



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

**Parks Canada
National Contracting Services**

**3, passage du Chien-d'Or
Quebec, QC
G1R 3Z8**

INVITATION TO TENDER
APPEL D'OFFRES

AMENDMENT #2 TO:

Tender To: Parks Canada Agency

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Soumission à: l'Agence Parcs Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du Chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments – Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Parks Canada Agency
3, passage du Chien-d'Or
Quebec, QC, G1R 3Z8

Title-Sujet Reconstruction of Bobs Lake Dam		Date April 10, 2018	
Solicitation No. - No. de l'invitation 5P201-18-0013/A		Client Ref. No. – No. de réf du client. 340	
GETS Reference No. – No de reference de SEAG PW-18-00819112			
Solicitation Closes L'invitation prend fin – at – à 2:00 PM on – le 2018-04-17		Time Zone Fuseau horaire - EDT – Eastern Daylight Time	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>			
Address Inquiries to: - Adresser toute demande de renseignements à : Sylvie Lagacé sylvie.lagace@pc.gc.ca			
Telephone No. - No de téléphone 418-648-5006		Fax No. – No de FAX: 418-649-6971	
Destination of Goods, Services, and Construction: Destinations des biens, services et construction: See herein			
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur Telephone No. - No de téléphone: _____ Facsimile No. - N° de télécopieur: _____			
Name and title of person authorized to sign on behalf of the Vendor/Firm Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur _____ Name / Nom Title / Titre _____ Signature Date			



AMENDMENT #2

The purpose of this amendment is to:

- Provide updates to the drawings and specifications;
- Share questions and answers asked by potential bidders;
- Provide the mandatory site visit attendance list;
- Add the pollution liability coverage to the insurance requirements.

This information must be taken into consideration in the evaluation of you bid.

The tender closing date has been extended to April 17, 2018 – 2:00pm (EDT).

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.

Drawings and specifications updates

- Specification Section 01 14 00 1.6 Regional Roads and Area Bridge Restrictions

Replace 17 Tonnes with 14 Tonnes at 1.6.1.1

Add: There is a 14 Tonne restriction on the bridge over the Tay River at Bolingbroke. This bridge is on the east approach to the work site. There are currently no load restrictions, other than seasonal spring road restrictions, along Crow Lake Road from County Road 38 to the work site.

- Carpet grouting, as defined and mentioned in section 03 37 15 (Grouting Works) of the specification, is not applicable to this project. Therefore, remove the following from the section in question :
 - Item 1.1.3.7
 - Item 1.5.5
 - Item 3.2.4.2



Questions and answers

Q1. Is the Mud Slab as shown on drawing CV 005 01 included in Unit Price Table item No. 2? If not, where should it be priced?

A1. Refer to Section 03 30 00 Item 1.3.12

Referring to the Aluminum grating on Detail 1, dwg CV 006 .1 Rev 4.

Q2. The spec, 2.1.9 Grating (aluminum), calls for different type of grating. Please clarify.

A2. Provide the 38 x 4.8 model type 30-102M as shown on the drawing

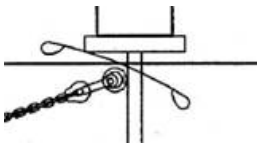
Q3. Is the grating serrated or plain?

A3. Serrated bearing bars

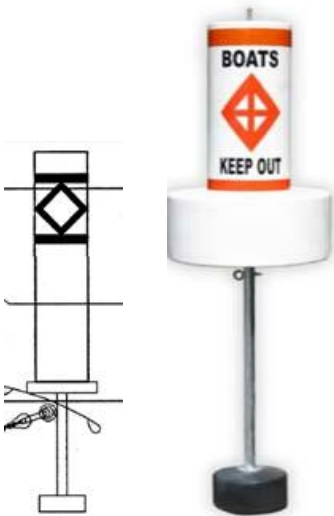
Q4. The grating manufacturer tell us that a piece of Al grating 4000 long (width) is too large and will break with only banding supporting the ends of the bearing bars.

A.4 Provide 2 aluminum angles L 51 x 64 x 6.4 3000 mm long welded to the underside of the grating (details to be provided on issued for construction drawings).

Q.5 We just had a few questions for you. We noticed that Park Canada has the chain going to the anchor with non-galvanized chain. This is not a common thing we have seen. There is also this part underneath the buoy (see image below) that we are not familiar with do you happen to have a part name, or any idea or further details of what it is?



I have a concern that the can buoy shown in the drawing will become submerged due the weight of the anchor chain. I would strongly suggest that the anchor chain connect directly to the TUFFBOOM and that the can buoy is connected to the TUFFBOOM by way of a short chain approximately 2-3ft. See the attached drawing for reference. By the way would you see if Parks Canada would entertain the idea of a float collar can buoy with a ballast instead of the can buoy shown in the drawing. Attached is the idea that we are going for. Please let me know if you have questions.



