire abatement practices are part of everyday work. The BC Hydro Fire Marshall has been actively engaged in fire management planning and fire code review in each phase of construction and site services. The Fire Marshall and/or her representative has been actively engaged in Fire audit work at Site C. Fire Marshall recommendations have formed the basis of corrective

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 68	<ul style="list-style-type: none"> • Public Safety Management Plan; 	Ongoing	In Compliance	<p>action plans to the satisfaction of the Fire Marshall. Fire systems tests have been ongoing at the worker accommodation camp since it opened.</p> <p>BC Hydro is meeting this requirement. Section 5.3 of the CSMP describes the Public Safety Management Plan as well as planning for future aspects of the project. The Public Safety Management Plan, developed by a QEP, is described in Section 5.3 of the CSMP. The draft and final CSMPs were submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014 and June 5, 2015, respectively. A status update on Condition 37 requirements is provided below. See comments for EAC condition 38.</p>
EAC 68	<ul style="list-style-type: none"> • Traffic Management Plan; and 	Ongoing	In Compliance	<p>The Traffic Management Plan is contained in Section 5.4 of the CSMP. Section 5.4.12 and Appendix C of the CSMP was revised on March 22, 2017 (Revision 2) and was submitted to regulatory agencies, governments, and Aboriginal Groups. Revision 2 of the CSMP is available on the Site C Project website. See also comments for EAC condition 35.</p>
EAC 68	<ul style="list-style-type: none"> • Worker Safety and Health Management Plan; 	Ongoing	In Compliance	<p>The Worker Safety and Health Management Plan is contained in CSMP Section 5.5 and its sub-sections. BC Hydro is auditing the implementation of measures in the CSMP by:</p> <ul style="list-style-type: none"> - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety performance and exploring opportunities for improvement - conducting safety audits during construction to verify that requirements of the Plan are being considered and implemented as required.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 68	Each component plan in addition to plan specific conditions in this document must include the following: <ul style="list-style-type: none"> · Clear statement of Objectives; 	Ongoing	In Compliance	BC Hydro has also required that the MCW contractor retain independent third party auditors to conduct safety audits on an annual basis. This condition is being met by BC Hydro. The draft and final CSMPs were submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014 and June 5, 2015, respectively.
EAC 68	<ul style="list-style-type: none"> · Description of potential Project effects and safety hazards, through consideration of baseline conditions and sensitive receptors; 	Ongoing	In Compliance	The draft and final CSMPs were submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014 and June 5, 2015, respectively. The CSMP contains a clear statement of objectives. BC Hydro is auditing the implementation of measures in the CSMP by: <ul style="list-style-type: none"> - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety performance and exploring opportunities for improvement -conducting safety audits during construction to verify that requirements of the Plan are being considered and implemented as required.
EAC 68	<ul style="list-style-type: none"> · Clear documentation of all measures to be implemented and actions to be taken to mitigate potential effects and safety hazards; 	Ongoing	In Compliance	BC Hydro has also required that the MCW contractor retain independent third party auditors to conduct safety audits on an annual basis. Unexpected hazards encountered during construction are communicated to all contractors.
EAC 68	<ul style="list-style-type: none"> · Description of worker qualifications and training requirements pertaining to the Construction Safety Management Plan; 	Ongoing	In Compliance	CSMP requires that workers are appropriately qualified. The audit cycle ensures that this takes place, and WorkSafe BC also audits for compliance with worker

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 68	<ul style="list-style-type: none"> Description of reporting requirements; and 	Ongoing	In Compliance	qualifications. Reporting requirements are being met by: BC Hydro's Incident Management System reporting, weekly reports on upcoming work to WorkSafe BC, and various weekly reports on safety including statistics, monthly business reviews on safety, reviews of incidents and investigations.
EAC 68	<ul style="list-style-type: none"> Process for revising and updating the Construction Safety Management Plan. 	Ongoing	In Compliance	The CSMP is updated as needed and if conditions on site change.
