

Environmental Remediation Report

2506 Innes Road, Ottawa, Ontario

Prepared for Concorde Properties

Report: PE6214-4
September 24, 2025

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PE6214-4A – Cross Section A-A' (PHCs)

PE6214-4B – Cross Section B-B' (PHCs)

PE6214-4C – Cross Section C-C' (PHCs)

PE6214-5 – Analytical Testing Plan-Soil (BTEX)

PE6214-5A – Cross-Section A-A' (BTEX)

PE6214-5B – Cross-Section B-B' (BTEX)

PE6214-5C – Cross-Section C-C' (BTEX)

PE6214-6 – Analytical Testing Plan-Soil (METALS, PAH, VOC, EC, SAR)

PE6214-6A – Cross-Section A-A' (METALS, PAH, VOC, EC, SAR)

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PE6214-7 – Analytical Testing Plan-Groundwater

PE6214-7A – Cross-Section A-A'-Groundwater

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Appendix 1 Table A1 – Confirmatory Soil Sampling Analytical Test Results

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1.0 INTRODUCTION

A Phase II Environmental Site Assessment (ESA) identified impacted soil at 2506 Innes Road in the City of Ottawa, Ontario. The environmental soil remediation program consisted of the removal of soil impacted with metals and hydrocarbons parameters from the Phase II ESA Property.

Based on the results of the Phase II ESA, concentrations of PHCs (and reported BTEX during historical remediation work) in soil exceeding the applicable site condition standards were identified on the Phase II ESA Property. Based on groundwater analytical test results, groundwater was found to be in compliance with the applicable site condition standards.

Note that a small number of samples was found to contain metals (chromium, cobalt and vanadium) in exceedance of the applicable site standard, however it was determined that these metals are consistent with those found naturally in local clays and were not considered to represent actual contamination.

The Ontario Ministry of the Environment, Conservation, and Parks (MECP) Table 3 Standards (coarse textured soil in a non-potable groundwater condition for residential land use) are the applicable site condition standards for the Phase II ESA Property.

2.0 REMEDIAL ACTION - SOIL

Paterson monitored the excavation of impacted soil from the Phase II ESA Property in June 2025. Prior to the soil remediation program, the automotive service garage and underground storage tanks were removed. Soil in the area east of the former service garage was excavated to a depth of approximately 2.0m below original grade, and soil in the area of the former underground storage tanks was excavated to a depth of approximately 3.5m below ground surface. The extents of the excavation are shown on Drawings PE6214-4 – Analytical Testing Plan-Soil (PHCs) and PE6214-5 – Analytical Testing Plan-Soil (BTEX).

Approximately 3,600 metric tonnes of soil was excavated and disposed of off-site at Waste Connections of Canada – Ottawa Landfill, a licensed waste disposal facility located in Ottawa, Ontario. The excavation of impacted soil was completed using hydraulic shovels.

3.0 REMEDIAL ACTION - GROUNDWATER

Based on the results of the Phase II ESA, groundwater was in compliance with the applicable MECP Table 3 Residential Standards and no remedial action was required for groundwater.

4.0 FREE PRODUCT

No free product was identified during the remediation program.

5.0 CONFIRMATORY SAMPLING AND ANALYSIS

5.1 Confirmatory Soil Sampling Program

The soil sampling protocols followed during this remedial program were in general accordance with the MECP document entitled *"Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario,"* dated May 1996.

All soil samples collected were submitted to a preliminary screening procedure, which included visual screening, as well as screening with a MiniRae photoionization detector (PID). The detection limit of the PID is 0.1 ppm, with a precision of +/- 0.1 ppm. The soil vapours were measured by inserting the analyzer probe into the nominal headspace above the soil sample. Samples were then agitated and the peak readings recorded. The PID vapour readings were found to range from 0.0 to 1.3 ppm.

It is noted that vapour screening is of limited use for non-volatile contaminants of concern; visual screening was also used in conjunction with the above methodology.

Samples were selected for laboratory analysis based on visual and vapour screening results as well as sample location in accordance with the prescribed sample density outlined in Ontario Regulation (O.Reg.) 153/04. Contaminants analyzed were selected based on the contaminants of concern identified in the Phase II ESA.

Five (5) floor soil samples (BS3, BS8, BS10, BS11 and BS12) from excavation 1, two (2) floor soil samples (BS1 and BS2) from excavation 2, eight (8) sidewall samples (SW2, SW8, EW4, EW9, NW-G1, NW-G5, WW3 and WW5) from excavation 1 and two (2) sidewall samples (NW1 and WW2) were collected and submitted for analytical testing for a combination of PHCs and BTEX.

Analytical test results are provided on Drawings PE6214-4 – Analytical Testing Plan-Soil (PHCs), PE6214-5 – Analytical Testing Plan-Soil (BTEX) and PE6214-6 – Analytical Testing Plan-Soil (METALS, PAH, VOC, EC, SAR). Confirmatory floor and sidewall soil analytical test results are provided in Table A1 and on the laboratory certificates of analysis attached to this report.

5.2 Analytical Testing

The remediation standards selected for the site were taken from Table 3 of the document entitled “*Soil, Groundwater and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act*” prepared by the Ontario Ministry of the Environment, dated April 15, 2011. The MECP Table 3 Standards are based on the following considerations:

- ☐ Coarse-grained soil conditions
- ☐ Non-potable groundwater conditions
- ☐ Residential land use

Paracel Laboratories (Paracel) of Ottawa, Ontario, performed the laboratory analysis of the samples submitted for analytical testing. Paracel is a member of the Standards Council of Canada/Canadian Association for Environmental Analytical Laboratories (SCC/CAEAL). Paracel is accredited and certified by SCC/CAEAL for specific tests registered with the association.

5.3 Quality Assurance/Quality Control

All samples submitted as part of the remedial sampling events were handled in accordance with the Analytical Protocol with respect to holding time, preservation method, storage requirement, and container type.

As per Subsection 47(3) of O.Reg. 153/04 as amended, a Certificate of Analysis has been received for each sample submitted for analysis during the sampling events, and all Certificates of Analysis are appended to this report.

Overall, the quality of the field data collected during the remediation program is considered to be sufficient to meet the overall objectives of this assessment.

6.0 CONCLUSIONS

An environmental soil remediation program was conducted on-site to remove impacted soil identified in the Phase II ESA. Approximately 3,600 metric tonnes of

soil was excavated and disposed of off-site at Waste Connections of Canada – Ottawa Landfill, a licensed waste disposal facility located in Ottawa, Ontario.

All final confirmatory floor and sidewall soil samples were in compliance with the MECP Table 3 Standards for coarse textured soil in a non-potable groundwater condition for residential land use. Concentrations of barium and vanadium in confirmatory soil samples were deemed to comply with the applicable site condition standards as they are considered to be naturally occurring in the clay material.

Based on our field observations combined with the analytical test results, in our opinion, **all contaminated soil has been removed from the Phase II ESA Property**. No further remedial work is recommended at this time.

7.0 STATEMENT OF LIMITATIONS

This report has been prepared as per the agreed scope-of-work. The results of the sampling program are based on our field observations, survey results, and analytical test results obtained at specific test locations which can only be extrapolated to an undefined limited area around each location at the time of the field program. The test results may not reflect conditions at other locations or areas beyond the extent of the excavation.

The client should be aware that any information pertaining to soils and all test hole logs are furnished as a matter of general information only and test hole descriptions or logs are not to be interpreted as descriptive of conditions at locations other than those of the test holes themselves.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Concorde Properties. Permission and notification from Concorde Properties and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Mohammed Ramadan, B.Sc.



Adrian Menyhart, P.Eng., QP_{ESA}

Report Distribution:

- Concorde Properties (1 copy)
- Paterson Group (1 copy)

FIGURES

FIGURE 1 – KEY PLAN

PE6214-4 – ANALYTICAL TESTING PLAN-SOIL (PHCS)

PE6214-4A – CROSS SECTION A-A' (PHCS)

PE6214-4B – CROSS SECTION B-B' (PHCS)

PE6214-4C – CROSS SECTION C-C' (PHCS)

PE6214-5 – ANALYTICAL TESTING PLAN-SOIL (BTEX)

PE6214-5A – CROSS-SECTION A-A' (BTEX)

PE6214-5B – CROSS-SECTION B-B' (BTEX)

PE6214-5C – CROSS-SECTION C-C' (BTEX)

PE6214-6 – ANALYTICAL TESTING PLAN-SOIL (METALS, PAH, VOC, EC, SAR)

PE6214-6A – CROSS-SECTION A-A' (METALS, PAH, VOC, EC, SAR)

PE6214-6B – CROSS-SECTION B-B' (METALS, PAH, VOC, EC, SAR)

PE6214-6C – CROSS-SECTION C-C' (METALS, PAH, VOC, EC, SAR)

PE6214-7 – ANALYTICAL TESTING PLAN-GROUNDWATER

PE6214-7A – CROSS-SECTION A-A'-GROUNDWATER

PE6214-7B – CROSS-SECTION B-B'-GROUNDWATER

PE6214-7C – CROSS-SECTION C-C'-GROUNDWATER

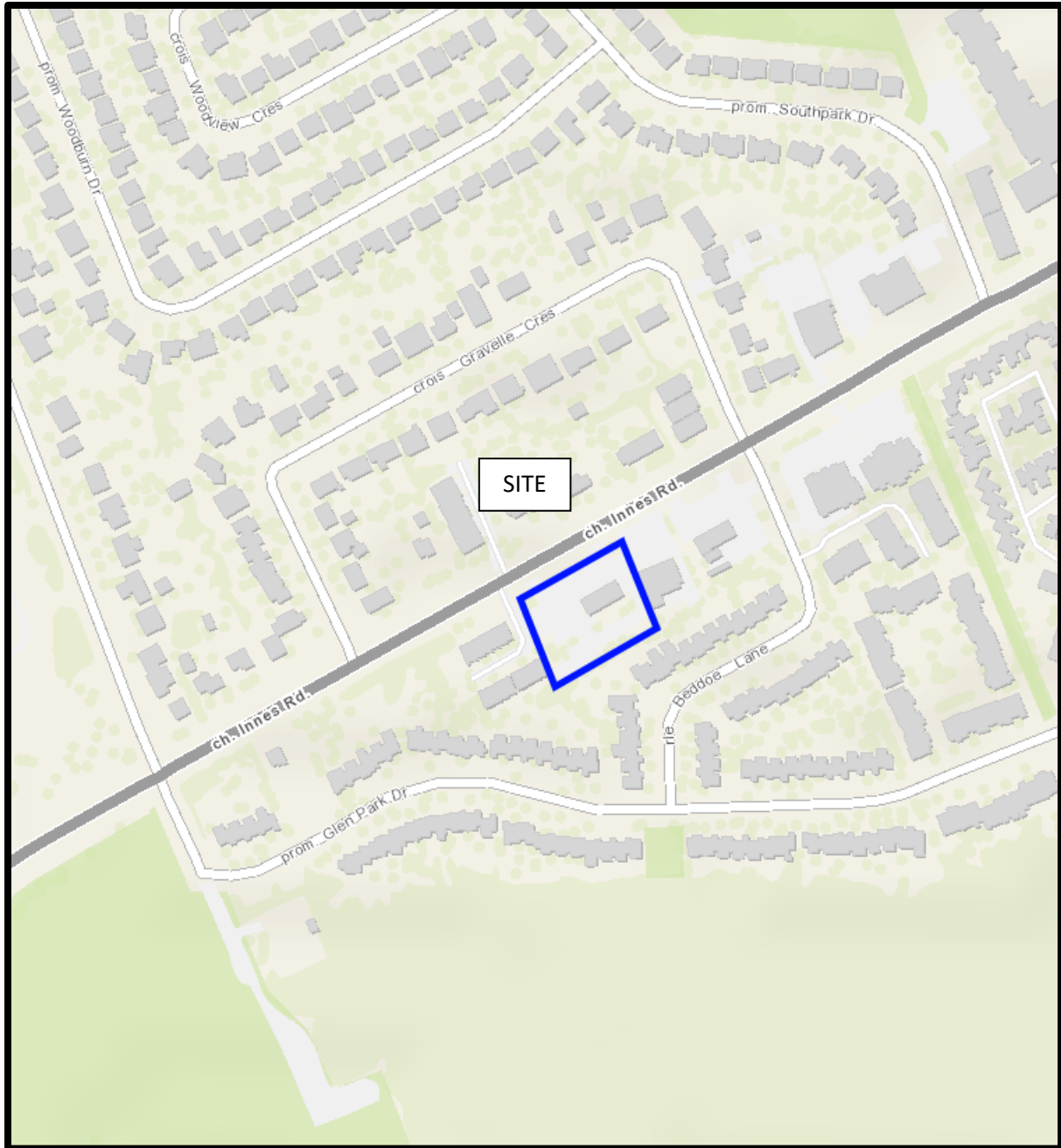
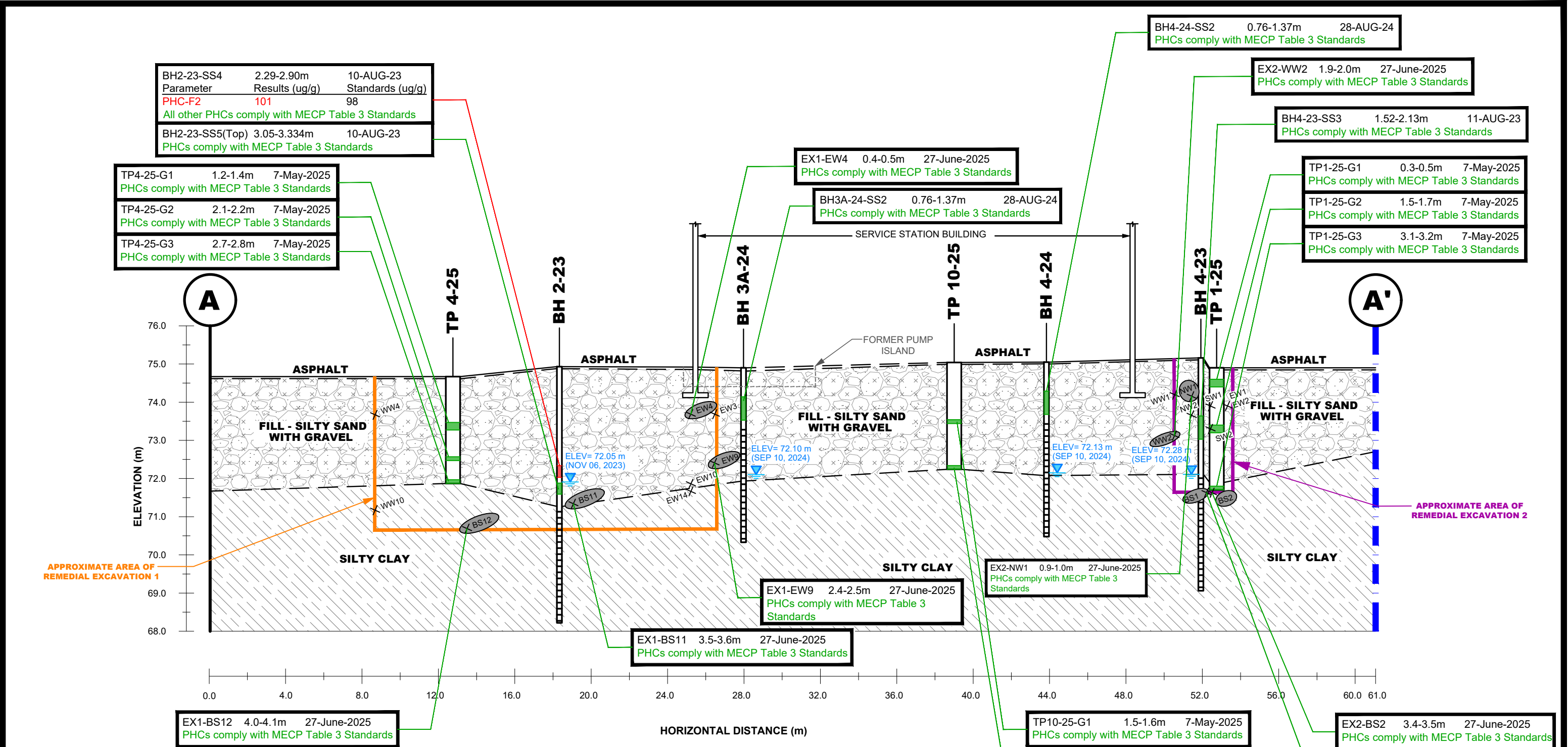