A.5 Contractors should base their bid for the safety boom and associated components on what is presented in the drawings and specifications. Any adjustments will be administered through the shop drawing and submittal process.

Q6. Specification Section 03 37 15 Grouting Works, Paragraph 1.6.2.5. Why is casing required? Drawing A000492B-CV-005-03 Foundation Treatment Plan Sections and Details clearly shows that the grouting work will be performed directly from the rock surface. Note 4 also indicates that all overburden will be removed.

A.6. Casing could be required in some holes since the rock is generally identified as a very poor to fair marble. The weak rock quality may require downstage grouting or grouting with casing to keep the hole open or reduce packer jam occurrence.

Q7. Specification Section 03 37 15 Grouting Works, Paragraph 1.7.7. Please clarify the restriction on drilling of grout holes. The grout curtain has a length of 68.9 m. If this is divided by 12 m, then 5 holes can be drilled but it appears that they must be grouted and the grout allowed 24 hours before drilling any other holes. If this is the case, then if 5 holes were drilled and grouted today, drilling would not be allowed to commence until 2 days later. This restriction will affect productivity and the cost of the grouting works; especially if primary holes are to be spaced at 6 m as noted in paragraph 3.2.2.2.

A.7 Paragraph 1.7.7 shall read : No hole can be drilled within a radius of less than 6m from another hole not grouted or being grouted or that been grouted within the last 24 hours preceding.

Q8. Specification Section 03 37 15 Grouting Works, Paragraph 2.1.3.1 Fly Ash. Please clarify if fly ash is required to be used in the grout mixes. Paragraph 1.5.17.1 states that Cement Grout shall consist of cement, and water and paragraph 1.5.17.2 states that Mortar Grout shall consist of cement, sand, and water. If it is required, we respectfully request that a unit price bid item be added for the supply of fly ash, measured by the kilogram of dry fly ash used in grout mixes.

A.8 Fly ash is not mandatory and is not requested as an additive. If the contractor's cement includes fly ash, then it should conform to paragraph 2.1.3.1

Q9. Specification Section 03 37 15 Grouting Works, Paragraph 2.1.4 Admixture. Please clarify what admixtures will be required to be used in the cement grout mixes. Paragraph 1.5.17.1 states that Cement Grout shall consist of cement, and water and paragraph 1.5.17.2 states that Mortar Grout shall consist of cement, sand, and water. We respectfully request that unit price bid items be added for each admixture that is required. Please also indicate in the specifications what concentrations, and or ratio, of each admixture is to be used in the cement grout mixes.



A.9 Use of admixtures will be identified after contract award. These will be paid under the change order process at the actual invoiced material cost of admixtures satisfactorily placed plus 10% as per GC 6.4.2. Lump Sump Item 9 Grouting Works to include all other costs associated with admixtures.

Additional comment: The contractor should supply as a minimum for admixture: Celbex 653 or equivalent and a compatible fluidifier agent (super P) that has no negative (increase) effect on the grout setting time.

Q10. Specification Section 03 37 15 Grouting Works, Paragraph 3.2.4.1 requires the use of Celbex 653 in the grout mixes for all primary and secondary grout holes. The unit price table does not specify how much cement is required for primary holes or secondary holes. In addition, all holes required beyond primary holes (i.e. secondary holes and higher order holes) are as directed and are unknown. We respectfully request that a unit price bid item be added for the supply of Celbex 653 Admixture, measured by the kilogram of dry Celbex 653 Admixture used in grout mixes.

A.10 Use of admixtures will be identified after contract award. These will be paid under the change order process at the actual invoiced material cost of admixtures satisfactorily placed plus 10% as per GC 6.4.2. Lump Sump Item 9 Grouting Works to include all other costs associated with admixtures.

Q11. Specification Section 03 37 15 Grouting Works, Paragraph 2.1.7 Pipe. What drawing is the PVC pipe shown on? What is the PVC pipe required for? We are unable to find "the diameter and in the location indicated" on the drawings.

A.11 PVC pipe are as required. Example: Vent tube in overhang foundation treatment concrete or water control for foundation treatment or surface grout leak control.

Q12. Specification Section 03 37 15 Grouting Works, Paragraph 3.2.4.2 requires carpet grouting to be completed within a radius of 50 m before beginning the grout curtain. Drawing A000492B-CV-005-03 Foundation Treatment Plan Sections and Details shows 3 rows of grout holes (i.e grouting axis 1, grouting axis 2 and grouting axis 3). Please identify which grouting axis represents the grout curtain and which grouting axis represents the carpet grouting. In addition, will the drilling restriction noted at paragraph Paragraph 1.7.7 apply for carpet grouting holes?