EAC 68	The EAC Holder must provide the draft Construction Safety Management Plan to regulatory agencies, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope and Aboriginal Groups for review 90 days prior to commencement of construction.	Completed	In Compliance	The draft CSMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014.
EAC 68	The EAC Holder must file the final Construction Safety Management Plan with EAO, regulatory agencies, Peace River Regional District, City of Fort St. John and District of Hudson's Hope and Aboriginal Groups 30 days prior to commencement of construction.	Completed	In Compliance	The final CSMP was submitted to regulatory agencies, governments, and Aboriginal Groups on June 5, 2015. Revision 2 of the CSMP was issued March 22, 2017 and contains updates to Section 5.4.12 Traffic Monitoring and Appendix C.
EAC 68	The EAC Holder must develop, implement and adhere to the final Construction Safety Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro is auditing the implementation of measures in the CSMP by: <ul style="list-style-type: none"> - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety performance and explore opportunities for improvement, and - conducting safety audits during construction to verify that requirements of the Plan are being considered and

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 69	The EAC Holder must manage effective environmental protection and management throughout the construction phase by implementing measures detailed in a Construction Environmental Management Plan (CEMP).	Ongoing	In Compliance	<p>implemented as required. BC Hydro has also required that the MCW contractor retain independent third party auditors to conduct safety audits on an annual basis.</p> <p>The draft and final CEMPs were submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014 and June 5, 2015, respectively. Revision 2 of the CEMP was submitted to these same recipients on February 4, 2016. Revision 3 of the CEMP was submitted to the Comptroller of Water Rights on March 31, 2016 as part of discussions related to early leaves to Commence Construction for the Project.</p> <p>Revision 4 of the CEMP was issued on July 26, 2016 and it included a number of minor edits and significant additional requirements related to Erosion and Sediment Control and water quality management. As of March 2017, all Contractors on the Site C Project are working under Revision 4 of the CEMP.</p> <p>BC Hydro is auditing those measures of the CEMP by:- - reviewing EPPs submitted by the contractors and, - conducting environmental inspections during construction to verify that requirements of the Plan are being considered and implemented as required - responding to issues identified by IEM in its weekly inspection reports</p>
EAC 69	The CEMP must be developed by a QEP.	Completed	In Compliance	Section 6.0 of the CEMP lists the QPs who prepared the plan.
EAC 69	The CEMP must provide details on how potential adverse effects will be avoided, mitigated, or compensated.	Completed	In Compliance	The CEMP provides details on how potential adverse effects will be avoided, mitigated, or compensated.
EAC 69	The CEMP must include the following:	Completed	In Compliance	Appendix E of the CEMP contains the Acid Rock

No.	EAC Condition	Implementation Status	Compliance Status	Description
	<ul style="list-style-type: none"> Acid Rock Drainage and Metal Leachate Management Plan; 			Drainage and Metal Leachate Management Plan.
EAC 69	<ul style="list-style-type: none"> Air Quality Management Plan; 	Completed	In Compliance	Appendix B of the CEMP contains the Air Quality Monitoring Program.
EAC 69	<ul style="list-style-type: none"> Blasting Management Plan; 	Completed	In Compliance	Blasting Management is described in Section 4.2 of the CEMP.