FIGURE 1
KEY PLAN



LEGEND:

— PHASE I - II PROPERTY BOUNDARY

SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS

SOIL RESULTS EXCEED MECP TABLE 3 STANDARD



9 AURIGA DRIVE
OTTAWA, ON
K2E 7T9
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

CONCORDE PROPERTIES

PHASE II - ENVIRONMENTAL SITE ASSESSMENT

2506 INNES ROAD

OTTAWA, ONTARIO

Title: CROSS SECTION A-A' - SOIL (PHCs)

Scale: AS SHOWN

Drawn by: GK

Checked by: MR

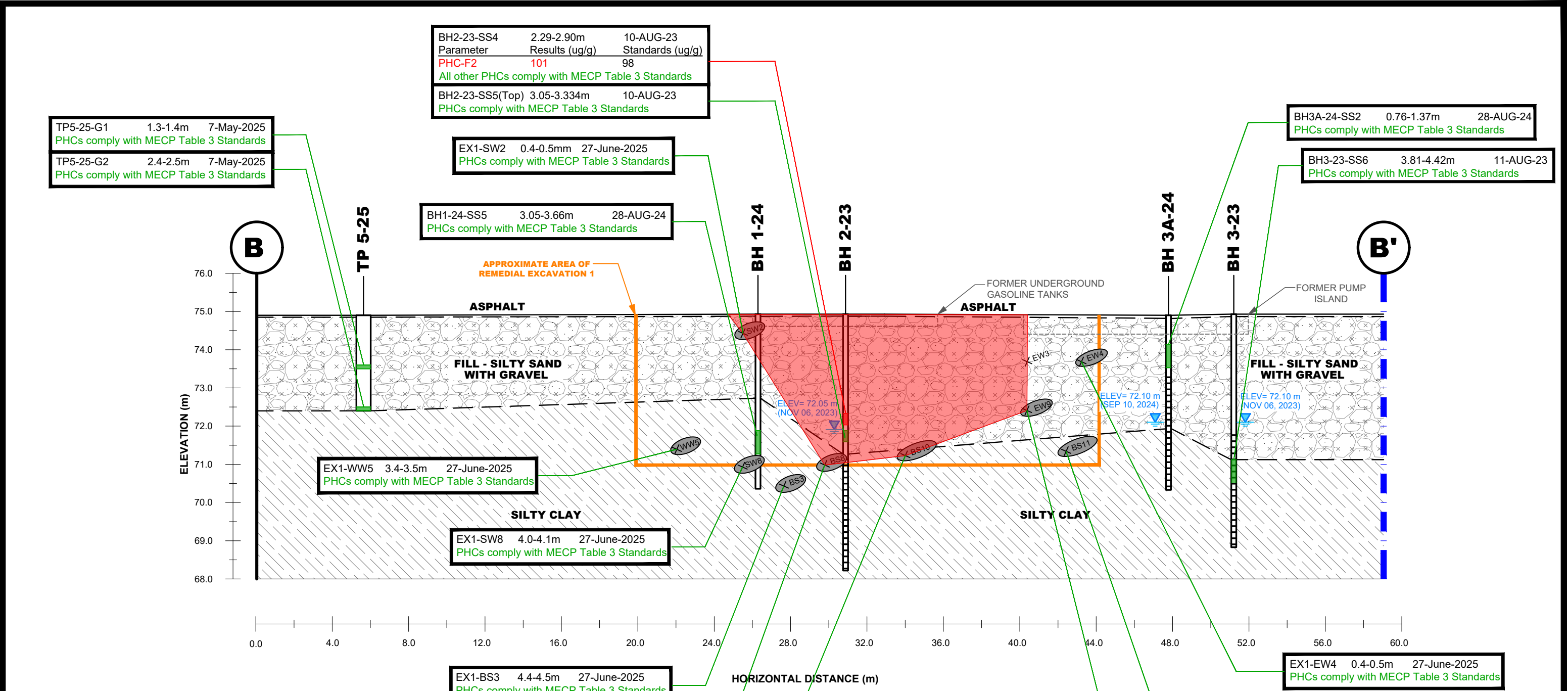
Approved by: AM

Date: 08/2025

Report No.: PE6214-3

Dwg. No.: PE6214-4A

Revision No.:



LEGEND:

— PHASE I - II PROPERTY BOUNDARY

SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS

SOIL RESULTS EXCEED MECP TABLE 3 STANDARDS

REMEDATION EXTENT OF SOIL IMPACTED WITH PHCS CONCENTRATION EXCEEDING THE MECP TABLE 3 STANDARDS



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NO.	REVISIONS	DATE	INITIAL

CONCORDE PROPERTIES
PHASE II - ENVIRONMENTAL SITE ASSESSMENT
2506 INNES ROAD

OTTAWA,
Title:

ONTARIO

CROSS SECTION B-B' - SOIL (PHCs)

Scale:	AS SHOWN	Date:	08/2025
Drawn by:	GK	Report No.:	PE6214-3
Checked by:	MR	Dwg. No.:	PE6214-4B
Approved by:	AM	Revision No.:	

BH5-24-SS5 3.05-3.66m 28-AUG-24
PHCs comply with MECP Table 3 Standards

BH4-23-SS3 1.52-2.13m 11-AUG-23
PHCs comply with MECP Table 3 Standards

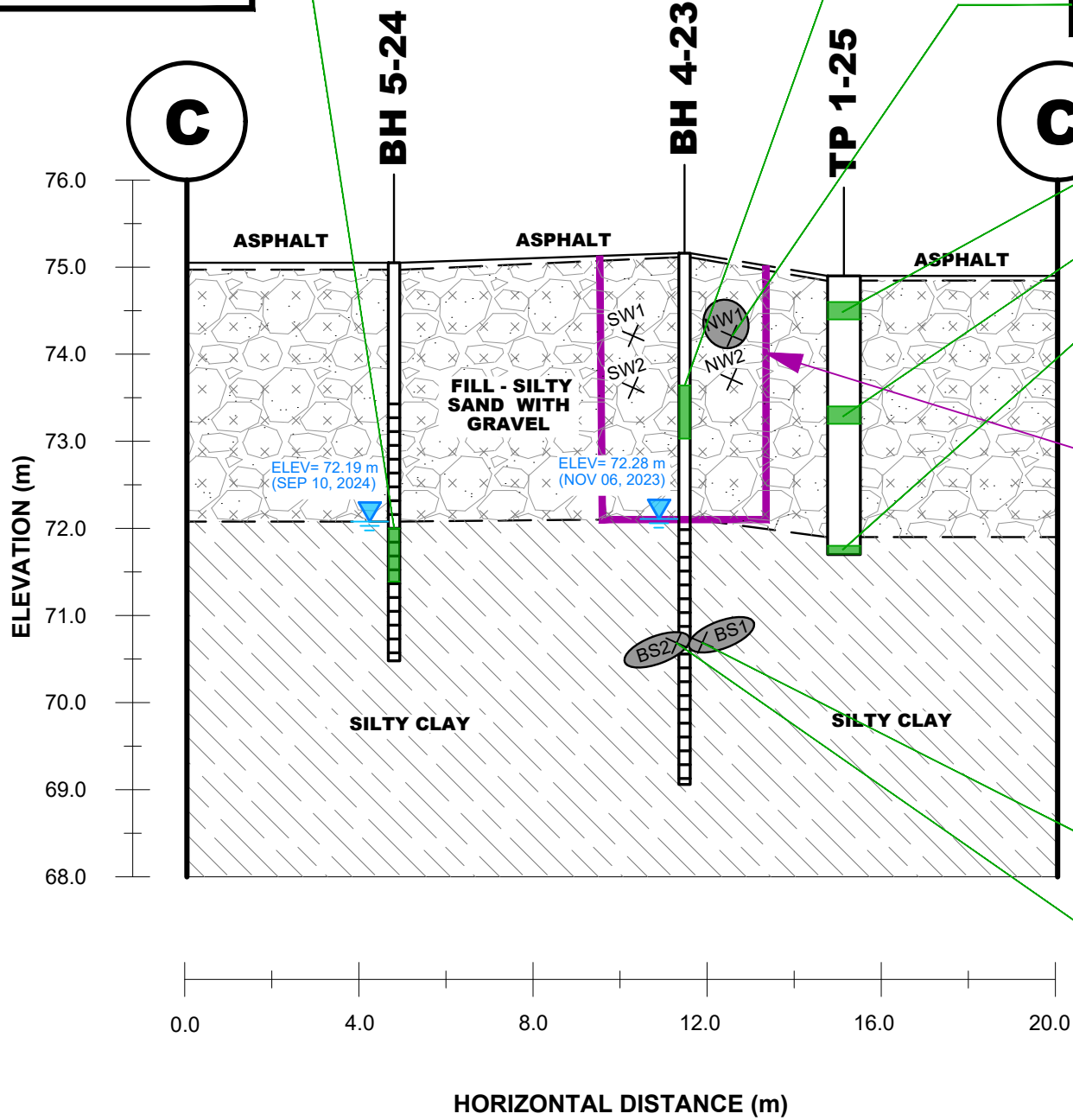
EX2-NW1 0.9-1.0m 27-June-2025
PHCs comply with MECP Table 3 Standards

TP1-25-G1 0.3-0.5m 7-May-2025
PHCs comply with MECP Table 3 Standards
TP1-25-G2 1.5-1.7m 7-May-2025
PHCs comply with MECP Table 3 Standards
TP1-25-G3 3.1-3.2m 7-May-2025
PHCs comply with MECP Table 3 Standards

APPROXIMATE AREA OF
REMEDIAL EXCAVATION 2

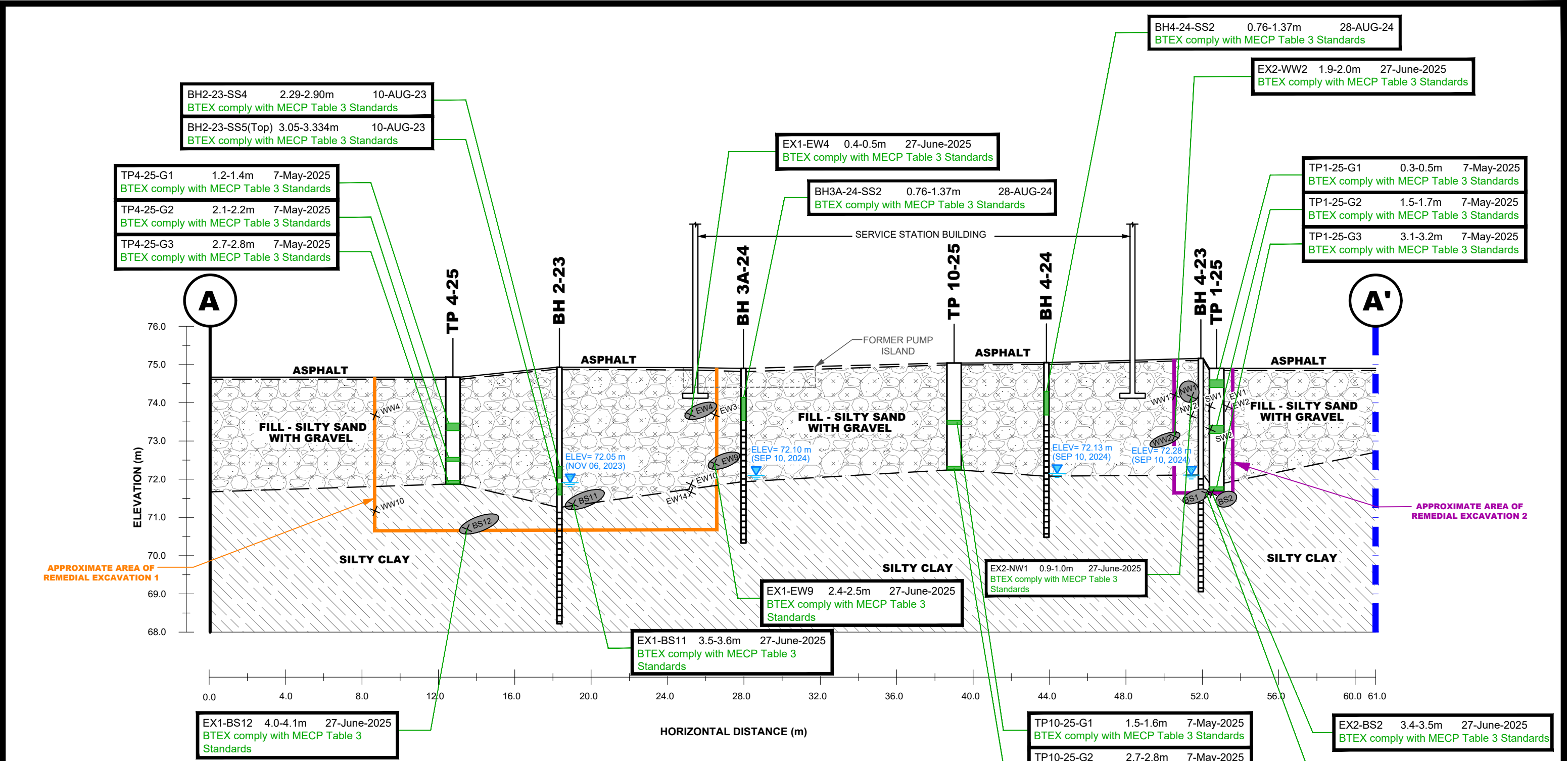
EX2-BS1 3.4-3.5m 27-June-2025
PHCs comply with MECP Table 3 Standards

