

August 31, 2021

Ted White, B.Sc.
Director and Comptroller of Water Rights
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
PO Box 9340 Stn Prov Govt
Victoria, BC V8W 9M1

Dear Mr. White:

**Re: Peace Project Water Use Plan
Peace River Management Plan Annual Report 2021**

Your letters approving the Peace Project Water Use Plan (WUP) monitoring programs and physical works Terms of Reference state that BC Hydro is required to submit an annual report as well as individual monitoring program reports each year. Your letter dated July 16, 2015, approves the split of the Peace Project Annual Report into four separate submissions. The Peace River Management Plan, which includes those projects in Schedule C of the Order, is due in August of each year.

Please find enclosed the 2021 Peace River Management Plan Annual Report for the implementation period August 2020 to July 2021. As per our submission dated August 30, 2019, recognizing that Lynx Creek Boat Launch Maintenance, Halfway River Boat Launch Maintenance, and Taylor Boat Launch Maintenance (GMSWORKS-29, GMSWORKS-52 and GMSWORKS-63) are the only projects remaining in implementation under Schedule C, the annual report for 2021 is provided via this letter. An update is also provided for Peace River Side Channels (GMSWORKS-3), as the final inspection report is now available.

GMSWORKS-3 Peace River Side Channels

The purpose of this project was to improve fisheries habitat and productivity in Peace River side channels. Construction was completed in 2014 at site 102.5R. A final inspection of the site was completed in late 2019, five years post-construction. The 5-year post construction inspection report has been finalized and is attached.

The final report notes that the Pine River, immediately upstream of 102.5R, has deposited a significant amount of sediment within the channel since 2014 - its been infilled roughly halfway to pre-construction level. The channel no longer meets the design criteria. Now that the consultant report has been finalized, and it is recognized that the anticipated benefits of this project are no longer relevant with the construction of Site C, BC Hydro will be seeking relief from this project under the WUP Order.

GMSWORKS-29 Lynx Creek Boat Launch Maintenance

This project is for the ongoing maintenance of the Lynx Creek boat launch, which was constructed prior to the completion of the Peace WUP.

Annual maintenance of the existing boat launch will continue in accordance with the Terms of Reference (TOR) approved by the CWR on May 7, 2010, which has been extended annually since 2019. We intend to coordinate with the Site C team and make further submissions to your office as required. The boat launch is currently open.

GMSWORKS-52 Halfway River Boat Launch Maintenance

This project is for the ongoing maintenance of the Halfway River boat launch.

Annual maintenance of the existing boat launch will continue according the CWR letter dated April 3, 2012, until BC Hydro makes further submissions on this or the GMSWORKS-41 (Halfway River Boat Launch Design) project- in coordination with the Site C team as required. The boat launch is currently open.

GMSWORKS-63 Taylor Boat Launch Maintenance

This project is for the ongoing maintenance of the Taylor boat launch located in Peace Island Park. Design was undertaken in GMSWORKS-30 and construction under GMSWORKS-38.

On March 27, 2018, BC Hydro submitted a revised TOR for maintenance of the boat launch until 2027. The resubmission defined the area of responsibility and included a structural maintenance budget which was approved by the CWR on May 24, 2018.

Annual maintenance on the upgraded boat launch at Taylor will continue, which includes periodic engineering inspections. The boat launch is currently open.

The updated financial information is in Table 1 at the end of the letter.

Should you have any questions please do not hesitate to contact me.

Regards,



for

Alison Briggs
Manager, Water Program
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Encl.

C:
Shelley Moss, BC Hydro
Jeff Walker, BC Hydro
Bob Gammer, BC Hydro
Dave Conway, BC Hydro
Manjit Kerr-Upal, Ministry of Environment
James Chircoski, Fisheries and Oceans Canada

Table 1: Peace River Management Plan WUP Monitoring Program and Physical Works Costs

