



BORING LOG

Bolton
IM 089-2(45)
I-89

Boring No.: **B-104**
Page No.: **1 of 2**
Pin No.: **13a090**
Checked By: **MLM**

Boring Crew: HOOK, JUDKINS, NIETO
Date Started: 10/07/15 Date Finished: 10/20/15
VTSPG NAD83: N 685775.19 ft E 1531404.83 ft
Station: 129+65 Offset: -101.70
Ground Elevation: 346.0 ft

Type: _____
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 55 TRACK C = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
10/12/15	35.3	W.T. before drilling
10/13/15	35.8	W.T. before drilling
10/20/15	36.4	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Drill Rate minutes/ft	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-b, GrSa, brn, Moist, Rec. = 0.6 ft, Lab Note: Grass and Grass Roots were within sample, removed before testing.			WH-2-3-4 (5)	5.0	36.3	50.2	13.5
		A-4, SaSi, Lt/brn-brn, Moist, Rec. = 1.8 ft, Lab Note: Grass and Grass Roots were within sample, removed before testing.			3-4-6-5 (10)	15.5	5.3	38.7	56.0
		A-4, SaSi, Lt/brn-gry, Moist, Rec. = 1.5 ft			3-6-9-14 (15)	14.6	8.0	32.3	59.7
		A-4, SaSi, Lt/brn, Moist, Rec. = 1.7 ft			15-11-11-11 (22)	10.7	10.1	41.0	48.9
10		A-4, SaSi, Lt/brn, Moist, Rec. = 2.0 ft Field Note: Cleaned out with NXDC			8-8-7-9 (15)	12.3	6.9	34.7	58.4
		A-4, SaSi, brn, MTW, Rec. = 0.5 ft			8-8-8-9 (16)	18.4	10.0	32.1	57.9
15		A-4, GrSaSi, brn, MTW, Rec. = 1.4 ft			10-11-10-28 (21)	15.0	26.6	36.5	36.9
		Field Note: Cleaned out with NXDC			25-25-24 (45)	12.5	33.5	37.5	29.0
		A-2-4, SiGrSa, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample.			8-4-2-2 (6)	18.8	3.9	35.9	60.2
		Field Note: Cleaned out with NXDC			2-8-12-12 (20)				
20		Field Note: No Recovery Field Note: Cleaned out with NXDC			12-14-11-16 (25)	15.2	12.1	37.9	50.0
		A-4, SaSi, brn, Moist, Rec. = 1.1 ft, Lab Note: Layers of black silt were apparent in sample.							
25		Field Note: Cleaned out with NXDC			12-9-7-6 (16)	19.4	15.2	37.7	47.1
		A-4, SaSi, gry, Moist, Rec. = 0.5 ft							
30		A-4, SaSi, Dk/brn, Moist, Rec. = 0.5 ft, Lab Note: Small sticks and wood fibers were within sample.							
		Field Note: Cleaned out with NXDC			2-2-2-1 (4)	36.6	0.2	11.5	88.3
35		A-4, Si, gry, Moist, Rec. = 1.0 ft							
		Field Note: Cleaned out with NXDC			5-9-9-13 (18)	18.2	20.7	60.9	18.4
40		A-2-4, GrSa, orange-brn, Moist, Rec. = 1.2 ft, Lab Note: Sample was rust colored.							
		Field Note: Cleaned out with NXDC			9-14-36-50 (50)	14.4	31.8	48.4	19.8
45		Field Note: Cleaned out with NXDC							
		A-1-b, GrSa, orange-brn, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample. Rust colored layers were apparent in sample.			7-5-7-7 (12)	10.3	47.2	37.7	15.1

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.



BORING LOG

Bolton
IM 089-2(45)
I-89

Boring No.: **B-104**
Page No.: **2 of 2**
Pin No.: **13a090**
Checked By: **MLM**

Boring Crew: HOOK, JUDKINS, NIETO
Date Started: 10/07/15 Date Finished: 10/20/15
VTSPG NAD83: N 685775.19 ft E 1531404.83 ft
Station: 129+65 Offset: -101.70
Ground Elevation: 346.0 ft

Type: _____
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 55 TRACK C = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
10/12/15	35.3	W.T. before drilling
10/13/15	35.8	W.T. before drilling
10/20/15	36.4	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Drill Rate minutes/ft	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
55		Field Note: Cleaned out with NXDC Field Note: No Recovery			21-21-16-15 (37)				
		Field Note: Cleaned out with NXDC							
60		A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft, Lab Note: Broken rock was within sample.			23-15-16-27 (31)	8.9	50.8	31.4	17.8
		Field Note: Cleaned out with NXDC Field Note: No Recovery			17-28-28-23 (56)				
65		Field Note: Cleaned out with NXDC							
		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.5 ft			17-16-13-11 (29)	9.0	49.8	40.4	9.8
70		Field Note: No Recovery Field Note: Cleaned out with NXDC							
		A-1-a, SaGr, gry, Moist, Rec. = 0.3 ft, Lab Note: Broken rock was within sample.			R@4" (R)	8.9	63.6	25.7	10.7
75		Field Note: Cleaned out with NXDC							
		A-1-b, SaGr, gry, Moist, Rec. = 0.4 ft			15-15-15-16 (30)	9.3	44.2	43.0	12.8
80		80.0 ft - 85.0 ft, Light gray, Quartz-muscovite-biotite-albite SCHIST, Hard, Very slightly weathered, Fair rock, BX, RMR=52	1	6					Top of Bedrock @ 80.0 ft
			7						
			6						
			6						
85		85.0 ft - 86.0 ft, Light gray, Quartz-muscovite-biotite SCHIST, Hard, Unweathered, Fair rock, BX, RMR=41	2	5					
		86.0 ft - 90.0 ft, Dark gray, Biotite-quartz SCHIST, with few pyrite porphyroblasts. Hard, Very slightly weathered, Fair rock, BX, RMR=41		4					
			3						
			4						
90		Hole stopped @ 90.0 ft							
			3						
95		Remarks: Hole Collapsed at 24.1 feet.							
		1.) Stemmed down to 3 inch casing at 67.0 feet. 2.) Started mud drilling at 67.0 feet. 3.) Sample was attempted at 80 feet. No penetration and No recovery.							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.