EX2-BS2 3.4-3.5m 27-June-2025
PHCs comply with MECP Table 3 Standards



LEGEND:
- - - PHASE I - II PROPERTY BOUNDARY
SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS

 PATERSON GROUP 9 AURIGA DRIVE OTTAWA, ON K2E 7T9 TEL: (613) 226-7381					CONCORDE PROPERTIES				Scale:	AS SHOWN	Date:	08/2025		
						PHASE II - ENVIRONMENTAL SITE ASSESSMENT				Drawn by:	GK	Report No.:	PE6214-3	
						2506 INNES ROAD								
						OTTAWA,					Checked by:	MR	Dwg. No.:	PE6214-4C
						Title:	CROSS SECTION C-C' - SOIL (PHCs)				Approved by:	AM	Revision No.:	
					NO.	REVISIONS	DATE	INITIAL						



LEGEND:
- - - PHASE I - II PROPERTY BOUNDARY
SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS



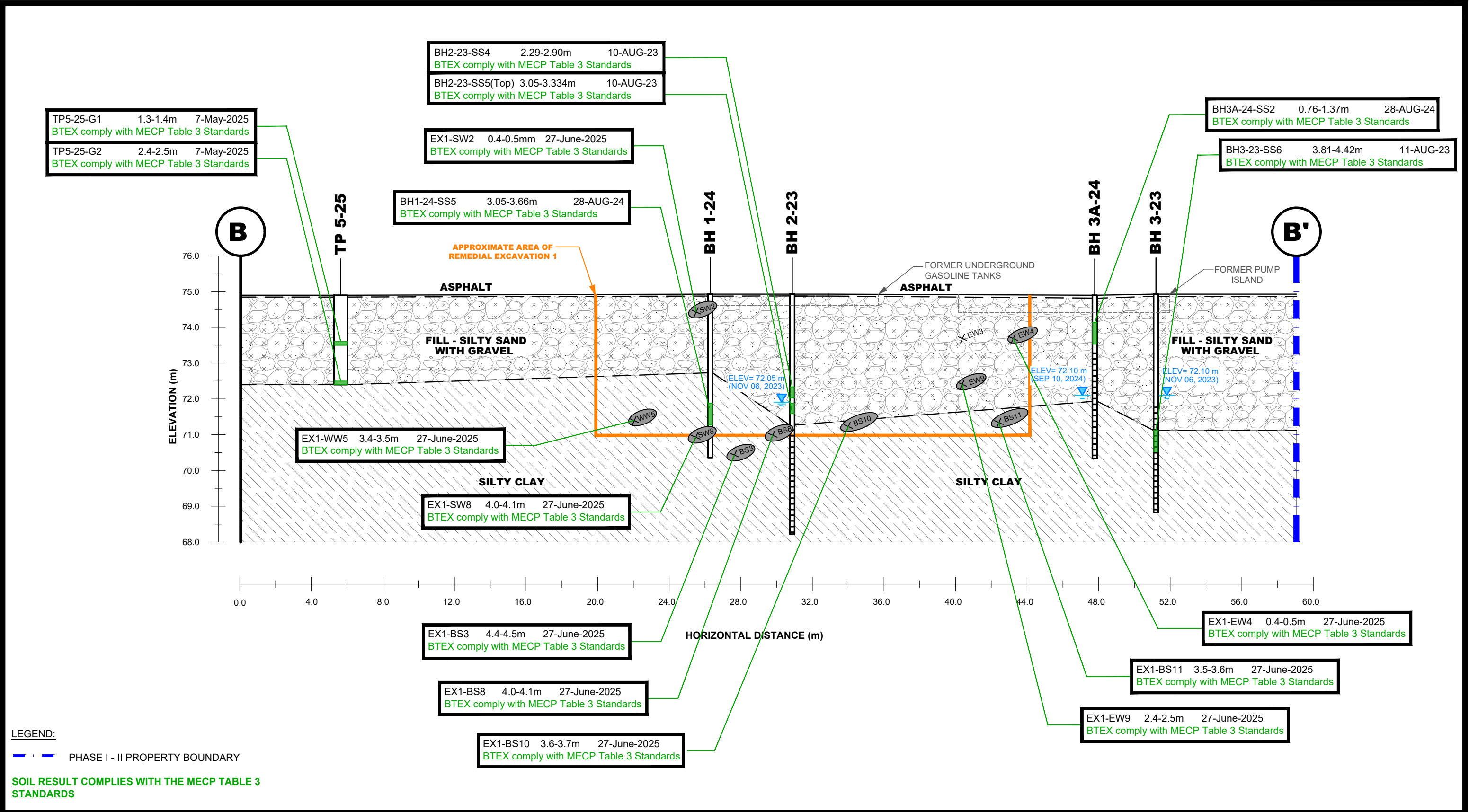
9 AURIGA DRIVE
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TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

CONCORDE PROPERTIES
PHASE II - ENVIRONMENTAL SITE ASSESSMENT
2506 INNES ROAD

OTTAWA,
Title: CROSS SECTION A-A' - SOIL (BTEX)ONTARIO

Scale: AS SHOWN	Date: 08/2025
Drawn by: GK	Report No.: PE6214-3
Checked by: MR	Dwg. No.: PE6214-5A
Approved by: AM	Revision No.:



LEGEND:

— — — PHASE I - II PROPERTY BOUNDARY

SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS



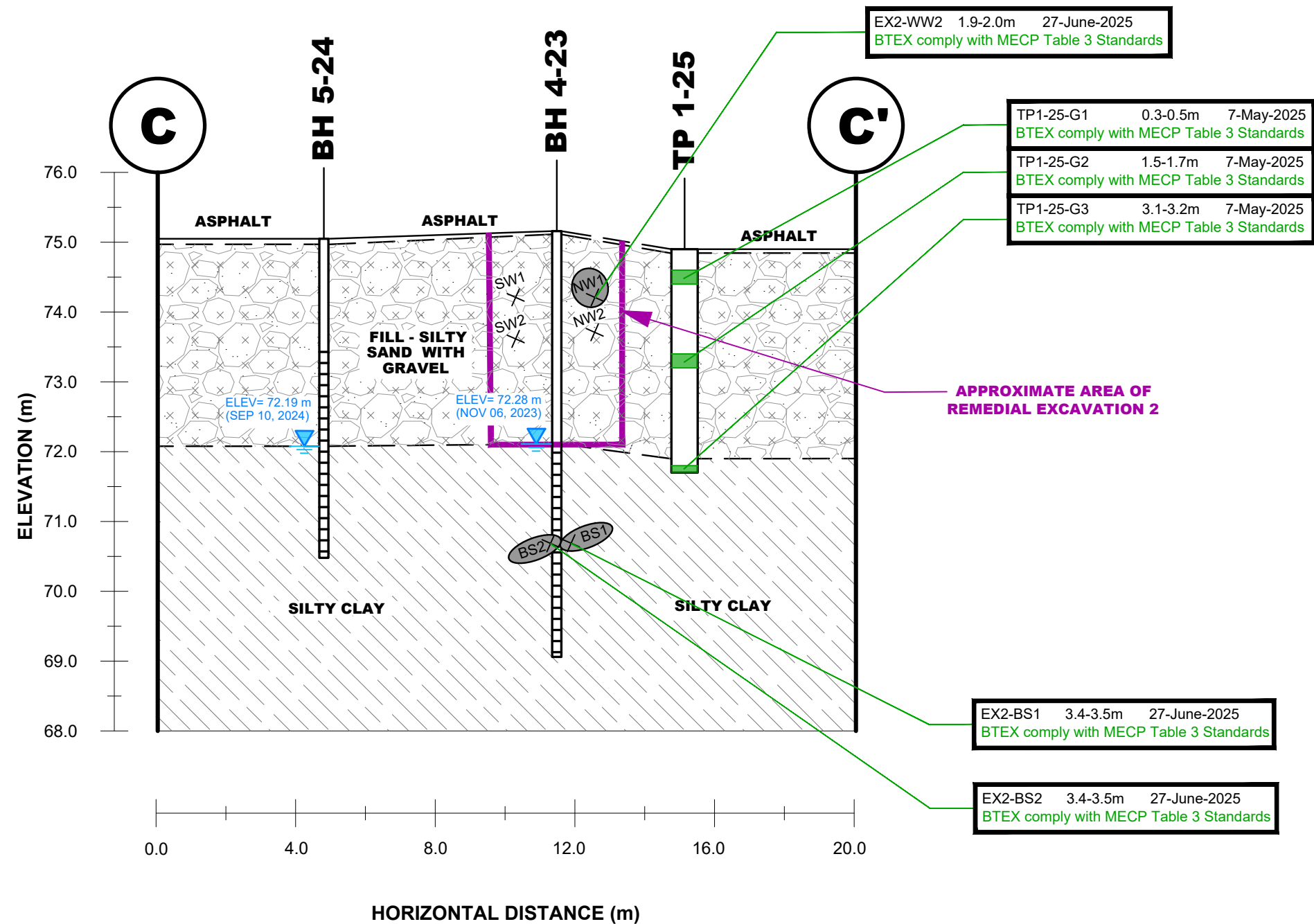
9 AURIGA DRIVE
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NO.	REVISIONS	DATE	INITIAL

CONCORDE PROPERTIES
PHASE II - ENVIRONMENTAL SITE ASSESSMENT
2506 INNES ROAD

OTTAWA,
Title: **CROSS SECTION B-B' - SOIL (BTEX)** ONTARIO

Scale: AS SHOWN	Date: 08/2025
Drawn by: GK	Report No.: PE6214-3
Checked by: MR	Dwg. No.: PE6214-5B
Approved by: AM	Revision No.:



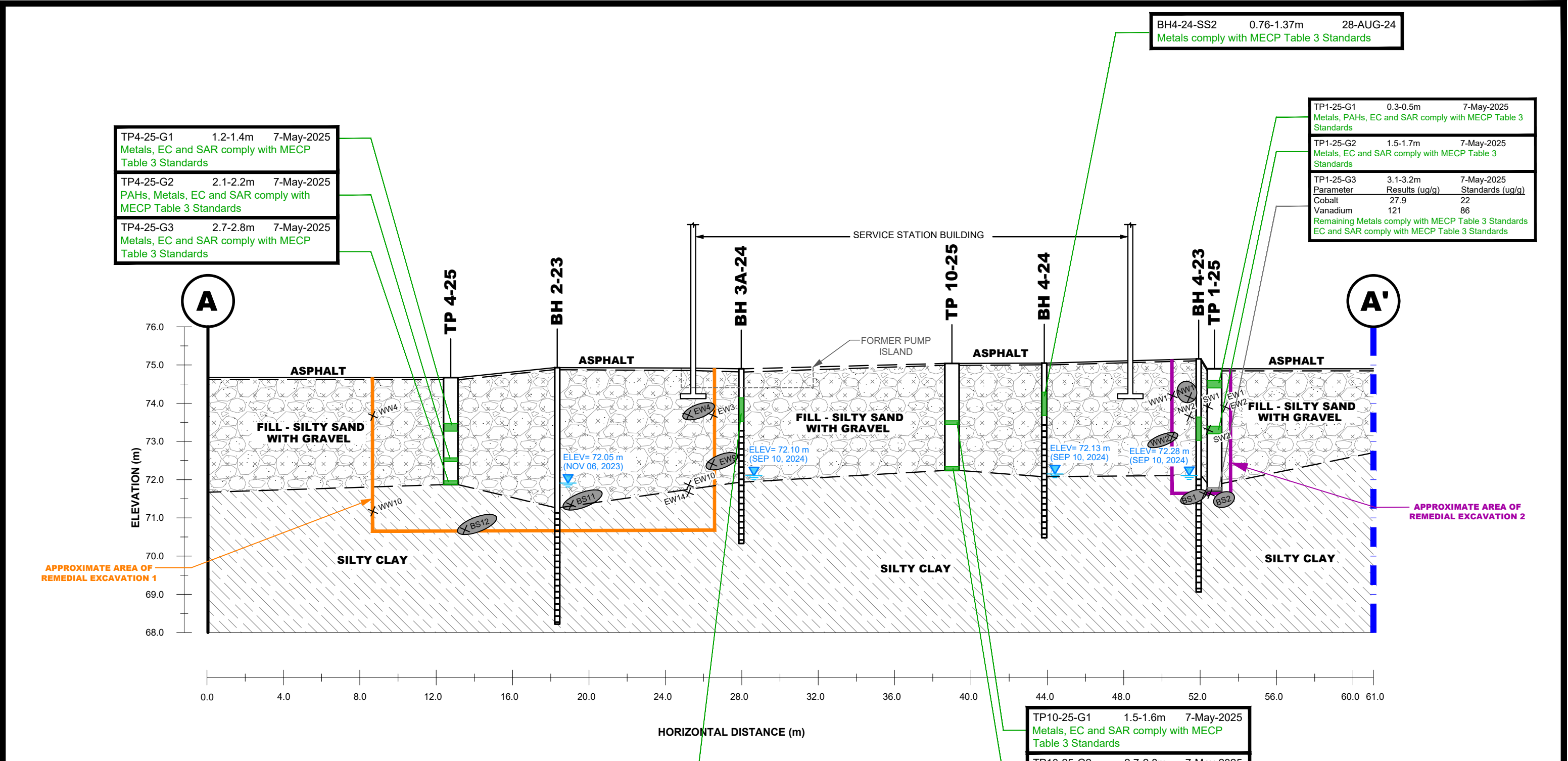
LEGEND:

