

Cheakamus Project Water Use Plan

Monitoring Program Terms of Reference

- **CMSMON-8 – Monitoring Channel Morphology in Cheakamus River**

Addendum 1

May 8, 2013

A1 Addendum to CMSMON-8 – Monitoring Channel Morphology in Cheakamus River

A1.1 Addendum Rationale

The Cheakamus Water Use Plan (WUP) was approved by the Comptroller of Water Rights (CWR) and Order was received under the Water Act February 17, 2006. The consultative process of the WUP concluded without consensus being reached on the operating parameters. The WUP and the covering letter for the Order both state that the WUP is to be reviewed within 5 years of implementation. Terms of Reference for the monitoring approved by the CWR were for up to a 5 year period from implementation with completion in 2012. The most critical studies (juvenile and adult salmonid abundance studies) were intended as outlined in the approved WUP for duration of 10 to 20 years.

BC Hydro met with the contractors and members of the Cheakamus WUP Monitoring Advisory Committee (MAC) to review the Cheakamus WUP monitors in Squamish on October 2 and 3, 2012. The MAC discussed the objectives of the monitoring program and what, if any, changes should be made to the scope of the program. Based on the findings to date and the importance of this monitor's potential link to production of fish in the Cheakamus, the MAC agreed that CMSMON-8 should continue for another five years in order to answer the management questions.

A1.2 Study Design

This study is intended to understand whether channel morphology is affected by dam operations. An additional five years of study will aim to answer the management questions by helping to gather enough data to determine whether changes in channel morphology are the result of Daisy Lake Dam operations or some other environmental or anthropogenic factor. This information will inform other monitoring programs on the availability and persistence of suitable fish habitat through time. The results are important to the other Monitors (i.e., CMSMON-1A, CMSMON-1B, and CMSMON-3) as it would provide a means of identifying whether changing channel morphology is a mechanism governing the production of fish in the Cheakamus River and if so, whether the impact can be attributed to Daisy Lake Dam operations.

The methods within the original Terms of reference remain the same.

A1.3 Budget

Total Revised Program Cost:\$243,088.