



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-103**

Page No.: 1 of 1

Pin No.: 13J086

Checked By: CEE

Boring Crew: HOOK, JUDKINS, HULBERT
Date Started: 5/27/15 Date Finished: 5/28/15
VTSPG NAD83: N 245432.76 ft E 1442054.54 ft
Station: 11+71 Offset: 12.50
Ground Elevation: 890.5 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 = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
05/28/15	7.1	Before drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Groundwater Observations				
						Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-a, SaGr, brn, Moist, Rec. = 1.2 ft				3-3-6-6 (9)	8.2	62.2	26.7	11.1
		Field Note:, NXDC, Cleaned out casing								
		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.				6-13-7-11 (20)	10.7	69.1	23.2	7.7
		Field Note:, NXDC, Cleaned out casing								
10		A-1-a, SaGr, brn, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample.				29-17-9-8 (26)	10.1	61.3	27.7	11.0
		Field Note:, NXDC, Cleaned out casing								
		A-1-a, SaGr, brn, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample.				15-18-18-17 (36)	10.6	56.0	31.0	13.0
20		A-1-a, SaGr, brn, Moist, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample.				13-12-10-10 (22)	11.8	59.7	28.8	11.5
		Field Note:, NXDC, Cleaned out casing								
		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.				16-15-12-8 (27)	12.6	47.3	37.4	15.3
30		A-1-a, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.				11-9-12-15 (21)	9.9	64.4	24.9	10.7
		Field Note:, NXDC, Cleaned out casing								
		Visual Description:, Broken Rock & some Weathered Rock, gry, Moist, Rec. = 0.2 ft				R@2.5" (R)	8.3			
40		Field Note:, NXDC, Cleaned out casing. Very hard drilling 37.4 ft - 42.4 ft, Light green & gray, PHYLLITE, with rare quartz veins. Medium hard, Slightly weathered, Poor rock, NXMDC, Rust and purple staining on joint surfaces. Recrystallized calcite on vertical joint at 41.2'-41.5', RMR = 35	1 (20)	100 (26)	3 3 3 3	Top of Bedrock @ 37.4 ft				
		42.4 ft - 47.4 ft, Light green & gray, PHYLLITE, Medium hard, Slightly weathered, Poor rock, NXMDC, Rust and brown staining on joint surfaces. RMR = 36	2 (20)	100 (34)	2 2 2 2					
50		Hole stopped @ 47.4 ft								
		Remarks: Hole collapsed at 5.6 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 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).GPJ VERMONT AOT.GDT 6/23/15