— — — PHASE I - II PROPERTY BOUNDARY

SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS

 9 AURIGA DRIVE OTTAWA, ON K2E 7T9 TEL: (613) 226-7381				CONCORDE PROPERTIES		Scale:	AS SHOWN	Date:	08/2025
				PHASE II - ENVIRONMENTAL SITE ASSESSMENT		Drawn by:	GK	Report No.:	PE6214-3
				2506 INNES ROAD		Checked by:	MR	Dwg. No.:	PE6214-5C
				OTTAWA, ONTARIO		Approved by:	AM	Revision No.:	
				Title:					

CROSS SECTION C-C' - SOIL (BTEX)			
NO.	REVISIONS	DATE	INITIAL



LEGEND:

— — — PHASE I - II PROPERTY BOUNDARY

SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS

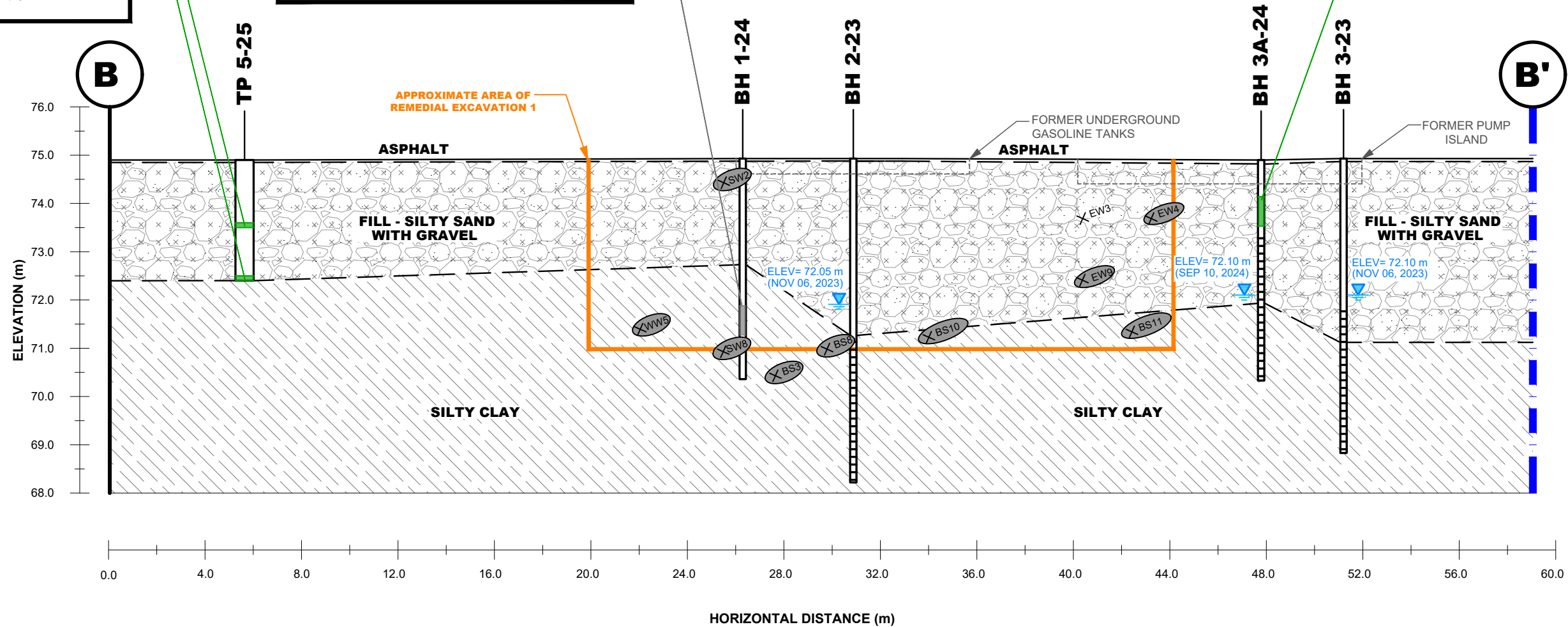
PATERSON GROUP 9 AURIGA DRIVE OTTAWA, ON K2E 7T9 TEL: (613) 226-7381					CONCORDE PROPERTIES PHASE II - ENVIRONMENTAL SITE ASSESSMENT 2506 INNES ROAD OTTAWA, ONTARIO	Scale: AS SHOWN	Date: 08/2025
						Drawn by: GK	Report No.: PE6214-3
						Checked by: MR	Dwg. No.: PE6214-6A
						Approved by: AM	
					Title: CROSS SECTION A-A' - SOIL (METALS, PHCs, VOCs, EC AND SAR)		
NO.	REVISIONS	DATE	INITIAL				

TP5-25-G1 1.3-1.4m 7-May-2025
Metals, EC and SAR comply with MECP
Table 3 Standards

TP5-25-G2 2.4-2.5m 7-May-2025
Metals, EC and SAR comply with MECP
Table 3 Standards

BH1-24-SS5 3.05-3.66m 28-AUG-24
Parameter Results (ug/g) Standards (ug/g)
Vanadium 91.4 86
Remaining metals comply with MECP Table 3 Standards

BH3A-24-SS2 0.76-1.37m 28-AUG-24
Metals comply with MECP Table 3 Standards



LEGEND:

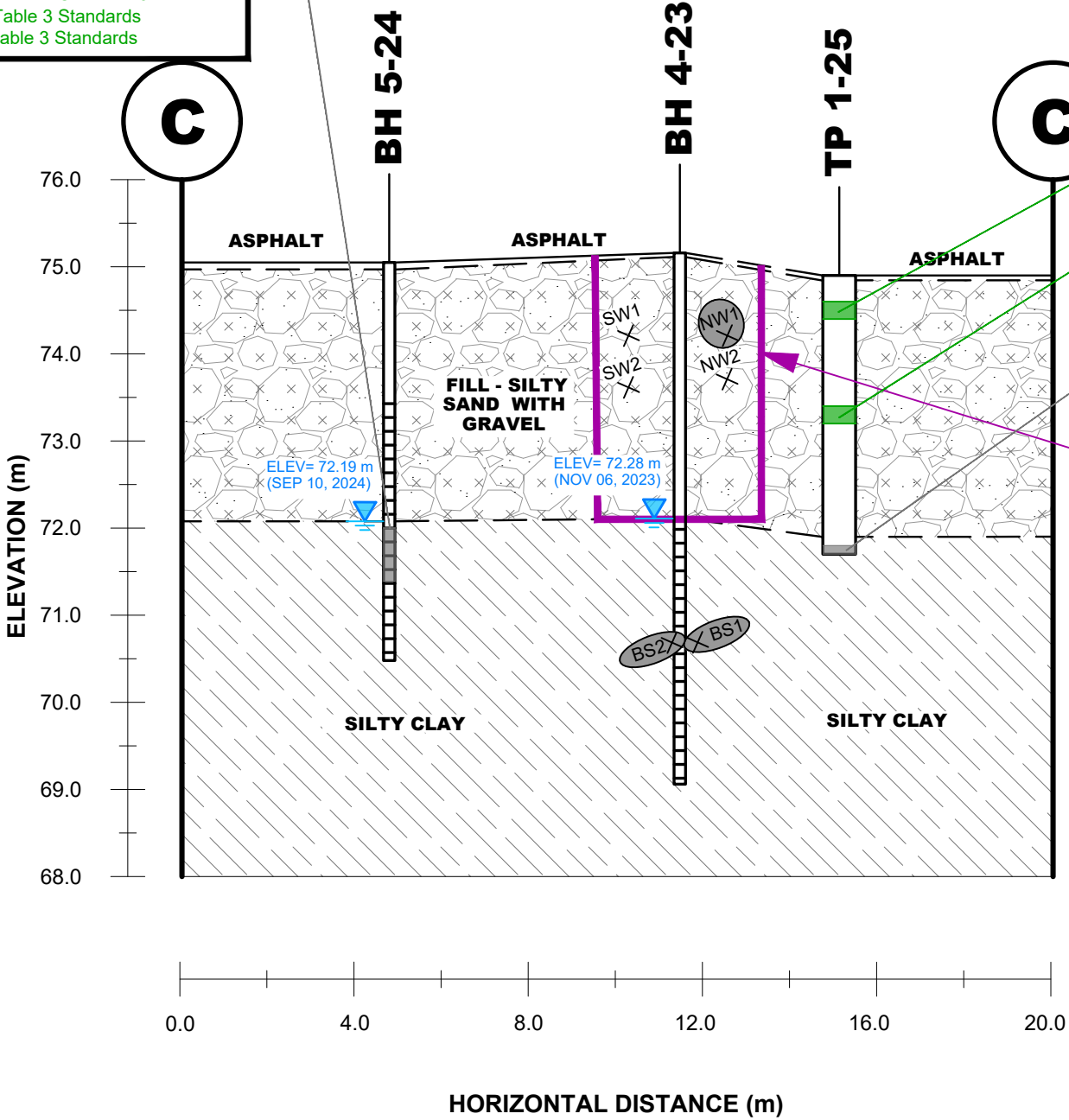
PHASE I - II PROPERTY BOUNDARY

SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS

PATERSON GROUP 9 AURIGA DRIVE OTTAWA, ON K2E 7T9 TEL: (613) 226-7381				CONCORDE PROPERTIES			Scale:	AS SHOWN	Date:	08/2025
				PHASE II - ENVIRONMENTAL SITE ASSESSMENT			Drawn by:	GK	Report No.:	PE6214-3
				2506 INNES ROAD			Checked by:	MR	Dwg. No.:	PE6214-6B
				OTTAWA, ONTARIO			Approved by:	AM	Revision No.:	
				CROSS SECTION B-B' - SOIL (METALS, PHCs, VOCs, EC AND SAR)						
NO.	REVISIONS	DATE	INITIAL							

BH5-24-SS5	3.05-3.66m	28-AUG-24
Parameter	Results (ug/g)	Standards (ug/g)
Cobalt	23.2	22
Vanadium	103	86
Remaining metals comply with MECP Table 3 Standards		
VOCs comply with MECP Table 3 Standards		
PAHs comply with MECP Table 3 Standards		

TP1-25-G1	0.3-0.5m	7-May-2025
Metals, PAHs, EC and SAR comply with MECP Table 3 Standards		
TP1-25-G2	1.5-1.7m	7-May-2025
Metals, EC and SAR comply with MECP Table 3 Standards		
TP1-25-G3	3.1-3.2m	7-May-2025
Parameter	Results (ug/g)	Standards (ug/g)
Cobalt	27.9	22
Vanadium	121	86
Remaining Metals comply with MECP Table 3 Standards		
EC and SAR comply with MECP Table 3 Standards		



LEGEND:

- PHASE I - II PROPERTY BOUNDARY
- SOIL RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS

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CONCORDE PROPERTIES

PHASE II - ENVIRONMENTAL SITE ASSESSMENT

2506 INNES ROAD

OTTAWA, ONTARIO

Title:
CROSS SECTION C-C' - SOIL (METALS, PHCs, VOCs, EC AND SAR)

Scale: AS SHOWN

Drawn by: GK

Checked by: MR

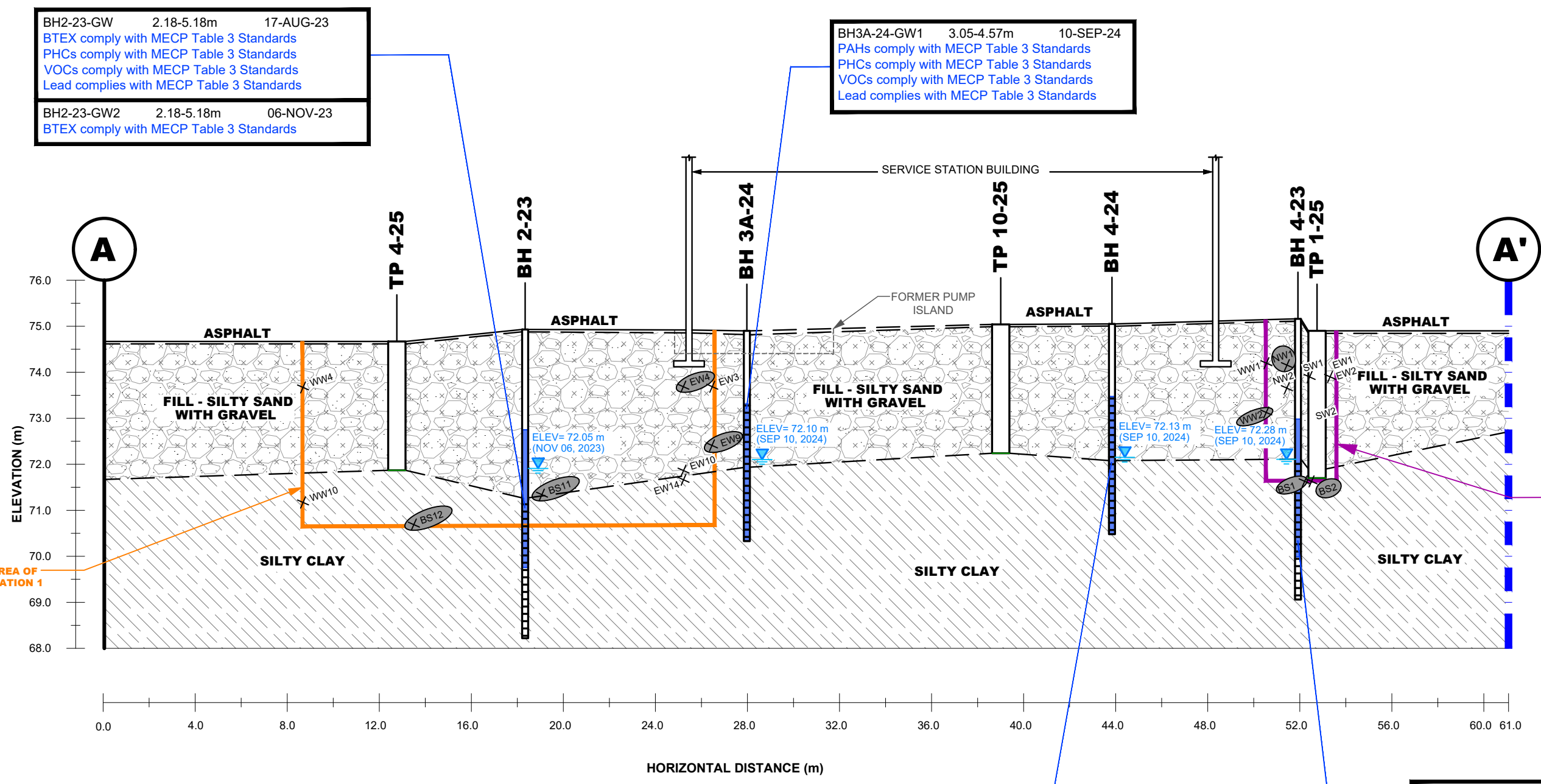
Approved by: AM

Date: 08/2025

Report No.: PE6214-3

Dwg. No.: PE6214-6C

Revision No.:

