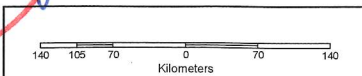


LEGEND

 Site location

PROFESSIONAL
YUKON
RICHARD J. WELLS
TERRITORY
ENGINEER

Not for construction
Original in colour



Title:

KEY PLAN

Project:

2015 AEC6 REMEDIATION
WHITEHORSE INTERNATIONAL AIRPORT,
YUKON

Client:



PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA

Date:

JULY 2015



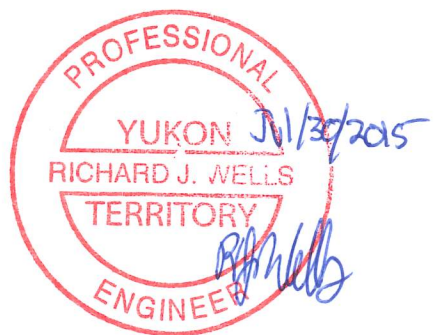
ARCADIS
Infrastructure · Water · Environment · Buildings

DRAWING 1

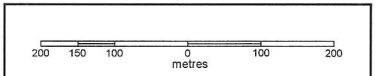


LEGEND

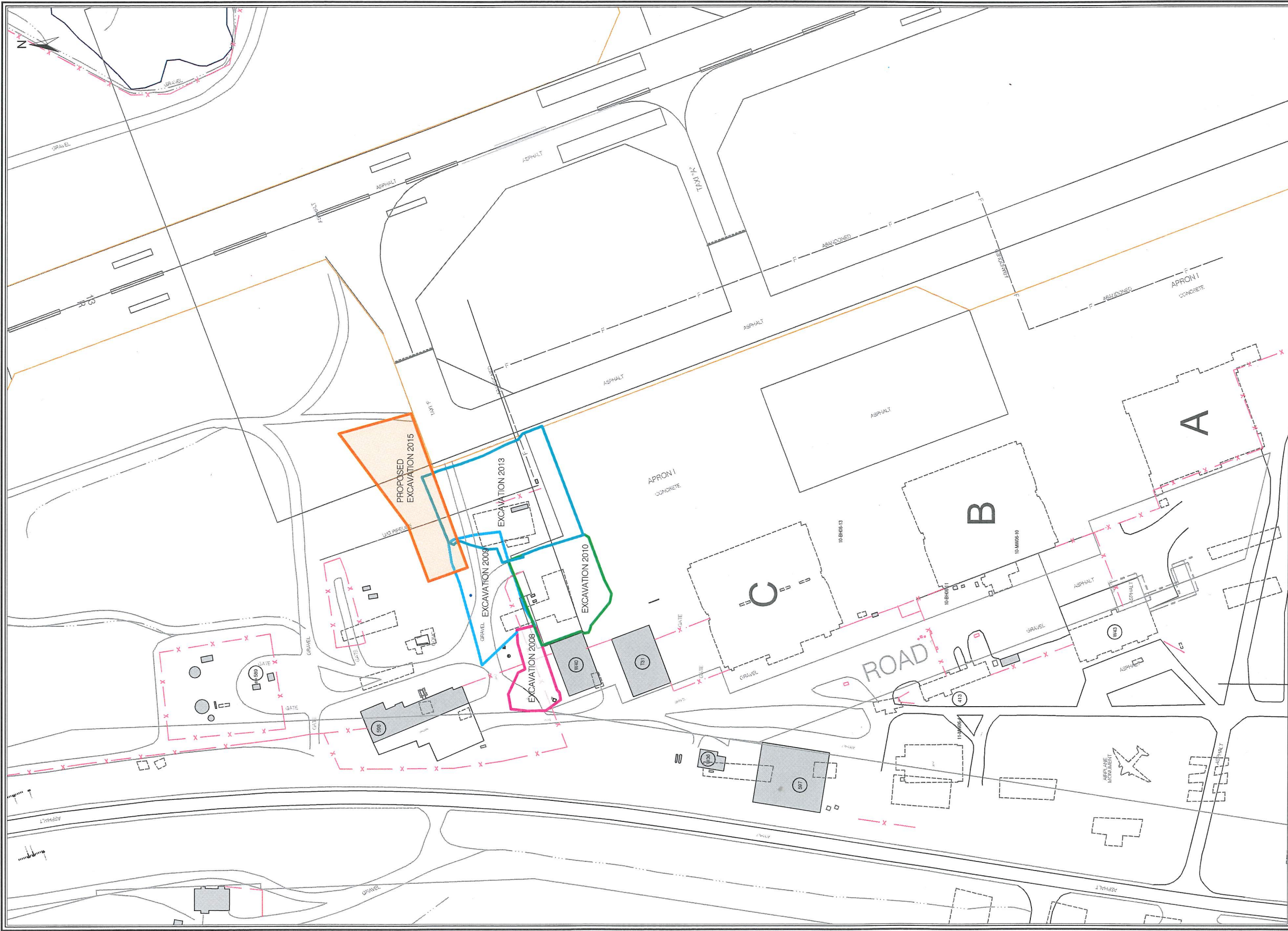
Site Location



Not for construction
Original in colour



Title:	SITE LOCATION		
Project:	2015 NORTH APRON REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON		
Client:	 PUBLIC WORKS AND GOVERNMENT SERVICES CANADA		
 ARCADIS Infrastructure · Water · Environment · Buildings	Date:	JULY 2015	
	DRAWING 2		






