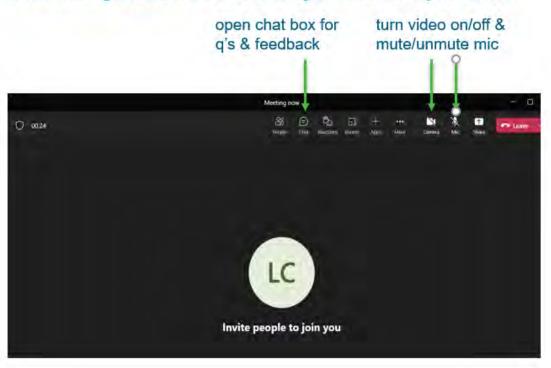
Regional Community Liaison Committee Project Briefing

September 21, 2022



Microsoft Teams Reminders

We'll be using a few basic tools, which you can find on your screen





Site C Clean Energy Project Regional Community Liaison Committee

Wednesday, September 21, 2022 1:30 – 3:30 pm

This meeting will be held by MS Teams, a link will be sent out as well as a toll-free number for those unable to connect through the link.

AGENDA

Opening & Welcome (Bob Gammer)	1:30 PM
Review of Agenda & Action Items (Bob Gammer)	1:35 PM
Dam On-site Construction Update (Chris Waite) o Main Civil Works o Right Bank	1:45 PM
Dam Off-site Construction Update (Matt Drown) Highway 29 Realignment Boat Launches Berm Update Reservoir Clearing Work Tunnel Conversion and Reservoir Filling Update	2:00 PM
Fish Habitat Enhancement (Greg Scarborough)	2:25 PM
BREAK (Optional)	2:30 PM
Jobs and Businesses Update (Kate O'Neil)	2:35 PM
Contractor Updates	2:40 PM
Roundtable (Committee members)	3:05 PM
Next Steps & Closing (Bob Gammer) Next meeting – December 7	3:25 PM



Regional Community Liaison Committee

Action Items Tracking Log: January - December 2022

Item No.	Action Item	Responsibility	Meeting Date	Status / Outcome*
2022-001	Matt Drown to confirm the dates, details and public access to the trails around the berm and D.A. Thomas Road area with Mayor Heiberg.	Matt Drown	March 16, 2022	In Progress. Matt Drown to provide verbal update, September 21. At the last CEC meeting (May 18, 2022) we committed to schedule a meeting with DoHH staff on site at the berm to discuss trail access following berm construction (summer 2022) and prior to recreational site construction (summer 2023).
2022-005	Katrina Kelly to confirm how old highway sections will be removed.	Katrina Kelly	June 15, 2022	Complete. Highway sections will be removed by removing all signs and concrete barriers, then removing the asphalt and a portion of the subgrade. Bridges at Cache Creek and Lynx Creek will be removed. Bridges at Halfway River and Farrell Creek will have their railings removed and will remain in place. The highway right-of-way will be reclaimed by placing coarse woody debris and/or reseeding with native plants.
2022-006	James Thomas to confirm how the land at Wilder Creek will be put back in to use after the fish habitat is created.	James Thomas	June 15, 2022	In progress. The land will be leased to a farmer to ensure it remains in agricultural production.
2022-007	Bob Gammer to arrange a meeting to discuss Peace Area Aggregate with interested members.	Bob Gammer	June 15, 2022	Complete. Bob arranged for the North Peace Rural Roads Coalition to meet with Site C Properties manager James Thomas. The meeting was held on August 11, 2022.
2022-008	Troy at AFDE to share success stories of employees. Wendy to distribute.	Wendy Laluk	June 15, 2022	Complete. Wendy distributed success stories June 15, 2022 to the committee.



