

APPENDIX 'B'

Test Hole Log

APPENDIX 'B' – TEST HOLE LOG

KEY TO SYMBOLS							
<p>LITHOLOGIC SYMBOLS</p> <div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;"> Clay (CH, high plasticity) </div> <div style="display: flex; align-items: center;"> Clay (CL, low plasticity) </div> <div style="display: flex; align-items: center;"> Fill (made ground) </div> <div style="display: flex; align-items: center;"> Silt Till </div> </div>	<p>SAMPLER SYMBOLS</p> <div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;"> Auger Grab </div> <div style="display: flex; align-items: center;"> SPT Split Spoon </div> </div>						
<p>ABBREVIATIONS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> 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 </td> <td style="width: 50%; border: none;"> 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 </td> </tr> </table>		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	<p>WELL CONSTRUCTION SYMBOLS</p> <div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;"> Bentonite Grout </div> <div style="display: flex; align-items: center;"> Slope Inclinator (bentonite) </div> <div style="display: flex; align-items: center;"> Slope Inclinator (grout) </div> <div style="display: flex; align-items: center;"> Slough </div> <div style="display: flex; align-items: center;"> Standpipe (bentonite) </div> <div style="display: flex; align-items: center;"> Standpipe (cement/bentonite grout) </div> <div style="display: flex; align-items: center;"> Screen (slough) </div> </div>			
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KGS GROUP		TEST HOLE LOG		HOLE NO. TH22-03	SHEET 1 of 1	
CLIENT		CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT		PROJECT NO.	22-0107-010	
PROJECT		St. Mary's Road Stability Improvement Works		SURFACE ELEV.	226.22 m	
LOCATION		Winnipeg, MB		START DATE	12/13/2022	
DESCRIPTION		Mid bank, ~5.5m from toe of upper bank		UTM (m)	N 5,525,625	
DRILL RIG / HAMMER METHOD(S)		Acker MP5 Track Mounted Drill Rig with Safety Drop Hammer 0.0 m to 6.1 m: 125 mm ϕ SSA			E 635,727	Zone 14
ELEVATION (m)	DEPTH (m) (ft)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	DRILLING/ DIGGING REMARKS	SAMPLE TYPE NUMBER	PL MC LL
						Cu TORVANE (kPa) \blacklozenge
						qu POCKET PEN (kPa) \star
						SPT (N) BLOWS/0.30 m \blacktriangle
						20 40 60 80
			<p>CLAY FILL - Dark brown, damp to moist, stiff, high plasticity, some organics, trace roots/rootlets, occasional fine grained gravel.</p> <p>- Increased organics (black) below 1.1 m.</p> <p style="text-align: right;">224.8</p> <p>CLAY (ALLUVIAL) - Light brown, moist, firm, low plasticity, with silt. 224.7</p> <p>CLAY (LACUSTRINE) - Mottled grey/brown, moist, very stiff, high plasticity, trace silt nodules (<3mm), trace gypsum nodules (<10mm), trace organics.</p> <p>- Stiff below 1.8 m.</p> <p>- Increased silt inclusions (<10mm) below 2.6 m.</p> <p>- Trace fine to coarse grained gravel below 4.9 m.</p> <p>- Grey below 5.3 m.</p> <p style="text-align: right;">220.1</p> <p>Notes: 1. End of test hole at 6.1 m. 2. Test hole backfilled with auger cuttings and bentonite chips. 3. Test hole UTM coordinates are based on handheld GPS (accuracy +/- 3 m).</p>	- Squeezing near 1.5 m during drilling.		
WATER LEVELS				CONTRACTOR Maple Leaf Drilling Ltd.	INSPECTOR I. LI	
				APPROVED C. ROBAK	DATE 12/15/2022	

KGS LOG DEEP -IPAGE U:\PM\22-0107-010\ST. MARY'S RIVER\BANK.GPJ