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January 21, 2016

Ms. Erica Hamilton Commission Secretary British Columbia Utilities Commission Sixth Floor – 900 Howe Street Vancouver, BC V6Z 2N3

Dear Ms. Hamilton:

RE: British Columbia Utilities Commission (BCUC or Commission) British Columbia Hydro and Power Authority (BC Hydro) PUBLIC Site C Clean Energy Project – Progress Report No. 1 F2016 – Q2 (July to September 2015)

BC Hydro writes to provide its public Site C Clean Energy Project Progress Report No. 1. Commercially sensitive and contractor-specific information has been redacted.

A confidential version of the Report is being filed with the Commission only under separate cover.

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

Yours sincerely,

Tom Loski Chief Regulatory Officer

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Enclosure (1)



Site C Clean Energy Project

Quarterly Progress Report No. 1

F2016 Second Quarter

July 2015 to September 2015

PUBLIC

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1 Project Status

This Quarterly Progress Report No. 1 (**Report No. 1**) provides information concerning the Site C Clean Energy Project (**Project**) covering the period from July 1, 2015 to September 30, 2015.

1.1 Overview and General Project Status

The Project will construct a third dam and hydroelectric generating station on the Peace River in northeast B.C. to provide 1,100 megawatts of capacity, and produce about 5,100 gigawatt hours per year. In December 2014, the Project received approval from the provincial government to proceed to construction. The Project is in Implementation Phase and construction commenced July 27, 2015.

On the north bank of the dam site, construction of access roads is underway, the material disposal site has been prepared and material is now being excavated and moved to the disposal site to stabilize the north bank. On the south bank of the dam site, construction of access roads and a new rail siding has begun. Over 250 hectares of clearing has been completed between the north and south bank of the dam site and logs are being delivered to local mills. On the South Bank, some logs are being temporarily stored until the Peace River Bridge is constructed. In addition, BC Hydro is currently in discussion with a preferred proponent regarding the utilization of waste wood. The site preparation for the Worker Accommodation Camp is underway with site grading and clearing substantially complete, foundation piles and underground utility lines are being installed and a temporary work camp is ready for occupation.

Overall, the progression of work is on track to achieve the BC Hydro Board of Directors (**Board**) approved in-service dates; the first unit is expected to come on line in December 2023 and final Project completion is expected in November 2024. Costs are still forecast to come within the Board approved P50 amount (\$8.335 billion). Table 1 provides a dashboard based on the Project status as at

September 30, 2015.

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Table 1 Project Status Dashboard

● Green: No Concerns; ● Amber: Some Concerns but in Control; ● Red: Serious Concerns

Status as of:		September 30, 2015	Overall:				
Overall Assessment	•	The Project is on track for overall scope and schedule. The track with the Project completion date of November 2024.		on			
Schedule ISDs	•	The overall schedule and progress remains on track to ac planned In Service Dates.	hieve the				
Cost	•	Cashflow projections have shifted out but the overall cost on track:					
		 Total Project cost is still forecast to be within the Board approved P50 amount of \$8.335 billion. This excludes the Treasury Board Reserve of \$440 million. 					
		 Allocations of contingency in respect of Year 1 activities are \$85.9 million 					
		 There have been no draws on reserve to date 					
Environmental	•	No material environmental incidents occurred to September 30, 2015 that required reporting to permitting agencies.					
Risks • All risks are being managed and treatments are in place. For to section <u>4</u> Material Project Risks below.							
First Nations	•	Impact Benefit Agreement (IBA) offers have been made to all Treaty 8 First Nations significantly affected by the Project.					
Regulatory and Litigation	•	Decisions made by the Crown may be subject to additional judicial reviews by First Nations and others who continue to oppose the project.					
Safety	•	Morgan Construction & Environmental Ltd., ATCO Two Rivers Lodging Group and Paul Paquette and Sons have prime contractor responsibilities and are executing all work under their Safety Management Plans.					
		 There were 0 Level 1 & 2 safety incidents in the quarter ended September 30, 2015. 					
		 There were 10 WorkSafeBC Orders written during the reporting period. All were successfully closed within the reporting period. 					

The Board approved In Service Dates for total Project completion November 2024.



1.2 Major Accomplishments, Work Completed, Key Decisions and Key Issues

1.2.1 First Nations Consultation

Pursuant to the Environmental Assessment Certificate and Federal Decision Statement, BC Hydro is required to consult with 13 Aboriginal 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 IBAs with First Nations, and discussions are ongoing with respect to directed procurement.

Four contracts have been awarded to Aboriginal businesses for current work associated with site preparation. BC Hydro is in discussion with other Aboriginal businesses for work scheduled for late 2015 and early 2016.

1.2.2 Litigation

Of seven legal challenges initiated to date, two were discontinued, four were dismissed, one has yet to be heard, and three appeals were filed. The details are summarized in <u>Table 2</u> below.

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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 Assoc.	Dismissed	August 28, 2015					
Prophet River First Nation West Moberly First Nations	Dismissed Appeal filed	August 28, 2015 September 30, 2015					
B.C. Supreme Court : Provincia	I Environmental Assessment Certificate	·					
Peace Valley Landowner Assoc.	Dismissed Appeal filed	July 2, 2015 July 30, 2015					
Prophet River First Nation West Moberly First Nations	Dismissed Appeal filed (Post Reporting Period)	September 18, 2015 October 19, 2015					
B.C. Supreme Court : Provincial Permits							
Prophet River First Nation West Moberly First Nations	Injunction application dismissed Hearing of Petition	August 28, 2015 November 17 to 20, 2015					

* Status of September 30, 2015.

1.2.3 Permits and Government Agency Approvals

Background

In addition to the Environmental Assessment Certificate and the Federal Decision Statement, provincial permits and federal authorizations are required to construct the Project. Timing of the application for these permits and authorizations is staged and aligned with the construction schedule, availability of detailed design information, and by Project component.