Dam Site Construction Update





Dam Site Construction Update

- Main Civil Works
- Approach Channel
- Tailrace Pile Installation
- Spillway, Intakes and Penstocks
- Powerhouse, Turbines and Generators
- Balance of Plant



Dam Construction















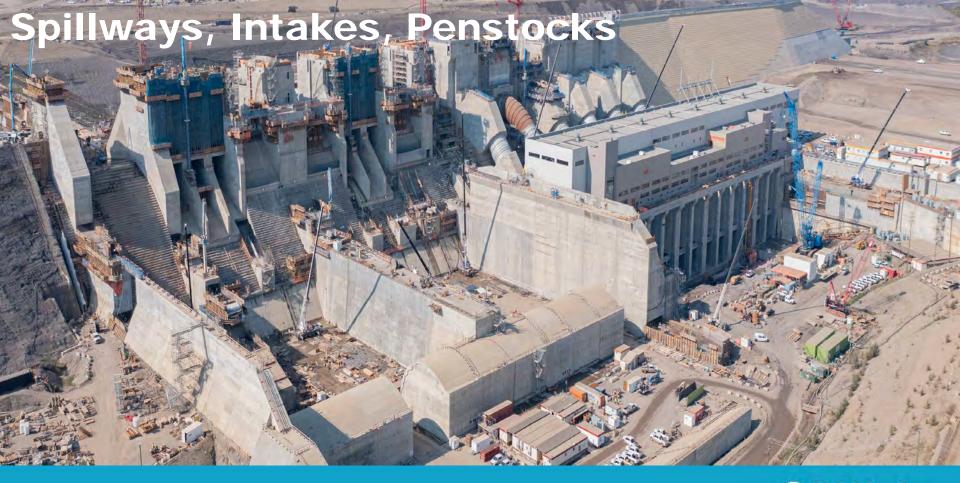














Spillways, Stilling Basin and Headworks



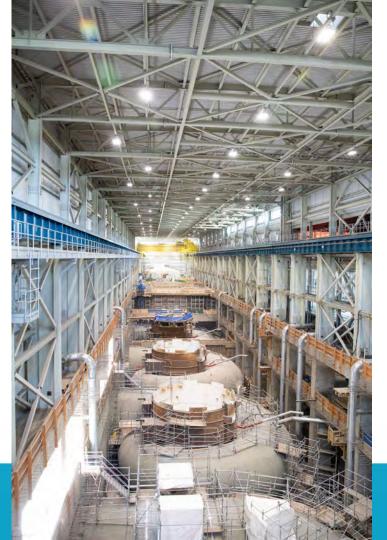












Powerhouse Turbine and Generators Units 6 to 1







BC Hydro

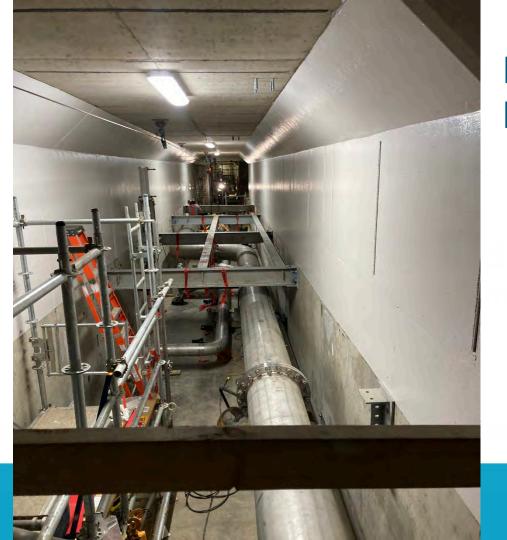
Power smart











Balance of Plant Dewatering Gallery



Questions?



Off Dam Site Construction Update

- Highway 29 Realignment
- Boat Launches
- Hudson's Hope Shoreline Protection
- Reservoir Clearing





Construction Schedule Start to Finish

Lynx Creek – 8.1 km Dry Creek - 1.4 km	2019 to 2022 2020 to 2022	Halfway River – 3.7 km Cache Creek West – 4.0 km	2018 to 2022 2018 to 2020
Farrell Creek – 1.9 km	2020 to 2022 2020 to 2022	Cache Creek East – 4.0 km	2019 to 2022
Farrell Creek East – 3.0 km	2021 to 2022	Highway decommissioning:	2022 to 2023