LEGEND

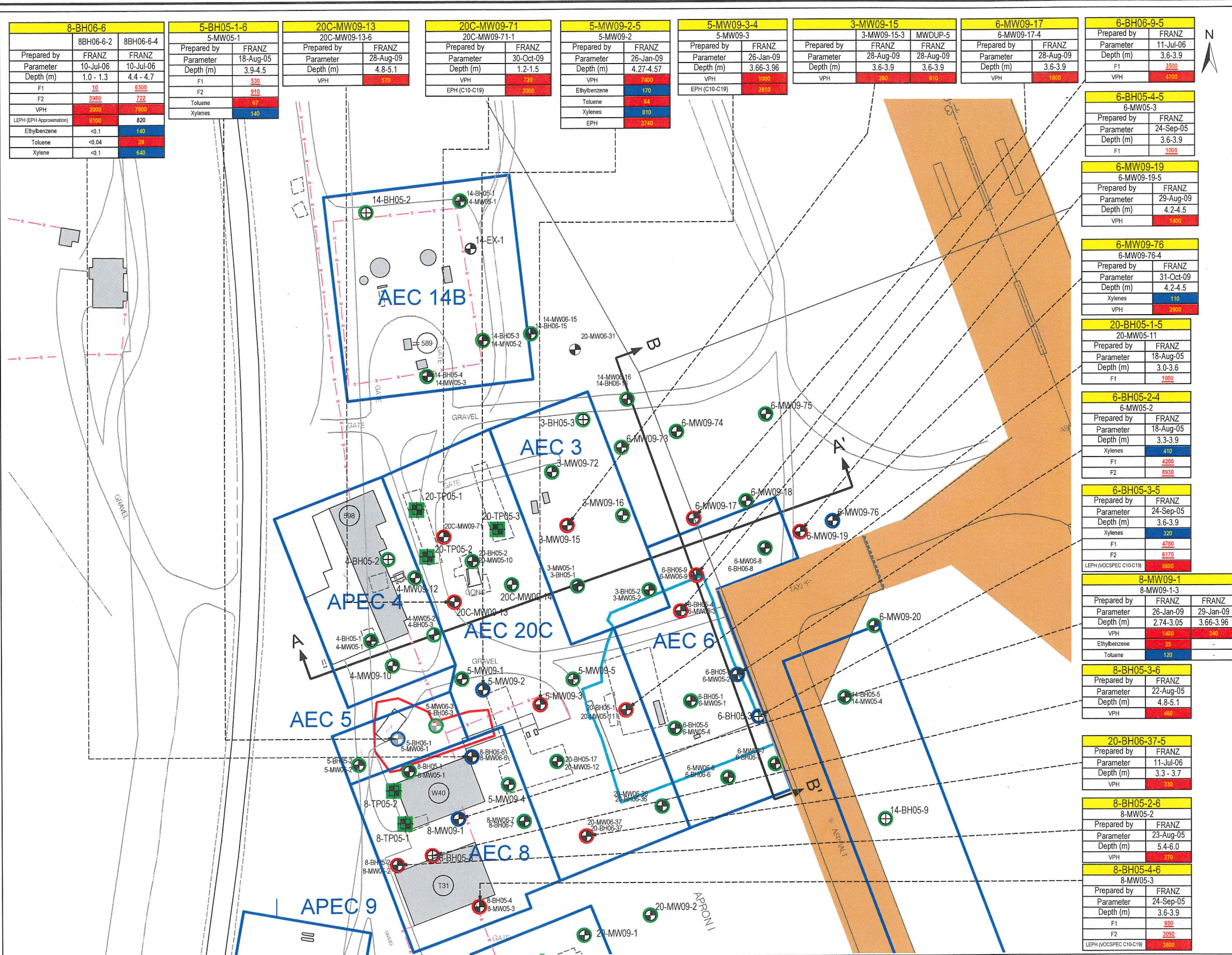
- Fence
- Existing Building/Structure
- Former Building/Structure
- Excavation 2008
- Excavation 2009
- Excavation 2010
- Excavation 2013
- Proposed Excavation 2015



Not for construction
Original in colour

PROPOSED REMEDIATION AREA 2015

 Infrastructure · Water · Environment · Buildings	Project: 2015 NORTH APRON REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON	
	Date: JULY 2015	Client:  PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
		DRAWING 3