Monitoring Programs	Costs approved by CWR	Life to Date Actuals (LTD)	Estimated to Complete (Forecast)	Total Forecast (LTD and Forecast)	Variance Total to Approved	Explanation	Corrective Action
Peace River WUP Annual Report	\$56,321	\$49,428	\$4,102	\$53,530	\$2,791		
GMSM01A PCR Creel Survey	\$9,937	\$9,938		\$9,938	(\$1)	Project canceled	
GMSM01A PCR Creel Survey - OR DM	\$9,937	\$9,938		\$9,938	(\$1)		
GMSM01A PCR Creel Survey - OR Imp	\$0				\$0		
GMSM02A PCR Fish Index	\$2,285,174	\$1,498,663		\$1,498,663	\$786,511	Project canceled	
GMSM02A PCR Fish Index - OR DM	\$112,133	\$63,172		\$63,172	\$48,961		
GMSM02A PCR Fish Index - OR Imp	\$2,173,041	\$1,435,492		\$1,435,492	\$737,549		
GMSM05A PCR Productivity	\$1,133,979	\$228,183		\$228,183	\$905,796	Project canceled	
GMSM05A PCR Productivity - OR DM	\$129,576	\$35,925		\$35,925	\$93,651		
GMSM05A PCR Productivity - OR Imp	\$1,004,403	\$192,258		\$192,258	\$812,145		
GMSM07A PCR Side Channel Fish	\$841,652	\$234,903		\$234,903	\$606,749	Project canceled	
GMSM07A PCR Side Channel Fish - OR DM	\$148,761	\$42,891		\$42,891	\$105,870		
GMSM07A PCR Side Channel Fish - OR Imp	\$692,891	\$192,012		\$192,012	\$500,879		
GMSW01A PCR Aerial Photos	\$709,995	\$233,073		\$233,073	\$476,922	Project canceled	
GMSW01A PCR Aerial Photos - OR DM	\$15,318	\$11,536		\$11,536	\$3,782		
GMSW01A PCR Aerial Photos - OR Imp	\$694,677	\$221,537		\$221,537	\$473,140		
GMSW03A PCR Trial Side Chan	\$2,477,678	\$1,279,928		\$1,279,928	\$1,197,750	Project suspended	
GMSW03A PCR Trial Side Chan - OR DM	\$48,977	\$57,783		\$57,783	(\$8,806)		
GMSW03A PCR Trial Side Chan - OR Imp	\$2,428,701	\$1,222,146		\$1,222,146	\$1,206,555		
GMSW04A PCR Hydraulic Habit - ONR		\$27,464		\$27,464	(\$27,464)	Project completed	
GMSW04A PCR Hydraulic Habit - ONR DM OS		\$3,690		\$3,690	(\$3,690)		
GMSW04A PCR Hydraulic Habit - ONR Imp OS		\$23,774		\$23,774	(\$23,774)		
GMSW04A PCR Hydraulic Habit - OR L4	\$134,816	\$134,815		\$134,815	\$1	Project completed	
GMSW04A PCR Hydraulic Habit - OR DM	\$17,728	\$17,727		\$17,727	\$1		
GMSW04A PCR Hydraulic Habit - OR Imp	\$117,088	\$117,088		\$117,088	\$0		
GMSW05A PCR Hydraulic Model	\$270,648	\$210,659		\$210,659	\$59,989	Project completed	
GMSW05A PCR Hydraulic Model - OR DM	\$31,742	\$30,994		\$30,994	\$748		
GMSW05A PCR Hydraulic Model - OR Imp	\$238,906	\$179,665		\$179,665	\$59,241		
GMSW06A PCR Mainstem Stage	\$306,437	\$295,755		\$295,755	\$10,682	Project completed	
GMSW06A PCR Mainstem Stage - OR DM	\$39,515	\$33,755		\$33,755	\$5,760		
GMSW06A PCR Mainstem Stage - OR Imp	\$266,922	\$262,000		\$262,000	\$4,922		
GMSW07A PCR Riparian Habit	\$181,857	\$153,336		\$153,336	\$28,521	Project completed	
GMSW07A PCR Riparian Habit - OR DM	\$22,854	\$31,569		\$31,569	(\$8,715)		
GMSW07A PCR Riparian Habit - OR Imp	\$159,003	\$121,768		\$121,768	\$37,235		
GMSW10A PCR Industry & Tay	\$220,253	\$159,484		\$159,484	\$60,769	Project completed	