EAC 69	<ul style="list-style-type: none"> Contaminated Sites Management Plan; 	Completed	In Compliance	<p>Contaminated Sites Management is described in Section 4.3 of the CEMP.</p> <p>On June 24, 2016, EAO issued an Order regarding implementation measures to control and clean up leaks and spills of hydrocarbon material. This Order was based on site inspections from March 29 to April 1, 2016 and April 26 to 29, 2016. BC Hydro has taken corrective actions required by the Order, including inspecting for leaks to ground daily, containing any leaks and properly disposing of any contaminated soil. Records are also maintained regarding the amount and disposal mechanism.</p>
EAC 69	<ul style="list-style-type: none"> Erosion Prevention and Sediment Control Plan; 	Completed	In Compliance	<p>Erosion Prevention and Sediment Control Management is described in Section 4.4 of the CEMP.</p> <p>Note: On April 7, 2016 and March 3, 2017, the Environmental Assessment Office (EAO) issued two respective Orders regarding compliance with Conditions 2 and 69 of the EAC and the control of runoff and sediment within and adjacent to the L3 ravine. The April 7, 2016 Order required that BC Hydro submit and implement an Erosion and Sediment Control Plan. The March 3, 2017 Order required that BC Hydro submit and implement a Water Quality Management Plan and an assessment of potential effects to fish and fish habitat. BC Hydro has complied with the requirements</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
				of both of these Orders. Refer to EAC Condition 02 for additional information.
EAC 69	· Fisheries and Aquatic Habitat Management Plan;	Completed	In Compliance	Fisheries and Aquatic Habitat Management is described in Section 4.5 of the CEMP. The draft and final Fisheries and Aquatic Habitat Management Plan was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2011, and June 1, 2015, respectively.
EAC 69	· Fuel Handling and Storage Management Plan;	Completed	In Compliance	Fuel Handling and Storage Management is described in Section 4.6 of the CEMP.
EAC 69	· Groundwater Protection Plan;	Completed	In Compliance	Groundwater Protection is described in Section 4.7 of the CEMP.
EAC 69	· Hazardous Waste Management Plan;	Completed	In Compliance	Hazardous Waste Management is described in Section 4.8 of the CEMP.
EAC 69	· Heritage Resources Management Plan;	Completed	In Compliance	Heritage Resource Management is described in Section 4.9 of the CEMP. The draft and final Heritage Resources Management Plan was submitted to the Archaeology Branch of FLNR, and Aboriginal Groups on October 17, 2014, and June 5, 2015, respectively.
EAC 69	· Ice Management Plan;	Completed	In Compliance	Ice Management is described in Section 4.10 of the CEMP. BC Hydro will retain a QP to develop and implement a Head Pond Ice Monitoring Plan for the Stage 2 diversion phase of construction.
EAC 69	· Noise and Vibration Management Plan;	Completed	In Compliance	Noise and Vibration Management is described in Section 4.11 of the CEMP.
EAC 69	· Smoke Management Plan;	Completed	In Compliance	Appendix A of the CEMP contains the Smoke Management Plan.
EAC 69	· Soil Management, Site Restoration, and Revegetation Plan;	Completed	In Compliance	Appendix H of the CEMP contains the Soil Management, Site Restoration, and Revegetation Plan
EAC 69	· Spill Prevention and Response Plan;	Completed	In Compliance	Spill Prevention and Response is described in Section 4.13 of the CEMP.
EAC 69	· Surface Water Quality Management	Completed	In Compliance	Surface Water Quality Management is described in

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 69	Plan; · Vegetation and Invasive Plant Management Plan;	Completed	Partially met compliance	Section 4.14 of the CEMP. Vegetation and Invasive Plant Management is described in Section 4.15 of the CEMP. To date, contractors have completed the following: invasive plant removal through hand pulling, on-going inventories of invasive plant locations, extensive hydroseeding of exposed slopes across the Project area, regular vehicle inspections and cleaning through various methods to ensure vehicles are clean and free of dirt and invasive plants when transitioning between sites and into the Project area. The Main Civil Works contractor has also retained an invasive plant species specialist to advise on invasive plant species management. On March 22, 2017, EAO issued a Section 34 Order regarding compliance with Conditions 9 and 69 of the EAC and implementation measures to prevent the introduction and spread of invasive weeds on the Project. The Order requires that BC Hydro submit and implement an invasive plant mitigation and adaptive management plan to the EAO by April 21, 2017. This plan is currently being prepared by a QP and will be implemented by a QP as required by the Order. The management plan will include herbicide based invasive plant management in the dam site area, and the expansion of the vehicle cleanliness program, including the use of vehicle inspection forms.