LEGEND

- Fence
- Trails
- Existing Building/Structure
- Former Building/Structure
- Area of Potential Environmental Concern
- 2008 AEC 5 Remediation
- 2013 AEC 6 Remediation
- Borehole
- Monitoring Well
- Decommissioned Monitoring Well
- Test Pit

All analytical parameters are less than the YT CSR CL Standard

One or more analytical parameters are greater than the YT CSR CL Standard

One or more analytical parameters are greater than the YT SW Standard

Applicable Standards and Guidelines

Parameter	Standard
LEPH (EPH Approximation)	2000µg/g
LEPH (VOCSPEC C10 - C19)	2000µg/g
Toluene	25 µg/g
Ethylbenzene	20 µg/g
Xylenes	50 µg/g
Arsenic	15 µg/g
VPH	200 µg/g

1. YT CSR CL Standard.

Value	Standard
999	Value is greater than the applicable CWS PHC
999	Value is greater than the applicable YT CSR CL Standard
999	Value is greater than the applicable YT SW Standard

PROFESSIONAL
YUKON
RICHARD J. WELLS
TERRITORY
See DRAWING 4b for 2013 Remediation results
Not for construction
Original in colour

10 0 10 30 60m

Title: SOIL ANALYTICAL RESULTS 2005 - 2009 NORTH APRON

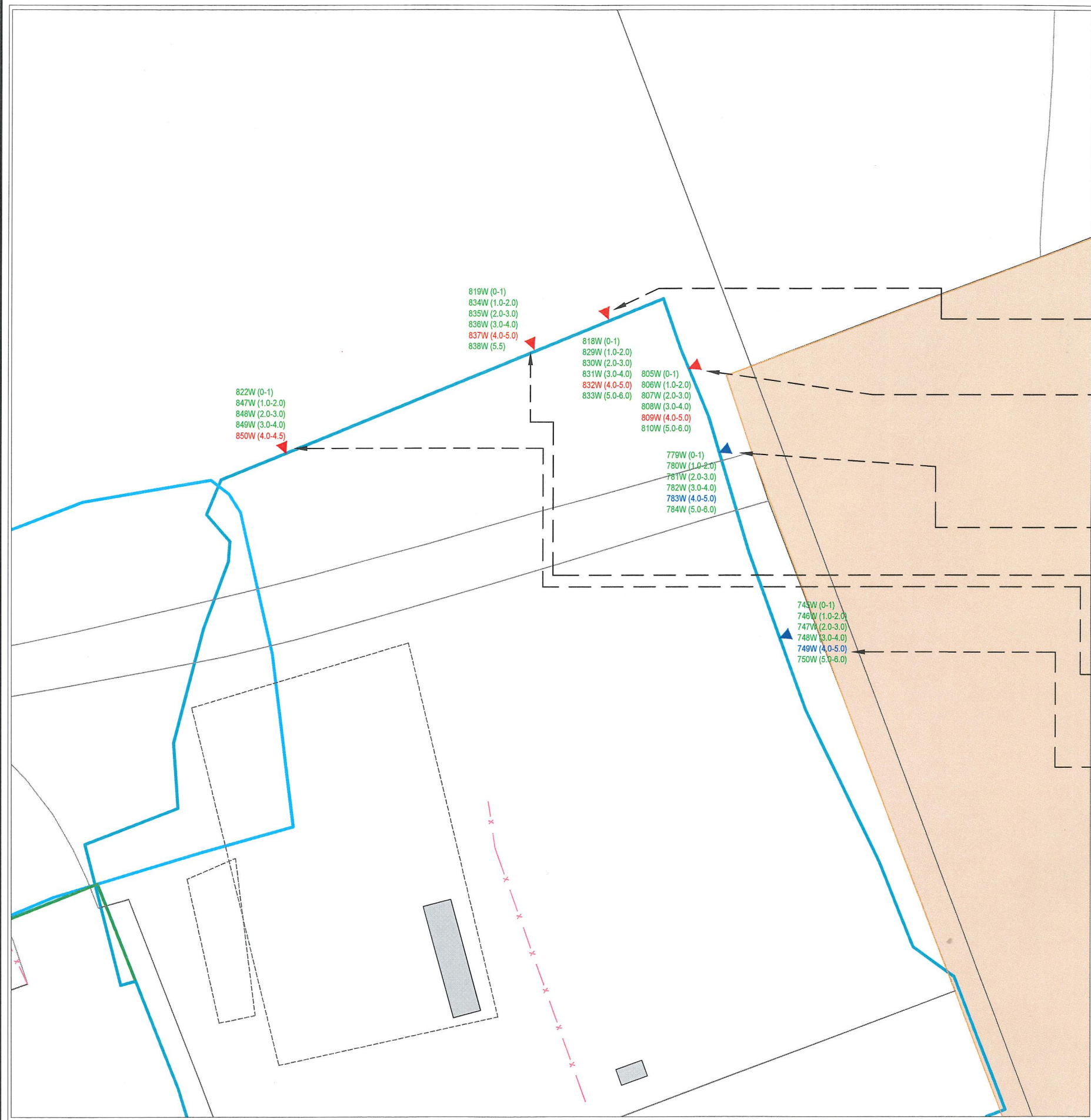
Project: 2015 NORTH APRON REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON

Client: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Date: JULY 2015

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Infrastructure - Water - Environment - Buildings

DRAWING 4a



6-EXC-832W	
Date:	01/11/2013
Depth (m):	4 - 5
Toluene	65
VPH (VH6-10) minus BTEX	3700

6-EXC-809W	
Date:	28/10/2013
Depth (m):	4 - 5
Toluene	26
VPH (VH6-10) minus BTEX	1100

6-EXC-783W	
Date:	22/10/2013
Depth (m):	4 - 5
Benzene	16
Ethylbenzene	44
Toluene	230
Total Xylenes (total)	230
VPH (VH6-10) minus BTEX	13000

6-EXC-837W	
Date:	01/11/2013
Depth (m):	4 - 5
Toluene	48
VPH (VH6-10) minus BTEX	2400

6-EXC-850W	
Date:	01/11/2013
Depth (m):	4 - 4.5
VPH (VH6-10) minus BTEX	420

6-EXC-749W	
Date:	16/10/2013
Depth (m):	4 - 5
Benzene	13
Ethylbenzene	55
Toluene	280
Total Xylenes (total)	490
VPH (VH6-10) minus BTEX	240

LEGEND

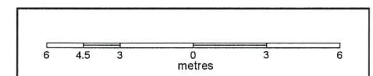
- Fence
- Existing Building/Structure
- Former Building/Structure
- 2008 Excavation
- 2009 Excavation
- 2010 Excavation
- 2013 Excavation
- Confirmatory Wall Sample
- One or more analytical parameters are greater than the applicable YK CSR CL Standard
- One or more analytical parameters are greater than the applicable YK CSR SW Standard
- (4.5) - Sample depth in meters



