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Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Pacific
Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet RFI-Fraser River Big Bar Landslide	
Solicitation No. - N° de l'invitation EZ899-202159/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client	Date 2019-12-03
GETS Reference No. - N° de référence de SEAG PW-SPWY-025-8699	
File No. - N° de dossier PWY-9-42165 (025)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-12-06	Time Zone Fuseau horaire Pacific Standard Time PST
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Fung, Donna(PWY)	Buyer Id - Id de l'acheteur pwy025
Telephone No. - N° de téléphone (604) 671-9689 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PWGSC - Fraser River Big Bar Rockslide - Lillooet, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Request for Information (RFI) Amendment #1

Government of Canada Response to the Fraser River Landslide

Further to the WebEx that occurred on Monday, 2 December 2019, the following comments are provided:

- The GPS coordinates of the site are 51.2190°N, 122.1518°W
- High Bar First Nation must be contacted prior to any visit to the site. To coordinate a request, please contact:
Dale Michie
A/Aboriginal Affairs Advisor
Fisheries and Oceans, Fraser and Interior Area
Dale.Michie@dfo-mpo.gc.ca
(250) 851-4946
- Insurance and contract security / bonding requirements will vary, depending on the finalized work to be performed. However, Canada acknowledges that a project of this nature (safety concerns, possible air, and marine work) is highly complex and will require greater liability coverage than normal. Please provide your input into what is available in the market, what the most appropriate levels of insurance are, and / or what liabilities need to be limited.
- The List of Interested Suppliers (LIS) is an online service that allows businesses to optionally join and publicly signal their interest in an active Government of Canada tender notice.

To encourage collaboration amongst different parties, please go to the RFI link in Buy and Sell to "Join the List of Interested Suppliers for RFI – Fraser River Big Bar Landslide (EZ899-202159/A)." (<https://buyandsell.gc.ca/procurement-data/tender-notice/PW-PWY-025-8699/list-of-interested-suppliers/join-the-list-of-interested-suppliers>).

- Copies of the presentation decks that were shown are attached.

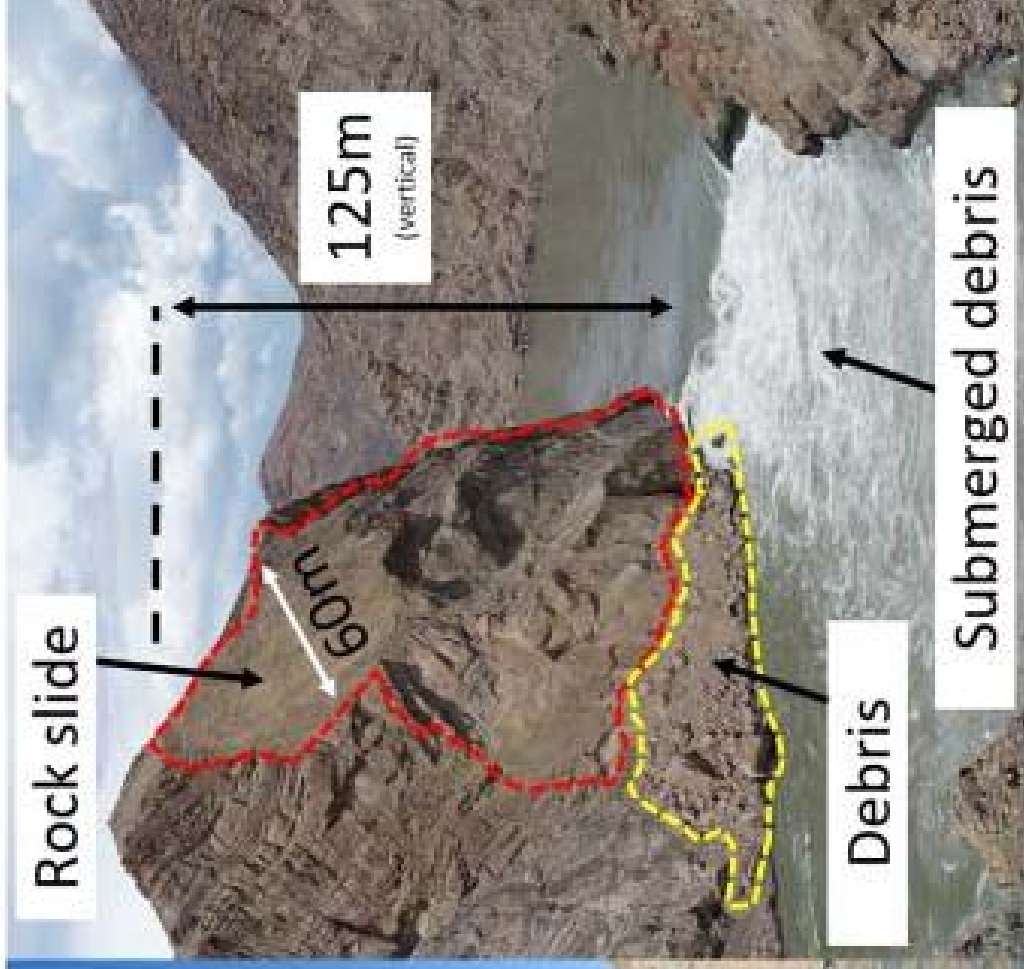
ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED

Big Bar Landslide Response Update & Next Steps

PSPC WebEx - December 2 2019



Before and After...



Shared Governance

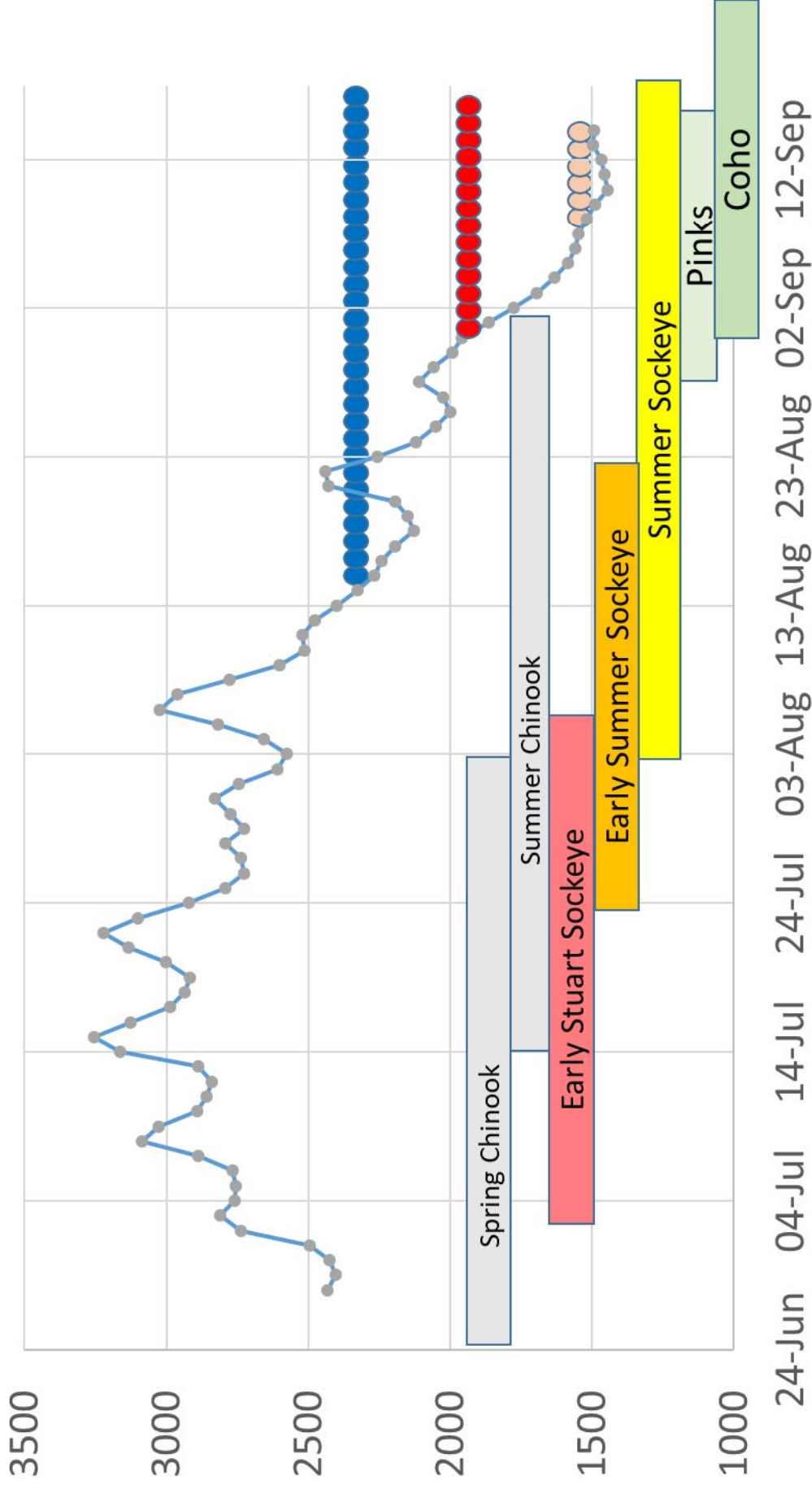
- **Government-Government (3G) collaboration** lets us highlight our unique strengths and overcome national obstacles as a unified force
- The Big Bar landslide response was unique, in that it established a **trilateral Joint Executive Steering Committee, (JESC)** and a **First Nations Leadership Panel**, as part of its governance oversight approach.
- During the initial incident response phase, a tripartite **incident command post (ICP)** was established, led by three Incident Commanders, under a Unified Command.
- The Incident Command System (ICS) is a **standardized on-site management system** designed to enable effective, efficient, integrated incident management **within a common organizational structure**.
- The primary government agencies involved to date have been DFO, FLNRORD, FRAFS, CCG, BC Wildfire Service, EMBC, and FNESS.