A.12 No carpet grouting is required on this project.

Q13. Specification Section 03 37 15 Grouting Works, Paragraph 1.3.5. It is uncommon in the grouting industry for cement to be measured on the basis of the number of cubic meters of dry cement. It is commonly measured based on the number of kilograms of dry cement used in grout. Please consider changing the basis of measurement or defining how many standard 40 kilogram bags are equivalent to 1 cubic meter of dry cement.

A.13 1 bag of 40kg of cement = 0.0283 m³ of dry cement

Q14. Specification Section 03 37 15 Grouting Works, Paragraph 1.3.6. It is uncommon in the grouting industry for sand to be measured on the basis of the number of cubic meters of dry sand. It is commonly measured based on the number of kilograms of dry sand used in grout. Please consider changing the basis of measurement or defining how many kilograms of dry sand are equivalent to 1 cubic meter of dry sand.

A.14 1 m³ of dry sand = 1720 kg of dry sand

Q15. a) Part 1.7.1.3 of spec section 35 20 22 states that the "cofferdam crest elevation must be a minimum of 163.5m". Drawing CV00401 states that the cofferdam crest to be a minimum of 163.4m. Please clarify.

A.15 a) Cofferdam crest minimum crest elevation is 163.5 m as per specification

Q15. b) If the cofferdam and access as indicated on drawing CV00401 was constructed of sheet pile walls 4 to 5 meter apart, is there any restriction as to the fill material used between these sheet pile walls to create an access road?



A.15 b) Fill placed between or contained by sheet piles and/or for temporary access roads should be clean granular material.

Q16 a). Is there any possibility for extension to the in water work window after October 14th?

A.16 a) Refer to Specification Section 01 35 43 1.13 .1.

Q16. b) If during stage 2 of the works, after the new dam is partially built, the contractor wishes the control the water using the new sluices, will Parks Canada provide stop logs or can the contractor use the stop logs from the old dam?

A.16 b) Parks Canada will be providing new stop logs for the new dam.

Q16. c) If during stage 2 of the works, after the new dam is partially built, the contractor wishes the control the water using the new sluices using stop logs, can the contractor use the mechanical log lifter from the old dam? The documents indicate that the old dam will be operated by Parks Canada during construction but the mechanical log lifter will need to be installed on the new dam in stage one. Can Parks Canada operate the old dam without the mechanical log lifter?

A.16c) The mechanical lifter at the old dam will not be available for contractor use. Parks Canada cannot operate the existing dam without the log lifter.

Q17. There is a slight discrepancy on the water levels between part 1.9.1 of spec section 01 14 00 and part 1.5.1.2 of spec section 01 32 16. The former give the winter level at 161.4m but the later states 161.5m?

A17. Winter levels are approximate but the lower target level is 161.4m

Q18. Section 03 37 15 require a movement monitoring system and rock temperature monitoring system. Can any further detail be given on the quantities & instrumentation types and specification of movement tolerances?

A.18 Most likely, no displacement monitoring will be required. Rock temperature should be monitored using a sensor composed of thermistors installed in a drill hole filled with sand or in a 3 week old grouted hole. Sensors should be installed at every meter and for a minimum depth of 6m. An equivalent system could be submitted for review and approval during construction.

Q19. What conversion factor is used for converting m3 to tonne for Unit price items 13 through 17?

A.19 A conversion factor will not be provided as bid tables are based on tonnes.

Q20. Based on drawing CV01002 the sand fill is 200mm thick under the area of the 400mm thick Zone 3 River Rockfill. You would expect the quantity of UP 17 Sand fill to be 50% of the quantity of UP 15 Zone 3 River Rockfill, as it is the same area buy half the thickness – 130 tonne, and not 380 tonne. Please clarify.

A.20 Sand fill is also used to fill voids in Zone 2 & Zone 3 rock fill. Refer to Drawing CV 010 01

Q21. Section A-A on drawing CV01002 indicates geotextile under the Zone 1 – Rip Rap. The geotextile is not noted in section B-B and C-C of the same drawing. If this is correct, then geotextile under the Zone 1 – Rip Rap is required at the dam abutment area only?

A.21 The geotextile is required at the interface of Zone 1 and fine materials (such as sediments) and under the berm on the right shore (section BB) . It is not required at the interface of Zone 1 and excavated rock surface.

Q22. Please clarify; is the supply and installation of the 3 winch frames to be included in Lump Sum item 10 and the install of the four (4) PCA supplied hand winches be included in Lump Sum item 11?