Provincial Permits

The strategy for Site C provincial permits involves a phased approach to the submission of applications to the Ministry of Forest, Lands and Natural Resource Operation (**FLNRO**) based on Project components and construction schedule. The

Site C Clean Energy Project

first batch of permits pursuant to the Land, Water, Wildlife, *Forest and Mines Acts* were sought for the dam site area, the reservoir (i.e., for vegetation clearing), and quarries/pits under the *Land, Forest, Water, and Wildlife Acts.* These permits were issued July 7, 2015.

Heritage Conservation Act permits were issued July 14, 2015 and *Mines Act* permits were issued on July 24, 2015. These permits were issued for site preparation activities (i.e., vegetation clearing, road access) which commenced July 27, 2015.

<u>Table 3</u> below provides a list of permits and authorizations that have been issued for site preparation works at the dam site, for vegetation clearing and quarries/pits. Long-term permit requirements such as removal of land from the Agricultural Land reserve and the Water Licence for diversion and storage are also included.

Below is a list of Permits and Authorizations issued for Site Preparation Works at the Dam site, the Water Licence and Agricultural Land Reserve.

Required Permit/Approval	Process Initiation/ Application Date	Approval Date
B.C. EAC	Submitted EIS	October 14, 2014 – EAC
Federal Decision Statement (revised date)	January 2013	November 25, 2014 – FDS
Water Licence-		
Diversion & Storage	2008	Forecast:
Fish Passage	April 2015	December 31, 2015
Crown Land tenures	April 2014	July 7, 2015
Water Act (section 8&9)	April 2014	July 7, 2015
Occupant Licence to Cut	April 2014	July 7, 2015
Mines Act (Notice of Works)	April 2014	July 7, 2015
Wildlife Act	April 2014	July 7, 2015
Heritage Conservation Act	November 2014	July 14, 2015
Fisheries Act Authorization	October 2014	September 30, 2015
Navigation Protection Act Authorization	October 2014	September 29, 2015
Removal of land from Agricultural Land Reserve	December 2014	April 2015

Table 3Site Prep Works Permits and
Authorizations

The Water Licence for diversion and storage is currently under review with the Water Comptroller's office. The review includes a written hearing with two rounds of comments and responses. BC Hydro will submit its final responses by November 20, 2015 to the Water Comptroller.

Federal Authorizations

Navigation Protection Act and *Fisheries Act* authorizations for site preparation works were issued on September 29 and 30, 2015, respectively.

Future Provincial Permits

<u>Table 4</u> below lists the general categories of future provincial permit requirements for the different Project components.

Project Component	Key Permit Requirements	Required Date
Main Civil Works	Water License	December 31, 2015
	1 st Leaves to Commence	April 1, 2016
	Wildlife Act (fish, amphibian salvage)	May 2016
	Water Act (section 8)	July 2017
Highway 29 Re-alignment (Cache Creek section)	Land, Water, Wildlife, Heritage Conservation, Forest Acts	May 2016
	Land, Water, Wildlife, Heritage Conservation, Forest Acts	
Other sections		Fall 2016 and beyond
Transmission	Land, Water, Wildlife, Heritage Conservation, Forest Acts	August 2016
Quarries/Pits	Land, Water, Wildlife, Heritage Conservation, Forest, Mines Acts	Spring 2016
Mitigation Works (e.g., Fish and Wildlife)	Water Act, Wildlife Act	TBD

Table 4General List of Future PermitRequirements

* Dates are preliminary and should not be used for final negotiations or planning purposes.

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, DFO and Transport Canada

Future applications include Land, Water, Wildlife, Forest, Mines, and *Heritage Conservation Act* permits for the Main Civil Works, transmission line, Highway 29 re-alignment, quarries and pits, mitigation and monitoring works (e.g., fish contouring for minimizing the risk of fish stranding). Weekly meetings with FLNRO are continuing to ensure that these future applications meet the scheduling needs of the Project.

BC Hydro and FLNRO meet weekly to discuss the permit application process, time required for review and consultation with Aboriginal groups, the status of specific applications and when permits will be issued to minimize the risk of delay to construction.

Given the extensive consultation required with First Nations, the level of detailed technical information required and the timing and capacity of resources available to review permit applications, a review by senior officials at Forest, Land and Natural Resource Operations and BC Hydro is underway. It is expected that resources from Forest, Land and Natural Resource Operations will be required to clarify the technical requirements and simplify documentation to further enhance the consultation process with First Nations.

Future Federal Authorizations

The *Navigation Protection Act* application for construction and reservoir filling is complete and Transport Canada will be issuing authorizations and consulting on components. For the *Fisheries Act* authorization, BC Hydro initiated first steps and submitted a Request for Review for Major Civil Works on September 22, 2015, and is preparing the application which also includes reservoir filling. Regular meetings are scheduled with Department of Fisheries and Oceans and Transport Canada.



1.2.4 Engineering and Construction

1.2.4.1 Engineering

The Engineering team assisted with issuing the Main Civil Works technical addendum, including the schedule of quantities and prices at the end of July 2015. In addition, an Engineers Estimate was prepared based on the Main Civil Works specifications, drawings and draft Contract. The first set of Construction drawings will be issued on Contract Award.

The implementation design of the Generating Station and Spillway commenced in September 2014 and is expected to continue through 2023. Hydraulic model testing of the spillway, approach channel, power intakes and tailrace was completed over a three year period from May 2012 to July 2015, when the physical models were decommissioned. The final report is near completion, pending a final review by the Site C Integrated Engineering Team.

Proposals were received for the Turbine-Generator contract in July 2015. Testing of the turbines in the independent model testing facility also commenced in July and is expected to be completed by the end of December 2015.

Definition design for the 500 kV transmission lines (5L5 and 5L6), Peace Canyon 500 kV Gas Insulated Switchgear and Site C Substation commenced in April 2015 and is expected to conclude in November 2015. Implementation design for the construction power, construction telecom and temporary substation commenced in January 2015 and is expected to conclude in December 2015.