Incident Phase - Chronology of Events

- June 23, 2019 - Rock slide was discovered
- June 29, 2019 – ICS - Trilateral Unified Command was established, including First Nation Leadership Panel
- Mid July 2019 – Work onsite commenced, with initial focus safe site access
- July 20, 2019 – Fish trapping and transport operations begin
- Sept 1, 2019 – 30,000 fish/day monitored passing unassisted through slide
- Sept 4, 2019 – Fish transport operations paused (monitoring on-going)
- Sept 27, 2019 – Transition to Project Management
- Oct 14, 2019 – Rock scalers demobilized
- Oct 23, 2019 – Fish tagging operations end

Natural passage related to changes in flow: Fraser River discharge at Lillooet



Fish unable to pass unassisted

Fraser Salmon – Economic Snapshot

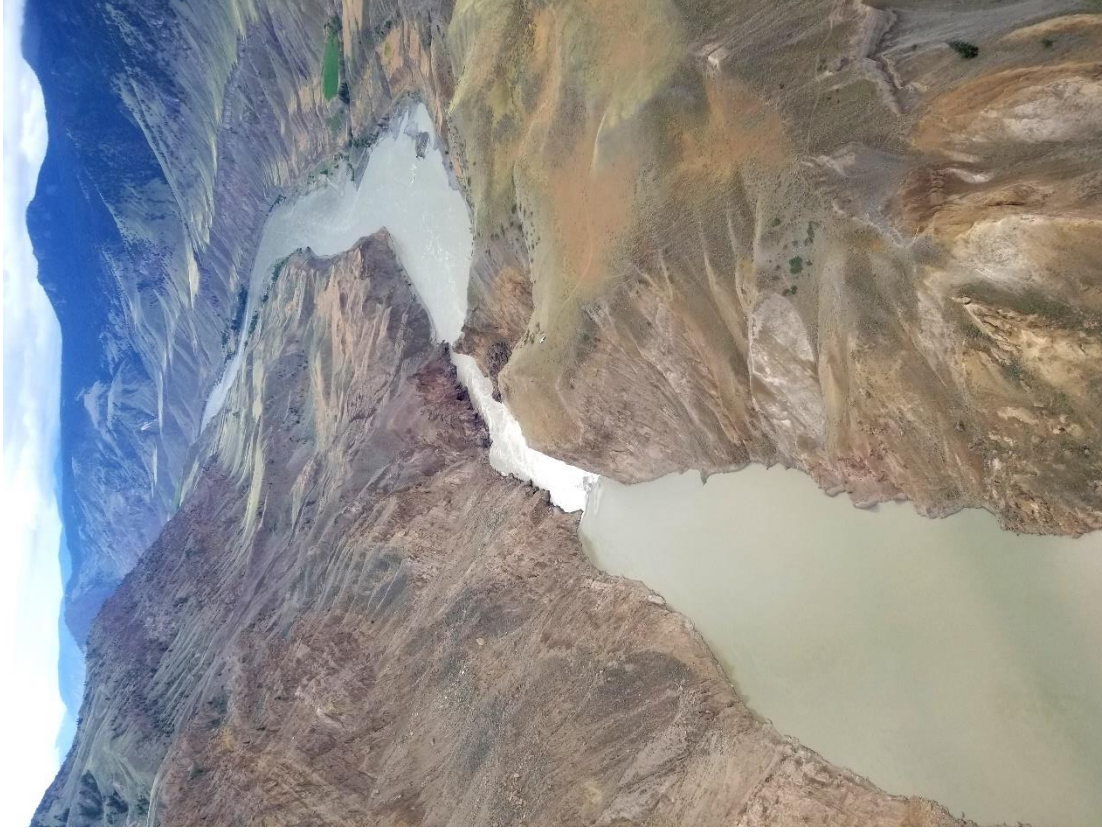
- Fraser River is one of the largest salmon producers in the world.
- Fraser salmon hold an incredibly significant importance to many First Nations in British Columbia. More than 140 First Nations in BC are annually licensed to fish Fraser salmon for food, social and ceremonial purposes; Indigenous fishers also represent a significant portion of the commercial salmon fishery.
- Approximately 78% (\$45.4M) of the total BC commercial salmon landed value coast-wide comes from areas that are highly impacted by the slide. Only areas A and C have negligible impacts.
- On average between 2015 and 2018, the British Columbia commercial salmon industry supported more than 2,600 jobs in harvesting and processing, and was valued at \$146.2 million.
- The overall recreational salmon fishery in British Columbia is responsible for approximately \$742 million in annual revenues for businesses that service the angling community and roughly \$319 million in GDP annually.



Summary

- More than \$15 million and significant efforts have been invested in responding to Big Bar landslide to date.
- On September 27th, the emergency incident response transitioned from ICS to Project Management:
 - Rock debris from the slide continues to create an impassable water velocity and height barrier for migrating salmon at water levels exceeding 2200 cms.
 - Unless sufficient rock debris is removed to reduce the flow rate before water levels are expected to begin to rise in March 2020, Fraser River salmon populations that migrate before late August will be significantly affected.
 - Time is of the essence, as there is less than five months before the salmon migration cycle begins again
 - Contingency planning is also required to support early migrating salmon should velocity and height barriers remain impassable in early 2020; a longer-term multi-year response, including feasibility studies for different options, may also be needed.
- **A multi-faceted program, involving dedicated federal, provincial and Indigenous capacity, is being actioned to restore upstream fish access at the Big Bar slide.**