Highway 29 Realignment Farrell Creek Bridge Concrete Bridge Deck Complete





Highway 29 Realignment Dry Creek Complete and Open to Traffic



















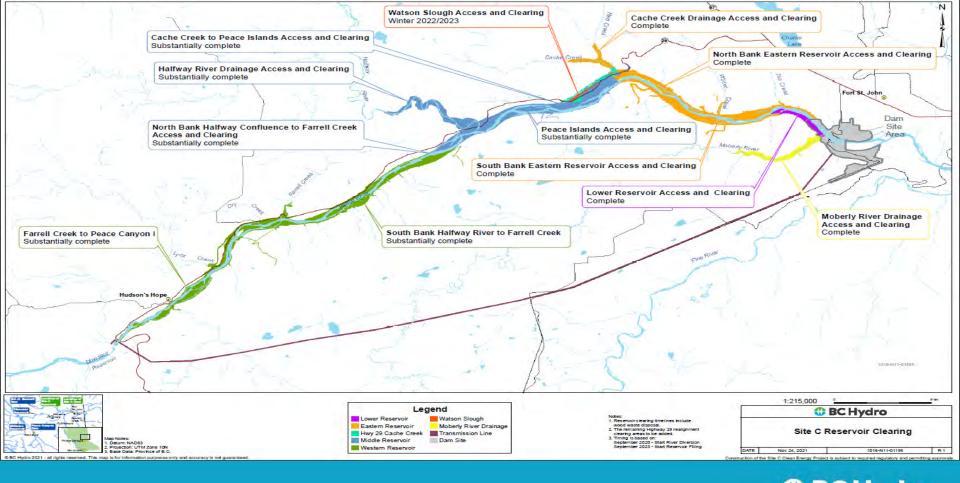














Our history with Watson Slough

- 2017 Planned to clear Watson Slough
 - Revised clearing work schedule at request of PRRD.
 - Revised plan, committed to work starting winter before reservoir fill.
- 2022
 - Update letter/ notification sent to PRRD (August) and posted publicly.
 - Clearing work to begin in fall (October/ November).
 - 2023
 - Clearing work continues through winter.
 - Reservoir filling may begin as early as 2023; in service 2025.



Why clear Watson Slough now?

- Area will be covered with water when reservoir is filled.
- To reduce safety hazards.
- To meet our in-service date of 2025.





Site C - Tunnel Conversion & Reservoir Filling

Chris Hatton
Project Manager, MCW/Reservoir Filling – Site C



Objective:

Safe tunnel conversion and filling of the Site C reservoir to meet the project schedule while minimizing risks to the project, the environment, upstream facilities, and the greater BC Hydro System

Steps:

Complete the work required for reservoir filling:

- Sufficiently complete required construction activities
- Prepare the Peace River system (Peace Canyon and GMS facilities)

Convert the Tunnel:

Safely convert Tunnel #2 over 2 months

Fill the Reservoir:

 Upon completion of tunnel conversion, and within the reservoir filling window, complete the controlled filling of the reservoir over approximately 4 months



Reservoir filling considerations & constraints

Environmental constraints

Bird Nesting Window, Animal Denning Window, Total Dissolved Gas from spillway impacting fish

Weather

Spring Freshet, Early Summer Rains, Ice Management

Operational constraints

Water Management on the Peace, System Load Management

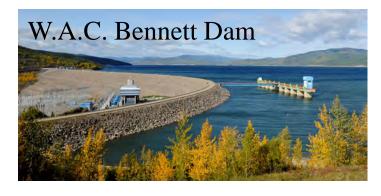
Construction progress

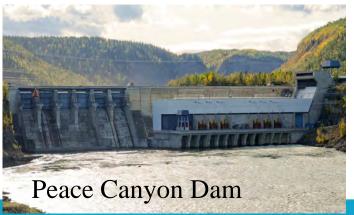
Key project components progressed sufficiently to start reservoir filling