1.2.4.2 Construction

Construction for the Site C project commenced July 27, 2015 with initial site preparation work, including the mobilization of contractors to site along with installation of access gates and signage. Construction activity has steadily increased and there are now approximately 665 workers involved in Site C project construction over the month of September. Refer to <u>Table 5</u> below for the preliminary construction schedule.

Table 5

Preliminary Construction Schedule

Construction Activity	2015	2016	2017	2018	2019 1 2 3 4	2020	2021	2022	2023	2024
Dam Site Area	1 2 3 4 2015	1 2 3 4 2016	1 2 3 4 2017	1 2 3 4 2018	1 2 3 4 2019	1 2 3 4 2020	1 2 3 4 2021	1 2 3 4 2022	1 2 3 4 2023	1 2 3 2024
Clearing: dam site	2013	2010	2017	2010	2017	2020	2021	2022	2023	2024
Access roads near dam site	_	_								
Worker accommodation		_								
	_	_								
Temporary construction bridge Excavation and material relocation	_									
Cofferdams and diversion tunnels	_	_						_		
Earthfill dam		_	_		_			_		
Roller-compacted-concrete buttress		_	_							
Generating station and spillways			_	_		_				
Turbines and generators (installation)			-	_					-	
Sub-station			_	_	_					
Viewpoints construction/landscaping		_								
									_	
Demobilization and site reclamation Roads and Highways	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	2015	2010	2017	2018	2017	2020	2021	2022	2023	2024
Public road improvements	_									
240 Road										
269 Road										
271 Road		-								
Old Fort Road	_	-								
Highway 29 realignment										
Bear Flat/Cache Creek			_	_						
Halfway River										
Dry Creek										
Farrell Creek										
Farrell Creek East										
Lynx Creek										
Peace River / Reservoir Area	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Public Safety Buoys										
Clearing: east end of reservoir										
Clearing: lower reservoir to Cache Creek										
Clearing: Cache Creek to Halfway River										
Clearing: Halfway River to Hudson's Hope										
River diversion										
Reservoir filling and operations										
Transmission Lines	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Transmission line construction										
Extension of Peace Canyon switchyard										
ludson's Hope Shoreline Protection	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
DA Thomas Road upgrades										
Hudson's Hope Berm										
Production & Transport of Materials	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
85 th Avenue Industrial Lands										
Del Rio Pit										
Portage Mountain Quarry										
West Pine Quarry										
Wuthrich Quarry										

The construction schedule is indicative only and subject to change. The purpose of the schedule is to illustrate the general sequence of construction activities, but the dates and schedule may change.

* Schedule as of July 2015.



North (Left) Bank Site Preparation

Clearing, vegetation removal and grading was started in August 2015 on the north bank of the dam site to create space for new access roads, worker accommodations and material excavation and disposal area.

- Construction of the North Bank Access Road and River Road commenced in August and is progressing according to plan;
- Approximately 161 of 220 hectares have been cleared on the North Bank and is progressing according to plan; and
- Preparation of the left bank excavation area and the material disposal area commenced in August 2015. About 200,000 cubic meters of excavated material has been placed in the disposal area.

South (Right) Bank Site Preparation

South Bank site preparation work has commenced in September 2015 and includes vegetation clearing, construction of new access roads, a temporary sub-station pad, and a new rail siding.

- About 250 of 620 hectares have been cleared on the South Bank and progressing ahead of plan; and
- The new Septimus rail siding is progressing slower than planned because of some challenging soil conditions but is expected to be completed on time.

Worker Accommodation

A Limited Notice to Proceed was issued to the contractor in June 2015. This allowed the contractor to conduct site surveys and other investigative works and to advance the design development and construction planning.

• The contractor commenced on-site construction on August 5, 2015 with clearing and site grading activities. Site grading is expected to be completed on time. Approximately 200,000 cubic metres of site grading is complete;

- Manufacturing dormitory units started in August and the first units are expected to be completed for transport by October 2015;
- Underground utilities including water and sewer lines are being installed.
- A temporary 300 person work camp has been installed for the contractor's workers and is ready to be occupied; and
- The Worker Accommodation contract was executed in September 2015.

Ministry of Transportation and Infrastructure Public Road Upgrades

The Ministry of Transportation and Infrastructure's awarded a contract to AI Simms and Sons for the public road improvements on 240 Road and 269 Road. This work is planned to be completed in November 2015.

Main Civil Works

The scope of the Main Civil Works contract is described in <u>Table 6</u>. It includes the construction of the following major components:

Component	Description
Diversion works	Two approximately 11 metre diameter concrete-lined tunnels approximately 750 metres in length
Excavation and bank stabilization	Approximately 26 million cubic metres of overburden and rock excavation
Relocation	Relocation of surplus excavated material (including management of discharges
Dams and Cofferdams	A zoned earth embankment 1,050 metres long and 60 metres above the present riverbed and stage 1 and 2 cofferdams
Roller-Compacted Concrete	Buttress - 800 metres long with 2 million cubic metres of concrete

Table 6	Scope	of Main	Civil V	Norks	Contract
	JUDDE			VUINS	Contract

It is anticipated that the contractor would mobilize to site soon after contract award (January 2016) and be on-site until the end of 2024. The anticipated timeline of major construction milestones is outlined in Table C-2 in Appendix C.

Quality Management

Implementation and monitoring of Quality Control and Quality Assurance Plans are required of all contractors. <u>Table 7</u> below identifies quality management non-conformity instances during the quarter ended September 30, 2015.

Contract	Contractor	Reported this period	Closed this period	Reported to date	Closed to date
North Bank Site Preparation	Morgan Construction & Environmental	2*	0	2	0
South Bank Site Preparation	Duz Cho Construction	0	0	0	0

Table 7Quality Management Non-Conformity
Report Metrics

The two non-conformity incidences reported include: Testing Frequency and Embankment Fines Content.

1.2.5 Safety

There has been one contractor fatality since the start of construction due to personal health issues. Another worker suffered a serious health event and required emergency services. Neither event was related to work standards.

