



Ministry of
Forests, Lands and
Natural Resource Operations

File: 9000212

April 28, 2017

British Columbia Hydro and Power Authority
Suite 600, Four Bentall Centre
1055 Dunsmuir Street
PO BOX 49260
VANCOUVER BC
V7X 1V5

Dear Karen von Muehldorfer | Regulatory Manager:

Re: Change in and About a Stream Approval Application – 9000212 (Cache Creek Bridge)

Approval for the above has been granted, and the approval document is attached for your perusal. Please review and ensure you are familiar with all of the conditions held within this approval. Be advised that various documents/plans are required prior to the commencement of this work.

The Approval holder is required to adhere to all other applicable Provincial and Federal regulations.

We wish to inform you that the Peace River serves as a spawning and rearing area for fish. The protective requirement of the federal *Fisheries Act* must be met. Accordingly, it will be necessary for you to screen your water intake to protect against entry of small fish as per Freshwater Intake End-of-Pipe Fish Screen Guidelines (Department of Fisheries and Oceans, 1995). Please refer to the Fisheries and Oceans Canada Web-site (www.dfo-mpo.gc.ca/Library/223669.pdf) for this publication.

Section 105 of the *Water Sustainability Act* gives the recipient of this notice the right to appeal my decision. You may file an appeal within 30 days of the date indicated on this letter. Information on filing an appeal can be found on the Environmental Appeal Board WEB site at <http://www.eab.gov.bc.ca/>.

If you have any questions or concerns regarding the document issued, please contact Robert M Piccini in the Prince George office at (250) 551-3444.

Yours truly,

Dave Francis
Water Manager

Enc.



Ministry of
Forests, Lands and
Natural Resource Operations

e.c. Ministry of Forests, Lands & Natural Resource Operations, Resource Stewardship Division,
Water Management Branch, Gypsy Fisher, P.Geo.

T.E. Little Consulting Inc., Tim Little [REDACTED]

EDI Environmental Dynamics Inc., Jason Yarmish, Prince George BC



Province of British Columbia

Water Sustainability Act

Approval

Section 11 (1)

British Columbia Hydro and Power Authority, Suite 600, Four Bentall Centre, 1055 Dunsmuir Street, PO Box 49260, Vancouver, BC V7X 1V5 and their agents are hereby authorized to divert and use water as follows:

- 1) The name of the stream is Cache Creek.
- 2) The changes to be made in and about the stream are:
 - Replace the existing Highway 29 Cache Creek Bridge with a new bridge at a site approximately 300 meters upstream of the existing bridge alignment,
 - Works that will take place within the flood plain channel and riparian area includes:
 - Clearing of riparian vegetation (including shrubs and trees) within the bridge alignment,
 - Construction of a tote road along the left bank from the existing Highway 29 crossing to various laydown areas within the footprint of the new crossing. The tote road will be utilized by heavy equipment such as pile-driver, excavators and trucks to deliver materials for this bridge,
 - Bridge construction activities involving the installation of steel footing piles to support the bridge piers and superstructure, filling each pile with concrete, pouring of a 2.5 meter high concrete pile cap, and pouring a 5 meter diameter concrete pier.
 - All work will be as described in the following documents:
 - Design Drawings titled "Ministry of Transportation & Infrastructure Bridge Project No. 37249-000 Cache Creek Bridge No. 1025 Highway No. 29.
 - Location described by applicant as latitude: 56.273381, longitude: 121.237658.
- 3) Any significant departures from the approved plans and specifications as outlined in clause (2) will be reported to the Water Manager prior to those alterations occurring.
- 4) The following documents/plans shall be provided to the Water Manager prior to the commencement of any work as outlined in clause (2) above;
 - Construction Environmental Management Plan (CEMP),
 - Erosion and Sediment Control Plan (ESCP),
 - Mitigation Measures and Monitoring Plan,
 - Environmental Protection Plan (EPP)

- 5) The following document shall be provided by June 30, 2019 and approved by the Water Manager prior to those alterations occurring pertaining to the old Highway 29 bridge demolition activities:
 - Bridge Demolition Plan which will be stamped and signed by a Professional Engineer registered in the Province of British Columbia. The plan must include appropriate mitigation procedures / measures to ensure activities do not have a significant adverse impact on the water quality, or aquatic ecosystem within Cache Creek.
- 6) The works authorized shall be completed by December 31, 2019.
- 7) All instream work shall be undertaken during appropriate instream work windows; unless otherwise authorized by appropriate Provincial or Federal agencies.
- 8) All work shall be done in accordance with the "Standards and Best Practices for Instream Works" (MWLAP 2004) and BC MoTI Standards Specifications for Highway Construction (2016) (SS 165).
- 9) All instream works or work occurring in environmentally sensitive areas will be constructed under the supervision of an appropriately qualified Independent Environmental Monitor (IEM). Weekly monitoring reports shall be submitted to the Water Manager during project activities within environmentally sensitive areas otherwise; bi-weekly monitoring reports shall be submitted.
- 10) The natural rate of water flow must be maintained upstream and downstream of the worksite during all phases of instream work activity.
- 11) Instream activities must be conducted in the dry and the worksite must be isolated from water flowing in the stream channel.
- 12) Care shall be exercised during all phases of construction to minimize siltation of Cache Creek and any other watercourse.
- 13) Concrete products or concrete leachate shall not be introduced directly or indirectly into any watercourse.
- 14) Equipment operating near the stream shall be free of external grease, oil or fluid leaks and an emergency spill response kit shall be kept on-site.
- 15) Refueling of machinery shall be conducted to ensure that deleterious substances shall not enter the watercourse.
- 16) All disturbed areas of the stream channel and its banks must be restored and provided with long-term protection from erosion.

- 17) All excavated material shall be placed in a stable area above the high water mark of the stream and protected from erosion by planting grass and/or vegetation.
- 18) Rock used for riprap shall be non-potential acid generating rock. All riprap used for bank protection shall be clean, durable, angular in shape and suitably graded and sized to resist movement by ice and freshet flows.
- 19) The holder of this Approval shall take reasonable care to avoid damaging any land, works, trees or other property, and shall make full compensation to the owners for any damage or loss resulting from the exercise of the rights granted with this Approval.
- 20) The holder of this approval shall notify the Water Manager under the *Water Sustainability Act* when the changes have been completed.
- 21) The changes shall be completed to the satisfaction of the Water Manager under the *Water Sustainability Act*.
- 22) British Columbia Hydro and Power Authority (BCH) has committed through the project's Environmental Impact Statement (EIS) and Environmental Assessment Certificate (EAC), multi-year monitoring to maintain and mitigate the potential long-term effects of this project on Fish and Fish Habitat. BCH must submit a monitoring report documenting the effectiveness of habitat offsetting works to the Water Manager by December 31 of each year monitoring is required.
- 23) This document does not supersede the requirements of the *Water Sustainability Act* and Regulations, Federal *Fisheries Act* or any other related legislation. The proponent is obligated to comply with all federal or provincial or municipal enactments.
- 24) This Approval, or a copy of it, must be kept or posted on the work site so that it may be shown to a Ministry official upon request.



Dave Francis
Water Manager