

CLIENT CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT
PROJECT FORT ROUGE PARK OUTFALL PIPE REPLACEMENT
SITE FORT ROUGE PARK - UPPER BANK AREA
LOCATION Ref. Dwg. No. 07-107-08 01
DRILLING METHOD 125 mm ø Solid Stem Auger, ACKER Track Mounted Rig

JOB NO. 07-107-08
GROUND ELEV. 227.06 m
TOP OF PVC ELEV.
WATER ELEV.
DATE DRILLED 14-Jun-07
UTM (m) N 5,527,152
 E 633,465

ELEVATION (m)	DEPTH (m) (ft)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	PIEZ. LOG	DEPTH (m)	SAMPLE TYPE NUMBER	RECOVERY %	SPT (N) blows/0.15 m ▲ DYNAMIC CONE (N) blows/ft △	Cu POCKET PEN (kPa) ★ Cu TORVANE (kPa) ◆	
									PL	MC
0	0		SILTY CLAY (CH) - Brown, damp, firm, high plasticity, oxidized, trace organics, trace to some sand, layered.							
1	1		- Increased layering of 5 mm below 1.22 m.			S1				
2	2		- Increased moisture content below 2.00 m.			S2				
3	3		- With silt lenses, trace gravel below 3.05 m.			S3				
4	4		- Grey, trace silt lenses below 3.96 m.			S4				
5	5					S5				
6	6					S6				
7	7		- Blocky structure below 6.71 m. Grain Size: Gravel (8.9%), Sand (12.6%), Silt (16.8%), Clay (61.7%) at 6.71 m.		6.7	ST1				
8	8		- Increased silt content below 7.62 m.			S7				
9	9					ST2				
10	10		SILTY CLAY TILL (CI) - Brown, moist, moisture content varied with depth, soft to firm, with gravel, with sand.			S8				
11	11		SILT TILL (ML) - Tan, soft to firm, trace to some fine grained gravel, trace to some sand, trace clay.			S9				
12	12					S10				
13	13		AUGER REFUSAL at 10.36 m.		10.4					
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45	45									

Notes:
 1. Groundwater in test hole upon completion of drilling measured at 6.25 m below ground surface.
 2. Standpipe installation:
 Depth = 10.36 m
 Stickup = 1.01 m
 3. SI installation
 Depth = 10.33 m
 Stickup = 0.92 m
 4. Pneumatic Installation
 Serial No. 631241
 Depth = 6.71 m.

SAMPLE TYPE Auger Grab Split Spoon

CONTRACTOR **Paddock Drilling Ltd.** INSPECTOR **W. ABDULRAZAQ**

APPROVED *awl* DATE 19/11/07

SPT & TORVANE 2 P:\PROJECTS\2007\07-01-07-08\GEOLOGS\07-107-08\LOGS.GPJ

CLIENT CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT
PROJECT FORT ROUGE PARK OUTFALL PIPE REPLACEMENT
SITE FORT ROUGE PARK - LOWER BANK AREA
LOCATION Ref. Dwg. No. 07-107-08 01
DRILLING METHOD 125 mm ø Solid Stem Auger, ACKER Track Mounted Rig

JOB NO. 07-107-08
GROUND ELEV. 225.30 m
TOP OF PVC ELEV.
WATER ELEV.
DATE DRILLED 15-Jun-07
UTM (m) N 5,527,177
 E 633,466

ELEVATION (m)	DEPTH (m) (ft)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	PIEZ. LOG	DEPTH (m)	SAMPLE TYPE NUMBER	RECOVERY %	SPT (N) blows/0.15 m ▲ DYNAMIC CONE (N) blows/ft △	Cu POCKET PEN (kPa) ★ Cu TORVANE (kPa) ◆			
									20	40	60	80
1	5		SILTY CLAY (ALLUVIAL) (CH) - Brown, moist, firm, intermediate to high plasticity, layered, oxidized, trace organics.			S1						
2	10		- Nuggety, some fine grained sand, trace rootlets below 1.52 m. Grain Size: Gravel (0.0%), Sand (15.1%), Silt (38.4%), Clay (46.5%) at 1.52 m.			S2						
3	15		- Mottled brown and grey, fine grained gravel, and trace wood pieces below 3.05 m.			S3						
4	20		SILTY CLAY (LACUSTRINE) (CH) - Grey, moist, firm, high plasticity, trace organics, trace gravel.			S4						
5	25		- Some coarse grained gravel below 5.03 m. - Trace to some sand, trace to some gravel below 5.33 m.		5.2	S5						
6	30		SILT TILL (ML) - Light brown, loose to compact (easy drilling), with coarse grained gravel, some clay.			S6						
7	35		- Dry and dense below 8.30 m.			S7						
8	40		AUGER REFUSAL AT 8.53 m		8.2	S8						
9			Notes: 1. Groundwater in test hole upon completion of drill measured at 5.79 m below ground surface. 2. Standpipe installation Depth = 9.14 m Stickup = 1.04 m 3. SI installation Depth = 8.53 m Stickup = 0.95 m 4. Pneumatic installation Serial No. 031240 Depth = 5.18 m. 5. Test hole squeezed at 2.13 m below ground surface.		9.1	S9						
10						S10						
11						S11						
12						S12						
						S14						

SAMPLE TYPE Auger Grab Split Spoon

CONTRACTOR
Paddock Drilling Ltd.

INSPECTOR
W. ABDULRAZAQ

APPROVED *aid* DATE 20/11/07