

Appendix B2

Site Investigation Soil Logs

PROJECT: North-west Interceptor Sewer	CLIENT: Manitoba Infrastructure and Technology	TESTHOLE NO: TH14-01
LOCATION: MH W11 - NW turning median of Inkster Boulevard & Brookside Boulevard		PROJECT NO.: 60223051
CONTRACTOR: Subterranean (Manitoba) Ltd.	METHOD: Soil Mec STM-20, 720 mm diameter auger	ELEVATION (m): 236.22
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		UNDRAINED SHEAR STRENGTH	COMMENTS	ELEVATION
						* Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) ■ Total Unit Wt ■ (kN/m ³)	+ Torvane + × QU/2 × □ Lab Vane □ △ Pocket Pen. △ ⊕ Field Vane ⊕ (kPa)			
0		TOPSOIL								236
0 - 1.4		CLAY (FILL) - some sand, some gravel - brown and grey, dry to moist, firm - intermediate plasticity								
1.4 - 1.8		- broken pieces of asphalt at 1.4 m								235
1.8 - 4.0		CLAY - some silt to silty - brown, moist, firm - high plasticity - trace white silt inclusions (potentially sulphates) below 1.8 m								234
3.0				G01	55					233
4.0 - 6.7		- grey, trace till inclusions below 4.0 m								232
6.7 - 7.3		SILT - clayey, some sand, some gravel - light grey, moist, loose		G02	45					229
7.3 - 8.5		SILT (TILL) - some sand, some gravel, trace cobbles - tan, dry to moist, compact to dense		G03	55					228
7.9		- boulder (rounded, 300 mm diameter) at 7.9 m								
8.2		- cobble (rounded, 150 mm diameter) at 8.2 m								228
8.5 - 10		END OF TEST HOLE AT 8.5 m IN SILT (TILL). NOTES: 1. Sloughing not observed during drilling. 2. Seepage not observed during drilling. 3. Test hole open, dry to 8.5 m upon completion. 4. Test hole backfilled with cuttings upon completion.								227

LOG OF TEST HOLE NW INTERCEPTOR INKSTER TH LOGS.GPJ UMA WINN.GDT 7/24/14



LOGGED BY: Aaron Kaluzniak	COMPLETION DEPTH: 8.53 m
REVIEWED BY: Faris Khalil	COMPLETION DATE: 7/22/14
PROJECT ENGINEER: Marv McDonald	Page 1 of 1

PROJECT: North-west Interceptor Sewer	CLIENT: Manitoba Infrastructure and Technology	TESTHOLE NO: TH14-02
LOCATION: MH W8 - Centre median Inkster, 100 m W of Inksbrook Drive		PROJECT NO.: 60223051
CONTRACTOR: Subterranean (Manitoba) Ltd.	METHOD: Soil Mec STM-20, 720 mm diameter auger	ELEVATION (m): 235.91
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		UNDRAINED SHEAR STRENGTH		COMMENTS	ELEVATION
						* Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt ■ (kN/m ³) 16 17 18 19 20 21 Plastic MC Liquid 20 40 60 80 100	+ Torvane + × QU/2 × □ Lab Vane □ △ Pocket Pen. △ ⊕ Field Vane ⊕ (kPa) 50 100 150 200				
0		FILL - road gravel and topsoil - black, silty topsoil on south side of hole - yellowish white, processed crushed limestone on north side of hole									235
1		CLAY (FILL) - some sand, some gravel - dark grey, moist, firm - intermediate plasticity									234
2		CLAY - silty, trace sand - brown, moist, firm - high plasticity - mottled brown and grey below 2.4 m									233
3											232
4		- some till inclusions below 4.0 m									231
5		- trace gravel (subrounded, diameter < 50 mm) below 4.6 m									230
6		SILT - clayey, trace sand, trace gravel - grey, moist, loose		G04	●						229
7		SILT (TILL) - some clay, some sand, some gravel, trace cobbles - tan, dry to moist, compact to dense		G05	●						228
8		- grey, no clay below 7.2 m - cobble (rounded, 200 mm diameter) at 7.3 m		G06	●						227
9		END OF TEST HOLE AT 8.8 m IN SILT (TILL). NOTES: 1. Sloughing observed in fill layer from 0.0 to 1.3 m below ground surface. 2. Seepage not observed during drilling. 3. Test hole open, dry to 8.8 m upon completion. 4. Test hole backfilled with cuttings upon completion.									226

LOG OF TEST HOLE NW INTERCEPTOR INKSTER TH LOGS.GPJ UMA WINN.GDT 7/24/14



LOGGED BY: Aaron Kaluzniak	COMPLETION DEPTH: 8.84 m
REVIEWED BY: Faris Khalil	COMPLETION DATE: 7/22/14
PROJECT ENGINEER: Marv McDonald	Page 1 of 1