EAC 69	· Waste Management Plan; and	Completed	In Compliance	The Waste Management Plan is described in Section 4.16 of the CEMP. Note: on June 24, 2016 issued an Order regarding compliance with Condition 69 and Waste Management and the requirement to properly

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 69	<ul style="list-style-type: none"> Wildlife Management Plan. 	Completed	In Compliance	segregate and dispose of recyclables and waste material. This Order was based on site inspections from March 29 to April 1, 2016 and April 26 to April 29, 2016. BC Hydro has taken corrective actions to audit compliance with this Order, and ensure that recyclables and all waste types are segregated in clearly marked bins; monitors are inspecting daily and maintaining records of inspections.
EAC 69	<ul style="list-style-type: none"> Process for revising and updating the CEMP. 	Ongoing	In Compliance	The Wildlife Management Plan is described in Sections 3.0 and 4.17 of the CEMP and Section 8.6.2 of the VWMMP.
EAC 69	The CEMP is to be prepared by BC Hydro.	Completed	In Compliance	The process for revising and updating the CEMP is described in Section 2.6 of the CEMP.
EAC 69	Detailed Environmental Protection Plans will be developed which must include the following: <ul style="list-style-type: none"> Clear statement of objectives; Description of potential Project effects and safety hazards, through consideration of baseline conditions and sensitive receptors; Clean documentation of applicable legislative requirements that must be adhered to, as well as BC Hydro policies, guidelines and other best management practices that will be followed; Clear documentation of measures to be implemented and actions to be taken to mitigate or compensate potential effects; Description of worker qualifications and training requirements pertaining to each of the plans associated with the Constructive 	Ongoing	In Compliance	The CEMP is prepared by, and has been revised by, BC Hydro. Environmental Protection Plan requirements are detailed in Section 2.4 of the CEMP. BC Hydro audits compliance with this requirement by reviewing contractor EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 69	Environmental Management Plan; and Description of Monitoring and Reporting Requirements. The EAC Holder must provide the draft CEMP to regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Completed	In Compliance	The draft CEMP was submitted to regulatory agencies, governments, and Aboriginal Groups on October 17, 2014
EAC 69	The EAC Holder must file the CEMP with EAO, regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups 30 days prior to the commencement of construction.	Completed	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Aboriginal Groups on June 5, 2015. Revision 2 of the CEMP was issued in February 2016 and Revision 4 (Revision 3 was not formally published) in July 2016.
EAC 69	The EAC Holder must develop, implement and adhere to the CEMP, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro audits compliance with the CEMP by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 70	The EAC Holder must manage Project effects through construction and operations by implementing measures detailed in mitigation and monitoring plans.	Ongoing	In Compliance	BC is implementing mitigation measures as outlined in mitigation and monitoring plans developed to date, as required by the EAC.
