Test Hole TH16-22

1 of 1

Sub-Surface Log

Client: Dillon Consulting Ltd.
Project Number: 0022 033 00
Project Name: Fermor over Seine River
Location: UTM N-5524596, E-636977
Contractor: TREK Geotechnical Inc.
Ground Elevation: 232.04 m
Method: 50 mm Hand Auger
Date Drilled: 13 July 2016

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 (%)	SPT (N)	Bulk Unit Wt (kN/m³) 16 17 18 19 20 21	Particle Size (%) 0 20 40 60 80 100 PL MC LL	Undrained Shear Strength (kPa) Test Type △ Torvane △ ◆ Pocket Pen. ◆ ☒ Qu ☒ ○ Field Vane ○ 0 50 100 150 200 250
232.0	0		ORGANIC CLAY (TOPSOIL) - silty, dark grey, moist, firm, high plasticity		G-19					
	1		CLAY (FILL) - silty, trace sand, trace gravel (<15 mm), mottled grey and brown, moist, stiff, high plasticity - trace gravel (<30 mm) below 1.2 m		G-20 G-21					
230.1	2		CLAY - silty, trace sand, brown, moist, stiff, high plasticity - silt seam (200 mm thick) at 2.4 m - trace silt inclusions (<5 mm diam.) below 2.6 m		G-22 G-23 G-24					
228.9	3		- trace precipitates below 2.9 m		G-25					

END OF TEST HOLE AT 3.2 m IN CLAY

Notes:
1. No seepage or sloughing observed.
2. Test hole open to 3.2 m below ground surface upon completion of drilling.
3. Test hole backfilled with auger cuttings.

Logged By: Steven Harms | Reviewed By: Shawn Beaudry | Project Engineer: Shawn Beaudry

TEST HOLE No. TH16-22

Test Hole TH16-23

1 of 1

Sub-Surface Log

Client: Dillon Consulting Ltd.
Project Number: 0022 033 00
Project Name: Fermor over Seine River
Location: UTM N-5524613, E-637012
Contractor: TREK Geotechnical Inc.
Ground Elevation: 229.88 m
Method: 50 mm Hand Auger
Date Drilled: 13 July 2016

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

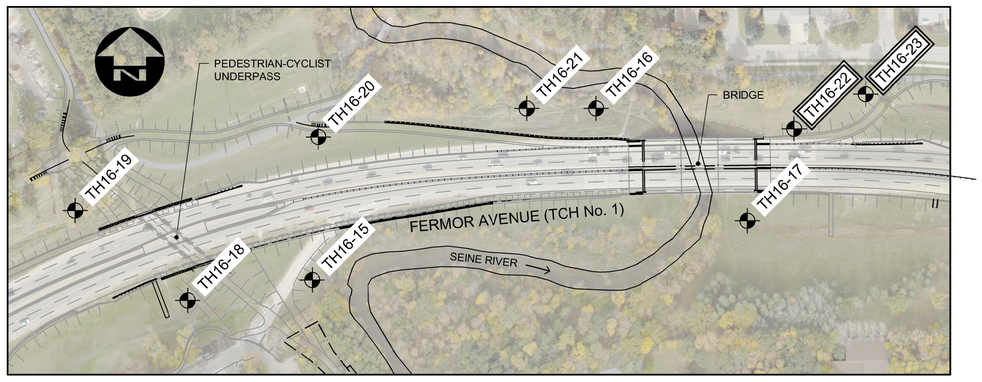
Elevation (m)	Depth (m)	Soil Symbol	MATERIAL DESCRIPTION	Sample Type	Sample Number	RQD (%)	SPT (N)	Bulk Unit Wt (kN/m³) 16 17 18 19 20 21	Particle Size (%) 0 20 40 60 80 100 PL MC LL	Undrained Shear Strength (kPa) Test Type △ Torvane △ ◆ Pocket Pen. ◆ ☒ Qu ☒ ○ Field Vane ○ 0 50 100 150 200 250
229.8	0		ORGANIC CLAY (TOPSOIL) - silty, dark grey, moist, firm, high plasticity		G-13					
	1		CLAY - silty, trace organics, trace silt inclusions (<5 mm diam.), brown, moist, stiff to very stiff, high plasticity - silt seam (150 mm thick) at 0.7 m - trace silt inclusions (<15 mm diam.) below 1.0 m		G-14 G-15 G-16					
	2		- trace precipitates below 1.5 m		G-17					
226.8	3				G-18					

