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Bid Fax: (418) 566-6167

**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
Northern Contaminated Site Program
Canada Place/Place du Canada
10th Floor/10e étage
9700 Jasper Ave/9700 ave Jasper
Edmonton
Alberta
T5J 4C3

Title - Sujet Rayrock Remediation Project Rayrock Remediation Project	
Solicitation No. - N° de l'invitation EW699-220778/B	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client PCC-EW699-220778	Date 2021-10-21
GETS Reference No. - N° de référence de SEAG PW-\$NCS-003-12159	
File No. - N° de dossier NCS-1-44063 (003)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Mountain Standard Time MST on - le 2021-11-09 Heure Normale des Rocheuses HNR	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Bilous, Isabelle	Buyer Id - Id de l'acheteur ncs003
Telephone No. - N° de téléphone (780) 782-8714 ()	FAX No. - N° de FAX (418) 566-6167
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
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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

This amendment is raised to modify solicitation EW699-220778/B as follows:

1. REVISED CLOSING DATE OF:
02:00 PM MST on 2021-11-09

2. Optional Site Visit

Date: Thursday, October 7, 2021
Location: Rayrock Mine, NT

Representatives from Canada

Isabelle Bilous, PSPC Contracting Authority
Carl Zaminer, Construction Safety Coordinator
Ron Breadmore, CIRNAC Project Manager
Andrew Richardson, CIRNAC Project Manager

AECOM, Engineering Design and Tender Support

Fairness Monitor

Francis Séguin, RCGT Consulting

Participants

Englobe Corp.
Milestone Environmental Contracting Inc.
Tlicho-Kiewit General Partnership
Sanexen Environmental Services Inc.
Rowe's Construction
Eco Technologies Ltée.
Delta Engineering

3. Questions and Answers:

Question 1: How quickly does the Water Treatment Plant (WTP) need to be set up?

Answer 1: The WTP is part of the critical path and lake water treatment is expected to commence in late May/early June 2022. It may be possible to fly in components later; however, the Project anticipates that the major components will be transported by winter road in early 2022.

The Project intent is to have the lake dewatered and sediment hydraulically removed in 2022. Blasting is anticipated in March-May 2022 to facilitate CDF construction once the snow is gone.

Question 2: The tender package identified a 90 day review period of the WTP before mobilization, which may not be possible given the current schedule.

Answer 2: As per the Specifications, the Mill Lake Water Treatment Facility Design and Construction Plan is to be submitted ninety (90) days prior to commencement of winter road mobilization activities. Winter road mobilization activities are not considered to have commenced until the winter road is fully constructed as described in Section 02 00 00 Winter Road.

Question 3: Can the water level in Mill Lake be modified during the work?

Answer 3: Yes, water levels can be adjusted by the Contractor as they see fit for construction and sediment removal. Contractor shall not allow lake water spillage into Mill Creek during construction as per specifications. The Project has anticipated that in order to build the CDF, the water level will need to be dropped by 1.5 m.

Question 4: Can we keep it at a low level?

Answer 4: Yes, water levels can be adjusted by the Contractor as they see fit for construction and sediment removal.

Question 5: Who is responsible for the design of the cofferdams?

Answer 5: The Contractor shall be responsible for both the need for and the design of the cofferdams. At a minimum a cofferdam is required upstream of the Mill Creek inlet as a precaution against spillage into Mill Creek during construction. The contractor may use waste rock and clay for cofferdam construction if desired. Materials used for this purpose are to be deposited into the CDF post use.

A cofferdam in Mill Cove (near the northeast corner of the CDF) may be constructed by the contractor if they intend to dewater this location prior to the construction of the CDF. This portion of the CDF can be constructed by the contractor at a later period if lower water levels are preferred. The method of construction for this portion of the CDF will be up to the "ways and means" of the contractor. Should the contractor elect to proceed with the use of a temporary cofferdam for this purpose they will be responsible for its design.

The Project anticipates that some residual sediment will remain at the lake bottom subsequent to hydraulic sediment excavation. The Project anticipates that this material would be removed with heavy equipment once the lake bottom has frozen and that the frozen excavated material would be placed into a temporary cofferdam to facilitate dewatering and placement into the CDF. The method of sediment removal will be up to the "ways and means" of the contractor. Should the contractor elect to proceed with the use of a temporary cofferdam for this purpose they will be responsible for its design.

