



## RETURN BIDS TO:

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Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions Travaux  
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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

<b>Title - Sujet</b> First Stage In Situ Remediation	
<b>Solicitation No. - N° de l'invitation</b> EZ897-180850/A	<b>Amendment No. - N° modif.</b> 004
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2017-08-24
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-004-8128	
<b>File No. - N° de dossier</b> PWY-7-40138 (004)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2017-08-28</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Daylight Saving Time PDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Mestry, Ruth (PWY)	<b>Buyer Id - Id de l'acheteur</b> pwy004
<b>Telephone No. - N° de téléphone</b> (778) 995-4613 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> PWGSC - Muncho Lake & Fireside Maintenance Camps, km 698 & km 839 - Alaska Highway, BC	

Instructions: See Herein

Instructions: Voir aux présentes

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

### **Addendum No. 3**

The following changes/clarifications in the tender documents are effective immediately. This Addendum will form part of the Contract Documents.

Q.5 - I have a question in regards to solicitation EZ897-180850/A, there are submittals that require a stamp and signature from an engineer. Can this engineer be registered only in Alberta or will they need to be registered in BC as well?

A.5 - A qualified professional is defined in the Summary of Work 01 11 00, 1.3 Definitions, Section 1.3.30 as:

a person working for the Contractor who is registered in relevant jurisdiction with his or her appropriate professional association, acts under that professional association's code of ethics, and is subject to disciplinary action by that professional association, and through suitable education, experience, accreditation and knowledge can be reasonably relied on to provide advice within his or her area of expertise. Includes Geotechnical Engineers and Environmental Consultants.

Given the tight schedule for this project, where required it will be accepted if a registered Professional Engineer from outside of British Columbia provides a design acceptable to the Departmental Representative, provides proof of confirmation of completion of the application process with APEGBC, and subsequently signs and seals the design upon granting of registration with APEGBC.

It is noted that for Professional Engineers from outside of British Columbia, that after the completion of the application process with APEGBC, registration with APEGBC is granted within 7 to 10 days. It is also noted that the application process requires communication between APEGBC and the respective engineer's association which will add additional time.

Q.6 - I do not see in the RFP where it indicates the specified concentration and volumes for the hydrogen peroxide and catalyst for each Site (Muncho Lake and Fireside) to be injected. The only section that lists previous concentrations is in 02 61 00.05 Part 3 – Execution. Everything referring to the injection concentrations and volumes is “as indicated in the final sealed design documents.” I have not been able to find this design document as it is not provided with the bid.

A.6 - Please refer to the sealed drawings that specify concentrations and volumes. Bidders shall note that changes to injection solutions and volumes were made in Amendment #1.

Q.7 - Can we get an extension on the submission? We currently do not have this final design document which is critical for the proposal.

A.7 - Extension has been granted to August 28<sup>th</sup>

Q.8 - The specifications for the drilling rig state that it must have a minimum weight of 7,900 kg, be able to generate a down force of 262 kN, and be able to generate a retraction force of 356 kN – it appears that a Geoprobe 8040DT will meet these specifications. Has any previous on-site drilling been successfully completed using a Geoprobe 7822DT drill rig (approx. weight of 3,632 kg, down force of 160 kN, and retraction force of 214 kN)? If yes, would PWGSC please consider changing the

specification so that it can be met by a Geoprobe 7822DT drill rig? The smaller Geoprobe 7822DT would be more cost effective.

A.8 - The rig specification will not be changed or relaxed.

Q.9 - If sub-zero temperatures are encountered during the work period (i.e. before November 1<sup>st</sup>), will PWGSC require that the injection events continue? Is the contractor responsible for freeze protection on any lines, storage tanks, etc. under the contractual scope of work?

A.9 - The contractor is responsible for supplying all provisions and contingencies for completing the program as designed. This would include provisions for completing the work when the sites are subject to freezing conditions.

Q.10 - Is the contractor responsible for any road clearing or maintenance?

A. 10 - The contractor shall include provisions for snow clearing in the work areas. It is expected that snow clearing will be limited to shovelling.

Q.11 - Is there sufficient road access and on-site space available for delivery of chemicals products using a tractor trailer (i.e. truck with tanker trailer or cargo trailer)?

A.11 - Yes

Q.12 - Is the contractor permitted to provide on-site living accommodations for workers in temporary trailers / recreational vehicles?

A.12 - There is no provision for on-site living accommodations at either Muncho Lake Maintenance Camp or Fireside Maintenance Camp. There limitations to site access and use that precludes this option.

Q.13 - In the event of chemical daylighting despite pumping at the maximum allowable flowrates, will PWGSC allow for additional injections points to be added within and/or beyond the original work area in order to facilitate the injection of the total specified volume of reagents?

A.13 - Additional injection points may be considered within or beyond the target areas if required.

Q.14 - Is there the possibility for a pre-bid site meetings for contractors to familiarize themselves with the site conditions?

A.14 - There will be no pre-bid site meeting.

Q.15 - I have a question regarding line item 5 on the Optional Work Table (Muncho Lake Hydrogen Peroxide Dilution and Injection). In the specifications document it states that the hydrogen peroxide may be diluted to either a 10% or 5% solution. Is the cost of chemical to be included in this option ? as it will have different dollar amounts based on the percentage of dilution.

A.15 - The hydrogen peroxide solution shall be injected at the specified concentration and volume. In the event it is not possible to inject hydrogen peroxide at the specified concentration of 17.5%, injection of the equivalent mass of hydrogen peroxide at a lower concentration may be considered. This is not expected to change the cost for the supply of the chemicals, as the mass will be the same. Changes to the cost for diluting, mixing, and injecting a larger volume of hydrogen peroxide are expected to be accounted for in the cost for supplying additional water for mixing (Item 5 – Optional Work on the UPT) as well as the day rate for dilution and injection (Item 4 – Optional Work on the UPT).

Q.16 - The specification indicates that 57-millimetre (2.25 inch) probe rods must be used for the injection activities. Would 38-millimetre (1.5-inch) diameter rods be an acceptable alternative?

These smaller diameter rods are more readily available and are commonly used for in-situ remediation injections.

**A.16 - No**

Q. 17 - For the Bid Security, I understand that 10% is required. However Is this based on the A) base work value or the total bid amount (A+B, B being the optional work portion). Given the contractual estimated value that was posted on the bid page, I am assuming it is only based on the A-Base Work value. I assume this would also be the case given that some of the scope items listed in B-Optional work) were removed from A-base work, due to the new oxidation formula proposed as of the last contract revision from the 15th.

**A. 17 - Bid Security is for Base Work only.**