For more information

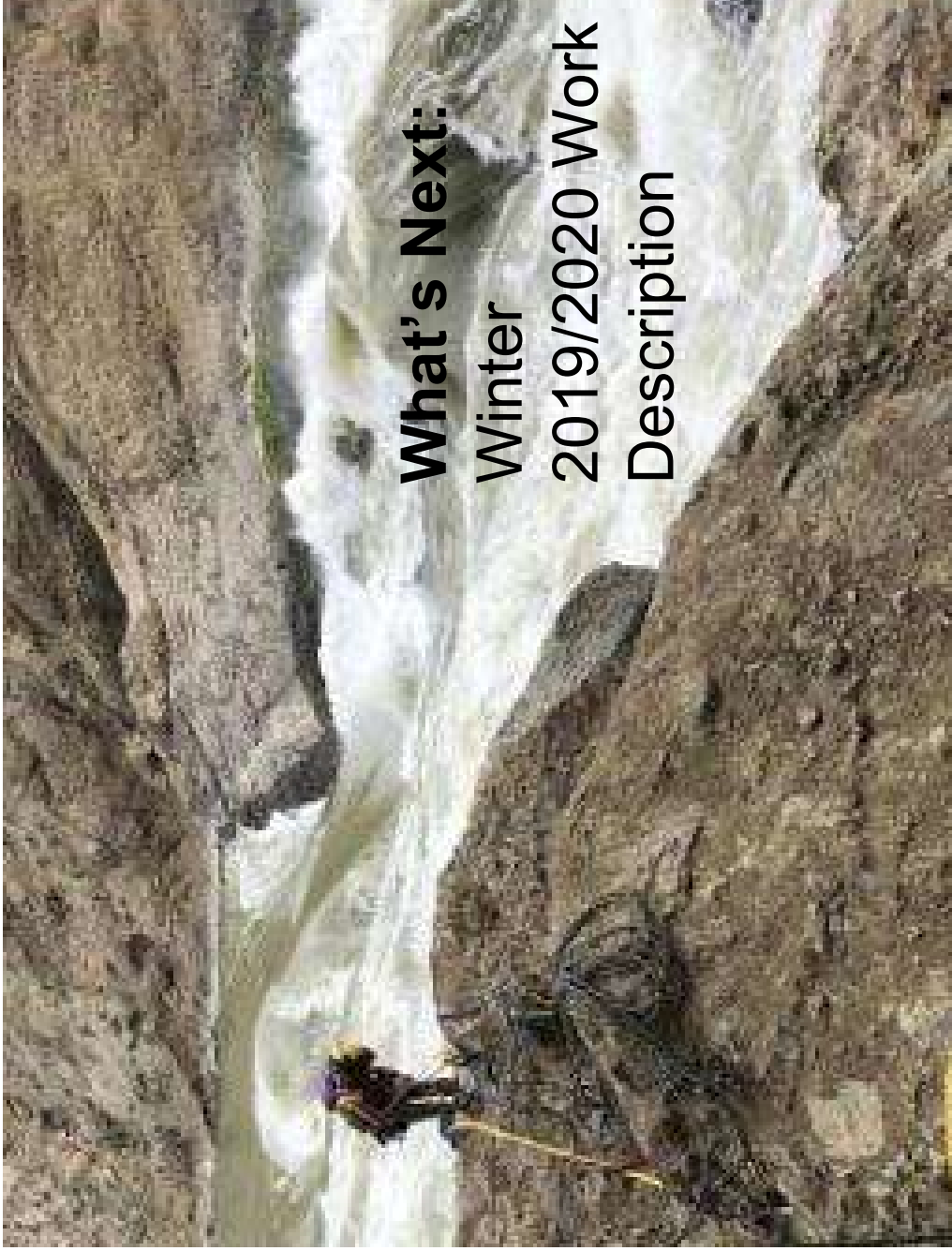


DFO resources:

- DFO Big Bar feature on the DFO Pacific salmon internet site
<http://www.pac.dfo-mpo.gc.ca/pacific-smon-pacifique/index-eng.html>

Partners' online resources:

- Fraser River Aboriginal Fishing Society (FRAFS) Big Bar Slide webpage
<http://www.frafs.ca/node/75>
- Province of BC Big Bar Landslide Incident webpage
<https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/fish/fish-passage/big-bar-landslide-incident>