Question 6: How many manual soundings were performed?

Answer 6: 113 manual sediment soundings were performed in Mill Lake. Data is summarized in Mill Lake Depth Measurements letter.

Question 7: What is the deepest point?

Answer 7: From the water surface, the deepest water measurement depth in Mill Lake has been 4.2 metres.

Question 8: Are there any fish in Mill Lake?

Answer 8: Various studies have been conducted and no fish have been identified in Mill Lake.

Question 9: With regards to crushing, are there any specs to meet or testing requirements?

Answer 9: Section 31 05 16 AGGREGATES FOR EARTHWORK identifies the gradations for Types A, B and C granular material as well as rip rap.

Question 10: Will the material need to be tested by a certified lab?

Answer 10: Certified lab analysis of granular materials are not required. As described in the Specifications, quality assurance (QA) testing will be performed on-site by the Departmental Representative. Contractor shall be responsible to meet gradation requirements as provided in the specifications and may choose to perform their own testing in addition as part of quality control (QC).

Question 11: Will there be a need for clay borrow?

Answer 11: There is a need for "Cohesive Soil" from on-site borrow sources. Material requirements are provided in Section 31 05 16 - AGGREGATES FOR EARTHWORK

Question 12: What is the intention for the waste removal process for the barge landing?

Answer 12: Waste at the barge landing is to be removed as described in the Specifications. The contractor can choose to consolidate waste and haul to a disposal facility direct from the Barge Landing without first taking to Rayrock. All waste handling and management requirements from the specifications must be followed.

Question 13: Will there be a limit to the camp size?

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- Answer 13:** The Contractor shall determine the camp size required to accommodate contractor staff, Departmental Representative and visitors as described in Section 01 52 00 Construction Facilities. As per Part C: Water Use of the Type A Water Licence W2020L8-0003, the maximum quantity of water that can be obtained from Sherman Lake for "camp operations, washing/dust control and remediation activities as approved through Remedial Action Plan" is 25,000 m³/year. Deviations from this limit must be formally requested by the Contractor and are subject to regulatory approval and associated timelines.
- Question 14:** Can we work 24 hours/day? Is there any limit to the work hours?
- Answer 14:** The Contractor will have to apply to WSCC for 24 hours/day work. Notification requirements for night work are described in Section 01 11 00, Clause 1.13 Night Work.
- Question 15:** Is there any information about the required bearing capacity for the geotubes?
- Answer 15:** Refer to Specification Section 31 05 19.14 Geotextile Tubes. The Contractor will need to identify geotextile tubes suitable for the purpose. The tubes will be placed atop bedrock with compacted granular surfacing. Settlement of the foundation is not anticipated. The geotextile tubes are to be filled to the maximum extent possible and stabilized and covered with Type B and waste material. Tubes are placed once the substrate conditions have been verified as per Clauses 3.1 and 3.2. The Contractor is to provide a Geotextile Tube Dewatering Installation and Management Plan.
- Question 16:** The specifications and drawings identify two layers of geotubes, is that set in stone?
- Answer 16:** No, there will be a range of tubes depending on the actual amount of sediment dredged and the rate of dewatering. We expect one full row and a partial second row. A third row can be added if necessary. The Contractor can request a specification deviation depending on their plan.
- Question 17:** Is there a design elevation for the CDF?
- Answer 17:** Design elevations are provided in the contract drawings. Final elevations will be adjusted based on the final settlement of the geotubes and the realized quantities of material placed in the CDF.
- Question 18:** What is the sequencing with regards to Contaminated Material?
- Answer 18:** Contaminated Materials will need to be removed from the CDF footprint before the CDF is constructed. The timing of Contaminated Materials removal outside of the CDF footprint is up to the "ways and means" of the contractor.
- Question 19:** Would the Contaminated Material be placed into the CDF after the geotextile tubes?
- Answer 19:** Yes.
- Question 20:** Is the grade of the CDF floor more than 1%?
- Answer 20:** Grades are shown on the cross sections and profiles in the contract drawings. Grades are typically less than 2%.
- Question 21:** Will there be blasting within the lake?
- Answer 21:** See Drawing C10 for blasting limits. Some blasting is required in the lake footprint subsequent to sediment removal.
- Question 22:** Is the intent to let the lake refill naturally?
- Answer 22:** No, the lake will be set to drain as provided in the drawings.
- Question 23:** Is there any information about coring in bedrock?
- Answer 23:** No
- Question 24:** What type of rock is the bedrock?
- Answer 24:** Granite
- Question 25:** Is the rock acid-generating?
- Answer 25:** No, according to the data we have.

