



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

**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

<b>Title - Sujet</b> North Apron Remediation	
<b>Solicitation No. - N° de l'invitation</b> EZ897-171552/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2016-10-05
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-031-7882	
<b>File No. - N° de dossier</b> PWY-6-39177 (031)	<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 2016-10-24</b>	
<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> Leung, Janie	<b>Buyer Id - Id de l'acheteur</b> pwy031
<b>Telephone No. - N° de téléphone</b> (604) 666-8228 ( )	<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> TC - Whitehorse Airport - Whitehorse, YT	

**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> Raison sociale et adresse du fournisseur/de l'entrepreneur	
<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 #001 is raised to:

- 1) Address questions
- 2) Provide revised Appendix 1 – Combined Price Form

**Questions and Answers**

1. Can you please clarify the contamination present at the site?

*Contaminants are petroleum hydrocarbons. This information has been added to the revised drawings.*

2. What does the hazardous waste in item #16 and #20 consist of?

*In previous adjacent excavations we encountered HW, so this is in the event we encounter this material again. In discussion with the consultant we believe the originally estimated quantities are high. Please see attached revised Combined Price Form.*

3. Can you clarify what the designation “Waste Quality” in Item #17 and #21 refers to?

*Waste Quality is defined in 011100 1.2.47, and this is the definition used by the Contaminated Sites Regulation.*

4. Do you have bulk soil data or TCLPs for the material?

*The soil concentrations are summarized on the revised Drawings.*

Please see revised drawings.

**Revised Appendix 1 – Combined Price Form**

Previously issued Appendix 1 of the Combined Price Form is now replaced with the revised Appendix 1 – Combined Price Form dated October 5, 2016. See attached.

The revised Appendix 1 of the Combined Price Form (dated October 5, 2016) must be used when submitting your bid. Any bid submitted on a previous version of Appendix 1 – Combined Price Form will be considered non-compliant and therefore disqualified.

**All other terms and conditions remain unchanged.**

**APPENDIX 1 - COMBINED PRICE FORM (3 pages) – revised October 5, 2016**

- 1) The prices per unit shall govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

**UNIT PRICE TABLE**

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

<b>BASE WORK (A)</b>					
	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable taxes extra (PU)	Extended amount (EQ x PU) applicable taxes extra
1.	Pre-Mobilization Submittals	Lump Sum	1		
2.	Mobilization	Lump Sum	1		
3.	Site Preparation	Lump Sum	1		
4.	Site Facilities Provision	Lump Sum	1		
5.	Site Facilities Operation	Week	4		
6.	Standby Time	Day	4		
7.	Contaminated Water Treatment Provision	Lump Sum	1		
8.	Contaminated Water Treatment Operation	Cubic Metres	5,000		
9.	Temporary Sloping and Shoring	Lump Sum	1		
10.	Waste Oversize Debris Removal	Hour	10		
11.	Excavation	Cubic Metres	16,100		
12.	Backfill – Imported 80mm Minus	Tonnes	3,420		
13.	Backfill – Imported Drain Rock	Tonnes	4,800		
14.	Backfill – Overburden	Cubic Metres	10,100		
15.	Backfill – Owner Supplied	Cubic Metres	2,000		
16.	Contaminated Material Transport – Offsite: Hazardous Waste	Tonnes	10		
17.	Contaminated Material Transport – Offsite: Waste Quality	Tonnes	10		
18.	Contaminated Material Transport – Owner Soil Treatment Facility	Cubic Metres	4,400		
19.	Non-Contaminated Material and Waste Transport	Tonnes	50		
20.	Contaminated Material Disposal: Hazardous Waste	Tonnes	10		
21.	Contaminated Material Disposal: Waste Quality	Tonnes	10		
22.	Non-Contaminated Material and Waste Disposal	Tonnes	50		
23.	Site Restoration	Lump Sum	1		

<b>BASE WORK (A)</b>					
	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable taxes extra (PU)	Extended amount (EQ x PU) applicable taxes extra
24.	Demobilization	Lump Sum	1		
25.	Closeout Submittals	Lump Sum	1		
<b>TOTAL PRICE PROPOSAL AMOUNT</b>					
Excluding GST					

Pricing described in Optional Work, below, must be provided by the bidder.

