



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

BORING LOG

**SANDGATE  
BO 1441(30)  
TH-9 BR-27**

Boring No.: **B-102**  
Page No.: 1 of 1  
Pin No.: 13J086  
Checked By: CEE

Boring Crew: JUDKINS, HOOK  
Date Started: 5/20/15 Date Finished: 5/20/15  
VTSPG NAD83: N 245399.09 ft E 1442073.85 ft  
Station: 11+34.5 Offset: 12.00  
Ground Elevation: 888.8 ft

Casing Type: WB Sampler: SS  
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<sub>s</sub> = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
05/20/15	7.5	After 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 %
0-5		A-1-a, SaGr, Dk/brn, Moist, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample.				3-2-2-2 (4)	13.3	59.9	28.8	11.3
5-10		Field Note: NXDC, Cleaned out casing A-1-a, SaGr, brn-gry, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample.				17-12-13-18 (25)	10.4	59.4	26.4	14.2
10-15		Field Note: NXDC, Cleaned out casing A-1-a, SaGr, Lt/brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample. Field Note: NXDC, Dense material. Possible Boulders				13-18-16-16 (34)	10.4	62.0	25.8	12.2
15-20		A-1-b, SiSaGr, Lt/brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.				14-10-10-9 (20)	11.3	51.1	27.0	21.9
20-25		Field Note: NXDC, Cleaned out casing Visual Description: Severely Weathered Rock, Lt/brn, Moist, Rec. = 0.3 ft				R@3.5" (R)	11.2			
25-30		Field Note: NXDC, Cleaned out casing Visual Description: Severely Weathered Rock, Lt/brn, Moist, Rec. = 0.1 ft				R@1.0" (R)	10.8			
30-32.1		27.1 ft - 28.8 ft, Tan, Clay-coated PHYLLITE, Soft, Moderately weathered, NXMDC, Rust and purple staining on joint surfaces throughout.	1 (20)	94 (0)	3					
32.1-35		28.8 ft - 29.1 ft, Tan, Disintergrated PHYLLITE, Very soft, Severely weathered 29.1 ft - 32.1 ft, Light green & gray, PHYLLITE, Medium hard, Slightly weathered, Very poor rock, RMR = 19 32.1 ft - 37.1 ft, Light green & gray, PHYLLITE, Medium hard, Slightly weathered, Poor rock, NXMDC, Rust staining on joints. RMR = 32	2 (20)	100 (34)	3, 3, 3, 4, 4, 5					
37.1-40		Hole stopped @ 37.1 ft								
40-45		Remarks: Hole collapsed at 14.7 ft.								

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<sub>s</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.

BORING LOG 2 SANDGATE BO 1441(30)\_GPU VERMONT AOT.GDT 6/23/15