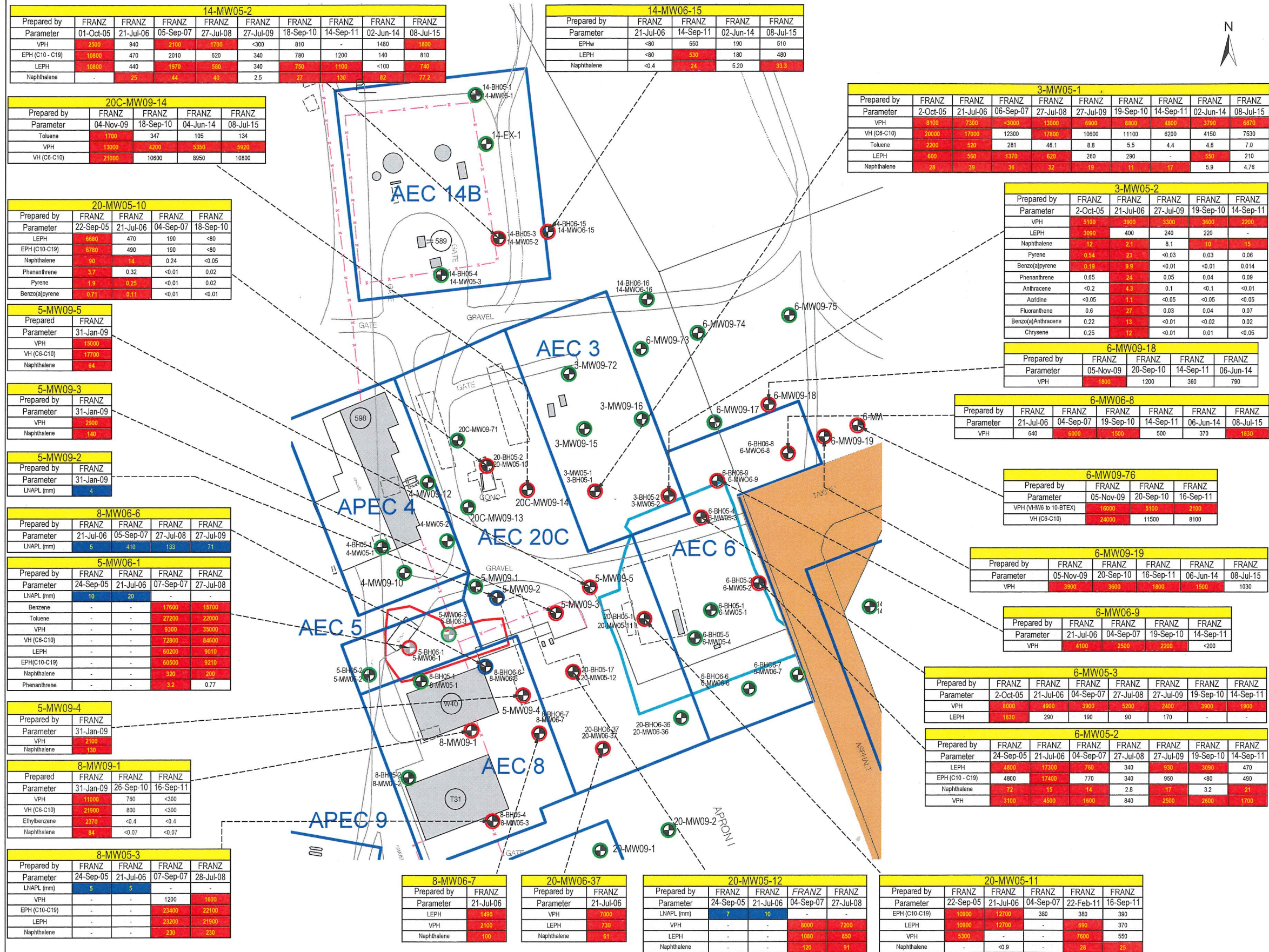
APPLICABLE STANDARDS

Parameter	YK CSR CL/IL	YK CSR SW
Benzene	10 mg/kg	NS
Ethylbenzene	20 mg/kg	100 mg/kg
Toluene	25 mg/kg	100 mg/kg
Xylenes (Total)	50 mg/kg	100 mg/kg
VPH (VHW6 to 10 - BTEX)	200 mg/kg	NS

Not for construction
Original in colour



Title:	CONFIRMATORY SOIL SAMPLE LOCATIONS		
Project:	2015 AEC6 REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON		
Client:	PUBLIC WORKS AND GOVERNMENT SERVICES CANADA		
Project Number: 1043-1921	Drawn By: CB	Plot Size: 11X17"	Date: JULY 2015
Infrastructure · Water · Environment · Buildings			DRAWING 4b



LEGEND

- Fence
- Trails
- Existing Building/Structure
- Former Building/Structure
- Area of Potential Environmental Concern
- 2008 AEC 5 Remediation
- 2013 AEC 6 Remediation
- Monitoring Well
- Decommissioned Monitoring Well
- All analytical parameters are less than the YT CSR AW Standard
- One or more analytical parameters are greater than the applicable YT CSR AW Standard
- LNAPL (Light non-aqueous phase liquid) present (thickness in mm)

Parameter	Standard
VPH	1500 µg/L
VH (C6-C10)	15000 µg/L
Toluene	390 µg/L
LEPH	500 µg/L
EPH (C10-C19)	5000 µg/L
Naphthalene	10 µg/L
Phenanthrene	3.0 µg/L
Pyrene	0.2 µg/L
Benzo(a)pyrene	0.1 µg/L
Anthracene	1.0 µg/L
Acridine	0.5 µg/L
Fluoranthene	2.0 µg/L
Benzo(a)anthracene	1.0 µg/L
Chrysene	1.0 µg/L
Benzene	4000 µg/L
Ethylbenzene	0.1 mg/L

1. YT CSR AW Standard
 9999 Value is greater than the applicable YT CSR AW Standard
 9999 LNAPL (Light non-aqueous phase liquid) present (thickness in mm)

