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Public Works and Government Services Canada  
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Edmonton  
Alberta  
T5J 1S6  
Bid Fax: (780) 497-3510

**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  
Telus Plaza North/Plaza Telus Nord  
10025 Jasper Ave./10025 ave Jasper  
5th floor/5e étage  
Edmonton  
Alberta  
T5J 1S6

<b>Title - Sujet</b> Sewer Infrastructure Upgrade	
<b>Solicitation No. - N° de l'invitation</b> EW038-140126/A	<b>Amendment No. - N° modif.</b> 008
<b>Client Reference No. - N° de référence du client</b> CSC 20140126	<b>Date</b> 2013-07-08
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWU-201-9843	
<b>File No. - N° de dossier</b> PWU-3-36044 (201)	<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 2013-07-11</b>	<b>Time Zone</b> Fuseau horaire Mountain Daylight Saving Time MDT
<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> Ho (RPC), Hector	<b>Buyer Id - Id de l'acheteur</b> pww201
<b>Telephone No. - N° de téléphone</b> (780) 497-3543 ( )	<b>FAX No. - N° de FAX</b> (780) 497-3510
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**This amendment has been raised to answer the following questions:**

**QUESTION:**

1. Based on the lack of Quantity and Task information for this project, a thorough review of the drawings and site must be done to ensure that all work required is identified. We request that the tender closing date be extended until Thursday, July 18, 2013.

**ANSWER:**

1. We do not want to extend the closing date because of the required in service dates.

**QUESTION:**

2. Can you please provide a cut/fill plan identifying the cut in proposed cell 3 and the fill required in the Facultative cell.

**ANSWER:**

2. No, a cut/fill plan was not done.

**QUESTION:**

3. We firmly believe that a project of this type and magnitude should be a unit rate contract. This would benefit the owner and contractor equally. Please consider amending.

**ANSWER:**

3. This will not become a unit rate contract

**QUESTION:**

4. What is the anticipated award date of this contract?

**ANSWER:**

4. During the week of July 15 -19th.

**QUESTION:**

5. If the contract completion date gets pushed to the winter months, would winter construction be permitted?

**ANSWER:**

5. We would not stop construction as long as the contractor is able to perform during winter conditions.

**QUESTION:**

6. Is it possible for the Lagoon Operator to apply for an early release of effluent?

**ANSWER:**

6. This application can be made, however the Authority having jurisdiction would only allow this based on effluent qualities. There may be other regulatory issues that would apply to the denial of early release as well.

**QUESTION:**

7. Due to the high cost of de-sludging, and the difficulties in sludge volume estimation, can de-sludging of the proposed facultative cell be paid for as an extra to the contract or as a unit rate?

**ANSWER:**

7. No

**QUESTION:**

8. When was the last time the lagoon was de-sludged?

**ANSWER:**

8. I am not sure however these lagoons were in service in 1987. In 2001 the sludge buildup was tested and found to be minimal.

In October 2011 a report was completed by Al-Terra Engineering. The results are as follow:

**Volume and Depth of Sludge:**

The resulting information from the lagoon bottom and sludge interface was used to determine the depth of sludge across the bottom of the lagoons. A summary of the lagoon characteristics is listed in Table 1:

Lagoon	Bottom (m)	Top of Berm (m)	Sludge Elevation (m)	Total Volume (m <sup>3</sup> )	Sludge Volume (m <sup>3</sup> )
Primary 1	942.6	945.25	943.1	28,500	4,800

Secondary 1	942.1	944.75	942.3	48,500	4,000
Secondary 2	941.6	944.70	942.0	47,500	4,900

Total volume capacity of the lagoons is based on the survey and assumes a 0.60 m freeboard from the top of the berms. A total storage volume of the lagoons is estimated at 96,000 m<sup>3</sup>. This accounts for only the secondary lagoons, as the primary lagoon is not drained. The sludge volume is based

on the volume between the bottom of the lagoon and the elevation of the sludge interface.

The sludge TSS concentration at the interface would be low, and increase as with depth. This is noted as the majority of the volume in the above table is water, and actual volume of solids may be as low as 5% of the total volume.

**QUESTION:**

9. Is there an estimated flow rate of waste from the institution?

**ANSWER:**

9. The highest average daily flow recorded was in 2010 and was 372.2 cu.m.

**QUESTION:**

10. Can groundwater be pumped offsite via the drainage ditch on the north side of Cell 1?

**ANSWER:**

10. Yes, this should not be an issue, however, the contractor would need to establish the grades existing would carry the groundwater. The drainage would require maintenance by the contractor, and this would have to be considered in the construction of the new access.

**QUESTION:**

11. What volume of clay liner material is required for the floor of the proposed facultative cell? Is it expected that this material be found on site?

**ANSWER:**

11. Estimate volume to fill the floor of the proposed facultative cell is 12,000 cu.m.. and yes the material will be used from excavation of cell 3

**QUESTION:**

12. What is the depth of subgrade preparation? 150mm? 300mm?

**ANSWER:**

12. 150mm

**QUESTION:**

13. Please clarify the requirement for removing/decommissioning the test well.

**ANSWER:**

13. After excavation, the test well is to be capped with benonite

**QUESTION:**

14. Is it expected that the trees along the south berm of the facultative cell will need to be removed?

**ANSWER:**

14. No, there should be room between the bottom of berm and tree line to install forcemain. Existing fence will need to be removed and replaced.

**QUESTION:**

15. Can the mulching from the tree clearing be stockpiled next to the topsoil stockpile? ???

**ANSWER:**

15. The storage and stockpile of mulch can be arranged near where the tree removal is done. This material must still be removed from the site prior to the substantial completion of the project.

**QUESTION:**

16. Can the concrete splashpads be precast concrete?

**ANSWER:**

16. Yes

**QUESTION:**

17. Please confirm what level of survey layout will be provided by the Owner.

**ANSWER:**

17. Owner will provide all construction layouts. Quantity surveys will be the responsibility of the contractor

**QUESTION:**

18.. Please confirm that Blue Brute (C-900) is equivalent "PVC DR17".

**ANSWER:**

18. C-900 is approved equivalent