

APPENDIX C

EXISTING TEST HOLE LOG INFORMATION

CLIENT	CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT	PROJECT NO.	22-0107-013
PROJECT LOCATION	Roland Street Outfall Site	SURFACE ELEV.	226.01 m
DESCRIPTION	Winnipeg, MB	TOC STICK-UP / ELEV.	1.06 m / 227.07 m (Inclinometer)
DRILL RIG / HAMMER	Lower Bank at 16 Watt Street, near Red River	START DATE	3-30-2023
METHOD(S)	Acker MP5 Track Mounted Drill Rig with Auto-Hammer	UTM (m)	N 5,529,614.61 E 635,909.6 Zone 14

ELEVATION (m)	DEPTH (m) (ft)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	DRILLING/ DIGGING REMARKS	WATER LEVEL	LOG OF INSTALLS		SAMPLE TYPE	NUMBER	BLOWS/0.15 m	N-VALUE	PL MC LL			
						DIAGRAM	DEPTH (m)					Cu TORVANE (kPa) ◆	qu POCKET PEN (kPa) ★	SPT (N) BLOWS/0.30 m ▲	20
			ELEV (m)												
			TOPSOIL/ORGANICS - 63 mm, Black, Organics, rootlets. 225.9						S1						
			CLAY (CH) - Greyish brown, moist, firm, high plasticity, trace fine to medium grained sand, trace organics, trace silt, Frozen to 1.68 m.						S2						
			- Black below 0.9 m.						S3						
			- Trace gravel at 1.2 m.												
			- Stiff below 1.7 m.												
			- Soft, intermediate plasticity, with silt, yellowish brown from 2.4 m to 2.6 m.						S4						
			- Some silt below 2.6 m. 222.7						S5						
			SILT (ML) - Yellowish brown, moist to wet, soft, low plasticity, some fine to medium grained sand. 222.2	- Seepage at 3.4 m.					S6						
			CLAY (CH) - Greyish brown, moist, stiff, high plasticity, some fine grained sand.						S7						
			- Firm below 4.9 m.						S8						
			- Grey, trace silt inclusions below 5.3 m.												
			- Saturated below 6.1 m.						S9						
			- Soft below 6.4 m.												
			- Trace gravel, some sand below 8.5 m.						S10						
									S11						
				- Sloughing and squeezing below 9.1 m.											
WATER LEVELS ▽ During Drilling/Digging 3.35 m ▼ Upon Completion 5.49 m					CONTRACTOR Paddock Drilling					INSPECTOR N. BOENDERS					
					APPROVED T. NG					DATE 11-27-2025					

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CLIENT	CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT	PROJECT NO.	22-0107-013
PROJECT	Roland Street Outfall Site	SURFACE ELEV.	229.06 m
LOCATION	Winnipeg, MB	TOC STICK-UP / ELEV.	1.04 m / 230.10 m (Inclinometer)
DESCRIPTION	Upper Bank at 16 Watt Street, near Red River	START DATE	3-31-2023
DRILL RIG / HAMMER	Acker MP5 Track Mounted Drill Rig with Auto-Hammer	UTM (m)	N 5,529,617.63
METHOD(S)	0.0 m to 17.7 m: 125 mm ø SSA		E 635,928.87 Zone 14

ELEVATION (m)	DEPTH (m) (ft)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	DRILLING/ DIGGING REMARKS	WATER LEVEL	LOG OF INSTALLS		SAMPLE TYPE	NUMBER	BLOWS/0.15 m	N-VALUE	PL MC LL Cu TORVANE (kPa) ◆ qu POCKET PEN (kPa) ★ SPT (N) BLOWS/0.30 m ▲			
						DIAGRAM	DEPTH (m)								
229			TOPSOIL/ORGANICS - 63 mm, Black, moist, organics.												
			CLAY (CH) - Black, moist, firm, high plasticity, with silt, trace fine to medium grained sand, frozen to 1.37 m.						S1						
			- Brown below 0.2 m.						S2						
			- Some silt below 0.8 m.						S3						
			- Firm below 1.4 m.						S4						
			- Trace silt below 1.8 m.						S5						
			- Greyish brown below 3.0 m.						S6						
									S7						
			- Brown below 5.0 m.						S8						
			- Grey below 6.9 m.						S9						
			- Trace silt inclusions below 7.6 m.						S10						
			- Soft below 8.8 m.												

WATER LEVELS	▽ During Drilling/Digging	14.02 m	CONTRACTOR	INSPECTOR
	▼ Upon Completion	8.38 m	Paddock Drilling	N. BOENDERS
			APPROVED	DATE
			T. NG	11-27-2025

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KEY TO SYMBOLS

LITHOLOGIC SYMBOLS



Clay (CH, high plasticity)



Silt (ML)



Till (mix of gravel, sand, clay and silt)



Topsoil

SAMPLER SYMBOLS



Auger Grab



SPT Split Spoon

WELL CONSTRUCTION SYMBOLS



Slope Inclinator (grout)



Slope Inclinator (slough)



Slough

ABBREVIATIONS

LL - Liquid Limit
 PL - Plastic Limit
 PI - Plastic Index
 MC - Moisture Content
 DD - Dry Density
 NP - Non-Plastic
 -200 - Percent Passing No. 200 Sieve
 TV - Torvane (kPa)
 PP - Pocket Penetrometer (kPa)
 PSA - Particle Size Analysis
 TOC - Top Of Casing

PN - Pneumatic Piezometer
 VW - Vibrating Wire Piezometer
 PID - Photoionization Detector
 ppm - Parts Per Million
 Water Level During Drilling
 Water Level Upon Completion of Drilling
 Water Level Remeasured/Static