A.22 Supply and installation of log lifter frame to be included in lump sum item 10. Installation of Parks Canada provided winches to be included in lump sum item 11.



Mandatory site visit attendance list

See attachment: Bobs Lake Dam Site Visit Attendance 29 Mar 18.

Pollution liability coverage

Contractors Pollution Liability is added to the Insurance Requirements

The policy must have a limit usual for a contract of this nature, but not less than **\$1,000,000** per incident or occurrence and in the aggregate.

See attachment enclosed.



ANNEX A - CERTIFICATE OF INSURANCE (Not required at solicitation closing)



CERTIFICATE OF INSURANCE

Description and Location of Work Bobs Lake Dam Reconstruction/ Rideau Canal National Historic Site, Bolingbroke, Ontario.	Contract No. 5P201-18-0013/A
	Project No.340

Name of Insurer, Broker or Agent	Address (No., Street)	City	Province	Postal Code
Name of Insured (Contractor) Code	Address (No., Street)	City	Province	Postal Code

Additional Insured
Her Majesty the Queen in right of Canada, referred to in the contract as "Her Majesty," represented by the Minister of the Environment for the purposes of the Parks Canada Agency, referred to in the contract as the "Minister"

Type of Insurance	Insurer Name and Policy Number	Inception Date D / M / Y	Expiry Date D / M / Y	Limits of Liability		
				Per Occurrence	Annual General Aggregate	Completed Operations Aggregate
Commercial General Liability				\$	\$	\$
Umbrella/Excess Liability				\$	\$	\$
Builder's Risk / Installation Floater				\$		
Pollution Liability				\$ <input type="checkbox"/> Per Incident <input type="checkbox"/> Per Occurrence	Aggregate \$	
Marine Liability				\$		
Aviation Liability				\$ <input type="checkbox"/> Per Incident <input type="checkbox"/> Per Occurrence	Aggregate \$	
Insert other type of insurance as required				\$		

I certify that the above policies were issued by insurers in the course of their Insurance business in Canada, are currently in force and include the applicable insurance coverage's stated on page 2 of this Certificate of Insurance, including advance notice of cancellation / reduction in coverage.

Name of person authorized to sign on behalf of Insurer(s) (Officer, Agent, Broker)

Telephone number

Signature

Date D / M / Y



General

The insurance policies required on page 1 of the Certificate of Insurance must be in force and must include the insurance coverage listed under the corresponding type of insurance on this page.

The policies must insure the Contractor and must include Her Majesty the Queen in Right of Canada as represented by the Minister of the Environment for the purposes of the Parks Canada Agency.

The Policy shall be endorsed to provide the Owner with not less than 30 days' notice in writing in advance of any cancellation or change or amendment restricting coverage.

Without increasing the limit of liability, the policies must protect all insured parties to the full extent of coverage provided. Further, the policies must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

Commercial General Liability

The insurance coverage provided must not be substantially less than that provided by the latest edition of IBC Form 2100.

The policy must either include or be endorsed to include coverage for the following exposures or hazards if the Work is subject thereto:

- (a) Blasting.
- (b) Pile driving and caisson work.
- (c) Underpinning.
- (d) Removal or weakening of support of any structure or land whether such support be natural or otherwise if the work is performed by the insured contractor.

The policy must have the following minimum limits:

- (a) **\$5,000,000** Each Occurrence Limit;
- (b) **\$10,000,000** General Aggregate Limit per policy year if the policy contains a General Aggregate; and
- (c) **\$5,000,000** Products/Completed Operations Aggregate Limit.

Umbrella or excess liability insurance may be used to achieve the required limits.

Builder's Risk / Installation Floater

The insurance coverage provided must not be less than that provided by the latest edition of IBC Forms 4042 and 4047.

The policy must permit use and occupancy of any of the projects, or any part thereof, where such use and occupancy is for the purposes for which a project is intended upon completion.

The policy may exclude or be endorsed to exclude coverage for loss or damage caused by asbestos, fungi or spores, cyber and terrorism.

The policy must have a limit that is **not less than the sum of the contract value** plus the declared value (if any) set forth in the contract documents of all material and equipment supplied by Canada at the site of the project to be incorporated into and form part of the finished Work. If the value of the Work is changed, the policy must be changed to reflect the revised contract value.

The policy must provide that the proceeds thereof are payable to Canada or as Canada may direct in accordance with GC10.2, "Insurance Proceeds" (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R/R2900D/2>).

Contractors Pollution Liability

The policy must have a limit usual for a contract of this nature, but not less than **\$1,000,000** per incident or occurrence and in the aggregate.