

PHASE II DIRECT-PUSH INVESTIGATION LOG: DP-01 Phase II Direct-Push Investig

LOCATION: Kitchener, Ontario

PROJECT: Former Service Station Phase II ESA

DATE STARTED: 2026-08-26

CLIENT: Brownfield Redevelopment Corporation

PROJECT NO.: ENV-2026-101

GROUND ELEVATION: 312.6

DIRECT-PUSH CONTRACTOR: GeoProbe Environmental Services Ltd. **RIG / METHOD:** Direct Push

GROUNDWATER: 12.8 ft in temporary screen after stabilization

Depth (ft)	Water Information	Graphic Log	Material Description	DP Core Run	Recovery (%)	Sample ID	Sample Type	PID / VOC (ppm)	Odour / Staining / NAPL	Laboratory Results	Criteria / Exceedance
0.0			Ground Surface								
1.0			ASPHALT CONCRETE; dense, intact, dark grey.	DP-01					No odour, staining or sheen		
2.0			Dark grey								
3.0			None								
4.0			GRANULAR BASE; crushed limestone, dense, grey, moist.		86	DP1-01	DP	3.4		BTEX: ND; PHC F1-F4: ND	Meets applicable soil criteria
5.0			Grey						Construction debris; no odour		
6.0			None								
7.0			SAND AND GRAVEL FILL; compact, brown, moist, trace brick and asphalt fragments.	DP-02							
8.0			Brown						Slight petroleum odour	PHC F2: 140 mg/kg; F3: 320 mg/kg	Exceeds PHC F2 soil criterion
9.0			None		90	DP1-02	DP	46.8			
10.0			SILTY SAND FILL; loose to compact, brown to dark brown, moist to wet, trace gravel; petroleum-impacted from 8 to 12 ft.						Strong petroleum odour and black staining; no visible free product		
11.0			Brown	DP-03							
12.0			Petroleum								
13.0					92	DP1-03	DP	185		Benzene: 0.18 mg/kg; PHC F2: 860 mg/kg	Exceeds benzene and PHC F2 soil criteria
14.0			SILTY CLAY; firm to stiff, grey, moist to wet, low to medium plasticity.								
15.0			Grey	DP-04							
16.0			None						Moist to wet; no odour or staining		
17.0											
18.0					95	DP1-04	DP	18.2		BTEX: ND; PHC F2: 42 mg/kg	Meets applicable soil criteria
19.0											
20.0											

TERMINATION / REFUSAL: Terminated at 30.0 ft on dense till with cobbles; target depth reached

INVESTIGATION-DERIVED WASTE: Soil cuttings and purge water containerized, labelled and held pending disposal

DECONTAMINATION: Reusable tooling washed with detergent and potable-water rinse between locations

TEMPORARY SCREEN / ABANDONMENT: 0.75 in temporary screen from 10 to 15 ft; removed and borehole sealed with bentonite grout

SAMPLE / LABORATORY NOTES: Soil samples analyzed for BTEX and PHC F1-F4

FIELD NOTES: No free product observed; strongest odour and staining from 8 to 12 ft

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21.0			SANDY SILT TILL; dense to very dense, grey-brown, moist, with gravel and occasional cobbles. Grey-brown None	DP-05	82	DP1-05	DP	2.1	No environmental evidence observed	VOCs and PHC F1-F4: ND	Meets applicable soil criteria
22.0											
23.0											
24.0											
25.0											
26.0											
27.0	DP-06	70	DP1-06	DP	0.6	VOCs and PHC F1-F4: ND	Meets applicable soil criteria				
28.0											
29.0											
30.0											
31.0											
32.0											
33.0	End of Direct-Push Sounding										
34.0											
35.0											
36.0											
37.0											
38.0											
39.0											
40.0											

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