A public fatality also occurred in conjunction to a Project Open House event in Dawson Creek in July. The deceased individual was believed to be targeting the open house with public mischief intent and was engaged by police outside the Project's open house event. BC Hydro staff and contractors inside the open house remained safe, and counselling services were made available in the weeks following the event. An internal BC Hydro safety investigation was also undertaken with recommendations relating to monitoring, security and safety for future engagements and meetings with stakeholders and the public. Response to this event has included escalation of security at the construction site and other key locations. <u>Table 8</u> below presents the safety metrics accumulated across all project activities commencing with the start of construction in July 2015.

Table 8 Safety Metrics	5	
Description	Reported this period	Reported since inception
Fatality & Serious Injury ¹	0	0
Severity (number of calendar days lost due to injury per 200,000 hours worked)	2	2
Lost Time Injury Frequency (number of injuries resulting in lost time per 200,000 hours worked)	2	2
Contractor near miss reports	10	10
Lost time incidents	2	2
Equipment/property damage reports	1	1

1. Of the contractor near miss reports, 70 per cent were Level 3 type (lowest severity), and 60 per cent of the reports related to equipment or vehicle use.

1.2.6 Environment

Mitigation, Monitoring and Management Plans

In accordance with Environmental Assessment Certificate conditions, environmental management, mitigation and monitoring plans have been developed. Draft plans were submitted to regulators, local governments and potentially affected Aboriginal groups. Comments were incorporated into the final plans, which were submitted on June 5, 2015. The list of plans is as follows:

- Aboriginal Plant Use Mitigation Plan
- Aboriginal Training and Inclusion Plan
- Business Participation Plan¹
- Construction Environmental Management Plan
- Construction Safety Management Plan
- Cultural Resources Mitigation Plan
- Emergency Services Plan
- Fisheries and Aquatic Habitat Management Plan

¹ Excludes health events unrelated to work standards.



- Healthcare Services Plan
- Heritage Resources Management Plan
- Housing Plan and Housing Monitoring and Follow-Up Program
- Labour and Training Plan
- Vegetation and Wildlife Mitigation and Monitoring Plan
- Vegetation Clearing and Debris Management Plan

Additional plans are in the development process, as required by Environmental Assessment Certificate conditions. The Fish and Fish Habitat Monitoring and Follow-up Program and the Agriculture Monitoring and Follow-up program are in final stages of preparation and will be submitted to regulators on October 23, 2015.

Overall, a compliance database has been developed to monitor and track compliance with all Environmental Assessment and permit conditions. The database is undergoing quality assurance review and supporting evidence and data is being compiled to support future reviews and provide regular reporting.

Environmental Compliance Inspections

Inspectors from Environmental Assessment Office, Canadian Environmental Assessment Agency and Forest, Land and Natural Resource Operations attended a two day inspection of Site C construction on September 22 to 23, 2015. The inspection included a Site C orientation, an overview of the whole project and detailed discussion of current activities, including permit requirements. The following potential compliance concerns were noted at meetings following the inspections:

- Erosion and Sediment Control in L3 Ravine
- Erosion and Sediment Control on South Bank
- Many large areas of open soil that could become infested by invasive plants



- Spill Kits not in all vehicles
- Wildlife Attractants
- Speed limits are not posted on the north bank
- Some wood debris piles may not meet the spacing requirements for burning

Preventive and corrective actions will be implemented to address these concerns.

The inspectors noted the following good practices:

- "Inspected Leak and Weed Free" stickers on Paul Paquette and Sons vehicles;
- Water Act Section 8 permits and water withdrawal logs on water trucks;
- If workers and staff didn't know the answer to a question, they didn't guess at the answer and referred to someone who has the knowledge to provide a correct response; and
- Site C compliance data base instills confidence that the owner is aware of the requirements and is working to meet them.

Inspections are expected to take place twice per year and are over and above the independent environmental monitoring for the project.

Heritage

In accordance with a number of Environmental Assessment Conditions and the Federal Decision Statement, 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. Measures that were taken in the last quarter included ongoing work in the 2015 Heritage Work Plan set to be completed by late October. The work included archaeological impact assessments and systematic data recovery at known heritage sites in the Project Area Zone in accordance with B.C. *Heritage Conservation Act* requirements.

In addition, where known archaeological sites were altered through construction activities and where required by the *Heritage Conservation Act* Site Alteration Permit, mitigation involving concurrent monitoring or surface inspections of known archaeology sites was performed.

Stakeholder Consultation for Agricultural Mitigation and Compensation Plan

Agricultural stakeholder consultation is being planned to address Environmental Assessment Certificate Condition 30 requirements and to support the development of the Agriculture Mitigation and Compensation Plan. BC Hydro has established a Consultation Steering Committee comprised of staff from BC Hydro, the Ministry of Agriculture, and the Ministry of Energy and Mines to guide consultation. A discussion guide and feedback form is being developed to include information items and consultation topics that will inform stakeholders and request feedback on the proposed framework for the Agricultural Mitigation and Compensation Plan Framework, and proposed options for the structure of the \$20 million Agricultural Compensation Fund, including governance, eligibility criteria, and payment stream options.

The consultation period is planned for November 2015 to the end of January 2016 to accommodate the seasonal availability of farmers and the agricultural industry. Groups invited to participate in consultation will include: Regional agricultural associations; regional governments, agencies, research and educational organizations; affected agriculture land owners and tenure holders, and First Nations groups.

Following the consultation period, a Consultation Summary Report and Consideration Memo will be produced documenting input received from agricultural stakeholders during the consultation period. The input received will be considered in the development of the Agricultural Mitigation and Compensation Plan framework, and in the subsequent preparation of the draft and final plan.

1.2.7 Employment

During the first three months of construction, activity generally consisted of site preparation, public road improvements and construction of the worker accommodation facility.

