

**TREK GEOTECHNICAL** Sub-Surface Log Test Hole TH13-02 1 of 2

Client: Dillon Consulting Ltd Project Number: 0022 009 00  
 Project Name: Detailed Design For Falcon River Diversion Channel Bridge Location: 5497118 m N 0341237 m E, Zone 15 U  
 Contractor: Maple Leaf Drilling Ground Elevation: 324.33 m  
 Method: 125 mm Solid Stem Auger, Acker Renegade Track Mount Date Drilled: November 2, 2013

Sample Type: Grab (G) Shelby Tube (T) Split Spoon (SS) Split Barrel (SB) Core (C)  
 Particle Size Legend: Fines Clay Silt Sand Gravel Cobbles Boulders

Elevation (m)	Depth (m)	Soil Symbol	MATERIAL DESCRIPTION	Sample Type	Sample Number	RQD (%)	Bulk Unit Wt (kN/m <sup>3</sup> )	Undrained Shear Strength (kPa)	Test Type
321.9	0.0		SILT - some clay, trace coarse sand, trace organics (woody), trace oxidation - light brown - moist, firm - low to non plastic	G11					
319.5	2.4		- clayey below 2.4 m	G12					
319.5	4.0		- seepage and soft below 4.0 m	G13					
319.5	5.0		CLAY - silty, trace fine to medium sand, trace gravel, trace oxidation, trace organics (rootlets), trace fine grained sand laminations (<1 mm thick) - grey - moist, firm to stiff - intermediate plasticity, laminated	G14					
319.5	6.4		- dark grey, firm and high plasticity below 6.4 m	G15					
319.5	7.5			G16					

Logged By: Martial Lemoine Reviewed By: Ken Skaffield Project Engineer: Ken Skaffield

BORE HOLE NO. 4 (1 OF 2)  
TREK TEST HOLE TH13-02

**TREK GEOTECHNICAL** Sub-Surface Log Test Hole TH13-02 2 of 2

Elevation (m)	Depth (m)	Soil Symbol	MATERIAL DESCRIPTION	Sample Type	Sample Number	RQD (%)	Bulk Unit Wt (kN/m <sup>3</sup> )	Undrained Shear Strength (kPa)	Test Type
315.6	8.5		SILT (Till) - clayey, trace coarse sand, trace gravel (<15 mm diam.), trace cobble or boulders - light grey - wet, soft - low plasticity	G17					
313.7	10.6		AMPHIBOLITE (Bedrock) - grey green, fine grained - strong to very strong (R4-R5) - homogenous	G18					

END OF HOLE AT 13.0 m IN AMPHIBOLITE  
 Notes:  
 1) Water level was 4.3 m below ground surface during drilling.  
 2) Sloughing below 5.8 m.  
 3) Drilling method switched to NQ coring below 10.0 m.

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BORE HOLE NO. 4 (2 OF 2)  
TREK TEST HOLE TH13-02

NOTES:

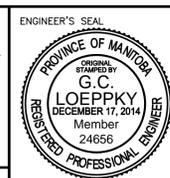
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- FOR THE LOCATION OF BORE HOLES IN PLAN SEE SHEET 01.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



B.M. ELEV.	DESIGNED BY	GCL
	DRAWN BY	JLD
	CHECKED BY	MBL
	APPROVED BY	MBL
	HOR. SCALE	RELEASED FOR CONSTRUCTION
	VERTICAL	DATE
0 ISSUED FOR TENDER	14/12/17	GCL
NO. REVISIONS	DATE	BY
	2014/12/17	



**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

BRIDGE OVER THE FALCON RIVER  
DIVERSION & ASSOCIATED ROADWORKS

CITY DRAWING NUMBER: ----  
SHEET 04 OF 13  
CONSULTANT DRAWING NUMBER: ----

BORE HOLE DETAILS 3 OF 3

CONSULTANT PROJECT NUMBER: 13-8363