



STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 MATERIALS & RESEARCH SECTION
 SUBSURFACE INFORMATION

BORING LOG

SOUTH HERO
STP HES 028-1(22)
US-2 & VT-314 ROADWAY

Boring No.: **B-154**
 Page No.: **1 of 1**
 Pin No.: **12B016**
 Checked By: **MLM**

Boring Crew: **DAIGNEAULT, HALL, JUDKINS**
 Date Started: **7/11/13** Date Finished: **7/11/13**
 VTSPG NAD83: **N 789971.01 ft E 1426448.80 ft**
 Station: **61+49** Offset: **-41.00**
 Ground Elevation: **123.43 ft**

Casing **H.S.A.** Sampler **SS**
 I.D.: **3.25 in** **1.5 in**
 Hammer Wt: **N.A.** **140 lb.**
 Hammer Fall: **N.A.** **30 in.**
 Hammer/Rod Type: **Auto/AWJ**
 Rig: **CME 45C SKID** **C_i = 1.33**

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-1-b, SaGr, brn, Moist, Rec. = 0.6 ft	5-17-25-14 (42)	8.9	49.7	33.5	16.8		
		Visual Description:, Broken Rock with Sand, brn, Moist, Rec. = 0.6 ft		3.9					
5		A-6, SiCl, brn, Moist, Rec. = 0.7 ft	2-5-7-7 (12)	21.8		18.9	81.1	38	17
		A-7-6, Cl, brn, Moist, Rec. = 0.2 ft	3-4-6-9 (10)	25.9		4.0	96.0	43	22
		A-7-6, Cl, brn, Moist, Rec. = 1.7 ft	3-7-9-8 (16)	25.7		4.7	95.3	43	22
		Visual Description:, Clay, brn, Moist, Rec. = 1.8 ft, Material similar as 6-8 ft.	2-5-6-8 (11)	29.4					
10		A-7-6, Cl, brn, Moist, Rec. = 1.8 ft	1-2-4-7 (6)	36.7	0.3	9.0	90.7	43	23
15		A-7-6, Cl, brn, Moist, Rec. = 2.0 ft	1-2-1-3 (3)	32.8	3.9	13.1	83.0	47	25
20		A-4, SaClSi, brn, Moist, Rec. = 1.4 ft	1-1-2-3 (3)	14.1	11.6	31.3	57.1	20	8
25		Field Note:, Auger refusal at 24.0 ft., Started BXMDC core							
		Field Note:, Bit broke off. Could not continue.							
		Hole stopped @ 24.4 ft							
		Remarks: 1. Auger refusal at 24.0 ft. 2. Attempted to core with BXMDC. 3. Bit broke completely off of the core barrel and could not continue.							

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 2 SOUTH HERO STP HES 028-1(22).GPJ VERMONT AOT.GDT 8/12/13