There were approximately 665 workers involved in Site C project construction over the month of September including construction, monitoring, environmental mitigation and studies, public road improvement and on-site construction management. Of these 665 workers, approximately 475 were from B.C. Employment will continue to ramp up as construction progresses over the coming months and years. Refer to <u>Appendix E</u> for workforce information.

Contractors will post Site C employment opportunities on the WorkBC website. This provides a central repository for all Site C job opportunities, including apprenticeship opportunities. Prospective candidates can access information about available Site C job opportunities on the WorkBC website as well as BC Hydro's Job Opportunities section on the Site C Project website.

BC Hydro, through commercial contracts, requires contractors to collect and to provide certain worker information data, including the number of workers being hired, their job categories and the number of apprentices/trainees. BC Hydro is currently working with contractors to implement a process that will enable this worker information data to be collected and submitted to BC Hydro electronically on a monthly basis. It is expected that contractors will submit their monthly data by mid-month of the following month. Upon receipt of this data, BC Hydro will collate the data received in order to report on the progress being made in the following areas:

- Diversity (i.e., underrepresented groups Aboriginals, women, visible minorities, persons with disabilities) as reported by major contractors; and
- B.C. hires as reported by major contractors.

Statistics collected will identify the number of workers, by job category as well as the number of apprentices/trainees, as reported by major contractors. BC Hydro expects to be in a position to provide specific data around these foregoing items by the next quarterly reporting period.

1.2.8 Community Engagement & Communication

Local Government Liaison

BC Hydro concluded community measures agreements with the District of Taylor (January 2014) and the District of Chetwynd (January 2013). BC Hydro met with senior staff from the District of Taylor and the District of Chetwynd to review the implementation status of their respective community measures agreements and provided each community with an update report documenting that status.

Throughout spring and summer 2015, BC Hydro staff presented to municipal councils to provide project updates for the communities of Fort St. John, Taylor, Hudson's Hope, Peace River Regional District (**PRRD**), Chetwynd, Tumbler Ridge, Prince George, Pouce Coupe and Mackenzie. Final discussions are underway with the City of Fort St. John to achieve a legal agreement addressing community mitigation measures. Negotiations are also continuing with the District of Hudson's Hope and the PRRD to achieve an agreement to address community mitigation measures primarily during the construction period. A separate Legacy Benefit Agreement was reached with the PRRD in 2014 that will provide legacy benefit payments for 70 years once the Project is operational.

Business Liaison and Outreach

Job Fairs were originally scheduled in the last week of July in Tumbler Ridge, Chetwynd and Fort St. John, but were postponed due to the security incident at the public open house in Dawson Creek. Following a security review and an updated security plan, the Job Fairs were then planned in combination with Business-to-Business Networking sessions in the same communities from October 5 to 8, 2015.

Community Relations and Consultation

A public information program and open houses to communicate upcoming Site C construction activities commenced in early July. Open Houses were held in Taylor, Fort St. John, Chetwynd, Hudson's Hope and Dawson Creek. This program was supported by broad notification including advertisements, a four-page brochure that was delivered to households in the region, a new Construction Activities section of the project website and media relations. With construction underway, Construction Bulletins are now issued every two weeks and posted to the new Construction Activities section of sitecproject.com. As of September 30, 2015, there are 2,013 subscribers who receive Construction Bulletins, and 4,203 who receive overall project updates.

Public enquiries have increased with the vast majority focused on jobs and business opportunities, but also some initial complaints about construction impacts, including noise. From July 1 to September 30, there have been a total of 622 public enquiries. Of these, 83 per cent of the enquiries were related to seeking a job on the construction of Site C (389 enquiries) or seeking business opportunities with the project (134 enquiries). 20 enquiries were complaints about construction including noise and traffic and the balance were general enquiries such as presentation requests, and questions about project timelines and procurement.

Enquiries come into BC Hydro via email (<u>sitec@bchydro.com</u>), phone calls and visitors to consultation office in Fort St. John, and enquiries from project team members or local MLAs.

Communications and Government Relations

Media coverage of the Site C project has remained steadily high with an average of 209 media stories per month from July to September. A brochure titled '60 Days of Construction' was published during the week of Union of B.C. Municipalities to highlight the construction progress and number of jobs and contractors on site.

Public enquiries have increased, with the vast majority focused on jobs and business opportunities, but also with some initial noise complaints.

Housing Plan and Housing Monitoring and Follow-Up Program

BC Hydro has established Memorandum of Understanding agreements with the following three organisations to support the provision of emergency or transitional housing:

- \$25,000 to Skye's Place, a second stage housing program for women with children who are leaving abusive relationships;
- \$25,000 to the Meaope Transition House for Women that provides a 24-hour safe and secure shelter for women who are victims of violence or abuse, and their children; and
- \$200,000 to the Salvation Army Northern Centre of Hope to support shelter and transitional beds.

These agreements commit a total of \$250,000 to support emergency or transitional housing providers in the City of Fort St. John. Once funds are transferred, BC Hydro will have addressed Measure 5 of the Housing Plan: Emergency or Transitional Housing Provider Contribution and Condition 48 of the Environmental Assessment Certificate.

In accordance with Environmental Assessment Certificate Condition 48, BC Hydro is to expand affordable rental housing supply in Fort St John by building 50 rental units to be owned and operated by BC Housing and with 40 units to be used by Site C workers until the project construction is complete. Upon completion of Site C, the 40 worker housing units will be made available to low/moderate income households.

In April 2015, BC Housing completed a Request for Information seeking to understand market capacity for construction of energy efficient housing and availability of a suitable site for 50 units. BC Housing reviewed the findings of the Request for Information with BC Hydro and stated they were satisfied that there is



sufficient capacity in the market for construction of an R2000 energy efficient building and adequate available sites.

Labour and Training Plan

In accordance with Environmental Assessment Condition 53, BC Hydro is to provide additional day-care spaces in Fort St. John to increase spousal participation in the labour market. BC Hydro will provide a capital funding contribution toward a new facility or expansion of an existing facility to include approximately 37 daycare spaces.

