



STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 MATERIALS & RESEARCH SECTION
 SUBSURFACE INFORMATION

BORING LOG

Stowe STP 0235(17)
 750-09.9
 Route 108 Slide 0235(17)

Boring No.: B-5 (OW)
 Page No.: 1 of 1
 Pin No.: 12C388
 Checked By: JFW

Boring Crew: J. Leonhardt (QCQA), A. Baribault (GeoDesign)
 Date Started: 10/09/14 Date Finished: 10/09/14
 VTSPG NAD83: N 730194.00 ft E 1572437.00 ft
 Station: 102+1 Offset: 86.00
 Ground Elevation: 1022 ft

Type: FJ SS
 I.D.: 4 in 1.38 in
 Hammer Wt: 140 lb. 140 lb.
 Hammer Fall: 30 in. 30 in.
 Hammer/Rod Type: Auto
 Rig: CME 550X ATV CE = 1.5

Groundwater Observations (3)

Date	Depth (ft)	Notes
10/09/14	4.7	In well (1 Hr.)
10/13/14	5.1	Pre-Develop
10/13/14	19.5	Post-Develop

Depth (ft)	Strata(1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)(2)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		S1 (3'-5'): Very dense, tan (with gray and orange areas) fine to coarse SAND, some fine to coarse Gravel (friable, possible highly weathered gravel/cobble), little Silt, very moist. Rec. = 1.0 ft (AASHTO M145 Classification: A-1-b.)		12-59-20-15 (79)	13.8	40.1	45.6	14.3	NP	NP
10		S2 (8'-10'): Medium dense, light brown/gray/orange fine to coarse SAND, some (+) fine to coarse Gravel, some Silt, very moist. Rec. = 1.3 ft (AASHTO M145 Classification: A-1-b.)		11-12-13-14 (25)	12.1	41.4	37.3	21.3	NP	NP
15		S3 (13'-15'): Medium dense, light brown (with occasional orange mottling) SILT and fine to medium SAND, trace fine Gravel, wet. Rec. = 1.2 ft (AASHTO M145 Classification: A-4.)		6-6-5-8 (11)	22.8	8.7	36.1	55.2	NP	NP
20		S4 (18'-20'): Very dense, gray fine to coarse GRAVEL, some fine to coarse Sand, some Silt, moist. Rec. = 1.0 ft (AASHTO M145 Classification: A-2-4.)		9-29-23-24 (52)	11.1	49.9	21.9	28.2	NP	NP
25		S5 (23'-25'): Very dense, gray SILT, some (+) fine to coarse Gravel (some fractured), some (+) fine to coarse Sand, moist. Rec. = 1.1 ft (AASHTO M145 Classification: A-4.)		14-21-37-51 (58)	13.9	37.9	24.6	37.5	NP	NP
Hole stopped @ 25.0 ft										
Remarks: 1) Northing, easting, and ground surface elevation shown based on taped measurements made in the field by GeoDesign personnel and an electronic site plan titled, "d12c388_nu1.dgn" provided by VTTrans on December 10, 2012. 2) Moisture in samples may be affected by use of water as a drilling fluid. 3) Boring advanced using 4-inch diameter flush joint casing and wash-and drive method. Casing advanced using auto hammer to 14 with open hole below. 4) Upon completion, 2-inch ID PVC observation well installed with 2.5 feet stickup and protective steel riser. Well screen 13 to 23 feet deep. 5) Well developed on 10/13/14, removing approximately 7 gallons, then another 2.5 after approximately 30 minutes. 6) Hammer energy is assumed.										

Notes:
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GEODESIGN BORING LOG 750-09.9 STOWE 108 VTRANS FORMAT.GPJ VERMONT AOT.GDT 1/9/15