Optional Work: Items 26-40 are Work shown as an optional additional to this tender package. All bids must include the aforementioned lines in the unit price table. Any bids without the inclusion of these lines will be deemed non-compliant.

Optional Goods and/or Services:

The Contractor grants to Canada the irrevocable option to acquire the goods, services, or both described below as Optional Work and as described in Specifications and Drawings of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option before the expiry of the Contract by sending a written notice to the Contractor.

<b>OPTOINAL WORK (B)</b>					
	Class of Labour, Plant or Material	Unit of Measure-ment	Estimated Quantity (EQ)	Price per Unit applicable taxes extra (PU)	Extended amount (EQ x PU) applicable taxes extra
26.	Site Facilities Operation	Week	1		
27.	Standby Time	Day	1		
28.	Contaminated Water Treatment Operation	Cubic Metres	1,000		
29.	Temporary Sloping and Shoring	Lump Sum	1		
30.	Waste Oversize Debris Removal	Hour	2		
31.	Excavation	Cubic Metres	3,000		
32.	Backfill – Imported 80mm Minus	Tonnes	300		
33.	Backfill – Imported Drain Rock	Tonnes	1,700		
34.	Backfill – Overburden	Cubic Metres	2,000		
35.	Contaminated Material Transport – Offsite: Hazardous Waste	Tonnes	10		
36.	Contaminated Material Transport – Owner Soil Treatment Facility	Cubic Metres	1,000		
37.	Non-Contaminated Material and Waste Transport	Tonnes	10		
38.	Contaminated Material Disposal: Hazardous Waste	Tonnes	10		
39.	Non-Contaminated Material and Waste Disposal	Tonnes	10		

Solicitation No. - N° de l'invitation  
EZ897-171552/A

Amd. No. - N° de la modif.  
001

Buyer ID - Id de l'acheteur  
PWY031

Client Ref. No. - N° de réf. du client

File No. - N° du dossier  
PWY-6-39177

CCC No./N° CCC - FMS No./N° VME

<b>OPTIONAL WORK (B)</b>					
	Class of Labour, Plant or Material	Unit of Measure-ment	Estimated Quantity (EQ)	Price per Unit applicable taxes extra (PU)	Extended amount (EQ x PU) applicable taxes extra
40.	Site Restoration	Lump Sum	1		
<b>TOTAL PRICE PROPOSAL AMOUNT</b> Excluding GST					

**TOTAL EVALUATED BID PRICE**

<b>A. Total Extended Amount –Base Work</b>	<b>\$</b>
<b>B. Total Extended Amount –Optional Work</b>	<b>\$</b>
<b>Total Bid Amount</b> Excluding applicable tax(s)	<b>\$</b>

NOTES:  
 REFERENCED FROM GOVERNMENT OF YUKON GIS DATA AND CITY OF WHITEHORSE GIS OPEN DATA, 2015 NORTH APRON REMEDIATION, WHITEHORSE INTERNATIONAL AIRPORT, WHITEHORSE, YUKON TERRITORY CONDUCTED BY ARCADIS CANADA INC. DATED MARCH 2016. IMAGERY: © 2016 GOVERNMENT OF YUKON (IMAGE DATE: 2011).

UTILITY LOCATIONS ARE APPROXIMATE.