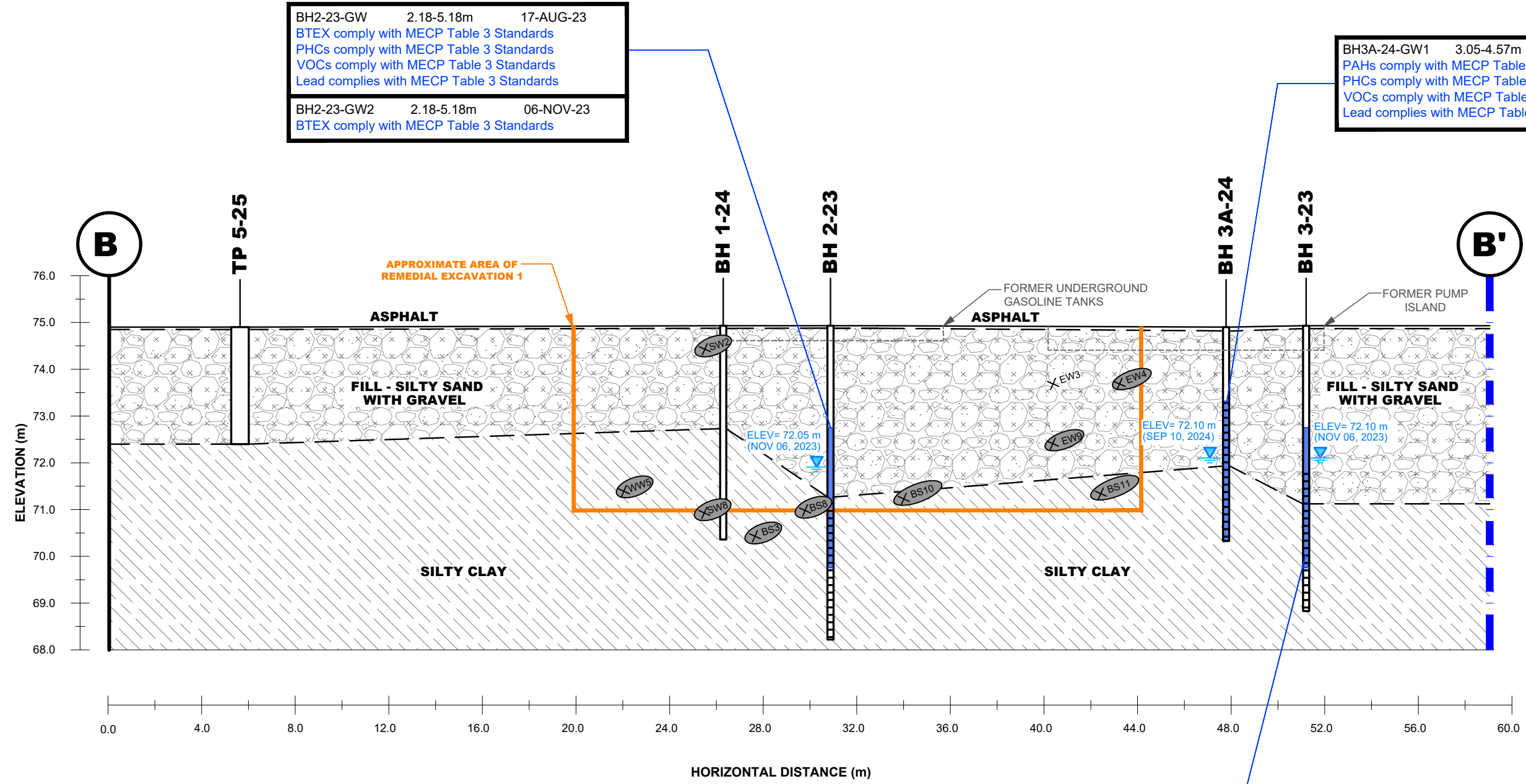


LEGEND:

— PHASE I - II PROPERTY BOUNDARY

GROUNDWATER RESULT COMPLIES WITH THE MECP TABLE 3 STANDARDS

 9 AURIGA DRIVE OTTAWA, ON K2E 7T9 TEL: (613) 226-7381				CONCORDE PROPERTIES PHASE II - ENVIRONMENTAL SITE ASSESSMENT 2506 INNES ROAD		Scale: AS SHOWN	Date: 08/2025
						Drawn by: GK	Report No.: PE6214-3
				OTTAWA,	ONTARIO	Checked by: MR	Dwg. No.: PE6214-7A
				CROSS SECTION A-A' - GROUNDWATER		Approved by: AM	Revision No.:
	NO.	REVISIONS	DATE	INITIAL			



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 - - - PHASE I - II PROPERTY BOUNDARY
 GROUNDWATER RESULT COMPLIES WITH THE MECP
 TABLE 3 STANDARDS

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TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

CONCORDE PROPERTIES
PHASE II - ENVIRONMENTAL SITE ASSESSMENT
2506 INNES ROAD

OTTAWA, ONTARIO

CROSS SECTION B-B' - GROUNDWATER

Scale:	AS SHOWN	Date:	08/2025
Drawn by:	GK	Report No.:	PE6214-3
Checked by:	MR	Dwg. No.:	PE6214-7B
Approved by:	AM	Revision No.:	

APPENDIX 1

TABLE A1 – CONFIRMATORY SOIL SAMPLING ANALYTICAL TEST RESULTS

APPENDIX 2

LABORATORY CERTIFICATES OF ANALYSIS

Certificate of Analysis

Paterson Group Consulting Engineers (Ottawa)

9 Auriga Drive
Ottawa, ON K2E 7T9
Attn: Mohammed Ramadan

Client PO: 63442
Project: PE6214
Custody:

Report Date: 4-Jul-2025

Order Date: 27-Jun-2025

Order #: 2526528

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2526528-01	TP12-G1

Approved By:



Mark Foto, M.Sc.

Laboratory Director

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PHC F1	CWS Tier 1 - P&T GC-FID	30-Jun-25	30-Jun-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	30-Jun-25	3-Jul-25
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	2-Jul-25	3-Jul-25
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	30-Jun-25	30-Jun-25
Solids, %	CWS Tier 1 - Gravimetric	30-Jun-25	2-Jul-25

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Client ID:	TP12-G1	-	-	-	-
Sample Date:	27-Jun-25 09:00	-	-	-	-
Sample ID:	2526528-01	-	-	-	-
Matrix:	Soil	-	-	-	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	89.6	-	-	-	-
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Volatiles

Acetone	0.50 ug/g	<0.50	-	-	-	-
Benzene	0.02 ug/g	<0.02	-	-	-	-
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	-
Bromoform	0.05 ug/g	<0.05	-	-	-	-
Bromomethane	0.05 ug/g	<0.05	-	-	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	-
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	-
Chloroform	0.05 ug/g	<0.05	-	-	-	-
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	-

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Client ID:	TP12-G1	-	-	-	-
Sample Date:	27-Jun-25 09:00	-	-	-	-
Sample ID:	2526528-01	-	-	-	-
Matrix:	Soil	-	-	-	-
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-
Hexane	0.05 ug/g	<0.05	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	-
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	-
Styrene	0.05 ug/g	<0.05	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	-
Toluene	0.05 ug/g	<0.05	-	-	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	-
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-
Toluene-d8	Surrogate	106%	-	-	-	-
Dibromofluoromethane	Surrogate	110%	-	-	-	-
4-Bromofluorobenzene	Surrogate	105%	-	-	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	-

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Client ID:	TP12-G1	-	-	-	-
Sample Date:	27-Jun-25 09:00	-	-	-	-
Sample ID:	2526528-01	-	-	-	-
Matrix:	Soil	-	-	-	-
MDL/Units					

Hydrocarbons

F3 PHCs (C16-C34)	8 ug/g	<8	-	-	-	-
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	-	-	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	-
Anthracene	0.02 ug/g	<0.02	-	-	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	-
Chrysene	0.02 ug/g	<0.02	-	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	-
Fluoranthene	0.02 ug/g	<0.02	-	-	-	-
Fluorene	0.02 ug/g	<0.02	-	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	-	-
Naphthalene	0.01 ug/g	<0.01	-	-	-	-
Phenanthrene	0.02 ug/g	<0.02	-	-	-	-
Pyrene	0.02 ug/g	<0.02	-	-	-	-
2-Fluorobiphenyl	Surrogate	71.2%	-	-	-	-
Terphenyl-d14	Surrogate	69.6%	-	-	-	-

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.968		%	72.6	50-140			
Surrogate: Terphenyl-d14	0.916		%	68.7	50-140			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					

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Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	8.20		%	102	50-140			
Surrogate: Dibromofluoromethane	8.17		%	102	50-140			
Surrogate: Toluene-d8	8.26		%	103	50-140			

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Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Physical Characteristics									
% Solids	86.5	0.1	% by Wt.	86.3			0.3	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	0.011			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	1.38		%		89.0	50-140			
Surrogate: Terphenyl-d14	1.36		%		88.0	50-140			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	

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Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	13.0		%		115	50-140			
Surrogate: Dibromofluoromethane	13.7		%		121	50-140			
Surrogate: Toluene-d8	13.0		%		116	50-140			

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	159	7	ug/g	ND	92.7	85-115			
F2 PHCs (C10-C16)	92	4	ug/g	ND	97.7	60-140			
F3 PHCs (C16-C34)	243	8	ug/g	ND	105	60-140			
F4 PHCs (C34-C50)	155	6	ug/g	ND	106	60-140			
Semi-Volatiles									
Acenaphthene	0.134	0.02	ug/g	ND	69.0	50-140			
Acenaphthylene	0.136	0.02	ug/g	ND	70.0	50-140			
Anthracene	0.141	0.02	ug/g	ND	72.6	50-140			
Benzo [a] anthracene	0.144	0.02	ug/g	ND	74.1	50-140			
Benzo [a] pyrene	0.138	0.02	ug/g	ND	71.0	50-140			
Benzo [b] fluoranthene	0.157	0.02	ug/g	ND	80.9	50-140			
Benzo [g,h,i] perylene	0.153	0.02	ug/g	ND	79.0	50-140			
Benzo [k] fluoranthene	0.155	0.02	ug/g	ND	80.1	50-140			
Chrysene	0.148	0.02	ug/g	ND	76.1	50-140			
Dibenzo [a,h] anthracene	0.155	0.02	ug/g	ND	80.1	50-140			
Fluoranthene	0.165	0.02	ug/g	ND	84.9	50-140			
Fluorene	0.126	0.02	ug/g	ND	64.9	50-140			
Indeno [1,2,3-cd] pyrene	0.154	0.02	ug/g	ND	79.6	50-140			
1-Methylnaphthalene	0.178	0.02	ug/g	ND	91.7	50-140			
2-Methylnaphthalene	0.179	0.02	ug/g	ND	92.2	50-140			
Naphthalene	0.145	0.01	ug/g	0.011	69.2	50-140			
Phenanthrene	0.155	0.02	ug/g	ND	79.8	50-140			
Pyrene	0.161	0.02	ug/g	ND	83.0	50-140			
Surrogate: 2-Fluorobiphenyl	1.14		%		73.3	50-140			
Surrogate: Terphenyl-d14	1.07		%		68.7	50-140			
Volatiles									
Acetone	10.0	0.50	ug/g	ND	100	50-140			
Benzene	4.52	0.02	ug/g	ND	113	60-130			
Bromodichloromethane	4.36	0.05	ug/g	ND	109	60-130			
Bromoform	4.53	0.05	ug/g	ND	113	60-130			