EAC 70	Each mitigation and monitoring plan in addition to plan specific conditions in this document must include the following: <ul style="list-style-type: none"> · Plan objectives; · Plan scope; · Mitigation plan details (including details of any sub-components), including a summary of potential Project effects and baseline conditions relevant to the plan and any sub-components, a schedule and a spatial 	Ongoing	In Compliance	Final mitigation plans have been submitted to the EAO in accordance with the requirements of the EAC. These plans address the content requirements set out by the EAC. Plans submitted to date are as follows: <ul style="list-style-type: none"> - Aboriginal Plant Use Mitigation Plan - Aboriginal Training and Inclusion Plan - Agricultural Monitoring and Follow-up Program - Agricultural Mitigation and Compensation Plan Framework - Business Participation Plan

No.	EAC Condition	Implementation Status	Compliance Status	Description
	description of the plan area; <ul style="list-style-type: none"> · Monitoring plan details, where monitoring is required, including parameters to be monitored or measured, a schedule (including frequency and duration), a spatial description of monitoring plan area or sampling locations; and · Description of plan reporting requirements. 			<ul style="list-style-type: none"> - Construction Environmental Management Plan (Rev42) - Construction Safety Management Plan (Rev 2) - Cultural Resources Mitigation Plan - Del Rio Pit Development Plan - Emergency Services Plan - Fisheries and Aquatic Habitat Management Plan - Fisheries and Aquatic Habitat Monitoring and Follow-up Program - Healthcare Services Plan - Heritage Resources Management Plan - Housing Plan and Housing Monitoring and Follow-up Program (Rev2) - Impervious Core Materials Source Development Plan (85th Ave Industrial Lands Detailed Operations Plan) - Labour and Training Plan - Recreation Program - Vegetation Wildlife Mitigation and Monitoring Plan - VCDMP - Vegetation and Wildlife Bald Eagle Mitigation and Monitoring Program - West Pine Quarry Development Plan; and - Wuthrich Quarry Development Plan
EAC 71	The EAC Holder must manage environmental protection and management by implementing measures in the following Development Plans: <ul style="list-style-type: none"> · Del Rio Pit Development Plan; 	Ongoing	In Compliance	The draft and final Development Plans for Del Rio Pit were submitted to regulatory agencies, governments and Aboriginal Groups on April 7, 2015 and June 5, 2015, respectively. The plan sets out the plan purpose, scope, details, safety and environmental management, and site reclamation strategy (as appropriate). To date, no activities have taken place at Del Rio Pit.
EAC 71	<ul style="list-style-type: none"> · Impervious Core Materials Source Development Plan; 	Ongoing	In Compliance	The draft and final Impervious Core Materials Source Development Plan (Detailed Operations Plan for 85th Avenue Industrial Lands) were submitted to regulatory

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 71	<ul style="list-style-type: none"> • Portage Mountain Quarry Development Plan; and 	Not Started	Future Requirement	<p>agencies, governments and Aboriginal Groups on September 21, 2016 and November 22, 2016, respectively. The plan sets out the plan purpose, scope, details, safety and environmental management, and site reclamation strategy (as appropriate). To date, no activities have taken place at 85th Avenue Industrial Lands.</p> <p>Quarry works at Portage Mountain have not yet commenced. A Development Plan will be submitted a minimum of 90 days prior to the commencement of construction activities that require the Development Plan.</p>
EAC 71	<ul style="list-style-type: none"> • Wuthrich Quarry Development Plan. 	Ongoing	In Compliance	<p>The draft and final Development Plans for Wuthrich Quarry were submitted to regulatory agencies, governments and Aboriginal Groups on April 7, 2015 and June 5, 2015, respectively. The plan sets out the plan purpose, scope, details, safety and environmental management, and site reclamation strategy (as appropriate).</p>
EAC 71	<p>Each Development Plan will include the following:</p> <ul style="list-style-type: none"> • Plan purpose; • Plan scope; • Plan details; • Summary of safety and environmental management; and • Site reclamation strategy. 	Ongoing	In Compliance	<p>All Development Plans submitted to date describe the purpose, scope, details, safety and environmental management, and site reclamation strategy (as appropriate).</p>
EAC 71	<p>The EAC Holder must provide the draft Development Plans to regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction</p>	Completed	In Compliance	<p>The draft Development Plans for Del Rio Pit, Impervious Core Materials Source (85th Avenue Industrial Lands), and Wuthrich Quarry, were submitted to regulatory agencies, governments and Aboriginal Groups on April 7, 2015, September 21, 2016 and April 7, 2015, respectively.</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 71	<p>activities that require an applicable Development Plan.</p> <p>The EAC Holder must file the Final Development Plans with EAO, regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups 30 days prior to the commencement of construction activities that require an applicable Plan.</p>	Completed	In Compliance	<p>The final Development Plans for Del Rio Pit, Impervious Core Materials Source (85th Avenue Industrial Lands), and Wuthrich Quarry, were submitted to regulatory agencies, governments and Aboriginal Groups on June 5, 2015, November 22, 2016 and June 5, 2015, respectively.</p>