PROFESSIONAL
YUKON
RICHARD J. WELLS
TERRITORY
ENGINEER

Not for construction
 Original in colour

10 0 10 30 60m

Title: GROUNDWATER ANALYTICAL RESULTS 2005 - 2015, NORTH APRON - PART I

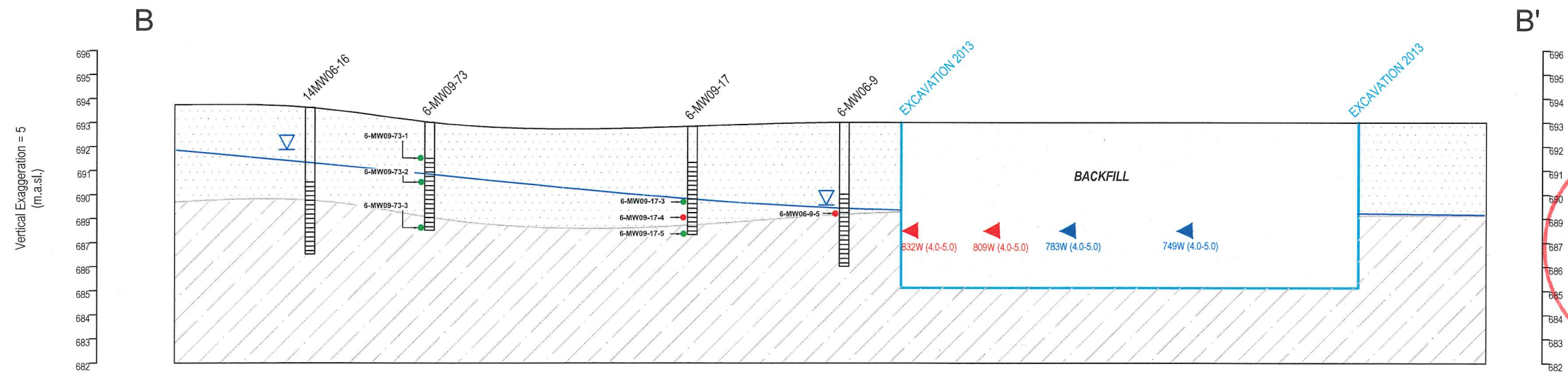
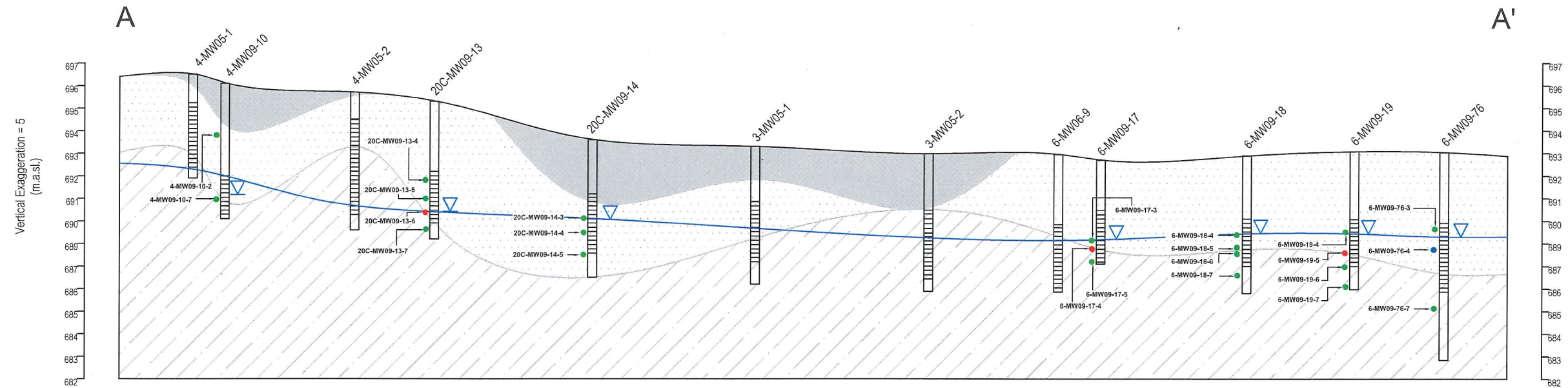
Project: 2015 NORTH APRON REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON

Client: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

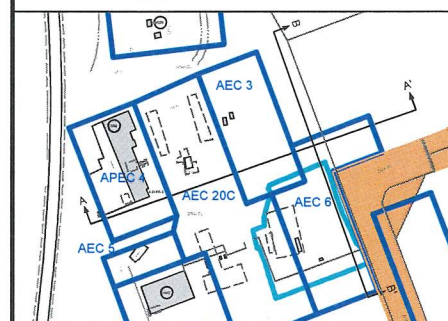
Date: JULY 2015

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DRAWING 5



Samples 809W, 783W and 749W located on east wall of excavation



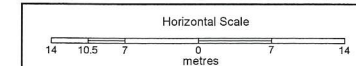
LEGEND

- Sand and Gravel
- Sand
- Silt
- Excavation 2013
- Water Level* (mbgs)
- Water Table**
- Soil Sample
- Confirmatory Wall Sample