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromomethane	3.22	0.05	ug/g	ND	80.5	50-140			
Carbon Tetrachloride	4.47	0.05	ug/g	ND	112	60-130			
Chlorobenzene	4.41	0.05	ug/g	ND	110	60-130			
Chloroform	4.17	0.05	ug/g	ND	104	60-130			
Dibromochloromethane	4.66	0.05	ug/g	ND	116	60-130			
Dichlorodifluoromethane	3.79	0.05	ug/g	ND	94.7	50-140			
1,2-Dichlorobenzene	4.50	0.05	ug/g	ND	113	60-130			
1,3-Dichlorobenzene	4.51	0.05	ug/g	ND	113	60-130			
1,4-Dichlorobenzene	4.43	0.05	ug/g	ND	111	60-130			
1,1-Dichloroethane	4.12	0.05	ug/g	ND	103	60-130			
1,2-Dichloroethane	4.19	0.05	ug/g	ND	105	60-130			
1,1-Dichloroethylene	4.56	0.05	ug/g	ND	114	60-130			
cis-1,2-Dichloroethylene	4.06	0.05	ug/g	ND	101	60-130			
trans-1,2-Dichloroethylene	4.45	0.05	ug/g	ND	111	60-130			
1,2-Dichloropropane	4.47	0.05	ug/g	ND	112	60-130			
cis-1,3-Dichloropropylene	4.53	0.05	ug/g	ND	113	60-130			
trans-1,3-Dichloropropylene	4.55	0.05	ug/g	ND	114	60-130			
Ethylbenzene	4.31	0.05	ug/g	ND	108	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	4.66	0.05	ug/g	ND	117	60-130			
Hexane	4.68	0.05	ug/g	ND	117	60-130			
Methyl Ethyl Ketone (2-Butanone)	11.3	0.50	ug/g	ND	113	50-140			
Methyl Isobutyl Ketone	11.0	0.50	ug/g	ND	110	50-140			
Methyl tert-butyl ether	11.5	0.05	ug/g	ND	115	50-140			
Methylene Chloride	4.63	0.05	ug/g	ND	116	60-130			
Styrene	4.08	0.05	ug/g	ND	102	60-130			
1,1,1,2-Tetrachloroethane	4.61	0.05	ug/g	ND	115	60-130			
1,1,2,2-Tetrachloroethane	4.63	0.05	ug/g	ND	116	60-130			
Tetrachloroethylene	4.71	0.05	ug/g	ND	118	60-130			
Toluene	4.42	0.05	ug/g	ND	110	60-130			
1,1,1-Trichloroethane	4.33	0.05	ug/g	ND	108	60-130			
1,1,2-Trichloroethane	4.58	0.05	ug/g	ND	114	60-130			

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63442

Project Description: PE6214

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Trichloroethylene	4.63	0.05	ug/g	ND	116	60-130			
Trichlorofluoromethane	3.21	0.05	ug/g	ND	80.2	50-140			
Vinyl chloride	4.36	0.02	ug/g	ND	109	50-140			
m,p-Xylenes	8.45	0.05	ug/g	ND	106	60-130			
o-Xylene	4.26	0.05	ug/g	ND	107	60-130			
Surrogate: 4-Bromofluorobenzene	8.19		%		102	50-140			
Surrogate: Dibromofluoromethane	8.22		%		103	50-140			
Surrogate: Toluene-d8	7.88		%		98.5	50-140			

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63442

Report Date: 04-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Qualifier Notes:

Login Qualifiers :

Container and COC sample IDs don't match - Methanol vial labelled as P12-G1.

Applies to Samples: TP12-G1

Sample Data Revisions:

None

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63442

Report Date: 04-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unless otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.



2526528

Client Name: <u>Patterson</u>	Project Ref: <u>PE6214</u>	Page <u>1</u> of <u>1</u>
Contact Name: <u>Mohammed Ramadan</u>	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address: <u>9 Auriga Dr.</u>	PO #: <u>63442</u>	
Telephone:	E-mail: <u>mr Ramadan@pattersongroup.ca</u> <u>amengh@pattersongroup.ca</u>	
Date Required:		

☒ REG 153/04 ☐ REG 406/19 Other Regulation		Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)		Required Analysis																
☐ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ Table 2 ☐ Res/Park ☐ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table _____ For RSC: ☐ Yes ☐ No	☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)						
Sample ID/Location Name						Date	Time													
1 <u>TP12-G1</u>		<u>S</u>		<u>2</u>		<u>JUNE 27, 25</u>		☒	☒	☒										
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Comments:				Method of Delivery: <u>Paracel Courier</u>	
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Relinquished By (Sign): <u>[Signature]</u>	Received at Depot:	Received at Lab: <u>SO</u>	Verified By: <u>[Signature]</u>		
Relinquished By (Print): <u>Mohammed Ramadan</u>	Date/Time:	Date/Time: <u>JUNE 27, 2025 4:15p</u>	Date/Time: <u>JUN 28 9:15</u>		
Date/Time: <u>JUNE 27, 2025</u>	Temperature: _____ °C	Temperature: <u>13.4</u>	pH Verified: ☐ By: <u>NA</u>		

Certificate of Analysis

Paterson Group Consulting Engineers (Ottawa)

9 Auriga Drive
Ottawa, ON K2E 7T9
Attn: Mohammed Ramadan

Client PO: 63444
Project: PE6214
Custody:

Report Date: 3-Jul-2025

Order Date: 27-Jun-2025

Order #: 2526529

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2526529-01	NW-G1
2526529-02	NW-G5

Approved By:

A. Tirca

Adriana Tirca, B.Eng (Chem)

Supervisor

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63444

Project Description: PE6214

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	30-Jun-25	30-Jun-25
PHC F1	CWS Tier 1 - P&T GC-FID	30-Jun-25	30-Jun-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	30-Jun-25	3-Jul-25
Solids, %	CWS Tier 1 - Gravimetric	30-Jun-25	2-Jul-25

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63444

Project Description: PE6214

Client ID:	NW-G1	NW-G5	-	-	
Sample Date:	27-Jun-25 09:00	27-Jun-25 09:00	-	-	-
Sample ID:	2526529-01	2526529-02	-	-	
Matrix:	Soil	Soil	-	-	
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	89.0	75.3	-	-	-	-
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Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	-	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	-	-	-	-
Toluene	0.05 ug/g	<0.05	<0.05	-	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	-	-	-	-
Toluene-d8	Surrogate	106%	115%	-	-	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	-	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	-	-	-	-
F3 PHCs (C16-C34)	8 ug/g	13	<8	-	-	-	-
F4 PHCs (C34-C50)	6 ug/g	10	<6	-	-	-	-

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63444

Project Description: PE6214

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Volatiles								
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	8.26		%	103	50-140			

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63444

Project Description: PE6214

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Physical Characteristics									
% Solids	86.5	0.1	% by Wt.	86.3			0.3	25	
Volatiles									
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	13.0		%		116	50-140			

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63444

Project Description: PE6214

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	159	7	ug/g	ND	92.7	85-115			
F2 PHCs (C10-C16)	92	4	ug/g	ND	97.7	60-140			
F3 PHCs (C16-C34)	243	8	ug/g	ND	105	60-140			
F4 PHCs (C34-C50)	155	6	ug/g	ND	106	60-140			
Volatiles									
Benzene	4.52	0.02	ug/g	ND	113	60-130			
Ethylbenzene	4.31	0.05	ug/g	ND	108	60-130			
Toluene	4.42	0.05	ug/g	ND	110	60-130			
m,p-Xylenes	8.45	0.05	ug/g	ND	106	60-130			
o-Xylene	4.26	0.05	ug/g	ND	107	60-130			
Surrogate: Toluene-d8	7.88		%		98.5	50-140			

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63444

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Qualifier Notes:Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unless otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.



2526529

Client Name: <u>Peterson</u>	Project Ref:	Page <u> </u> of <u> </u>
Contact Name: <u>Mohammed Ramadan / Adrian Menghart</u>	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address: <u>9 Auriga Dr.</u>	PO #: <u>63444</u>	
Telephone:	E-mail:	
Date Required: <u> </u>		

☒ REG 153/04 ☐ REG 406/19 Other Regulation		Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)		Required Analysis																
☐ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ Table 2 ☐ Res/Park ☐ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table <u> </u> For RSC: ☐ Yes ☐ No		☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm Mun: <u> </u> ☐ Other:		Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)				
Sample ID/Location Name						Date	Time													
1 <u>NW-G1</u>						<u>June 27, 25</u>														
2 <u>NW-G5</u>																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Comments:			Method of Delivery: <u>Paracel Courier</u>		
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Relinquished By (Sign): <u>[Signature]</u>	Received at Depot:	Received at Lab: <u>SD</u>	Verified By: <u>[Signature]</u>		
Relinquished By (Print): <u>Mohammed Ramadan</u>	Date/Time:	Date/Time: <u>June 27 2025 4:15p</u>	Date/Time: <u>June 28 2025 1:17p</u>		
Date/Time:	Temperature: <u> </u> °C	Temperature: <u>13.4</u>	pH Verified: ☐ By:		

Certificate of Analysis

Paterson Group Consulting Engineers (Ottawa)

9 Auriga Drive
Ottawa, ON K2E 7T9
Attn: Mohammed Ramadan

Client PO: 63445
Project: PE6214
Custody:

Report Date: 3-Jul-2025

Order Date: 27-Jun-2025

Order #: 2526530

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2526530-01	SP-G1
2526530-02	SP-G2
2526530-03	SP-G3

Approved By:

A. Tirca

Adriana Tirca, B.Eng (Chem)

Supervisor

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63445

Project Description: PE6214

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	30-Jun-25	30-Jun-25
Conductivity	MOE E3138 - probe @25 °C, water ext	30-Jun-25	30-Jun-25
pH, soil	MOE E3137 - probe @25 °C, CaCl2 ext	30-Jun-25	30-Jun-25
PHC F1	CWS Tier 1 - P&T GC-FID	30-Jun-25	30-Jun-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	30-Jun-25	3-Jul-25
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	2-Jul-25	2-Jul-25
SAR	Calculated	30-Jun-25	2-Jul-25
Solids, %	CWS Tier 1 - Gravimetric	30-Jun-25	2-Jul-25

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63445

Project Description: PE6214

Client ID:	SP-G1	SP-G2	SP-G3	-	-
Sample Date:	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	-	-
Sample ID:	2526530-01	2526530-02	2526530-03	-	-
Matrix:	Soil	Soil	Soil	-	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	94.1	94.3	94.1	-	-
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General Inorganics

SAR	0.01 N/A	1.89	2.10	2.45	-	-
Conductivity	5 uS/cm	410	486	541	-	-
pH	0.05 pH Units	7.60	-	-	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	1.8	1.6	1.4	-	-
Barium	1.0 ug/g	22.9	21.8	35.8	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	<5.0	<5.0	<5.0	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	8.6	8.9	8.9	-	-
Cobalt	1.0 ug/g	3.3	3.3	3.2	-	-
Copper	5.0 ug/g	24.5	8.0	7.2	-	-
Lead	1.0 ug/g	6.9	5.2	5.0	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	6.8	6.3	6.3	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	14.5	15.1	15.2	-	-
Zinc	20.0 ug/g	<20.0	<20.0	<20.0	-	-

Volatiles

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63445

Project Description: PE6214

Client ID:	SP-G1	SP-G2	SP-G3	-	
Sample Date:	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	-	-
Sample ID:	2526530-01	2526530-02	2526530-03	-	-
Matrix:	Soil	Soil	Soil	-	-
MDL/Units					

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
Toluene-d8	Surrogate	104%	103%	104%	-	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	-	-	-
F3 PHCs (C16-C34)	8 ug/g	24	18	18	-	-	-
F4 PHCs (C34-C50)	6 ug/g	11	8	7	-	-	-

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63445

Project Description: PE6214

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Volatiles								
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63445

Project Description: PE6214

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	8.26		%	103	50-140			

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63445

Project Description: PE6214

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	0.70	0.01	N/A	0.67			4.4	30	
Conductivity	188	5	uS/cm	184			2.4	5	
pH	7.52	0.05	pH Units	7.45			0.9	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	2.8	1.0	ug/g	2.8			1.2	30	
Barium	106	1.0	ug/g	109			3.1	30	
Beryllium	ND	0.5	ug/g	0.5			NC	30	
Boron	ND	5.0	ug/g	ND			NC	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium	27.9	5.0	ug/g	27.7			0.7	30	
Cobalt	7.1	1.0	ug/g	7.1			0.3	30	
Copper	12.4	5.0	ug/g	12.4			0.7	30	
Lead	9.9	1.0	ug/g	9.9			0.1	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	14.2	5.0	ug/g	14.1			0.9	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	37.8	10.0	ug/g	37.2			1.6	30	
Zinc	54.4	20.0	ug/g	53.6			1.5	30	
Physical Characteristics									
% Solids	86.5	0.1	% by Wt.	86.3			0.3	25	
Volatiles									

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63445

Project Description: PE6214

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	13.0		%		116	50-140			

Certificate of Analysis

Report Date: 03-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63445

Project Description: PE6214

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	159	7	ug/g	ND	92.7	85-115			
F2 PHCs (C10-C16)	92	4	ug/g	ND	97.7	60-140			
F3 PHCs (C16-C34)	243	8	ug/g	ND	105	60-140			
F4 PHCs (C34-C50)	155	6	ug/g	ND	106	60-140			
Metals									
Arsenic	47.5	1.0	ug/g	1.1	92.8	70-130			
Barium	93.6	1.0	ug/g	43.7	99.8	70-130			
Beryllium	48.7	0.5	ug/g	ND	97.1	70-130			
Boron	48.6	5.0	ug/g	ND	93.8	70-130			
Cadmium	46.2	0.5	ug/g	ND	92.2	70-130			
Chromium	62.4	5.0	ug/g	11.1	103	70-130			
Cobalt	52.5	1.0	ug/g	2.8	99.4	70-130			
Copper	51.3	5.0	ug/g	ND	92.8	70-130			
Lead	49.6	1.0	ug/g	4.0	91.2	70-130			
Molybdenum	47.2	1.0	ug/g	ND	93.8	70-130			
Nickel	54.3	5.0	ug/g	5.6	97.3	70-130			
Selenium	46.6	1.0	ug/g	ND	92.9	70-130			
Silver	45.2	0.3	ug/g	ND	90.3	70-130			
Thallium	49.6	1.0	ug/g	ND	99.0	70-130			
Uranium	51.5	1.0	ug/g	ND	102	70-130			
Vanadium	65.0	10.0	ug/g	14.9	100	70-130			
Zinc	67.2	20.0	ug/g	21.4	91.6	70-130			
Volatiles									
Benzene	4.52	0.02	ug/g	ND	113	60-130			
Ethylbenzene	4.31	0.05	ug/g	ND	108	60-130			
Toluene	4.42	0.05	ug/g	ND	110	60-130			
m,p-Xylenes	8.45	0.05	ug/g	ND	106	60-130			
o-Xylene	4.26	0.05	ug/g	ND	107	60-130			
Surrogate: Toluene-d8	7.88		%		98.5	50-140			

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63445

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Qualifier Notes:Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unless otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.