UTILITIES ON THIS SITE ARE BASED OFF UTILITY MAPS AS SUCH UTILITIES ARE NOT VERIFIED FOR CURRENT CONFIGURATION AND MUST BE PROPERLY LOCATED IN THE FIELD

LEGEND:

- PROPERTY BOUNDARY
- 2016 PROPOSED AIRSIDE WORK AREA
- PROPOSED SITE ACCESS ROUTE
- FENCE
- PROPOSED 2016 EXCAVATION
- 2015 EXCAVATION
- 2013 EXCAVATION
- 2010 EXCAVATION
- 2009 EXCAVATION
- 2008 EXCAVATION
- UTILITIES**
- U/G FUEL PIPELINE
- U/G ELECTRICAL LINE
- U/G ELECTRICAL LINE (ABANDONED)
- U/G SANITARY SEWER LINE
- U/G SANITARY SEWER LINE (ABANDONED)
- U/G STORM SEWER LINE
- U/G STORM SEWER LINE (ABANDONED)
- U/G WATER LINE (ABANDONED)
- U/G UNKNOWN LINE



SCALE 1:600

WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT  
 NAD 1983 UTM Zone 8 V

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

PUBLIC WORKS AND GOVERNMENT SERVICES  
 ON BEHALF OF TRANSPORT CANADA  
 WHITEHORSE INTERNATIONAL AIRPORT  
 316-75 BARKLEY GROW CRESCENT  
 WHITEHORSE, YUKON

