Cheakamus Project Water Use Plan


Implementation Period: November 2015 to October 2016

- CMSMON-1A Cheakamus River Juvenile Salmonid Outmigrant Enumeration Monitoring
- CMSMON-1B Cheakamus River Chum Salmon Escapement Monitoring and Mainstem Spawning Groundwater Survey
- CMSMON-2 Trout Abundance Monitor in Cheakamus River (Daisy Lake Dam to Cheakamus Canyon)
- CMSMON-3 Cheakamus River Steelhead Adult Abundance, Fry Emergence-timing, and Juvenile Habitat Use and Abundance Monitoring
- CMSMON-4 Monitoring Stranding Downstream of Cheakamus Generating Station
- CMSMON-5 Monitoring Stranding Downstream of Daisy Lake Dam
- CMSMON-6 Monitoring Groundwater in Side Channels of the Cheakamus River
- CMSMON-7 Cheakamus River Benthic Community Monitoring
- CMSMON-8 Monitoring Channel Morphology in Cheakamus River
- CMSMON-9 Cheakamus River Recreational Angling Access Monitoring

For Conditional Water Licences 110107 and 114268

November 30, 2016
**BC Hydro Cheakamus Project Water Use Plan**  
**Monitoring Programs Annual Report: 2016**

1 **Introduction**

This document represents a summary of the status and the results of the Cheakamus Project Water Use Plan (WUP) monitoring programs to October 31, 2016, as per the Cheakamus Order under the *Water Act*, dated February 17, 2006. There are ten monitoring programs and no physical works.

2 **Status**

The following table outlines the dates that Terms of Reference (TOR) for the Cheakamus WUP monitoring programs were submitted to and approved by the Comptroller of Water Rights (CWR).

<table>
<thead>
<tr>
<th>Monitoring Program &amp; Physical Works TOR</th>
<th>Order Clause</th>
<th>Original ToR Submission</th>
<th>Most Recent ToR Resubmission</th>
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<tbody>
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<td>CMSMON-4 Monitoring Stranding Downstream of Cheakamus Generating Station</td>
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<td>Mar 22, 2007</td>
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<tr>
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<td>Feb 23, 2007</td>
<td>Mar 22, 2007</td>
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<tr>
<td>CMSMON-6 Monitoring Groundwater in Side Channels of the Cheakamus River</td>
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</tr>
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3 **Schedule**

The following table outlines the current schedule for the monitoring programs being delivered for the Cheakamus WUP.
Table 3-1: Monitoring Programs Schedule as of October 31, 2016

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<thead>
<tr>
<th></th>
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<tr>
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<tr>
<td>CMSMON-5 Monitoring Stranding Downstream of Daisy Lake Dam</td>
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<td>✓</td>
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<td>CMSMON-8 Monitoring Channel Morphology in Cheakamus River</td>
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<tr>
<td>CMSMON-9 Cheakamus River Recreational Angling Access Monitoring</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>■</td>
</tr>
</tbody>
</table>

Legend:  
■ = Program to be undertaken/initiated in identified year  
✓ = Program completed for the year  
× = Program started, but encountered operational or hydrological delays  
* = no report was produced for this year due to a change in the contractor for this project.

4 Monitoring Programs Terms of Reference

The monitoring programs being implemented under the Cheakamus WUP are described in Terms of Reference and the reports for work completed to date can be found here:

http://www.bchydro.com/about/sustainability/conservation/water_use_planning/lower_mainland/cheakamus.html

5 Status of Monitoring Programs

5.1 CMSMON-1A Cheakamus River Juvenile Salmonid Outmigrant Enumeration Monitoring

The intent of this project is to assess the impact of the WUP operating regime on production of juvenile salmon in the Cheakamus River and key side channels. The objective is to collect the data necessary to estimate the annual outmigration of juvenile salmonids. The species of interest are Chum and Pink fry, Coho, Steelhead and Chinook smolts. Juvenile outmigration for all salmonid species will be enumerated with traps and counters at the outlets of key side channels.

Data from this study will be used in conjunction with data from other monitoring programs to develop stock-recruitment relationships in order to separate effects of spawning escapement from flow-related changes in survival during incubation and freshwater rearing.
The program is a continuation and expansion of a program initiated during the consultative process to monitor juvenile outmigration under the Interim Flow Order (IFO) and became a WUP project in 2007.

The 2015 summary report is under review and will incorporate comments and discussion from the Monitoring Advisory Committee meeting held on November 21, 2016.