EAC 71	<p>The EAC Holder must develop, implement and adhere to the Final Development Plans, and any amendments, to the satisfaction of EAO.</p>	Ongoing	In Compliance	<p>Works at West Pine Quarry and Wuthrich Quarry are conducted in accordance with the Final Development Plans. These are the only active quarries to date. The 2016 Annual Summary Reports for West Pine Quarry, and Wuthrich Quarry were submitted to regulatory agencies and Aboriginal Groups on March 31, 2017</p>
EAC 72	<p>The EAC Holder must manage effective communications for the Project by implementing measures in communication plans and a business participation plan.</p>	Ongoing	In Compliance	<p>BC Hydro is meeting this condition (see also Condition 58). The Site C project team is implementing the Construction Communication Plan and Aboriginal Group Communication Plans (dated: June 5, 2015) to ensure that residents, stakeholders and Aboriginal groups are provided with advance notification about construction. The Site C project team is implementing the Business Participation Plan (dated: June 5, 2015) to keep businesses informed and updated on the opportunities associated with the construction of the Project. Examples of implementation measure include: open houses, mail drops, construction updates, First Nations construction notification letters, social media posts, and updates to the project website. Other tactics also being used to provide construction-related and business opportunity information include Council Presentations, Regional Community Liaison Committees, presentations to stakeholders, government relations and property</p>

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 72	The following communication and participation plans are to be developed and implemented: <ul style="list-style-type: none"> Business Participation Plan; Construction Communication Plan; and First Nations Communication Plan. 	Ongoing	In Compliance	owner liaison. The response to Condition 58 and the response to Condition 72 describes compliance with the Business Participation Plan.
EAC 72		Ongoing	In Compliance	See response to Condition 27 (Aboriginal construction communications) and Condition 72.
EAC 72		Ongoing	In Compliance	Condition 27 describes compliance with the Aboriginal Group Communications Plan.
EAC 72	Each plan in addition to plan specific conditions identified in this document will include: <ul style="list-style-type: none"> Clear Statement of Objectives; Audiences; Key activities and tools; and Annual summary reporting. 	Ongoing	In Compliance	Condition 27 describes compliance with the Aboriginal Group Communications Plan.
EAC 73	The EAC Holder must manage worker and public safety throughout the operations phase by implementing measures detailed in an Operations Safety Management Plan that complies with all applicable requirements of statutes, permits, approvals, and authorizations as outlined in Section 35 of the EIS.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro will submit a draft Operations Safety Management Plan, developed by a QEP, to regulatory agencies, governments and Aboriginal Groups, a minimum of 90 days and 30 days, respectively, prior to the commencement of operations.
EAC 73	The Operations Safety Management Plan must be developed by a QEP.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	The Operations Safety Management Plan must include the following component plans: <ul style="list-style-type: none"> Public Safety Management Plan (including the Reservoir Shoreline Monitoring and Management Plan); and Worker Safety and Health Management Plan. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73		Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
EAC 73	Each component plan must include the following: <ul style="list-style-type: none"> Clear Statement of Objectives; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	<ul style="list-style-type: none"> Description of potential Project effects and safety hazards, through consideration of baseline conditions and sensitive receptors; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	<ul style="list-style-type: none"> Clear documentation of all applicable legislative requirements that must be adhered to, as well as BC Hydro policies, guidelines and other best management practices that will be followed; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	<ul style="list-style-type: none"> Clear documentation of compliance and effectiveness monitoring to be undertaken; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	<ul style="list-style-type: none"> Description of worker qualifications and training requirements pertaining to the Plan(s); 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	<ul style="list-style-type: none"> Description of reporting requirements; and <ul style="list-style-type: none"> Process for revising and updating the Operations Safety Management Plan. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	The EAC Holder must provide this draft Operations Safety Management Plan, including all component plans, to regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review a minimum of 90 days prior to the commencement of operations.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	The EAC Holder must file the final Operations Safety Management Plan, including component plans with EAO, regulatory agencies, Peace River Regional District, City of	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	Fort St. John, District of Hudson's Hope and Aboriginal Groups a minimum of 30 days prior to the commencement of operations.			