- 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

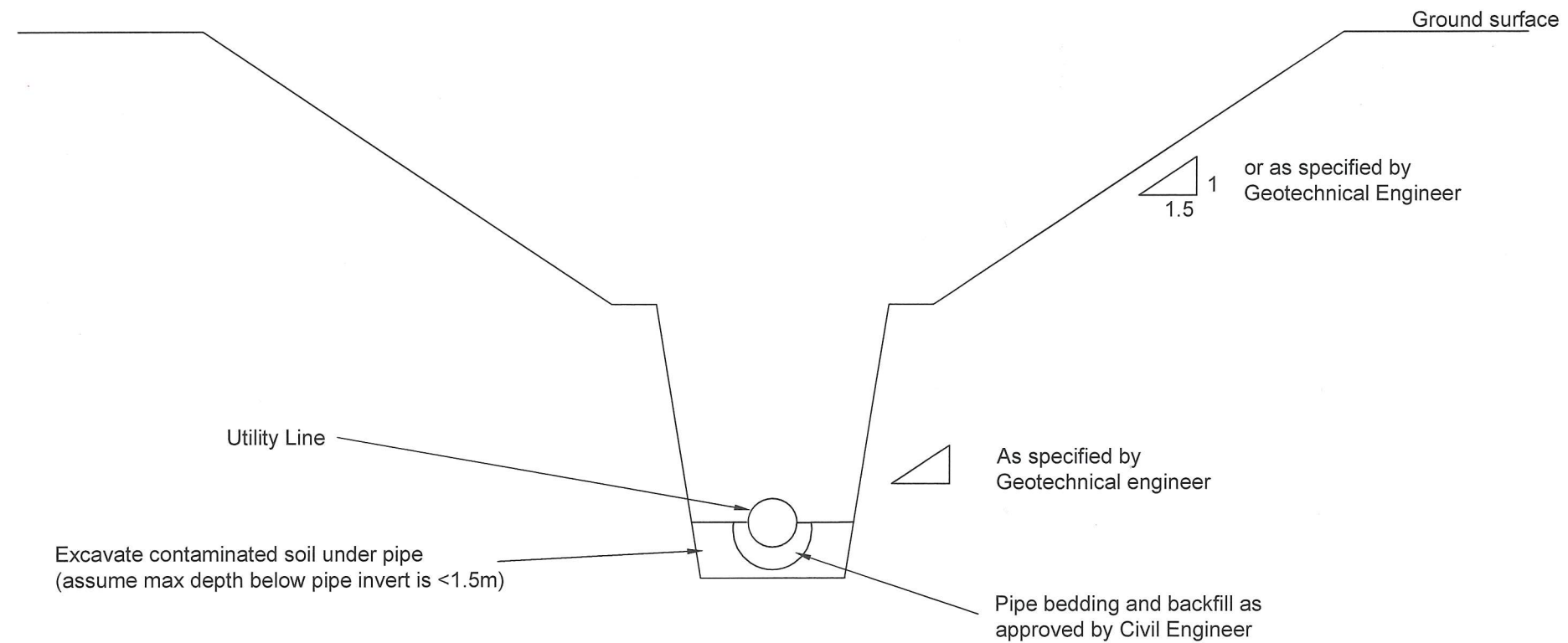
* Water level from direct measurement in the field
 ** Water table inferred from water levels measured in the field

Not for construction
 Original in colour
 Horizontal exaggeration = 1.5

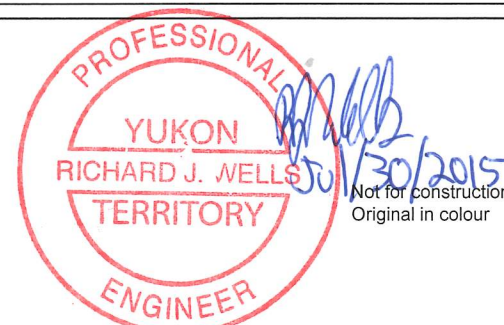


Title:		CROSS-SECTION A-A' and B-B', NORTH APRON
Project:		2015 NORTH APRON REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON
Client:		PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
Date:		JULY 2015
		DRAWING 6







LEGEND



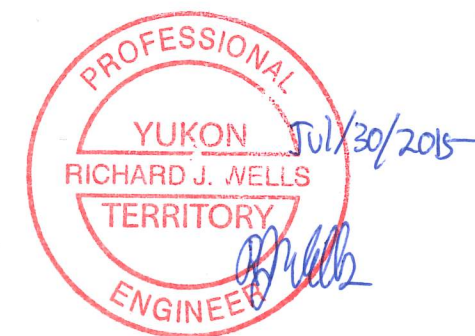
NOT TO SCALE

Title: PROPOSED EXCAVATION SURROUNDING UTILITY	
Project: 2015 NORTH APRON REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON	
Client:	 PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
Date:	JULY 2015
 ARCADIS Infrastructure · Water · Environment · Buildings	
DRAWING 7	