2526530

Client Name: <u>Peterson</u>	Project Ref: <u>DE 6214</u>	Page <u>1</u> of <u>1</u>
Contact Name: <u>Monica Ramon / Adrian Mengkurt</u>	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address: <u>9 Aviga Dr.</u>	PO #: <u>63445</u>	
Telephone:	E-mail: <u>monica@petersongroup.ca</u> <u>adrian@petersongroup.ca</u>	
Date Required:		

☐ REG 153/04 ☒ REG 406/19 ☐ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ Table 2 ☐ Res/Park ☐ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table _____ For RSC: ☐ Yes ☐ No	Other Regulation ☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)	Required Analysis														
Sample ID/Location Name		Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs FL-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CvI	B (HWE)	GC/MS/12	P1+	
1 SP-G1		↓		?		Date: <u>June 27, 2025</u>											
2 SP-G2		↓		↓													
3 SP-G3		↓		↓													
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Comments:		Method of Delivery: <u>Paracel Courier</u>	
Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com			
Relinquished By (Sign): <u>[Signature]</u>	Received at Depot:	Received at Lab: <u>SV</u>	Verified By: <u>[Signature]</u>
Relinquished By (Print): <u>Monica Ramon</u>	Date/Time:	Date/Time: <u>June 27, 2025 4:15 PM</u>	Date/Time: <u>June 28, 2025</u>
Date/Time: <u>June 27, 2025</u>	Temperature: _____ °C	Temperature: <u>13.4</u>	pH Verified: ☐ By: _____

Certificate of Analysis

Paterson Group Consulting Engineers (Ottawa)

9 Auriga Drive

Ottawa, ON K2E 7T9

Attn: Mohammed Ramadan

Client PO: 63443

Project: PE6214

Custody:

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2526531-01	TP13-G2

Approved By:



Mark Foto, M.Sc.

Laboratory Director

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Analysis Summary Table

Analysis	Method Reference/Description
PHC F1	CWS Tier 1 - P&T GC-FID
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS
Solids, %	CWS Tier 1 - Gravimetric

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Extraction Date	Analysis Date
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30-Jun-25	30-Jun-25
28-Jun-25	1-Jul-25
2-Jul-25	3-Jul-25
30-Jun-25	30-Jun-25
30-Jun-25	2-Jul-25

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Client ID:	TP13-G2	-	-	-	
Sample Date:	27-Jun-25 09:00	-	-	-	
Sample ID:	2526531-01	-	-	-	
Matrix:	Soil	-	-	-	
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	69.5	-	-	-	
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Volatiles

Acetone	0.50 ug/g	<0.50	-	-	-	
Benzene	0.02 ug/g	<0.02	-	-	-	
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	
Bromoform	0.05 ug/g	<0.05	-	-	-	
Bromomethane	0.05 ug/g	<0.05	-	-	-	
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	
Chloroform	0.05 ug/g	<0.05	-	-	-	
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	
Hexane	0.05 ug/g	<0.05	-	-	-	
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	
Styrene	0.05 ug/g	<0.05	-	-	-	
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	
Toluene	0.05 ug/g	<0.05	-	-	-	
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

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[illegible]

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Client ID:	TP13-G2	-	-	-	
Sample Date:	27-Jun-25 09:00	-	-	-	
Sample ID:	2526531-01	-	-	-	
Matrix:	Soil	-	-	-	
MDL/Units					

Volatiles

Trichloroethylene	0.05 ug/g	<0.05	-	-	-	
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	
o-Xylene	0.05 ug/g	<0.05	-	-	-	
Xylenes, total	0.05 ug/g	<0.05	-	-	-	
Toluene-d8	Surrogate	115%	-	-	-	
Dibromofluoromethane	Surrogate	116%	-	-	-	
4-Bromofluorobenzene	Surrogate	115%	-	-	-	

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	
F3 PHCs (C16-C34)	8 ug/g	<8	-	-	-	
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	-	

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	-	-	-	
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	
Anthracene	0.02 ug/g	<0.02	-	-	-	
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	
Chrysene	0.02 ug/g	<0.02	-	-	-	
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	
Fluoranthene	0.02 ug/g	<0.02	-	-	-	
Fluorene	0.02 ug/g	<0.02	-	-	-	
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	-	
Naphthalene	0.01 ug/g	<0.01	-	-	-	
Phenanthrene	0.02 ug/g	<0.02	-	-	-	
Pyrene	0.02 ug/g	<0.02	-	-	-	
2-Fluorobiphenyl	Surrogate	56.5%	-	-	-	
Terphenyl-d14	Surrogate	55.7%	-	-	-	

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

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Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit
Hydrocarbons							
F1 PHCs (C6-C10)	ND	7	ug/g				
F2 PHCs (C10-C16)	ND	4	ug/g				
F3 PHCs (C16-C34)	ND	8	ug/g				
F4 PHCs (C34-C50)	ND	6	ug/g				
Semi-Volatiles							
Acenaphthene	ND	0.02	ug/g				
Acenaphthylene	ND	0.02	ug/g				
Anthracene	ND	0.02	ug/g				
Benzo [a] anthracene	ND	0.02	ug/g				
Benzo [a] pyrene	ND	0.02	ug/g				
Benzo [b] fluoranthene	ND	0.02	ug/g				
Benzo [g,h,i] perylene	ND	0.02	ug/g				
Benzo [k] fluoranthene	ND	0.02	ug/g				
Chrysene	ND	0.02	ug/g				
Dibenzo [a,h] anthracene	ND	0.02	ug/g				
Fluoranthene	ND	0.02	ug/g				
Fluorene	ND	0.02	ug/g				
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g				
1-Methylnaphthalene	ND	0.02	ug/g				
2-Methylnaphthalene	ND	0.02	ug/g				
Methylnaphthalene (1&2)	ND	0.04	ug/g				
Naphthalene	ND	0.01	ug/g				
Phenanthrene	ND	0.02	ug/g				
Pyrene	ND	0.02	ug/g				
Surrogate: 2-Fluorobiphenyl	0.953		%	71.5	50-140		
Surrogate: Terphenyl-d14	0.898		%	67.4	50-140		
Volatiles							
Acetone	ND	0.50	ug/g				
Benzene	ND	0.02	ug/g				
Bromodichloromethane	ND	0.05	ug/g				
Bromoform	ND	0.05	ug/g				
Bromomethane	ND	0.05	ug/g				
Carbon Tetrachloride	ND	0.05	ug/g				
Chlorobenzene	ND	0.05	ug/g				
Chloroform	ND	0.05	ug/g				
Dibromochloromethane	ND	0.05	ug/g				
Dichlorodifluoromethane	ND	0.05	ug/g				
1,2-Dichlorobenzene	ND	0.05	ug/g				
1,3-Dichlorobenzene	ND	0.05	ug/g				
1,4-Dichlorobenzene	ND	0.05	ug/g				
1,1-Dichloroethane	ND	0.05	ug/g				
1,2-Dichloroethane	ND	0.05	ug/g				
1,1-Dichloroethylene	ND	0.05	ug/g				
cis-1,2-Dichloroethylene	ND	0.05	ug/g				
trans-1,2-Dichloroethylene	ND	0.05	ug/g				
1,2-Dichloropropane	ND	0.05	ug/g				
cis-1,3-Dichloropropylene	ND	0.05	ug/g				

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Notes

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit
trans-1,3-Dichloropropylene	ND	0.05	ug/g				
1,3-Dichloropropene, total	ND	0.05	ug/g				
Ethylbenzene	ND	0.05	ug/g				
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g				
Hexane	ND	0.05	ug/g				
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g				
Methyl Isobutyl Ketone	ND	0.50	ug/g				
Methyl tert-butyl ether	ND	0.05	ug/g				
Methylene Chloride	ND	0.05	ug/g				
Styrene	ND	0.05	ug/g				
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g				
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g				
Tetrachloroethylene	ND	0.05	ug/g				
Toluene	ND	0.05	ug/g				
1,1,1-Trichloroethane	ND	0.05	ug/g				
1,1,2-Trichloroethane	ND	0.05	ug/g				
Trichloroethylene	ND	0.05	ug/g				
Trichlorofluoromethane	ND	0.05	ug/g				
Vinyl chloride	ND	0.02	ug/g				
m,p-Xylenes	ND	0.05	ug/g				
o-Xylene	ND	0.05	ug/g				
Xylenes, total	ND	0.05	ug/g				
Surrogate: 4-Bromofluorobenzene	8.20		%	102	50-140		
Surrogate: Dibromofluoromethane	8.17		%	102	50-140		
Surrogate: Toluene-d8	8.26		%	103	50-140		

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Notes

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30
F3 PHCs (C16-C34)	21	8	ug/g	21			1.0	30
F4 PHCs (C34-C50)	11	6	ug/g	20			NC	30
Physical Characteristics								
% Solids	86.5	0.1	% by Wt.	86.3			0.3	25
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g	ND			NC	40
Acenaphthylene	0.067	0.02	ug/g	0.072			7.4	40
Anthracene	0.035	0.02	ug/g	0.037			4.8	40
Benzo [a] anthracene	0.103	0.02	ug/g	0.125			19.5	40
Benzo [a] pyrene	0.136	0.02	ug/g	0.172			23.0	40
Benzo [b] fluoranthene	0.137	0.02	ug/g	0.156			12.7	40
Benzo [g,h,i] perylene	0.144	0.02	ug/g	0.143			1.3	40
Benzo [k] fluoranthene	0.073	0.02	ug/g	0.091			21.1	40
Chrysene	0.104	0.02	ug/g	0.122			15.7	40
Dibenzo [a,h] anthracene	0.035	0.02	ug/g	0.037			5.1	40
Fluoranthene	0.153	0.02	ug/g	0.182			17.2	40
Fluorene	ND	0.02	ug/g	ND			NC	40
Indeno [1,2,3-cd] pyrene	0.111	0.02	ug/g	0.120			7.5	40
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40
Naphthalene	ND	0.01	ug/g	ND			NC	40
Phenanthrene	0.063	0.02	ug/g	0.078			21.3	40
Pyrene	0.119	0.02	ug/g	0.139			15.3	40
Surrogate: 2-Fluorobiphenyl	0.979		%		59.2	50-140		
Surrogate: Terphenyl-d14	0.945		%		57.2	50-140		
Volatiles								
Acetone	ND	0.50	ug/g	ND			NC	50
Benzene	ND	0.02	ug/g	ND			NC	50
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50
Bromoform	ND	0.05	ug/g	ND			NC	50
Bromomethane	ND	0.05	ug/g	ND			NC	50
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50
Chlorobenzene	ND	0.05	ug/g	ND			NC	50
Chloroform	ND	0.05	ug/g	ND			NC	50
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Notes

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50
Ethylbenzene	ND	0.05	ug/g	ND			NC	50
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50
Hexane	ND	0.05	ug/g	ND			NC	50
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50
Methylene Chloride	ND	0.05	ug/g	ND			NC	50
Styrene	ND	0.05	ug/g	ND			NC	50
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50
Toluene	ND	0.05	ug/g	ND			NC	50
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50
Trichloroethylene	ND	0.05	ug/g	ND			NC	50
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50
Vinyl chloride	ND	0.02	ug/g	ND			NC	50
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50
o-Xylene	ND	0.05	ug/g	ND			NC	50
Surrogate: 4-Bromofluorobenzene	13.0		%		115	50-140		
Surrogate: Dibromofluoromethane	13.7		%		121	50-140		
Surrogate: Toluene-d8	13.0		%		116	50-140		

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Notes

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit
Hydrocarbons								
F1 PHCs (C6-C10)	159	7	ug/g	ND	92.7	85-115		
F2 PHCs (C10-C16)	97	4	ug/g	ND	110	60-140		
F3 PHCs (C16-C34)	269	8	ug/g	21	116	60-140		
F4 PHCs (C34-C50)	171	6	ug/g	20	111	60-140		
Semi-Volatiles								
Acenaphthene	0.150	0.02	ug/g	ND	72.4	50-140		
Acenaphthylene	0.219	0.02	ug/g	0.072	70.9	50-140		
Anthracene	0.188	0.02	ug/g	0.037	73.0	50-140		
Benzo [a] anthracene	0.268	0.02	ug/g	0.125	68.9	50-140		
Benzo [a] pyrene	0.307	0.02	ug/g	0.172	65.5	50-140		
Benzo [b] fluoranthene	0.301	0.02	ug/g	0.156	70.4	50-140		
Benzo [g,h,i] perylene	0.281	0.02	ug/g	0.143	67.1	50-140		
Benzo [k] fluoranthene	0.236	0.02	ug/g	0.091	70.3	50-140		
Chrysene	0.263	0.02	ug/g	0.122	68.3	50-140		
Dibenzo [a,h] anthracene	0.194	0.02	ug/g	0.037	76.1	50-140		
Fluoranthene	0.322	0.02	ug/g	0.182	67.9	50-140		
Fluorene	0.149	0.02	ug/g	ND	72.0	50-140		
Indeno [1,2,3-cd] pyrene	0.272	0.02	ug/g	0.120	73.6	50-140		
1-Methylnaphthalene	0.185	0.02	ug/g	ND	89.8	50-140		
2-Methylnaphthalene	0.190	0.02	ug/g	ND	92.1	50-140		
Naphthalene	0.161	0.01	ug/g	ND	78.1	50-140		
Phenanthrene	0.231	0.02	ug/g	0.078	74.3	50-140		
Pyrene	0.271	0.02	ug/g	0.139	63.7	50-140		
Surrogate: 2-Fluorobiphenyl	1.17		%		70.7	50-140		
Surrogate: Terphenyl-d14	1.13		%		68.5	50-140		
Volatiles								
Acetone	10.0	0.50	ug/g	ND	100	50-140		
Benzene	4.52	0.02	ug/g	ND	113	60-130		
Bromodichloromethane	4.36	0.05	ug/g	ND	109	60-130		
Bromoform	4.53	0.05	ug/g	ND	113	60-130		
Bromomethane	3.22	0.05	ug/g	ND	80.5	50-140		
Carbon Tetrachloride	4.47	0.05	ug/g	ND	112	60-130		
Chlorobenzene	4.41	0.05	ug/g	ND	110	60-130		
Chloroform	4.17	0.05	ug/g	ND	104	60-130		
Dibromochloromethane	4.66	0.05	ug/g	ND	116	60-130		
Dichlorodifluoromethane	3.79	0.05	ug/g	ND	94.7	50-140		
1,2-Dichlorobenzene	4.50	0.05	ug/g	ND	113	60-130		
1,3-Dichlorobenzene	4.51	0.05	ug/g	ND	113	60-130		
1,4-Dichlorobenzene	4.43	0.05	ug/g	ND	111	60-130		
1,1-Dichloroethane	4.12	0.05	ug/g	ND	103	60-130		
1,2-Dichloroethane	4.19	0.05	ug/g	ND	105	60-130		
1,1-Dichloroethylene	4.56	0.05	ug/g	ND	114	60-130		
cis-1,2-Dichloroethylene	4.06	0.05	ug/g	ND	101	60-130		
trans-1,2-Dichloroethylene	4.45	0.05	ug/g	ND	111	60-130		