Water Management on the Peace River

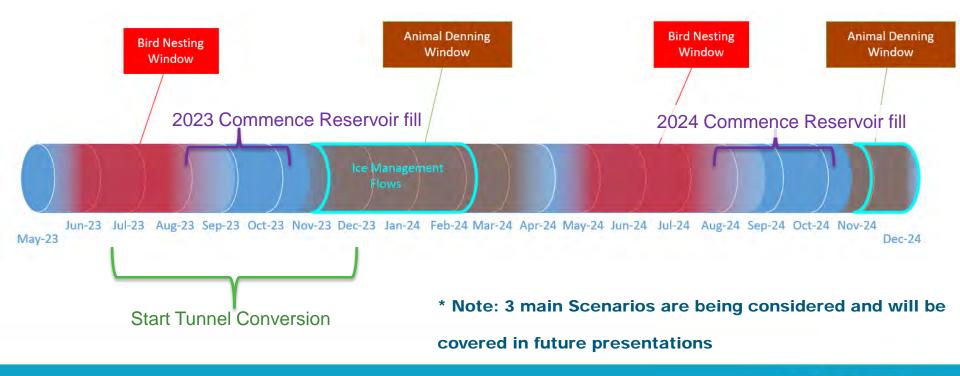
- Williston Reservoir 60% of BC Hydro energy storage
- GM Shrum & Peace Canyon generating stations –
 30% of BC Hydro capacity
- Williston basin runoff: 50% snowmelt, 50% rainfall
- Multi-year reservoir operation
- Discharge is constrained by downstream ice formation/break-up in the winter







Constraints for Conversion and Filling





2022/23 Construction - Scenarios

- Considering the constraints there are three scenarios for timing of the conversion and filling works.
 - Scenario 1 Convert in 2023, reservoir fill in 2023
 - Scenario 2 Convert in 2023, reservoir fill in 2024
 - Scenario 3 Convert in 2024, reservoir fill in 2024





Questions?



Fish Habitat Enhancement

Greg Scarborough







P6 Fish Habitat – Design History

Initial designs started in 2014









Jobs and Business Opportunities



Employment Statistics

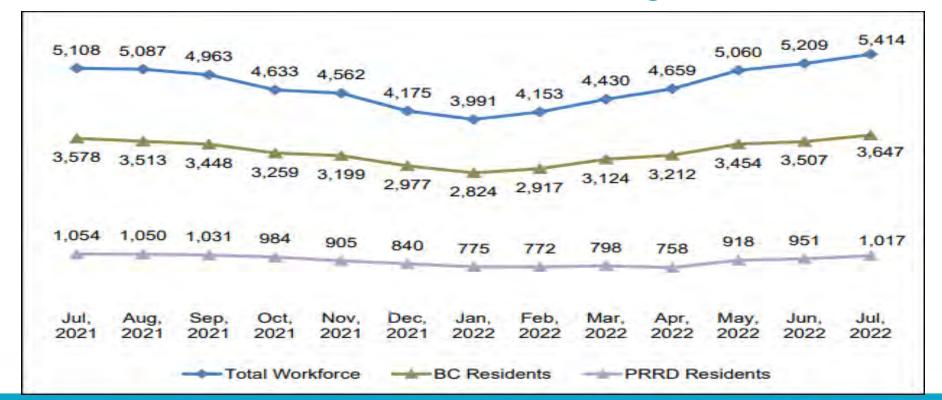
The July workforce numbers are the total workforce numbers and include workers working off the dam site area, workers working from home and/or workers who may have been on site at any time in that month.

- BC Hydro requires all major contractors to report employment information.
- Total of **5,414** workers in July 2022: **3,647** from BC (67%), **1,017** from PRRD (22%)

Site C Employment Statistics – July 2022				
	# of total workers	# of B.C. primary residents	% of B.C. workers	
Construction and non- construction contractors	4,609	2,906	63%	
Engineers and project team	805	741	92%	
Total workforce	5,414	3,647	67%	



Site C Jobs Annual Trends (July 2022)





2022 Q2 Regional Business Participation

Companies engaged by BC Hydro and Site C contractors to provide goods and services in relation to Site C construction between March – June 2022

Community	# of businesses	Community	# of businesses
Baldonnel	1	Montney	2
Cecil Lake	1	Pink Mountain	2
Charlie Lake	23	Pouce Coupe	2
Chetwynd	43	Prince George	13
Dawson Creek	25	Rolla	2
Fort Nelson	1	Rose Prairie	2
Fort St. John	408	Taylor	4
Hudson's Hope	18	Tumbler Ridge	2
Moberly Lake	9	Wonowon	2
Total		560	



