



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

BORING LOG

Londonderry-Chester
STP PS19(10)
VT-11

Boring No.: **B-176b**

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Pin No.: 16v121

Checked By: SPM

Boring Crew: Emerson, Judkins, Mazzei

Date Started: 7/20/17 Date Finished: 7/20/17

VTSPG NAD83: N 279704.40 ft E 1609751.26 ft

Station: mm 4.02 Offset: -10.00

Ground Elevation: _____

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 CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
07/20/17	7.3	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 %
0.0 - 0.94		Asphalt Pavement, 0.0 ft - 0.94 ft								
2.5		A-1-b, SaGr, brn, Moist, Rec. = 0.6 ft				9-11-8-16 (19)	7.7	52.1	37.9	10.0
		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft				R@5" (R)	16.3	31.0	59.9	9.1
		Field Note:, NXDC, Cleaned out casing								
5.0		A-1-b, SaGr, Lt/brn, Moist, Rec. = 1.2 ft				9-18-25-R@5" (43)	8.2	52.5	34.7	12.8
		Field Note:, NXDC, Cleaned out casing, cobbles								
7.5		7.5 ft - 9.5 ft, Light gray, Quartz-muscovite-biotite-plagioclase GNEISS, with zones of quartz +/- plagioclase are banded with zones of muscovite and biotite. Joints are rough with a light orange oxidation. Very hard, Unweathered, Good rock, NX, RMR=61	1 (90)	90 (89)	5					
		Field Note:, NXDC, Cleaned out casing								
12.5		11.0 ft - 16.0 ft, Light gray, Biotite-quartz-muscovite-plagioclase GNEISS, with zones of quartz +/- plagioclase are banded with zones of muscovite and biotite. Pegmatic zones locally increase quartz-plagioclase content and grain size. Joints are rough with a light orange oxidation. Very hard, Unweathered, Fair rock, NX, RMR=57	2 (70)	100 (58)	7					
					6					
					4					
					6					
					4					
17.5		16.0 ft - 21.0 ft, Light gray, Quartz-muscovite-biotite-plagioclase GNEISS, with zones of quartz +/- plagioclase are banded with zones of muscovite and biotite. Joints are rough with a light orange oxidation. Very hard, Unweathered, Fair rock, NX, RMR=57	3 (70)	84 (71)	4					
					4					
					4					
					10					
					6					
22.5		Hole stopped @ 21.0 ft								
		Remarks: Hole collapsed at 9.9 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.

BORING LOG 2 LONDONDERRY-CHESTER STP PS19(10).GPJ VERMONT AOT.GDI 8/24/17