BC Hydro has initiated discussions with the Ministry of Education regarding locating child care at a new elementary school that the Ministry is building in Fort St John.

Health Care Services Plan and Emergency Service Plan

BC Hydro has begun work with the Northern Health Authority on the development of scope for a Project Health Clinic service provider. In addition, the Project team has met with B.C. Ambulance Service local staff to provide information about the Project's plan for first aid and emergency transport of workers and receive feedback on plans for health care services for Project workers.

Properties Acquisitions

As of September 30, BC Hydro has entered into agreements with three of six land owners, and is continuing negotiations with the remaining three owners for the land required by end of 2015. Settlements are expected to be achieved by the end of October 2015. In this reporting period, the properties team also secured 53 of 53 consents and six of nine right away agreements for upgrades to the BC Hydro distribution lines, with the final three agreements expected in October.

1.3 Key Procurement and Contract Developments

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 <u>Table 9</u> below.

Component	Contract	Procurement Model	Anticipated Timing
Worker Accommodation	Worker Accommodation and site services contract	Design-Build-Finance-Operate-M aintain	Completed
Earthworks	Site Preparation contracts	Predominantly Design Bid Build	Various, through F2016
	Main Civil Works contract	Design-Bid-Build	Contract Award: Q4 F2016
Reservoir Clearing	Multiple reservoir clearing contracts to be awarded over 7-8 years	Design-Bid-Build	One agreement awarded for the Lower Reservoir
Generating Station and Spillways	Turbines and Generators contract	Design-Build	Contract Award: Q4 F2016
	Generating Station and Spillways contract	Design-Bid-Build/ Design-Build	Commence: Q1 F2017
	Powertrain Balance of Plant Equipment Supply	Supply Contracts	Commence: 2017 – 2018
	Completion Contract (Powertrain Balance of Plant Equipment Installation)	Install Contract	Commence: 2019
Electrical and Transmission	Transmission Lines contract	Design-Bid-Build	Various, through F2017
Infrastructure	Site C substation contract	Design-Bid-Build	F2017
	Peace Canyon Substation upgrade contract	Design-Build	Contract Award: Q1 F2017
Highway 29 Realignment	Design-Bid-Build in partnership with E anticipated award of the first contracts 2018 - 2019.		

Table 9Major Project Contracts and Delivery
Models

1.3.1 List of Major Contracts Awarded in the Quarter

Since inception of the Project, two major contracts (i.e., greater than \$50 million in value) have been awarded: Worker Accommodation and Site Preparation: North Bank. Both 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 <u>Table 10</u> below.

Table 10 Major Project Contracts Awarded				
Work Package	Contract Value (\$ million)	Current Status		
Site Preparation: North Bank	52	Contract executed July 2015.		
Worker Accommodation	464	Contract executed September 2015		

The major contracts expected to be awarded in the next three to six months include the Main Civil Works and Turbine and Generators. Both of these work packages are being procured through a public competitive process and are currently under evaluation. In the fall of 2016, procurement of two major work packages will commence; Generating Station and Spillway and Hydromechanical equipment.

1.3.2 Large Contracts to Date

BC Hydro has provided a table in <u>Appendix B</u> which shows the breakdown to date of the contracts awarded in excess of \$10 million and cumulative variances.

1.3.3 Contract Management

1.3.3.1 Material Changes to the Major Contracts

There have been no material changes to the Major contracts to date.

1.3.3.2 Contingency and Project Reserve Draws

A total of \$85.9 million of project contingency has been approved for allocation to work packages to date (refer to Table D-3 in <u>Appendix D</u>). The project budget includes contingency of \$620 million (in 2010 dollars), \$679 million (in 2014 dollars), or \$794 million in nominal dollars (refer to <u>Appendix D</u>).

The project reserve is held by Treasury Board in the amount of \$440 million. There have been no draws on Treasury Board reserve to date.

1.4 Plans During Next Six Months

The key milestones for the next six months are listed in <u>Table 11</u>.

Milestone	Plan Date ²	Forecast Date	Float (months)	Status
Limited Notice to Proceed for Major Civil Works	November 2015	December 2015	-1	Delayed
Leave to Commence for Major Civil Works	April 2016	April 2016	0	On Track
Peace River Temporary Bridge Complete	May 2016	March 2016	2	Ahead of Plan
Worker Accommodation – Phase One	February 2016	February 2016	0	On Track
Award Turbines & Generators Contract	March 2016	March 2016	0	On Track
Site Clearing North Bank	March 2016	March 2016	0	On Track

Table 11Key Milestones

1.5 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.

1.6 Site Photographs

Refer to <u>Table 12</u> for site construction photographs.

² Based on plan at Final Investment Decision, December 2014.



Project Schedule 2

2.1 **Project In Service Dates**

BC Hydro currently shows all in service dates on track per Table 12.

Description/Status	Planned ISD ³	Status and Comments (e.g., complete, on schedule, delayed, possibly delayed, probable delayed)
Peace Canyon Gas Insulated Switchgear	February 2019	On Track
5L5 500 kV Transmission Line	October 2020	On Track
Site C Substation	November 2020	On Track
5L6 500 kV 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

Table 12 **Project In-Service Dates**

The approved Final Investment Decision schedule involved the first unit coming into service in December 2023. Subsequent to the decision, activities have been accelerated in order to mitigate schedule risk.

Based on plan at Final Investment Decision, December 2014.

3 **Project Costs and Financing**

3.1 **Project Budget Summary**

<u>Table 13</u> below presents the overall Project Budget, based on the Final Investment Decision (December 2014), represented in nominal dollars.

Description	Capital Amount (Nominal \$ million)
Dam, Power Facilities, and Associated Structures	4,120
Offsite Works, Management and Services	1,575
Total Direct Construction Cost	5,695
Indirect Costs	1,235
Total Construction and Development Cost	6,930
Interest During Construction	1,405
Project Cost, before Treasury Board Reserve	8,335
Treasury Board Reserve	440
Total Project Cost	8,775

 Table 13
 Project Budget Summary

3.2 **Project Expenditure Summary**

<u>Table 14</u> provides a summary of the Board approved *total* Project cost, the current forecast *total* Project cost and the variance between the two; and the plan *to date* amounts based on the Board approved cost schedule, the actual costs *to date* and the variance between the two.