Question 26: Are there permits for the two proposed winter road options?

Answer 26: Refer to Section 02 00 00 Winter Roads. It is the contractor's responsibility to obtain authorization and permits from GNWT Department of Transportation (DOT) or other AHJ for road access, overbuilding, over-sized loads and any other loads requiring authorizations or permits for Winter Roads. As per the Specifications, CIRNAC will provide the Contractor with a Winter Road Licence Agreement with the Tłı̨chǫ Government and the Contractor shall comply with the rules and requirements of this agreement. The Contractor must follow the Winter Road alignment shown on the Drawings. These routes are approved under the existing Land Use Permit and Water Licence.

Question 27: Are there fees associated with the winter road construction?

Answer 27: Winter road construction will be measured and paid for as described in Section 02 00 00 Winter Roads. The Contractor is responsible for any costs associated with obtaining authorization and permits from GNWT-DOT or other AHJ for Winter Roads.

Question 28: Where can bidders find Contractor guidance on water usage for winter roads?

Answer 28: Allowances for water usage for winter road construction can be found in the WLWB Recommendation for Approval of Water Licence: <https://registry.mylwb.ca/Documents/W2020L8-0003/Rayrock%20-%20Licence%20-%20Recommendation%20for%20Approval%20-%20Sep%2030%2021.pdf>

Question 29: Will there be a Departmental Representative (DR) during the construction of the winter road, or will they be present after construction?

Answer 29: There will be a periodic DR presence during the winter road construction.

Question 30: Will wildlife monitors be required in the winter / during winter road construction, or only during bear season?

Answer 30: As per Section 01 35 29.13 Health, Safety, and Emergency Response Procedures for Contaminated Sites Clause 1.18.8, the contractor is to provide a sufficient number of wildlife monitors with the appropriate firearms and ammunition to protect the safety of all workers in all areas, twenty-four (24) hours per day, for the duration of the construction seasons. The contractor is responsible for determining the number of wildlife monitors required for the protection of all workers.

Question 31: Has concrete on site been tested for asbestos?

Answer 31: Yes, there was no asbestos found in the concrete.

Question 32: Are there any archeological sites?

Answer 32: We are only aware of two: a teepee ring that is not within the work area and a historical anvil that is to be salvaged.

Question 33: Is there any Mine Heritage involvement?

Answer 33: Yes. There is an anvil, located near the former warehouse/office building, that is to be protected during construction activities. As described in Section 01 35 43 Environmental Procedures, Clause 1.5, other historical or archaeological sites and items of historical or scientific interest identified during the course of Work are to be protected.

Question 34: What is the volume of borrow coming out of blasting

Answer 34: Refer to Section 31 23 16.26 Rock Removal and the quantities included in the Unit Price Table in Appendix 1 of the RFP.

Question 35: What is the volume of water in Mill Lake?

Answer 35: See Specification Section 44 41 13 Clause 1.4.5.

Question 36: What are the allowable pumping rates from the lake?

Answer 36: There is no limit to daily pumping from Mill Lake and processing through the geosynthetic tubes. Refer to Section 44 41 13 Process Water Treatment for design maximum flowrates for the Process Water Treatment Plant. Deviations from these limits are subject to approval by the Departmental Representative and AHJ, and the associated timelines for such approval.

Question 37: Is there a specified camp location or water source for the camp?

Answer 37: Camp location is to be determined by Contractor. As per Section 01 52 00 Construction Facilities, 1.4.3 the contractor shall provide commercially sealed bottled water for drinking. As per Section 01 52 00 Construction Facilities, 1.4.4 the contractor shall supply bulk potable water to be used as Camp Hygiene Wash Water until such a time as it can demonstrated, by a minimum of two consecutive sets of analytical test results, that the local source meets the Health Canada Guidelines for Canadian Drinking Water Quality. The water licence allows for water withdrawal from Sherman Lake for the purposes of camp operations.