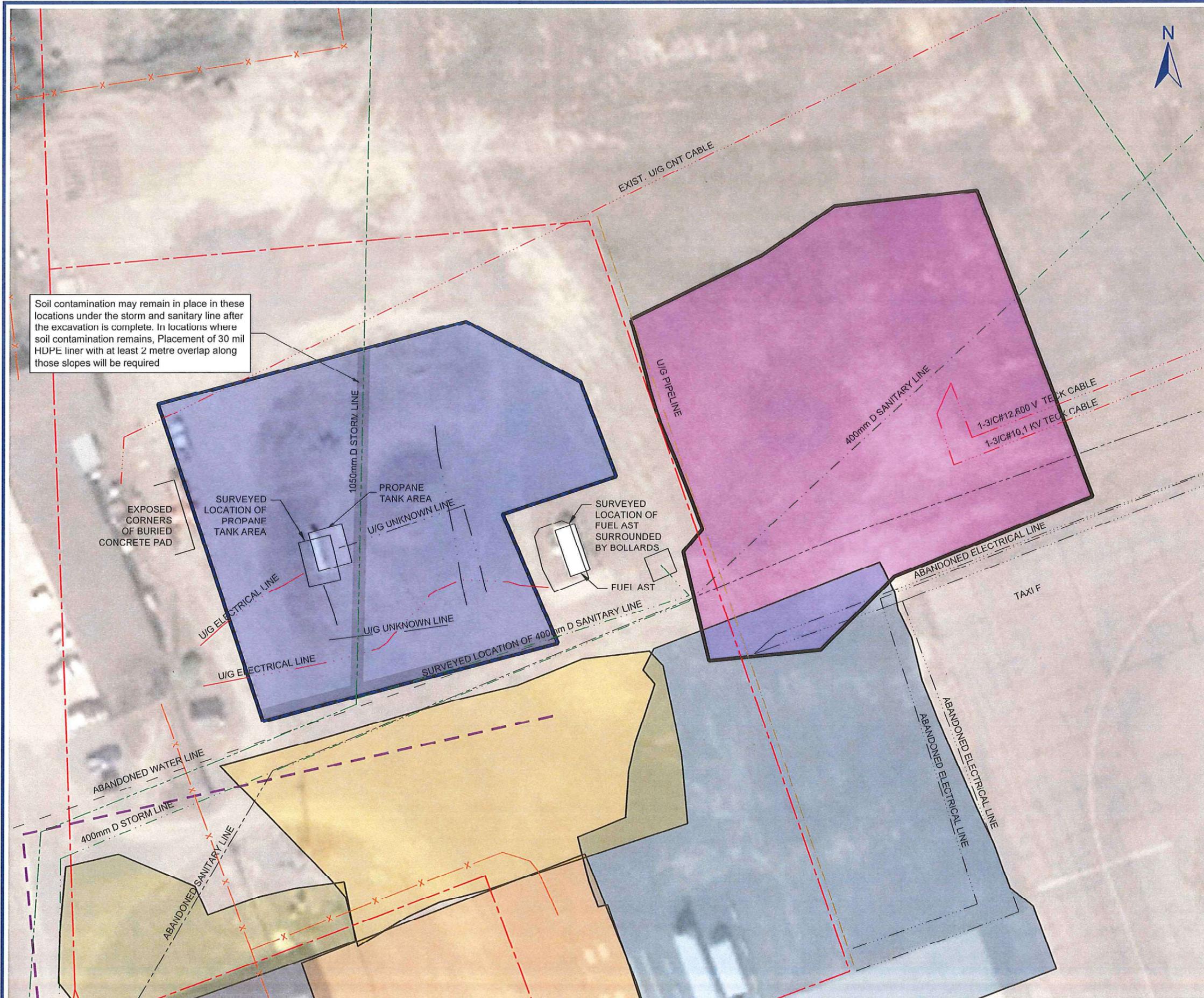
2016 NORTH APRON REMEDIAL EXCAVATION

KNOWN UTILITIES

Date: September 12, 2016	Drawing No. 4
Project No. 205.03819.00000	



Caddfile name: S\_205-03819-00001-A1.dwg



Soil contamination may remain in place in these locations under the storm and sanitary line after the excavation is complete. In locations where soil contamination remains, Placement of 30 mil HDPE liner with at least 2 metre overlap along those slopes will be required

Max Soil concentrations identified within excavation extents		Max Ground water concentrations identified within excavation extents	
mg/kg		ug/L	
YPH	310	YPH	13000
EPH (c10-13)	2000	VH	21000
		Toluene	2200
		LEPH	6680
		Naphthalene	90
		phenanthrene	3.7
		pyrene	1.3
		BaP	0.71

**PHASE II 2016 EXCAVATION**

- Low profile barriers required
- Excavate in stages the overburden approximately 0 - 3 m or otherwise directed
- Excavate in stages contaminated zone approximately 3 - 5 m or otherwise directed
- Transport contaminated soil to owner supplied facility shown on drawing 1
- Backfill with client supplied backfill or imported drain rock as directed by departmental representative
- Drain rock must be 50mm to 150mm drain rock
- Moisture condition as required and compact to 95% Standard Proctor
- Finish with 0.3 m of GRAN D (80 mm minus), moisture condition and compact to 98% of Standard Proctor
- GRAN D is defined as 80 mm minus screened pit run as specified by the Government of Yukon materials specifications for granular courses, base course, and sub base course GRAN A, B, C, D, E, F included in appendix B

**PHASE I 2015 FIX AREA**

- Low profile barriers required
- Excavate in stages to 1.5 mbgs
- Place stockpiled material in 0.3 m lifts
- Moisture condition as required and compact to 95% Standard Proctor
- Finish with 0.3 m of GRAN D (80 mm minus), moisture condition and compact to 98% of Standard Proctor
- GRAN D is defined as 80 mm minus screened pit run as specified by the Government of Yukon materials specifications for granular courses, base course, and sub base course GRAN A, B, C, D, E, F included in appendix B

**NOTES:**  
 REFERENCED FROM GOVERNMENT OF YUKON GIS DATA AND CITY OF WHITEHORSE GIS OPEN DATA, 2015 NORTH APRON REMEDIATION, WHITEHORSE INTERNATIONAL AIRPORT, WHITEHORSE, YUKON TERRITORY CONDUCTED BY ARCADIS CANADA INC. DATED MARCH 2016. IMAGERY: © 2016 GOVERNMENT OF YUKON (IMAGE DATE: 2011).

UTILITY LOCATIONS ARE APPROXIMATE.

