



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

BORING LOG

Londonderry
BF 016-1(33)
VT-11 Bridge 24

Boring No.: **B-102**
Page No.: **1 of 1**
Pin No.: **13b262**
Checked By: **MLM**

Boring Crew: NIETO, GARROW
Date Started: 11/13/15 Date Finished: 11/16/15
VTSPG NAD83: N 268101.48 ft E 1548570.66 ft
Station: 14+65 Offset: 13.00
Ground Elevation: 1337.6 ft

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 45C SKID C. = UNKNOWN

Groundwater Observations		
Date	Depth (ft)	Notes
11/16/15	15.0	

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 %
		Asphalt Pavement, 0.0 ft - 1.0 ft								
		A-1-a, Gr, brn, Moist, Rec. = 0.3 ft				10-17-13-10 (30)	9.2	76.7	17.4	5.9
		A-1-b, SiSaGr, brn, Moist, Rec. = 1.4 ft Field Note:, Cleaned out				10-12-13-9 (25)	13.2	40.4	34.9	24.7
5		A-1-a, SaGr, brn, Moist, Rec. = 0.2 ft, Field Note: Stone in end of sampler.				25-20-13-13 (33)	8.4	72.4	22.8	4.8
		A-2-4, GrSiSa, brn, Moist, Rec. = 0.8 ft Field Note:, Cleaned out				7-5-4-4 (9)	15.4	26.1	39.5	34.4
		A-1-b, SaGr, brn, Moist, Rec. = 0.4 ft				5-R@3.5" (R)	9.5	53.7	30.9	15.4
10		Field Note:, Cleaned out, Cobbles				9-R@2.5" (R)	10.8	66.7	22.0	11.3
		A-1-a, SaGr, brn, Moist, Rec. = 0.2 ft, Lab Note: Broken rock was within sample. Field Note:, Cleaned out, Cobbles				16-6-2-3 (8)	16.7	84.5	12.5	3.0
15		A-1-a, Gr, gry, Moist, Rec. = 0.4 ft, Lab Note: A lot of broken rock was within sample.				4-4-6-8 (10)	18.8	28.7	36.4	34.9
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.9 ft, Lab Note: Sample tested non-plastic.				13-13-15-20 (28)	19.1	19.4	40.2	40.4
		A-4, SaSi, gry, Moist, Rec. = 1.1 ft				25-R@5" (R)	13.4	27.4	30.7	41.9
20		A-4, GrSaSi, gry, Moist, Rec. = 0.8 ft				R@6" (R)				
		Field Note:, No Recovery								
		Field Note:, Cleaned out								
25		23.5 ft - 25.0 ft, Light gray, Gneissic biotite-muscovite-quartz SCHIST, Faint orange and brown staining on joints. Hard, Very slightly weathered, Fair rock, NX, RMR=49	1 (20)	30 (60)	3					
		25.0 ft - 27.0 ft, Light gray, Gneissic biotite-muscovite-quartz SCHIST, Orange and brown staining along joints. Highly fractured. Moderately hard, Slightly weathered, Poor rock, NX, RMR=21	2 (10)	36 (0)	6					
		27.0 ft - 32.0 ft, Light gray, Gneissic biotite-muscovite-chlorite-quartz SCHIST, Light orange and brown staining on joints. Hard, Very slightly weathered, Poor rock, NX, RMR=36	3 (15-20)	76 (22)	8					
30					8					
					6					
					2					
					6					
		32.0 ft - 34.0 ft, Light gray, Gneissic biotite-muscovite-chlorite-quartz SCHIST, with rare pyrite. Faint brown staining on joints. Quartz vein at 33.6-33.8 feet. Hard, Very slightly weathered, Good rock, NX, RMR=61	4 (15-20)	36 (78)	6					
35		Hole stopped @ 34.0 ft			12					
		Remarks: Hole collapsed at 18.4 feet. 1.) Attempted sample at 23.0 feet. No penetration. 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.

BORING LOG Z LONDONDERRY BF016-1(33).GPJ VERMONT AUT.GDT 1/21/15