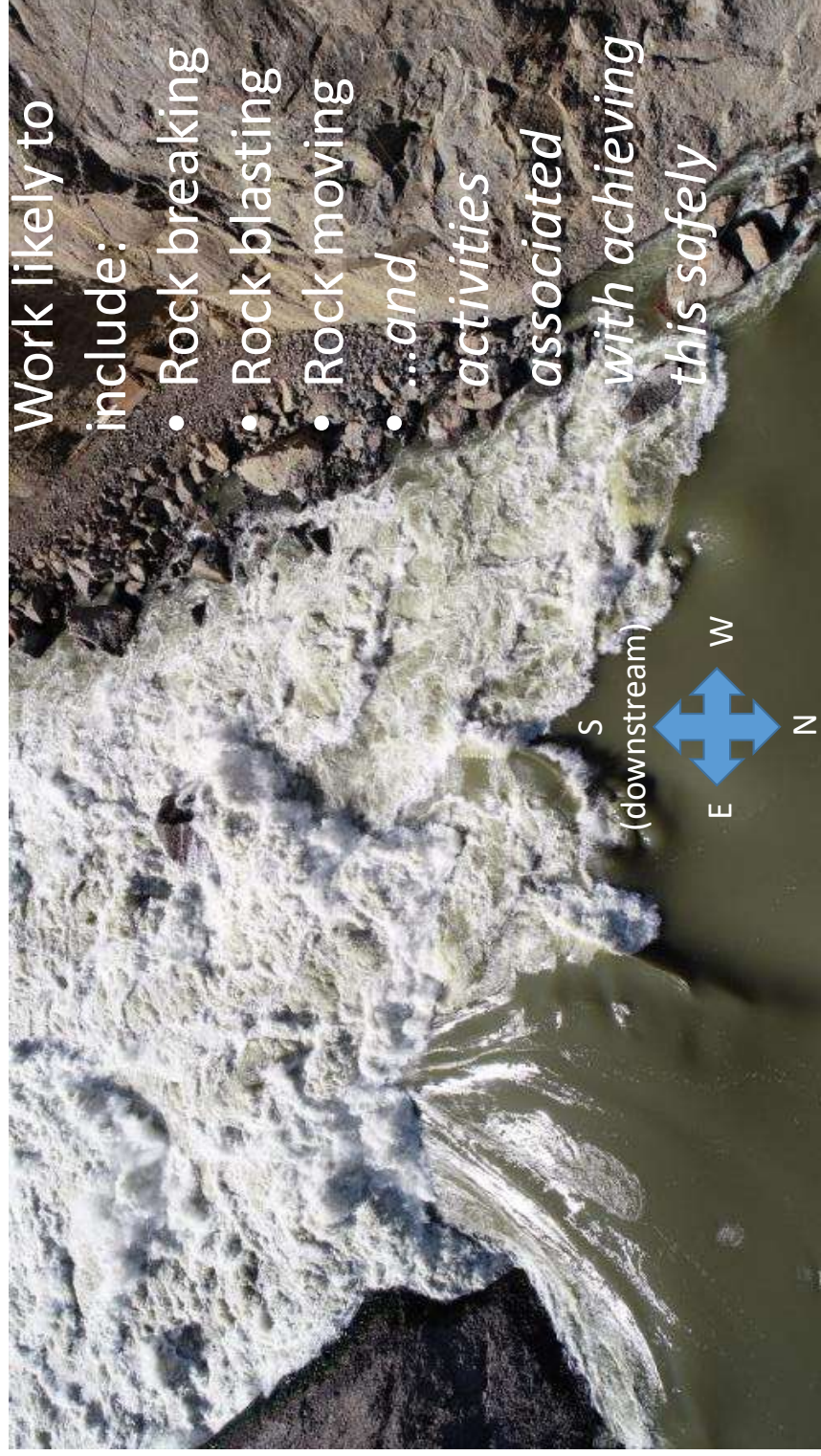
What's Next: Winter 2019/2020 Work Description

Planned winter 2019-20 fish passage remediation component

- Urgency to complete before water levels rise for spring freshet
- RFI – Closing December 6th
 - Soliciting industry feedback on constructability and potential technologies or approaches;
 - identification of potential contractors who possess specialized equipment, expertise and experience; and
 - identification of Indigenous business with the capacity to conduct operations.
- Engineering design underway



Plan View – Channel



Anticipated Project Challenges include...



- **Short winter window** for fish passage remediation work
- **Access** to site
- **Few precedents** of this scale
- **Operating conditions** (i.e. highly inclement weather, remoteness, unstable terrain)
- **Current population status** of many Fraser salmon and steelhead
- Importance of **clear and frequent communications**, especially given high levels interest