5.2 CMSMON-1B Cheakamus River Chum Salmon Escapement Monitoring and Mainstem Spawning Groundwater Survey

The intent of this project is to examine the effects of the WUP flow regime on Chum salmon spawning and incubation in the mainstem of the Cheakamus River and major side channels. Monitoring will include two components:

i) Estimating annual escapement of adult Chum salmon in the Cheakamus River.

ii) Examining the relation between discharge, groundwater upwelling, and the selection of spawning habitat by Chum salmon in the mainstem.

Data from this study will also be used in conjunction with data from other monitoring programs to develop stock-recruitment relationships in order to separate effects of spawning escapement from flow-related changes in survival during incubation.

The 2015 summary report is under review and will incorporate comments and discussion from the Monitoring Advisory Committee meeting held on November 21, 2016.

5.3 CMSMON-2 Trout Abundance Monitor in Cheakamus River (Daisy Lake Dam to Cheakamus Canyon)

The intent of this project is to relate changes in trout abundance to changes in Daisy Lake Dam operations relative to pre-WUP dam operations for the resident trout population located immediately downstream of the Daisy Lake Dam.

Data such as fish density, relative abundance, distribution of fish age classes and fish health are used in conjunction with data from other monitoring programs to investigate the relationship between the Cheakamus River discharge and fish production in this study.

The data collected up to early 2015 were reviewed by the technical sub-committee at the Monitoring Advisory Committee meeting held on July 9, 2015. The committee agreed in 2015 that sufficient information has been collected to answer the Management Questions and to wait for the outcomes of the Cheakamus Water Use Plan Order Review (WUPOR) before deciding if further monitoring is warranted.

This project was initiated in 2007 and field work completed in 2014.
5.4 CMSMON-3 Cheakamus River Steelhead Adult Abundance, Fry Emergence-timing, and Juvenile Habitat Use and Abundance Monitoring

The intent of this project is to examine the effects of the WUP flow regime on juvenile and adult Steelhead in the Cheakamus River to determine how river flows affect Steelhead production in this system. The study specifically investigates whether increased summer flows negatively affect emergent Steelhead parr using an annual abundance index which is then combined with young of the year samples to obtain a robust estimate of the production of Steelhead smolts.

Monitoring includes three components to identify periods of low Steelhead survival, the habitats used during those periods and the effects of flow on these habitats:

i) Enumerating adults using snorkel counts in the spring in the Cheakamus River.

ii) Sampling young of the year Steelhead during the emergence and post emergence periods in the summer and fall by backpack/shore-based electrofishing.

iii) Snorkel-based surveys during early spring.

The 2014/15 summary report is in final draft and the 2015/16 summary report is still under review and will incorporate comments and discussion from the Monitoring Advisory Committee meeting held on November 21, 2016. The preliminary conclusions from the monitoring program are that there is a healthy Steelhead Trout population in the Cheakamus River, however, the full extent to which this is caused by WUP flows is currently not fully known.

5.5 CMSMON-4 Monitoring Stranding Downstream of Cheakamus Generating Station

The intent of this project is to monitor whether fish stranding in the tailrace channel below the Cheakamus powerhouse is sufficient to affect local fish populations and therefore warrant mitigation. Because a threshold value of stranding is not defined for this location, the project approach was to use a modelling technique to identify the duration of sustained high flows prior to the dewatering event that cause fish to enter the tailrace channel and become stranded.

This program was initiated in 2008 and was completed in 2011.

5.6 CMSMON-5 Monitoring Stranding Downstream of Daisy Lake Dam

The intent of this project is to define a minimum level of acceptable stranding (MALS) below the Daisy Lake Dam and measure if the fish stranding rate exceeds the MALS to determine if significant stranding is observed under two scenarios:

i) When flows are reduced from 7 cubic metres per second (cms) to 3 cms on November 1, 2008 immediately downstream of the dam.
ii) When the rate of stage change between Daisy Dam and Rubble Creek is less than 2.5 cm per hour when flows are reduced from 7 to 3 cms on November 1, 2008.

This program was initiated in 2008 and completed within the same year.

5.7 CMSMON-6 Monitoring Groundwater in Side Channels of the Cheakamus River

The intent of this project is to determine if there is a correlation between the Cheakamus River flows and sub-surface flows in the side channels between Culliton and Cheekye creeks; in particular whether there are seasonal and annual changes in groundwater direction, water quality and temperature in these side channels.

Data from this study was used in conjunction with data from other monitoring programs to measure fish production response to side channel conditions to determine if a relationship exists between groundwater flows and fish production.

This program was initiated in 2007 and completed in 2011.

