



STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Williston-Essex
STP SGNL(46)
VT 2A

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 15t017

Checked By: ZMH

Boring Crew: HOOK, JUDKINS, GARROW

Date Started: 3/29/16 Date Finished: 3/31/16

VTSPG NAD83: N 732020.02 ft E 1486709.90 ft

Station: 199+54.90 Offset: -46.00

Ground Elevation: 495.3 ft

Type: _____
I.D.: _____
Hammer Wt: _____
Hammer Fall: _____
Hammer/Rod Type: _____
Rig: CME 55 TRACK CE = 1.41

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 55 TRACK CE = 1.41

Groundwater Observations

Date	Depth (ft)	Notes
03/31/16	15.4	W.T. during drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	
5		A-1-a, SaGr, gry-brn, Moist, Rec. = 1.2 ft, Lab note: Asphalt pavement, broken rock, and plant material was within sample.				4-8-10-25 (18)	4.8	66.8	24.9	8.3			
		A-1-a, SaGr, gry, Moist, Rec. = 1.5 ft, Lab note: Asphalt pavement and broken rock was within sample.				45-25-20-R@3.5" (45)	2.8	56.4	32.3	11.3			
		A-1-a, SaGr, gry, Moist, Rec. = 0.6 ft, Lab note: Broken rock was within sample				30-17-27-28 (44)	4.3	69.1	20.9	10.0			
		A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft, Lab note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				R@6.0" (R)	9.4	61.0	25.9	13.1			
10		A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft, Lab note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				14-10-8-7 (18)	7.6	73.2	22.2	4.6			
		A-1-a, Gr, gry, Moist, Rec. = 0.9 ft, Lab note: Broken rock was within sample				8-10-17-17 (27)	7.1	79.2	17.1	3.7			
15		Field Note: NXDC, Cleaned out casing											
		A-6, Cl, brn-gry, Moist, Rec. = 0.9 ft				14-6-6-10 (12)	27.6	4.7	9.8	85.5	39	15	
20		A-1-b, SiSaGr, brn, Moist, Rec. = 0.2 ft				R@3.5" (R)	11.2	34.7	45.0	20.3			
		20.3 ft - 25.3 ft, Light gray/green, Phyllite, with quartz veins. Penetrative rust staining along vertical joint at 21.1 to 21.3. Surface rust staining and slickensides present on remaining joints. Moderately hard, Slightly weathered, Poor rock, NX, RMR=28	1 (40-45)	88 (9)	5								
					5								
					6								
25													
30													
		25.3 ft - 30.3 ft, Light gray/green, Phyllite, with quartz veins. Surface rust staining on joints.. Moderately hard, Very slightly weathered, Fair rock, NX, RMR=46	2 (40-45)	86 (63)	5								

Hole stopped @ 30.3 ft

Remarks:

Hole collapsed at 15.9 feet.

1.) Refusal with H.S.A. at 6.8 feet.

2.) Continued hole with 4.0 inch washbore drilling from 6.8 feet.

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 <<SUB>><<SUB>> 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.

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