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Notes

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit
1,2-Dichloropropane	4.47	0.05	ug/g	ND	112	60-130		
cis-1,3-Dichloropropylene	4.53	0.05	ug/g	ND	113	60-130		
trans-1,3-Dichloropropylene	4.55	0.05	ug/g	ND	114	60-130		
Ethylbenzene	4.31	0.05	ug/g	ND	108	60-130		
Ethylene dibromide (dibromoethane, 1,2-)	4.66	0.05	ug/g	ND	117	60-130		
Hexane	4.68	0.05	ug/g	ND	117	60-130		
Methyl Ethyl Ketone (2-Butanone)	11.3	0.50	ug/g	ND	113	50-140		
Methyl Isobutyl Ketone	11.0	0.50	ug/g	ND	110	50-140		
Methyl tert-butyl ether	11.5	0.05	ug/g	ND	115	50-140		
Methylene Chloride	4.63	0.05	ug/g	ND	116	60-130		
Styrene	4.08	0.05	ug/g	ND	102	60-130		
1,1,1,2-Tetrachloroethane	4.61	0.05	ug/g	ND	115	60-130		
1,1,2,2-Tetrachloroethane	4.63	0.05	ug/g	ND	116	60-130		
Tetrachloroethylene	4.71	0.05	ug/g	ND	118	60-130		
Toluene	4.42	0.05	ug/g	ND	110	60-130		
1,1,1-Trichloroethane	4.33	0.05	ug/g	ND	108	60-130		
1,1,2-Trichloroethane	4.58	0.05	ug/g	ND	114	60-130		
Trichloroethylene	4.63	0.05	ug/g	ND	116	60-130		
Trichlorofluoromethane	3.21	0.05	ug/g	ND	80.2	50-140		
Vinyl chloride	4.36	0.02	ug/g	ND	109	50-140		
m,p-Xylenes	8.45	0.05	ug/g	ND	106	60-130		
o-Xylene	4.26	0.05	ug/g	ND	107	60-130		
Surrogate: 4-Bromofluorobenzene	8.19		%		102	50-140		
Surrogate: Dibromofluoromethane	8.22		%		103	50-140		
Surrogate: Toluene-d8	7.88		%		98.5	50-140		

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Notes

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63443

Qualifier Notes:

QC Qualifiers:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unless otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality control method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that we shall not under any circumstances be liable to you in connection with this work.

Order #: 2526531

Report Date: 03-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

criteria identified in the

our employees or agents



2526531

Client Name: Peterson
Contact Name: Mohammed Ramadan
Address: 9 Avicpa Dr.
Telephone:

Project Ref: PE-6214
Quote #:
PO #: 63443
E-mail: mramadan@petersongroup.ca
amouhahat@petersonsgroup.ca

Page 1 of 1

Turnaround Time

☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular

Date Required:

☒ REG 153/04 ☐ REG 406/19 Other Regulation
☐ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ REG 558 ☐ PWQO
☐ Table 2 ☐ Res/Park ☐ Coarse ☐ CCME ☐ MISA
☐ Table 3 ☐ Ind/Comm ☐ SU - Sani ☐ SU - Storm
☐ Table _____
Mun: _____
For RSC: ☐ Yes ☐ No ☐ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water)
SW (Surface Water) SS (Storm/Sanitary Sewer)
P (Paint) A (Air) O (Other)

Required Analysis

Sample ID/Location Name		Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs FL-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)						
						Date	Time													
1	TP13-02	S		2		June 27, 15		X	X	X										
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Comments:

Method of Delivery:

Paracel Courier

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com

Relinquished By (Sign): <u>[Signature]</u>	Received at Depot:	Received at Lab: <u>SO</u>	Verified By: <u>[Signature]</u>
Relinquished By (Print): <u>Mohammed Ramadan</u>	Date/Time:	Date/Time: <u>June 27, 2015 4:15 PM</u>	Date/Time: <u>June 28, 2015</u>
Date/Time: <u>June 27, 2015</u>	Temperature: _____ °C	Temperature: <u>13.4</u>	pH Verified: ☐ By: _____

Certificate of Analysis

Paterson Group Consulting Engineers (Ottawa)

9 Auriga Drive
Ottawa, ON K2E 7T9
Attn: Adrian Menyhart

Client PO: 63441
Project: PE6214
Custody:

Report Date: 4-Jul-2025

Order Date: 27-Jun-2025

Order #: 2526532

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID	Paracel ID	Client ID
2526532-01	EX2-WW2	2526532-17	DUP2
2526532-02	EX2-NW1		
2526532-03	EX2-BS1		
2526532-04	EX2-BS2		
2526532-05	EX1-BS11		
2526532-06	EX1-BS12		
2526532-07	EX1-BS3		
2526532-08	EX1-BS8		
2526532-09	EX1-BS10		
2526532-10	EX1-EW4		
2526532-11	EX1-EW9		
2526532-12	EX1-WW3		
2526532-13	EX1-WW5		
2526532-14	EX1-SW2		
2526532-15	EX1-SW8		
2526532-16	DUP1		

Approved By:



Mark Foto, M.Sc.

Laboratory Director

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	30-Jun-25	1-Jul-25
PHC F1	CWS Tier 1 - P&T GC-FID	30-Jun-25	1-Jul-25
PHC F4G (gravimetric)	CWS Tier 1 - Extraction Gravimetric	2-Jul-25	3-Jul-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	30-Jun-25	3-Jul-25
Solids, %	CWS Tier 1 - Gravimetric	30-Jun-25	2-Jul-25

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Client ID:	EX2-WW2	EX2-NW1	EX2-BS1	EX2-BS2		
Sample Date:	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	-	-
Sample ID:	2526532-01	2526532-02	2526532-03	2526532-04		
Matrix:	Soil	Soil	Soil	Soil		
MDL/Units						

Physical Characteristics

% Solids	0.1 % by Wt.	92.4	92.8	63.3	63.4	-	-
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Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	106%	106%	124%	122%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	<8	<8	<8	<8	-	-
F4 PHCs (C34-C50)	6 ug/g	<6	<6	<6	<6	-	-

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Client ID:	EX1-BS11	EX1-BS12	EX1-BS3	EX1-BS8		
Sample Date:	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	-	-
Sample ID:	2526532-05	2526532-06	2526532-07	2526532-08		
Matrix:	Soil	Soil	Soil	Soil		
MDL/Units						

Physical Characteristics

% Solids	0.1 % by Wt.	65.0	61.6	91.2	64.9	-	-
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Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	122%	123%	107%	122%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	<8	<8	19	<8	-	-
F4 PHCs (C34-C50)	6 ug/g	6	<6	9	<6	-	-

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Client ID:	EX1-BS10	EX1-EW4	EX1-EW9	EX1-WW3		
Sample Date:	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	-	-
Sample ID:	2526532-09	2526532-10	2526532-11	2526532-12		
Matrix:	Soil	Soil	Soil	Soil		
MDL/Units						

Physical Characteristics

% Solids	0.1 % by Wt.	63.1	94.0	66.2	79.2	-	-
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Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	123%	106%	120%	114%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	<8	286	<8	<8	-	-
F4 PHCs (C34-C50)	6 ug/g	<6	87 [1]	<6	<6	-	-
F4G PHCs (gravimetric)	50 ug/g	-	436	-	-	-	-

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Client ID:	EX1-WW5	EX1-SW2	EX1-SW8	DUP1		
Sample Date:	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	27-Jun-25 09:00	-	-
Sample ID:	2526532-13	2526532-14	2526532-15	2526532-16		
Matrix:	Soil	Soil	Soil	Soil		
MDL/Units						

Physical Characteristics

% Solids	0.1 % by Wt.	59.3	93.5	67.1	79.6	-	-
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Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	123%	106%	121%	113%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	<8	<8	<8	<8	-	-
F4 PHCs (C34-C50)	6 ug/g	<6	<6	<6	<6	-	-

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Client ID:	DUP2					
Sample Date:	27-Jun-25 09:00					
Sample ID:	2526532-17					
Matrix:	Soil					
MDL/Units						

Physical Characteristics

% Solids	0.1 % by Wt.	94.2	-	-	-	-
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Volatiles

Benzene	0.02 ug/g	<0.02	-	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-
Toluene	0.05 ug/g	<0.05	-	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-
Toluene-d8	Surrogate	104%	-	-	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	-
F3 PHCs (C16-C34)	8 ug/g	150	-	-	-	-
F4 PHCs (C34-C50)	6 ug/g	56 [1]	-	-	-	-
F4G PHCs (gravimetric)	50 ug/g	266	-	-	-	-

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
F4G PHCs (gravimetric)	ND	50	ug/g					
Volatiles								
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	8.26		%	103	50-140			

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Physical Characteristics									
% Solids	86.5	0.1	% by Wt.	86.3			0.3	25	
Volatiles									
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	13.0		%		116	50-140			

Certificate of Analysis

Report Date: 04-Jul-2025

Client: Paterson Group Consulting Engineers (Ottawa)

Order Date: 27-Jun-2025

Client PO: 63441

Project Description: PE6214

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	159	7	ug/g	ND	92.7	85-115			
F2 PHCs (C10-C16)	92	4	ug/g	ND	97.7	60-140			
F3 PHCs (C16-C34)	243	8	ug/g	ND	105	60-140			
F4 PHCs (C34-C50)	155	6	ug/g	ND	106	60-140			
F4G PHCs (gravimetric)	1060	50	ug/g	ND	106	80-120			
Volatiles									
Benzene	4.52	0.02	ug/g	ND	113	60-130			
Ethylbenzene	4.31	0.05	ug/g	ND	108	60-130			
Toluene	4.42	0.05	ug/g	ND	110	60-130			
m,p-Xylenes	8.45	0.05	ug/g	ND	106	60-130			
o-Xylene	4.26	0.05	ug/g	ND	107	60-130			
Surrogate: Toluene-d8	7.88		%		98.5	50-140			

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63441

Report Date: 04-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Qualifier Notes:

Sample Qualifiers :

- 1: GC-FID signal did not return to baseline by C50
Applies to Samples: EX1-EW4, DUP2

Sample Data Revisions:

None

Certificate of Analysis

Client: Paterson Group Consulting Engineers (Ottawa)

Client PO: 63441

Report Date: 04-Jul-2025

Order Date: 27-Jun-2025

Project Description: PE6214

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unless otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

Paracel ID: 2526532



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Paracel Order Number
(Lab Use Only)

2526532

Chain Of Custody
(Lab Use Only)

Client Name: **Paterson**
Contact Name: **Adrian Meryhart**
Address: **9 Avriga Drive**
Telephone: **613-226-7381**

Project Ref: **PE6214**
Quote #:
PO #: **63441**
E-mail: **ameryhart@patersongroup.ca**
aderibder@patersongroup.ca

Page **1** of **2**
Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required:

☒ REG 153/04 ☐ REG 406/19 **Other Regulation**
☐ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ REG 558 ☐ PWQO
☐ Table 2 ☐ Res/Park ☐ Coarse ☐ CCME ☐ MISA
☐ Table 3 ☐ Ind/Comm ☐ SU - Sani ☐ SU - Storm
☐ Table _____
Mun: _____
For RSC: ☐ Yes ☐ No ☐ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water)
SW (Surface Water) SS (Storm/Sanitary Sewer)
P (Paint) A (Air) O (Other)

Required Analysis

Sample ID/Location Name		Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)				
						Date	Time											
1	EX2-WW2	S	/	2	/	06/27/25	/	X										
2	EX2-NW1																	
3	EX2-BS1																	
4	EX2-BS2																	
5	EX1-BS11																	
6	EX1-BS12																	
7	EX1-BS3																	
8	EX1-BS8																	
9	EX1-BS10																	
10	EX1-EW4																	

Comments:

Method of Delivery: **Paracel Courier**

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Relinquished By (Sign): GR	Received at Depot:	Received at Lab: SD	Verified By: [Signature]
Relinquished By (Print): Carson deRudder	Date/Time:	Date/Time: June 27, 2025 4:15p	Date/Time: Jun 28 930
Date/Time: 06/27/25	Temperature: _____ °C	Temperature: 13.4	pH Verified: ☐ By: _____



Client Name: **Patterson**
Contact Name: **Adrian Menyhait**
Address: **9 Auriga Drive**
Telephone: **613-226-7381**

Project Ref: **PE6214**
Quote #:
PO #: **63441**
E-mail: **see page 1**

Page **2** of **2**
Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required:

☒ REG 153/04 ☐ REG 406/19 **Other Regulation**

☐ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ REG 558 ☐ PWQO
☐ Table 2 ☐ Res/Park ☐ Coarse ☐ CCME ☐ MISA
☐ Table 3 ☐ Ind/Comm ☐ SU - Sani ☐ SU - Storm
☐ Table _____
Mun: _____
For RSC: ☐ Yes ☐ No ☐ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water)
SW (Surface Water) SS (Storm/Sanitary Sewer)
P (Paint) A (Air) O (Other)

Required Analysis

Sample ID/Location Name		Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)				
						Date	Time											
1	EX1-FW9	S	/	2	/	06/27/25	/	X										
2	EX1-WW3																	
3	EX1-WW5																	
4	EX1-SW2																	
5	EX1-SW8																	
6	DUP1																	
7	DUP2																	
8																		
9																		
10																		

Comments:

Method of Delivery: **Paracel Courier**

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Relinquished By (Sign): CR	Received at Depot:	Received at Lab: SO	Verified By: [Signature]
Relinquished By (Print): Carson de Ridder	Date/Time:	Date/Time: June 27 2025 4:15p	Date/Time: June 28 2025
Date/Time: 06/27/25	Temperature: _____ °C	Temperature: 13.4	pH Verified: ☐ By: [Signature]