**LEGEND:**

- PROPERTY BOUNDARY
- ▭ 2016 PROPOSED AIRSIDE WORK AREA
- - - PROPOSED SITE ACCESS ROUTE
- X FENCE
- ⊕ MONITORING WELL
- ⊕ TEST PIT
- EXCEEDS FOR SOIL OR GROUNDWATER PARAMETER
- COMPLIANT
- ▭ PROPOSED 2016 EXCAVATION
- ▭ 2015 EXCAVATION
- ▭ 2013 EXCAVATION
- ▭ 2010 EXCAVATION
- ▭ 2009 EXCAVATION
- ▭ 2008 EXCAVATION
- UTILITIES
- U/G FUEL PIPELINE
- U/G ELECTRICAL LINE
- U/G ELECTRICAL LINE (ABANDONED)
- U/G SANITARY SEWER LINE
- U/G SANITARY SEWER LINE (ABANDONED)
- U/G STORM SEWER LINE
- U/G STORM SEWER LINE (ABANDONED)
- U/G WATER LINE (ABANDONED)
- U/G UNKNOWN LINE

**PERMIT TO PRACTICE**  
**TETRA TECH EBA INC.**  
 SIGNATURE: *[Signature]*  
 Date: Oct 3/16  
 PERMIT NUMBER PP003  
 Association of Professional Engineers of Yukon

**PROFESSIONAL ENGINEER**  
 YUKON  
 CHADWYCK P. COWAN  
 TERRITORY ENGINEER

0 25 50 100 m  
 SCALE 1:1,500  
 WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT  
 NAD 1983 UTM Zone 8 V  
 THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

**PUBLIC WORKS AND GOVERNMENT SERVICES**  
 ON BEHALF OF TRANSPORT CANADA  
 WHITEHORSE INTERNATIONAL AIRPORT  
 316-75 BARKLEY GROW CRESCENT  
 WHITEHORSE, YUKON