Question 38: Does material have to be removed?

Answer 38: Materials used in cofferdam construction are to be disposed of in CDF.

Question 39: Does the design rely on the geosynthetic tubes being intact? / What are the implications of tube tearing during construction?

Answer 39: Yes, the design relies on the geotubes remaining intact during the dewatering period in order to remove particulate from the filtrate water prior to the water being processed through the water treatment system. Dewatering efficacy relies on the tubes remaining intact. Tears or holes in geotextile tubes must be repaired per the manufacturer's standard operating procedures while a geotextile tube is online and/or receiving slurry. Slurry material lost from a tear or hole is to be recovered and replaced in a tube or can be returned to Mill Lake as necessary. The impact of slurry losses, regardless of the size, on the dewatering operation and influent to the water treatment plant must be managed by, and is the responsibility of the Contractor. Should a geotextile tube fail completely during dredging/pumping the slurry material can be returned to Mill Lake for future processing, if required and the tube replaced. Refer to Specification Section 31 05 19.14 Geotextile Tubes. Once 'filled' and DR authorizes placement of waste and Type B material, the tubes will likely have some damage.

Question 40: Will there be a cover for the lake bottom?

Answer 40: The Mill Creek inlet will be lowered by blasting of the bedrock and the lake bottom graded such that the lake will not refill. The lake bottom clays will be covered with biotic soil media and grass seed. This mix will be covered with biodegradable erosion control blanket.

Question 41: Do the lake bottom sediments in the area referred to as "Mill Cove" need to be removed prior to Confined Disposal Facility (CDF) construction?

Answer 41: All lake bottom sediments will need to be removed. The CDF must be constructed on competent material in Mill Cove. The timing/scheduling of the sediment removal is at the discretion of the contractor.

Question 42: Are the power lines still up?

Answer 42: Some of the power poles remain standing, but many are laying on the ground surface. The power lines are on the ground.

Question 43: Can the poles be cut at ground level, or do they need to be dug up?

Answer 43: They can be cut at ground level.

Question 44: Does all debris at the Barge Landing require removal?

Answer 44: Yes.

Question 45: The specifications identify various locations with debris. Is this where we focus our efforts, or does all debris need to be removed?

Answer 45: All debris requires removal. The Contractor will have to sweep the whole site. Locations identified as containing debris in the contract documents are those areas currently known to have the largest quantities of debris.

Question 46: What surface debris goes into the CDF?

Answer 46: Only items with elevated radiation levels. All waste must be screened for radiation before it is permitted to leave site.

Question 47: How should the concrete foundations be treated?

Answer 47: Foundations can be crushed and used as aggregate or placed into the CDF.

Question 48: Is wood considered debris?

Answer 48: Yes. As per Section 02 41 23 Debris Removal, untreated wood debris can be burned in accordance with the Contractor's Burn Permit and treated wood debris is to be managed as described.

Question 49: Can waste rock be temporarily stored outside of the high radiation zone? (South of the CDF).

Answer 49: As per Section 01 35 29.14 Radiation Protection, Clause 1.7.1.1.1, all Work within Mill Lake associated sediment removal, the CDF construction limits and associated Contaminated Material excavation, and Process Water Treatment activities shall all be performed within a High-Risk Radiation Zone (HR-RZ). This includes the handling and storage of Contaminated Material from the CDF construction limits. Additional detail regarding potential storage locations will be provided to bidders in a subsequent amendment.

Question 50: How clean does the rock have to be?

Answer 50: Refer to Section 31 05 16 Aggregates for Earthwork, Clause 1.5.8 and Section 32 92 19.16 Hydraulic Seeding, Clause 3.11.4.1. Areas of exposed bedrock shall be broom swept at the end of the project. Areas where waste rock is to be removed in the CDF area prior to blasting and construction are to be machine excavated as best as practical to the satisfaction of the DR subsequent to removal.

Question 51: Are there requirements for dust control?