GMSW10A PCR Industry & Tay - OR DM	\$69,761	\$26,652		\$26,652	\$43,109		
GMSW10A PCR Industry & Tay - OR Imp	\$150,492	\$132,832		\$132,832	\$17,660		
GMSW13A PCR Recreation Acc	\$326,409	\$131,146		\$131,146	\$195,263	Project completed	
GMSW13A PCR Recreation Acc - OR DM	\$96,825	\$16,632		\$16,632	\$80,193		
GMSW13A PCR Recreation Acc - OR Imp	\$229,584	\$114,514		\$114,514	\$115,070		
GMSW29A Lynx Creek BL Maintenance	\$280,376	\$8,331		\$8,331	\$272,045	BL upgrades anticipated in 2022 as a commitment under Site C. Further submission to the CWR expected post construction upgrades.	
GMSW29A Lynx Creek BL Maintenance- OR DM	\$91,709	\$4,554		\$4,554	\$87,155		
GMSW29A Lynx Creek BL Maintenance OR Imp	\$188,667	\$3,777		\$3,777	\$184,890		
GMSW30A Taylor BL Design	\$260,501	\$256,014		\$256,014	\$4,487	Project completed	
GMSW30A Taylor BL Design - OR DM	\$2,641	\$21,005		\$21,005	(\$18,364)		
GMSW30A Taylor BL Design - OR Imp	\$257,860	\$235,009		\$235,009	\$22,851		
GMSW38A Taylor BL Construction	\$5,408,200	\$5,404,955		\$5,404,955	\$3,245	Project completed	
GMSW38A Taylor BL Construction - OR DM	\$145,100	\$36,392		\$36,392	\$108,708		
GMSW38A Taylor BL Construction - OR Imp	\$5,263,100	\$5,368,563		\$5,368,563	(\$105,463)		
GMSW40A BRD Blackfoot Park BL	\$93,732	\$93,732		\$93,732	\$0	Project canceled	
GMSW40A BRD Blackfoot Park BL- OR DM	\$17,508	\$17,508		\$17,508			
GMSW40A BRD Blackfoot Park BL- OR Imp	\$76,224	\$76,224		\$76,224			
GMSW41A BRD Halfway R BL Design	\$0	\$52,642		\$52,642	(\$52,642)	Costs associated with design prior to projet suspension.	
GMSW41A BRD Halfway R BL Design - OR DM	\$0	\$11,093		\$11,093	(\$11,093)		
GMSW41A BRD Halfway R BL Design - OR Imp	\$0	\$41,549		\$41,549	(\$41,549)		
GMSW48A BRC Blackfoot Pk BL Maint	\$45,481	\$45,481		\$45,481	(\$0)	Project canceled	
GMSW48A BRC Blackfoot Pk BL Maint- OR DM	\$5,026	\$5,026		\$5,026	(\$0)		
GMSW48A BRC Blackfoot Pk BL Maint-OR Imp	\$40,455	\$40,455		\$40,455	(\$0)		
GMSW52A Halfway River BL Design	\$180,000	\$62,958	\$140,533	\$203,492	(\$23,492)	Budget includes contingency that has not been used	
GMSW52A Halfway River BL Design - OR DM	\$0	\$12,995	\$6,773	\$19,768	(\$19,768)		
GMSW52A Halfway River BL - OR Imp	\$180,000	\$49,964	\$88,760	\$138,724	\$41,276		
GMSW55A Blackfoot BL Maintenance	\$0			\$0	\$0	Project canceled	
GMSW55A Blackfoot BL Maintenance - OR DM	\$0				\$0		
GMSW55A Blackfoot BL Maintenance- OR Imp	\$0				\$0		
GMSW63A Taylor BL Maintenance	\$566,951	\$68,771	\$125,684	\$194,455	\$372,496	Budget includes contingency that has not been used	
GMSW63A Taylor BL Maintenance - OR DM	\$38,731	\$23,935	\$6,484	\$30,419	\$8,312		
GMSW63A Taylor BL Maintenance - OR Imp	\$528,220	\$44,836	\$119,200	\$164,036	\$364,184		
OR - Ordered Remissible ONR - Ordered Non-Remissible							

* Red values in parentheses denote overage.