**2016 NORTH APRON REMEDIAL EXCAVATION**

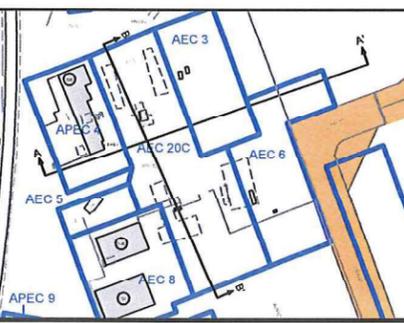
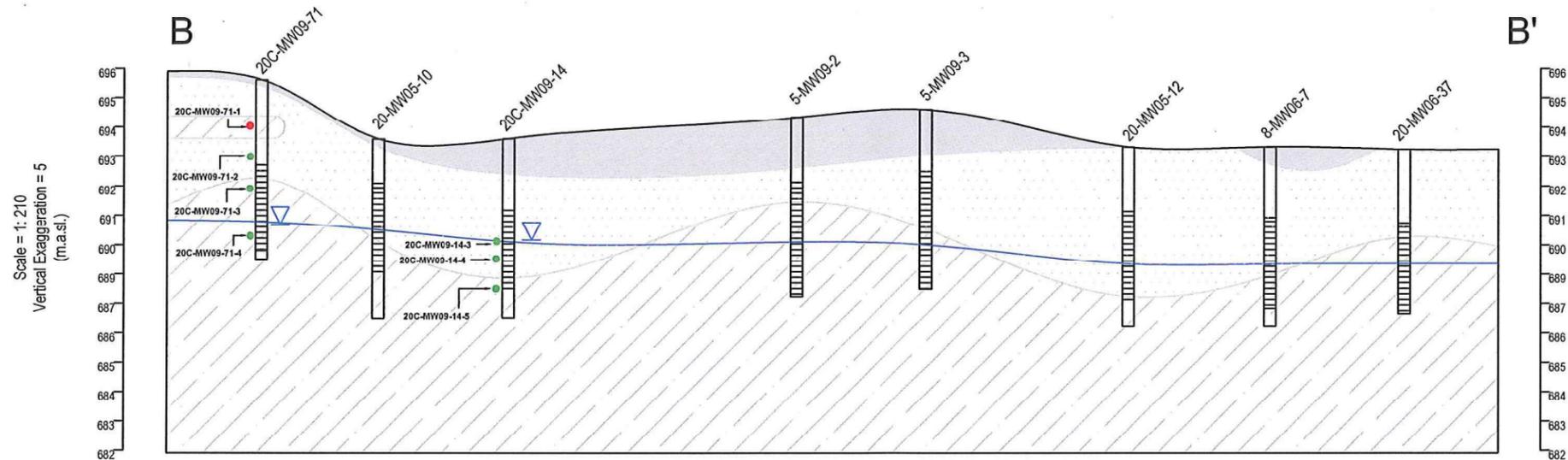
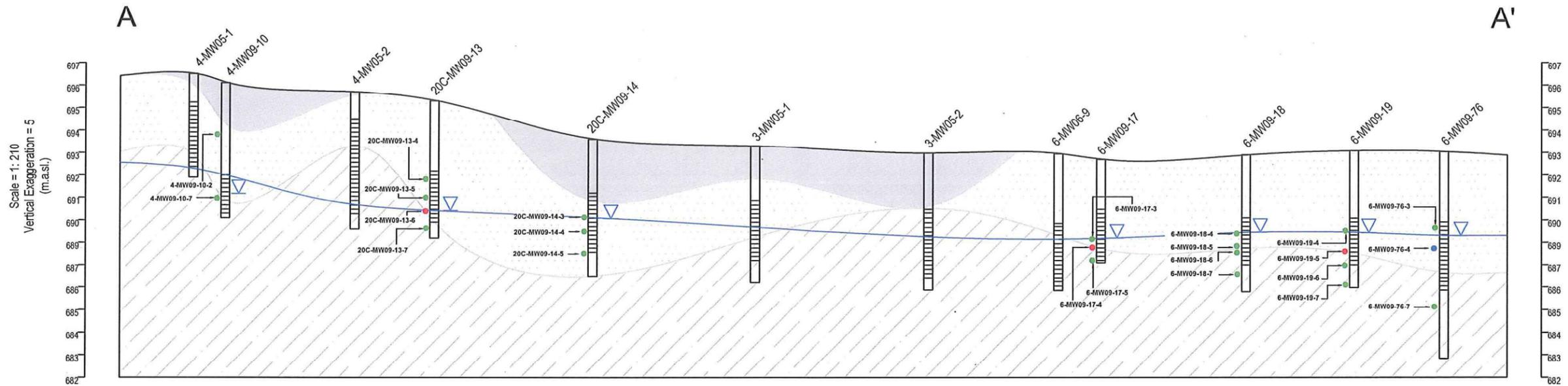
**WORK DESCRIPTION**

Date: September 27, 2016 Drawing No. 5  
 Project No. 205.03819.00000



Base Work					
area	surface area (m <sup>2</sup> )	Approximate Contaminated Soil Depth interval (m)	Estimated Contaminated Soil Volume (m <sup>3</sup> ) in-situ	Overburden depth interval (m)	Estimated non-impacted overburden Soil Volume (m <sup>3</sup> ) in-situ
1	1500	3.0 to 5.0	3000	0 to 3.0	4500
2	700	0.5 to 2.5	1400	0 to 0.5	350
Phase I 2015 Fix area	3500	N/A	N/A	0 to 1.5	5250
Optional Work					
3	500	4.0 to 6.0	1000	0 to 4.0	2000

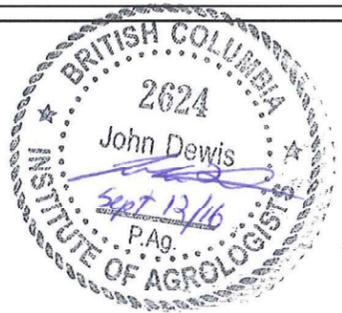
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**LEGEND**

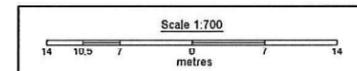
- Sand and Gravel
- Sand
- Silt
- Water Level\* (mbgs)
- Water Table\*\*