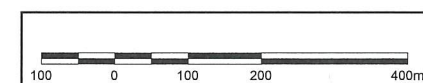




LEGEND

- NORTH APRON
- ROUTE TO LTF

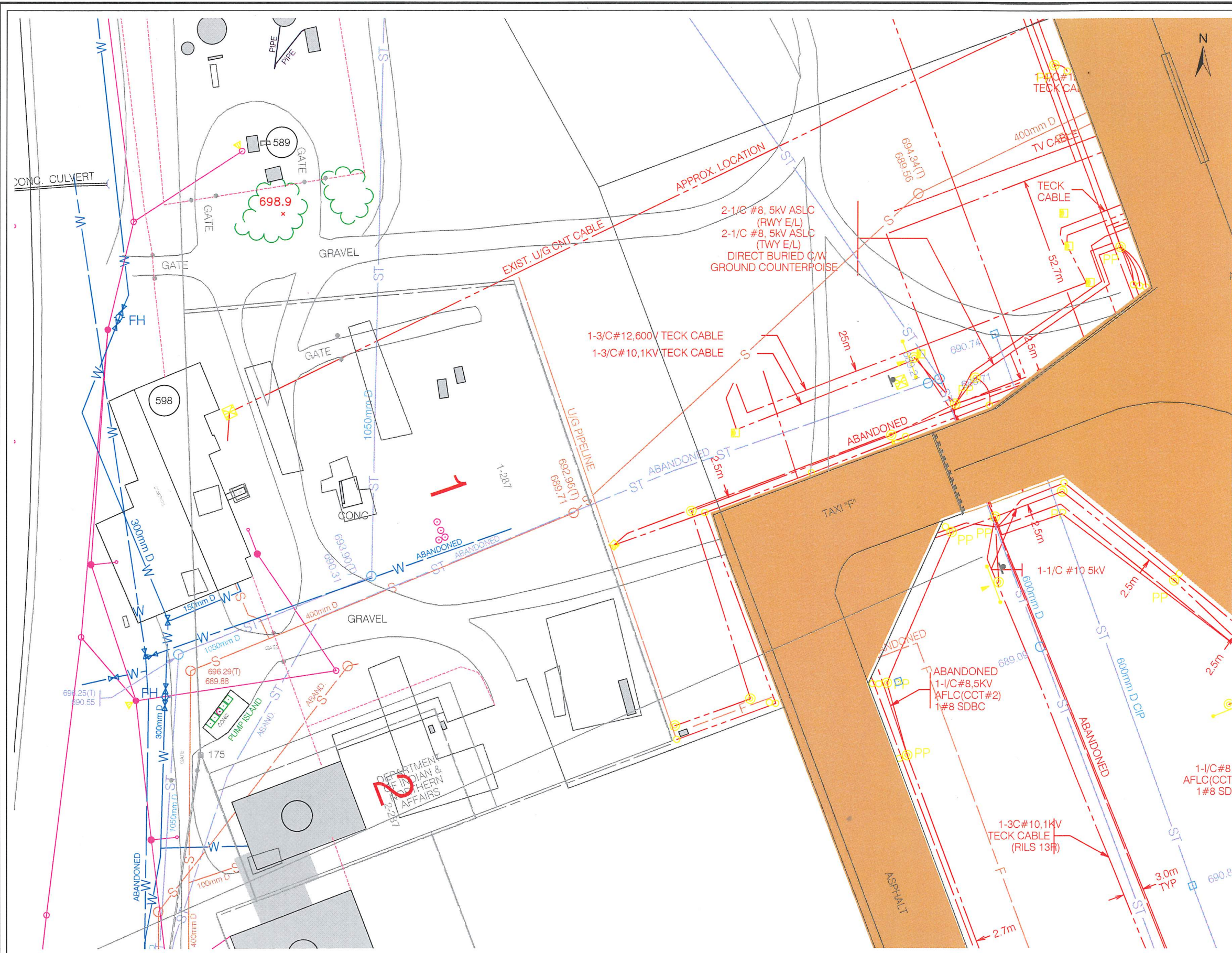


Not for construction
Original in colour



Title:	WHITEHORSE AIRPORT LTF AND NON-CONTAMINATED SOIL STOCKPILE LOCATION	
Project:	2015 NORTH APRON REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON	
Client:	 PUBLIC WORKS AND GOVERNMENT SERVICES CANADA	
Date:	JULY 2015	
 Infrastructure - Water - Environment - Buildings		DRAWING 8

Layout1 Z:\WORK\Projects\1043 - Whitehorse Airport\2015\Remediation Tender Documents\CAD\Whitehorse_Base.dwg



LEGEND

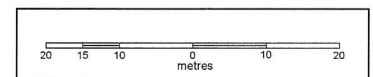
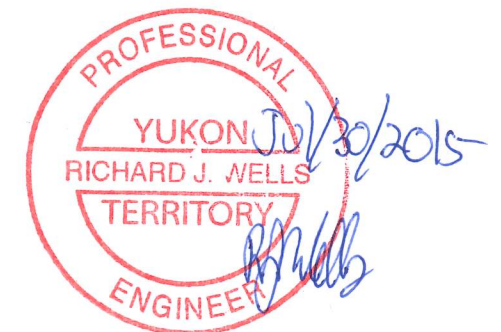
- Utility - Water
- Utility - Sanitary Sewer
- Utility - Storm Sewer
- Utility - Underground Hydro
- Utility - Above ground Hydro


Note:

Contractor must verify all information including, but not limited to, location, size, type, depth of all service lines.

Presented for informational purposes only.

Not for construction
Original in colour



Title: NORTH APRON UTILITIES			
Project: 2015 NORTH APRON REMEDIATION WHITEHORSE INTERNATIONAL AIRPORT, YUKON			
Client:  PUBLIC WORKS AND GOVERNMENT SERVICES CANADA			
Project Number: 1043-1501	Drawn By: CB	Plot Size: 11X17"	Date: JULY 2015
 Infrastructure - Water - Environment - Buildings			DRAWING 9