Description	Board Approved (Plan)	Forecast	Forecast vs Plan	Plan to Date	Actuals to Date	Actuals vs Plan to Date
Total Project Costs ¹	8,335	8,335	-	502	522	(20)
Treasury Board Reserve	440	440	-	-	-	-
Authorized Project Cost	8,775	8,775	-	502	522	(20)

Table 14Total Project Expenditure Summary
(Nominal \$ million)

Includes Net Book Value of Impact Benefits Agreements (IBA)-related costs.

Variances are primarily due to commencement of some design and site preparation efforts earlier than scheduled, offset by delays in purchase of properties. Further explanations are in the confidential filing of the cost breakdown in <u>Appendix D.</u>

3.3 Internal Project Financing versus External Borrowings To Date

To date, all project funding has been from internal borrowings. There have been several discussions with BC Hydro's Board, the Debt Management Branch, the past Deputy Minister of Finance and Treasury Board Staff on a debt hedging strategy for BC Hydro's borrowing requirements (which include expenditures related to Site C) over a ten-year period. In addition to portfolio adjustments that are currently being implemented whereby BC Hydro is reducing its exposure to variable rate debt and increasing its issuance of fixed rate debt, a strategy has been developed that recommends hedging 50 per cent of BC Hydro's future forecasted borrowing requirements from F2017-F2024 through the use of derivative contracts. A decision has been made to apply to the British Columbia Utilities Commission (**BCUC**) for a new Debt Management Regulatory Account that will capture the mark to market gains and losses related to the hedging of future debt issuance. BC Hydro is currently working on the application and plans to file with the BCUC in December 2015.

4 Material Project Risks

This section describes the material Project risks that have high residual exposure to BC Hydro. Commercially sensitive numbers and content, and/or content that could be seen to prejudice BC Hydro's negotiating position, are redacted in the public version. Note that the residual consequence and residual probability levels are qualitative assessments. Refer to <u>Table 15</u> for a list of risks.

	Table 15 Material Project Risks	
Risk Event / Description	Risk and Response Summary	Trend in Risk Exposure
Delay to Permitting	Permits and licences are still required for several portions of construction activity. Delays to these permits and licences will result in delays to the associated construction work. BC Hydro continues to consult with federal and provincial authorities, local government and First Nations to mitigate this risk. Awaiting the outcome of the judicial review of permits as described below. If BC Hydro is unsuccessful, this could result in a delay to the work underway and claims arising.	→
Litigation	BC Hydro, the Province, and the Federal Government have all been subject to legal proceedings seeking to overturn the Environmental Assessment Certificate, the Federal Decision Statement, and specific permits. The governments and BC Hydro have been successful in five proceedings to date (four judicial reviews and one injunction application dismissed). Three appeals have been filed in respect of the judicial review decisions (one federal and two provincial). A judicial review of the provincial permits issued in summer 2015 was also filed and will be heard in November 2015. The B.C. Building Trades union filed a lawsuit regarding the labour approach to Site C. However, this lawsuit is on hold as a result of the signing of a Memorandum of Understanding (refer to Labour Relations below) and has not progressed to a hearing. There is a potential for additional legal proceedings. If any are	→
First Nations	successful, there may be delays. BC Hydro has reached agreement with two First Nations on IBA term sheets, with ratification by the First Nations. One other First Nation has signed a term sheet but has since indicated they will not hold to it. BC Hydro is in active negotiations with four other First Nations on IBAs and has circulated draft IBA term sheets to these First Nations. Note that progress on IBAs with First Nations reduces the potential for future legal proceedings.	↓
Market response to procurement	If strong competition does not occur during procurement, there could be higher premiums, mark ups and overall prices on labour and materials. Risk has been mitigated via market soundings, robust Request For Quotation process, honorariums for successful bidders, etc. All three major procurement processes initiated to date (WA, MCW, T&G) have had excellent response with two procurements now in the Request for Proposal evaluation stage and one contract awarded. Market response risk will continue to be monitored and could be impacted if the project construction start is delayed significantly.	↓

Risk Event / Description	Risk and Response Summary	Trend in Risk Exposure
Labour Relations & Stability	BC Hydro is using an inclusive labour approach with a managed open site. This allows for participation by all union and non-union labour groups and allows access to the largest pool of skilled and experienced labour. BC Hydro and B.C. Building Trades secured an agreement to achieve labour stability and a mix of labour representation on site, including building trades unions. BC Hydro agreed to provide greater weight on bids with a mix of labour representation (including Building Trades unions) to the extent that it adds to labour stability. B.C. Building Trades agreed to no strike, no lockout, and no raiding provisions for work done by the Building Trades on the Main Civil Works	-
	contract. BC Hydro has noted active organization attempts by several labour organizations regarding work underway at the project site. This activity creates a risk of a work disruption or complaints to the Labour Relations Board. BC Hydro is managing this risk through consistent treatment of all labour organizations and ensuring that organization activities do not occur on the project site itself except as provided for under the Labour Relations Code. BC Hydro will have more information on this risk when the preferred proponent (and the accompanying labour strategy) is identified for the Main Civil Works contract.	
Geotechnical risks	Key Geotechnical risks include unexpected shears encountered during construction; deeper than expected relaxation joints; bedding planes worse than expected; larger than expected deterioration of shale bedrock once exposed during construction; and Rock Rebound/Swell. Current strategies to mitigate geotechnical risks include: Complete field investigations to aid in the identification of shears, relaxation joints, and bedding planes. Use of conservative design principles for the slope of excavation surfaces, grout curtains, and shear strength assumptions. Transfer some degree of ground condition risks to the Contractor. Design contracts which allow the contractor to respond to unexpected ground conditions (potentially through pre-agreed pricing). Conduct field-scale trials to determine the response when shale bedrock is exposed to the elements. These risks have not changed substantially since Final Investment Decision (FID) as there has not been sufficient excavation to date. Once the MCW contract is underway and beginning excavation BC Hydro will have additional information about this risk.	•