- One or more analytical parameters are greater than the applicable YT CSR CL soil standards
- All analytical parameters are less than the applicable YT CSR CL soil standards
- One or more analytical parameters are greater than the applicable YT SW soil standards
- Screen



\* Water level from direct measurement in the field  
 \*\* Water table inferred from water levels measured in the field

Horizontal exaggeration = 1.5

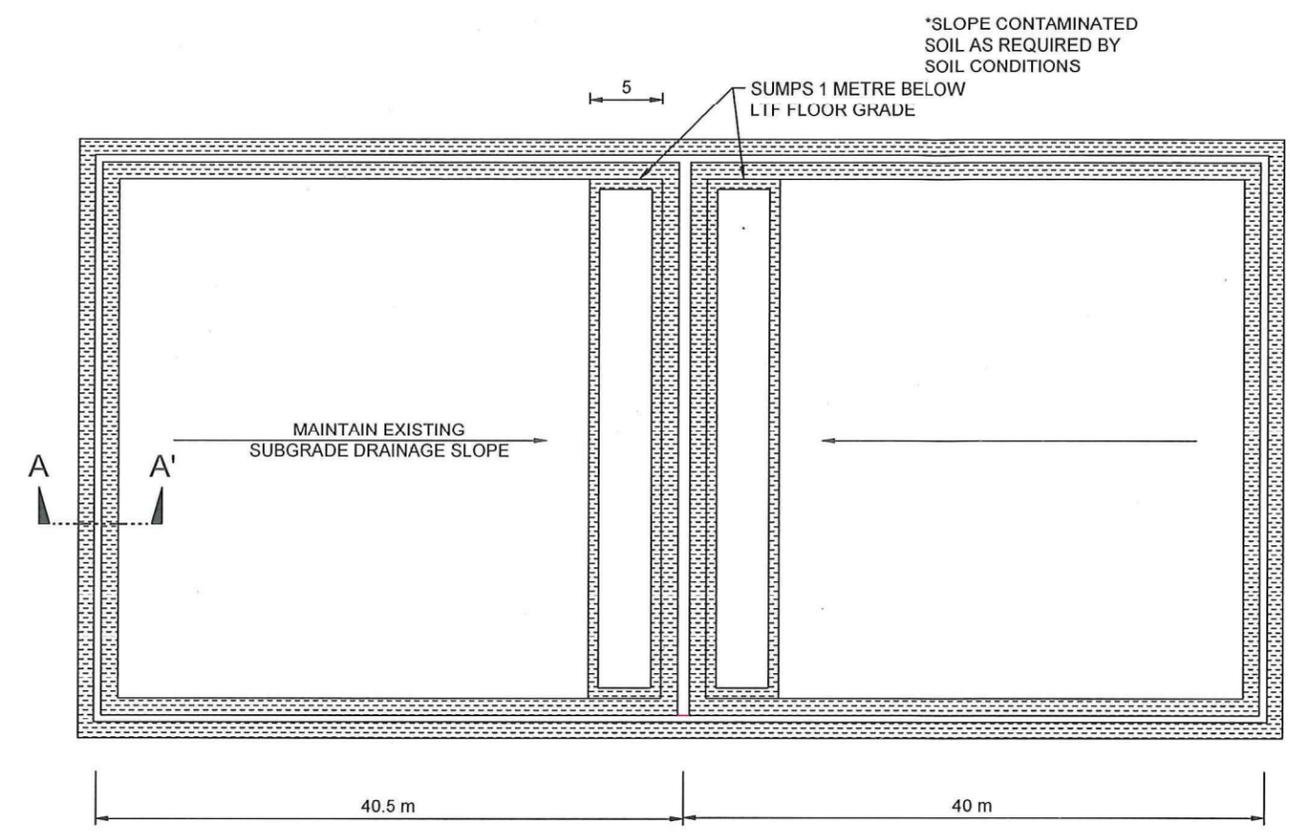


Title:	CROSS-SECTION
Project:	WHITEHORSE AIRPORT 2009 INVESTIGATION PROGRAM
Client:	PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
Date:	MARCH 2010
<b>Drawing 6</b>	