5.8 CMSMON-7 Cheakamus River Benthic Community Monitoring

The intent of this project is to develop a Cheakamus Benthos Model (CBM) for use in evaluating the composition, abundance and biomass of benthic invertebrates in the Cheakamus River. Data was collected over two years supplementing pre-WUP data to evaluate the relative importance and the magnitude of effects on benthic invertebrate biomass from Daisy Dam water releases in determining the composition, abundance and biomass of benthic communities in the Cheakamus River.

Following the Interim Review in 2012, BC Hydro considered additional monitoring due to recent improvements in the Whistler wastewater treatment plant. The model was developed to be a decision support tool for future planning initiatives, however, as Whistler Municipality is undertaking monitoring and has agreed to share the data, no further monitoring is being considered by BC Hydro.

This program was initiated in 2008 and completed in 2011.

5.9 CMSMON-8 Monitoring Channel Morphology in Cheakamus River

The intent of this study is to assess if there has been a change in the overall availability of suitable spawning substrates in the Cheakamus River from the present state, if there is a change in the utility of the naturally occurring side channels as fish habitat, and to what extent the hydrology of Rubble Creek, Culliton Creek and Swift Creek contribute to the general hydrology of the lower Cheakamus River in attenuating the effects of Daisy Lake dam operations.

Data from this study such as substrate type and configuration will also be used in conjunction with data from other monitoring programs to investigate the relationship between substrate type and fish production.

Attached is the 2014/15 summary report, dated March 16, 2016.
The 2015/16 summary report is under review and will incorporate comments and discussion from the Monitoring Advisory Committee meeting held on November 21, 2016.

5.10 CMSMON-9 Cheakamus River Recreational Angling Access Monitoring

The intent of this project is to measure angling use in the Cheakamus River outside the sport fishing season (the period from January 1st to March 31st) between Daisy Dam and the Cheakamus Canyon and assess whether access to recreational angling locations in that period improves under a WUP flow regime of 5 cms compared to a 3 cms minimum flow release. The performance measure used for this project was developed by the recreation subgroup of the consultative committee to measure angling in the sport fishing season, defined as mid-March to May 1 and August to December when the flow rates are much higher (19.4 cms and 68.4 cms) than in the January to March period.

This program was initiated in the spring of 2009 and completed within the same year.

6 Monitoring Programs Costs

The following table summarizes the Cheakamus WUP monitoring programs costs approved by the Comptroller and the actual costs to October 31, 2016.
<table>
<thead>
<tr>
<th>Monitoring Programs</th>
<th>Phase</th>
<th>Costs approved by CWR</th>
<th>Life to Date Actuals (LTD)</th>
<th>Estimated to Complete (Forecast)</th>
<th>Total Forecast (LTD and Forecast)</th>
<th>Variance Total to Approved</th>
<th>Explanation</th>
<th>Corrective Action</th>
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</thead>
<tbody>
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<td>Cheakamus WUP Annual Report</td>
<td></td>
<td>$13,347</td>
<td>$11,081</td>
<td>$5,294</td>
<td>$16,375</td>
<td>($3,028)</td>
<td>Forecasting additional effort for remaining annual reports</td>
<td>TOR to be submitted to request additional funds</td>
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<tr>
<td>CMSM01A Juvenile Salmonid</td>
<td>Phase 1</td>
<td>$2,112,685</td>
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<td>$1,786,106</td>
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<tr>
<td>CMSM01A Juvenile Salmonid - ONR Imp</td>
<td></td>
<td>$202,235</td>
<td>$1,691,998</td>
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<td>$1,691,998</td>
<td>$529,237</td>
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<tr>
<td>CMSM01A Juvenile Salmonid</td>
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<tr>
<td>CMSM01A Juvenile Salmonid - ONR DM</td>
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<td>$32,735</td>
<td>$18,229</td>
<td>$16,357</td>
<td>$34,586</td>
<td>($1,851)</td>
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<tr>
<td>CMSM01A Juvenile Salmonid - ONR Imp</td>
<td></td>
<td>$2,021,235</td>
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<td>$1,691,998</td>
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<td>CMSM08A Channel Morphology</td>
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<td>CMSM09A Recreation Angling</td>
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<td>$22,972</td>
<td>($5,256)</td>
<td>Project completed. Final reporting outstanding.</td>
<td></td>
</tr>
<tr>
<td>CMSM09A Recreation Angling - ONR DM</td>
<td></td>
<td>$14,426</td>
<td>$8,906</td>
<td>$2,562</td>
<td>$11,468</td>
<td>($2,958)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMSM09A Recreation Angling - ONR Imp</td>
<td></td>
<td>$13,802</td>
<td>$11,504</td>
<td>$11,504</td>
<td>($2,298)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Red values in parentheses denote overage.