EAC 73	The EAC Holder must develop, implement and adhere to the final Operations Safety Management Plan, and any amendments, to the satisfaction of EAO.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The EAC Holder must manage to ensure effective environmental protection and management throughout the operations phase by implementing measures detailed in an Operations Environmental Management Plan (OEMP).	Not Started	Future Requirement	BC Hydro will submit a draft and final OEMP, developed by a QEP, to regulatory agencies, governments and Aboriginal Groups, a minimum of 90 days and 30 days, respectively, prior to the commencement of operations.
EAC 74	The OEMP must be developed by a QEP.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The OEMP must include the following plans: <ul style="list-style-type: none"> · Hazardous Waste Management Plan; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	<ul style="list-style-type: none"> · Ice Management Plan; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	<ul style="list-style-type: none"> · Vegetation and Invasive Plant Management; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	<ul style="list-style-type: none"> · Waste Management Plan (including Materials Management); and 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	<ul style="list-style-type: none"> · Water Management Plan. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	Each plan must include the following: <ul style="list-style-type: none"> · A Clear Statement of Objectives; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	<ul style="list-style-type: none"> · Description of potential Project effects, through consideration of baseline conditions and sensitive receptors; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	<ul style="list-style-type: none"> · Clear documentation of all applicable legislative requirements that must be adhered 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	to, as well as BC Hydro policies, guidelines and other best management practices that will be followed;			
EAC 74	<ul style="list-style-type: none"> Clear documentation of compliance and effectiveness monitoring to be undertaken; 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	<ul style="list-style-type: none"> Description of reporting requirements; and 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	<ul style="list-style-type: none"> Process for revising and updating the Plan. 	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The EAC Holder must provide this draft OEMP, including all plans, to regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review a minimum of 90 days prior to the commencement of operations.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The EAC Holder must file the final OEMP, with regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups a minimum of 30 days prior to the commencement of operations.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The EAC Holder must develop, implement and adhere to the final OEMP, and any amendments, to the satisfaction of EAO.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 75	The EAC Holder must provide its on-site project employees, contractors and sub-contractors, prior to those employees, contractors and sub-contractors starting work, with briefings on and copies of Schedule B (Table of Conditions) of the EAC and all Environmental and Safety Management Plans identified in Schedule B that are relevant to	Ongoing	In Compliance	Prior to the start of field activities, Field Crew Supervisors, QEPs and Environmental Monitors attend an environmental overview and training workshop. The workshop includes Briefings and copies of Schedule B (Table of Conditions) of the EAC and all Environmental and Safety Management Plans identified in Schedule B that are relevant to works.

No.	EAC Condition	Implementation Status	Compliance Status	Description
	their works.			Schedule B of the EAC is provided to contractors in the Environment Data Room.
	DAM SAFETY			
EAC 76	The EAC Holder must conduct an assessment of the impacts of a multiple cascading dam breach, in accordance with the Canadian Dam Association Guidelines and BC Hydro's Dam Safety Program,	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 76	and share the results of that study with the Government of Alberta, FLNR and the authorities of the towns that would be affected, prior to the commencement of operations.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 77	The EAC Holder must consult with the Government of Alberta and emergency management officials in Alberta, and FLNR on communication and contingency plans to address the potential occurrences of a multiple cascading dam breach, prior to the commencement of operations.	Not Started	Future Requirement	BC Hydro acknowledges and understands this condition.