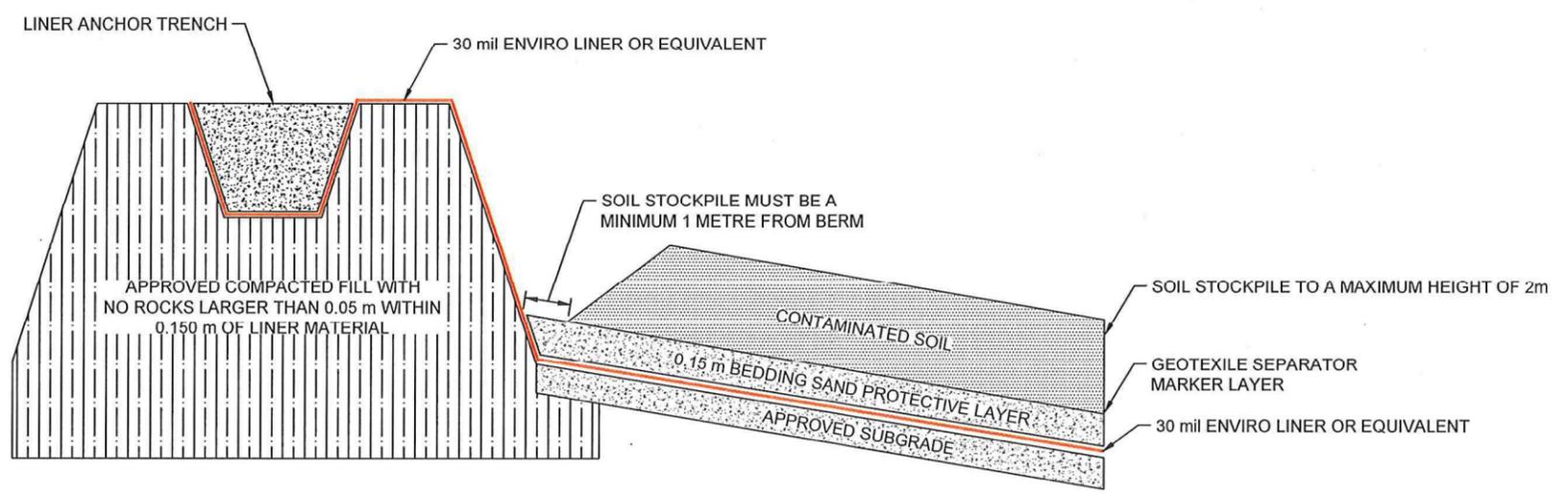


NOTES:  
 REFERENCED FROM: CITY OF WHITEHORSE OPEN DATA CATALOGUE, SNC LAVALIN DRAWING NO. 2 TITLED: SUMP WATER COLLECTION AND DISCHARGE LOCATION (09\_16\_15), FRANZ ENVIRONMENTAL INC. DRAWING 3 TITLED: LTF 1 & 2 DETAIL PLAN AND BERM CROSS SECTION (06\_14) AND SITE RECONNAISSANCE INFORMATION.

LEGEND:  
  
 BERM  
 A A'  
 CROSS SECTION LINE



A A'



NOTES:  
 -FILL COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY  
 -BERM SLOPES TO BE OVERBUILT, COMPACTED TO 95%, AND CUT BACK TO FINAL DESIGN CONFIGURATION



NOT TO SCALE  
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PUBLIC WORKS AND GOVERNMENT SERVICES  
 WHITEHORSE INTERNATIONAL AIRPORT  
 WHITEHORSE, YUKON

2016 LTF TREATMENT PROGRAM

Owner Supplied Land Treatment Facility  
 Details

Date: August 8, 2016	Drawing No. 7
Project No. 205.03820.00000	