Risk Event / Description	Risk and Response Summary	Trend in Risk Exposure
Construction cost – labour	Potential cost increases could arise if there is competition with other projects for labour resources, labour instability, or changing workforce demographics. BC Hydro is partially mitigating this risk through regional job fairs to increase local participation and investments in skills training (\$1.5 million invested to date). This risk is also partially mitigated by consideration of labour stability during contractor selection. Based on current market conditions in the infrastructure and energy sector BC Hydro believes that the risk of unexpectedly high labour prices has decreased. There remains the potential for market conditions to shift in the future and this	↓
	risk to increase. BC Hydro anticipates having more information on this risk in mid to late 2016 once the Main Civil Works contractor has progressed on recruitment.	
Construction cost – commodities and equipment	Potential cost increases could arise if market prices for key commodities and equipment increase, or if overall market activity results in higher contractor profit margins. BC Hydro has completed procurement for several contracts associated with early works and the Worker Accommodation, and does not see early indications on market price pressures at this point. More information will be available upon conclusion of other major contracts (MCW, T&G) BC Hydro retains exposure to fuel prices (generally diesel), which have decreased compared to prices in the budget. Fuel prices may increase in the future due to global market forces. BC Hydro will consider the potential to hedge these prices, where appropriate. Canada has applied a duty to rebar from specific countries that may add approximately \$20 million in cost to the Site C project. The risk of this duty is subject to a Trade Tribunal decision that is expected to be rendered later this year. Any incremental costs relating to the Trade Tribunal decision would be accommodated through allocations from Project Contingency or Treasury Board reserve, as appropriate. Based on current market conditions in the infrastructure and energy sector BC Hydro believes that the risk of unexpectedly high market prices has decreased. There remains the potential for market conditions to shift in the future and this risk to increase. BC Hydro anticipates having more information on this risk in early to mid-2016 once the Main Civil Works contractor has been selected.	¥



Risk Event / Description	Risk and Response Summary	Trend in Risk Exposure
Construction execution.	Contractors may be unable to execute successfully on scope of contract with resulting costs to BC Hydro. Mitigation is via: Robust procurement processes to determine whether contractors have the capability to undertake their scope of work A cross-functional construction readiness review to confirm contractor and BC Hydro readiness before authorizing the start on any specific scope of work BC Hydro increased on site supervision to address recent environmental compliance issues BC Hydro step-in rights under contracts to allow for correction in the case of contractor failure	→
Foreign exchange	Some of Site C project costs are in foreign currency, and will be affected by fluctuations in the exchange rate between the Canadian Dollar and these foreign currencies. Approximately 20 per cent of the Site C capital costs are based on foreign currency. The Canadian dollar has weakened significantly compared to the US dollar since the 2014 capital cost estimate was developed, and as a result this risk has increased. This is partially mitigated through contractor flexibility around sourcing of material, resulting in an exposure to a basket of currencies rather than solely the US dollar. This risk will be further mitigated through BC Hydro contract design that allocates the majority of foreign exchange risk to the contractors. As a result, upon receipt of pricing for each contract foreign exchange risk will decrease.	ŕ
Interest rate variability	Interest during construction costs will be affected by fluctuations in market interest rates. Currently market interest rates are expected to be lower than assumed in BC Hydro's budget. There have been several discussions with BC Hydro's board, the Debt Management Branch, the past Deputy Minister of Finance and Treasury Board Staff on a debt hedging strategy for BC Hydro's borrowing requirements (which include expenditures related to Site C) over a 10-year period. In addition to portfolio adjustments that are currently being implemented whereby BC Hydro is reducing its exposure to variable rate debt and increasing its issuance of fixed rate debt, a strategy has been developed that recommends hedging 50 per cent of BC Hydro's future forecasted borrowing requirements from F2017-F2024 through the use of derivative contracts. A decision has been made to apply to the BCUC for a new Debt Hedging Regulatory Account that will capture the gains and losses related to the hedging of future debt issuance. BC Hydro is currently working on the application and plans to file with the BCUC in November 2015.	•

Site C Clean Energy Project

Quarterly Progress Report No. 1

Appendix A

Site Photographs





Figure A-1 Excavation Area on the Left Bank

Figure A-2 Excavation of Material; Part of the Left Bank Stabilization on the North Bank of the Site C Dam Site



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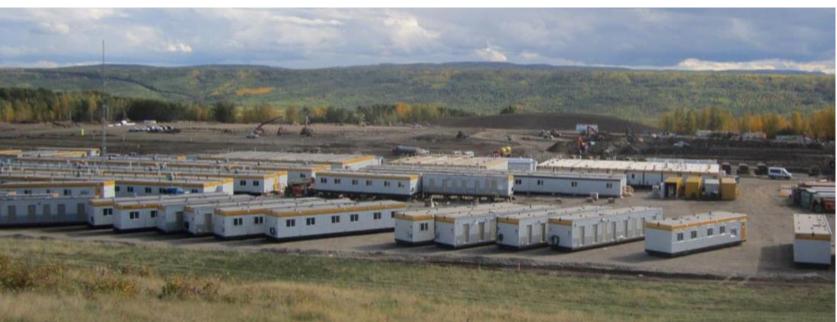


Figure A-3 Temporary Camp in Place, until Main Camp Complete



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Figure A-4 Worker Camp under Construction: Crews Installing Foundation Piles



Figure A-5 Work on Access Roads and Site Preparation for the Worker Camp



Site C Clean Energy Project

Quarterly Progress Report No. 1

Appendix B

Summary of Individual Contracts Exceeding \$10 million

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Appendix C

Project Progression

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Appendix D

Detailed Project Expenditures

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Appendix E

Workforce Overview

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