END OF TEST HOLE AT 3.1 m IN CLAY

Notes:
1. No seepage or sloughing observed.
2. Test hole open to 3.1 m below ground surface upon completion of drilling.
3. Test hole backfilled with auger cuttings.

Logged By: Steven Harms | Reviewed By: Shawn Beaudry | Project Engineer: Shawn Beaudry

TEST HOLE No. TH16-23



KEY PLAN

1:1500

NOTES:

1. THE TEST HOLE LOGS PROVIDED FOR THIS PROJECT HAVE BEEN COMPILED FOR DESIGN PURPOSES ONLY. WHILE IT IS BELIEVED TO CORRECTLY REPRODUCE OR SUMMARIZE OBSERVATIONS MADE DURING TESTING, THE INFORMATION IS VALID ONLY FOR THE PRECISE LOCATION SHOWN AND IS NOT TO BE CONSTRUED AS GUARANTEEING THE ACTUAL ABSENCE OR EXTENT OF BOULDERS, HARD OR SOFT FORMATIONS, WATER TABLES, ARTESIAN CONDITIONS AND OTHER VARIABLES. IT IS THE RESPONSIBILITY OF OTHERS USING THIS INFORMATION TO ENSURE THAT IT IS ADEQUATE FOR THEIR PURPOSES OR TO SUPPLEMENT IT WITH ADDITIONAL INFORMATION.
2. ADDITIONAL INFORMATION IS AVAILABLE IN THE GOETECHNICAL REPORT AND IN CASE OF DISCREPANCY, THE GEOTECHNICAL REPORT GOVERNS.
3. AN EXPLANATION OF FIELD AND LABORATORY TESTING PERTAINING TO THE INFORMATION PROVIDED ON THE TEST HOLE LOGS IS INCLUDED IN THE GEOTECHNICAL REPORT.

DISCLAIMER NOTE:

THE GEOTECHNICAL INFORMATION PROVIDED ON THE LOGS ARE IN ACCORDANCE WITH CURRENT ENGINEERING PRINCIPLES AND PRACTICES (STANDARD OF PRACTICE). SOIL CONDITIONS ARE NATURAL DEPOSITS THAT CAN BE HIGHLY VARIABLE ACROSS A SITE AND MAY VARY BETWEEN TEST HOLES.

APEGM Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: 2018/02/09

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	18/02/01	DRA

DILLON CONSULTING

DESIGNED BY		CHECKED BY	SSR
DRAWN BY	NBG	APPROVED BY	MBL
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERTICAL	AS SHOWN		
DATE	2018/02/09	DATE	

ENGINEER'S SEAL

CONSULTANT PROJECT NUMBER 17-5932

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

FERMOR AVENUE BRIDGE OVER SEINE RIVER
BRIDGE REHABILITATION, PEDESTRIAN-CYCLIST UNDERPASS STRUCTURE AND ROADWORKS FROM ST. ANNE'S ROAD TO ARCHIBALD STREET

CITY DRAWING NUMBER B-118-2017-CS-009
SHEET 009 OF 100
CONSULTANT DRAWING NUMBER CS - 009

BORE HOLE 6 OF 6

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SUB-SURFACE LOG LOGS 2016-05-24 FERMOR OVER SEINE LOGS 0_H SGB 0022-033-00.GPJ TREK GEOTECHNICAL.GDT 11/8/16