Answer 51: Refer to Section 01 35 43 Environmental Procedures, Clause 1.13 Dust and Particulate Control. The existing Sediment and Erosion Control Plan has been provided to bidders as a Supporting Document.

Question 52: Are there thresholds/limits?

Answer 52: Refer to Section 01 35 43 Environmental Procedures, Clause 1.13 Dust and Particulate Control. The existing Sediment and Erosion Control Plan has been provided to bidders as a Supporting Document.

Question 53: Is there tailings in Mill Lake?

Answer 53: Not known to be.

Question 54: Is there snow drifting over Mill Lake in winter?

Answer 54: Possible, but the snow level was fairly uniform during February 2020 field work.

Question 55: At what level does Mill Lake overflow?

Answer 55: 215.0 metres above sea level

Question 56: What material will go on top of the geotextile tubes?

Answer 56: Type B granular

Question 57: Will the material in Mill Cove need to be removed? Will it go to the CDF or used as borrow?

Answer 57: Lake bottom sediments in Mill Cove cannot be buried in place. They will have to be removed and placed in the CDF.

Question 58: Are designs done on the mine openings?

Answer 58: No, the Contractor will provide the design. Conceptual designs are provided in the contract drawings and specifications.

Question 59: Do the caps need to be concrete?

Answer 59: No. Specification Section 03 05 11 Mine Openings Clause 1.4.1 identifies that "Any alternative design not involving reinforced concrete (e.g. stainless steel) will need the prior written permission and approval of the Chief Inspector of Mines, WSCC."

Question 60: When does the cofferdam need to be in place?

Answer 60: See response to Question 5.

Question 61: Does all debris in the waste rock need to be removed?

Answer 61: All debris in waste rock is to be removed as best as practical and taken off site for disposal with other debris. Debris that cannot be practically sorted from the waste rock can be placed in the CDF at the DR's discretion.

Question 62: Can the Tailings Containment Areas be crossed in the winter without mats?

Answer 62: Preservation of the TCA caps is a requirement of the Project and the Specifications require minimal disturbance to the TCAs. Refer to Section 01 11 00 Summary of Work, Clause 1.3.5.4 and Section 31 22 13 Rough Grading, Clause 1.2.2. As per Section 01 11 00 Summary of Work, Clause 1.3.5.4.1, the contractor may propose a vegetation preserving methodology other than rig mats to perform the work. If undesired vegetation disturbance or settlement (rutting) be observed on the TCA, work may be stopped by the Departmental Representative at the Contractor's expense.

Question 63: Is seeding required in all areas that are excavated?

Answer 63: Yes. See Section 32 92 19.16 Hydraulic Seeding

Question 64: Will the ponds at the borrow area be drained?

Answer 64: Refer to Section 31 22 13 Rough Grading, Clause 1.8.13 and Clause 1.8.16. Drawing C33 indicates the approximate limits of reclamation activities at the Former Airstrip Borrow Area and Former Waste Storage Borrow Area.

Question 65: Can bidders collect their own water samples from Mill Lake?

Answer 65: No, bidders cannot collect their own water samples from Mill Lake during the tender period. If bidders are seeking specific water quality information, they are encouraged to submit an enquiry to the Contract Authority. At their discretion and with appropriate notification, the successful contractor may decide to collect water samples from Mill Lake for treatability testing following contract award.

4. Mandatory Bidders' Conference

Date: Tuesday, October 12, 2021

Time: 10:00 - 11:30 AM

Location: Microsoft Teams

Representatives from Canada

Isabelle Bilous, PSPC Contracting Authority
Rebecca Studer-Halbach, PSPC Project Manager
Carl Zaminer, Construction Safety Coordinator
Ron Breadmore, CIRNAC Project Manager

AECOM, Engineering Design and Tender Support

Fairness Monitor

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Participants

Sanexen Environmental Services Inc.
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Nuna Logistics

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003

Buyer ID - Id de l'acheteur
NCS

Client Ref. No. - N° de réf. du client
PCC-EW699-220778

File No. - N° du dossier
NCS-1-44063

CCC No./N° CCC - FMS No./N° VME

Ledcor Contractors Ltd.
Bureau Veritas Laboratories
Metcor
Englobe Corp.

Note: The presentation and questions arising from the Bidders' Conference will be published in a forthcoming amendment.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.