



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

BORING LOG

Windsburg MES 021-1(10)  
(GeDesign #750-08.10)  
Windsburg, VT

Boring No.: 02  
Page No.: 1 of 2  
File No.: 046304  
Checked By: JTW

Boring Crew: C. Aldrich (Platform), A. Barbooff (GeDesign)  
Date Started: 5/25/15 Date Finished: 5/25/15  
VDSPG W#083: N 671001.00 H E 1470128.00 H  
Station: 267+08 Offset: 45' LT  
Ground Elevation: 398 H

Casing Type: AUGER  
I.D.: 4.25 in 1.28 in  
Sampler Type: SS  
I.D.: 1.00 in 3.0 in  
Number/Type: N/A Auto/MTJ  
Rig: Geoprobe 76220H CE = 1.35

Groundwater Observations (3)		
Date	Depth (ft)	Notes
05/26/15	6.0	Mat Sample

Depth (ft)	Interval (ft)	CLASSIFICATION OF MATERIALS (Description)	Moisture Content (%)	Liquid Limit (%)	Plasticity Index (%)	Liquid Limit (%)	Plasticity Index (%)	Liquid Limit (%)	Plasticity Index (%)	
										CE
0.0	0.0 - 2.0	S1 (0' - 2'): S1A - Top 5': Topsoil. S1B - Bottom 2' - Soft, gray and tan mottled CLAY & SILT, some fine to medium Sand, trace (-) fine Gravel, trace Roots (upper 6'), moist. (Reworked Clay FR). Res. = 1.5 H (ANSI/D 1145 Classification: A-6.)	1-1-2-2 (5)	28.0	2.0	20.3	77.7	30	10	
2.5	2.0 - 4.0	S2 (2' - 4'): SHL, gray and tan CLAY & SILT, little fine to coarse Sand, little fine to coarse Gravel, moist. Res. = 2.0 H (ANSI/D 1145 Classification: A-6.)	4-4-8-5 (10)	20.0	13.0	0.0	70.0	30	15	
5.0	4.0 - 6.0	S3 (4' - 6'): Medium, brown and tan Silty CLAY, trace fine to medium Sand, moist to very moist. Res. = 2.0 H (ANSI/D 1145 Classification: A-7-8.)	5-3-3-3 (8)	31.7	0.2	5.3	94.5	42	21	
7.5	6.0 - 8.0	S4 (6' - 8'): Medium; S4A - (Upper 10'): Brown and gray CLAY & SILT, trace fine to medium Sand, very moist to sat. Res. = 2.0 H (ANSI/D 1145 Classification: A-6.)	10H-2-2-1 (4)	37.1	0.1	5.2	94.7	30	16	
7.5	8.0 - 10.0	S4B - Lower 6': Brown and gray SILT, some (c) fine to coarse Gravel, some fine to coarse Sand, trace Clay & SILT, moist. (ANSI/D 1145 Classification: A-4.)	2-4-10-0 (16)	13.2	30.3	17.2	43.5	NP	NP	
10.0	10.0 - 12.0	S5 (8' - 10'): Medium dense, brown (top 2' - 4') to gray fine to coarse Silt, some SILT, some fine to coarse Gravel, moist. Res. = 1.5 H (ANSI/D 1145 Classification: A-2-4.)	2-4-10-0 (16)	8.3	30.0	34.0	30.0	NP	NP	
10.0	12.0 - 17.0	S6 (10' - 17'): Medium dense, gray fine to coarse Silt, some SILT, some fine to coarse Gravel, moist. Res. = 1.5 H (ANSI/D 1145 Classification: A-2-4.)	4-8-7-7 (15)	7.0	37.2	32.0	30.2	NP	NP	
15.0	17.0 - 17.0	S7 (15' - 17'): Very dense, Gray fine to coarse Silt & SILT, some fine to coarse Gravel, moist. Res. = 1.4 H (ANSI/D 1145 Classification: A-4.)	0-10-17-0 (8)	7.5	34.2	28.0	37.2	NP	NP	
Hole stopped @ 18.0 H Hollow stem auger refusal.										

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



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

BORING LOG

Windsburg MES 021-1(10)  
(GeDesign #750-08.10)  
Windsburg, VT

Boring No.: 02  
Page No.: 2 of 2  
File No.: 046304  
Checked By: JTW

Boring Crew: C. Aldrich (Platform), A. Barbooff (GeDesign)  
Date Started: 5/25/15 Date Finished: 5/25/15  
VDSPG W#083: N 671001.00 H E 1470128.00 H  
Station: 267+08 Offset: 45' LT  
Ground Elevation: 398 H

Casing Type: AUGER  
I.D.: 4.25 in 1.28 in  
Sampler Type: SS  
I.D.: 1.00 in 3.0 in  
Number/Type: N/A Auto/MTJ  
Rig: Geoprobe 76220H CE = 1.35

Groundwater Observations (3)		
Date	Depth (ft)	Notes
05/26/15	6.0	Mat Sample

Depth (ft)	Interval (ft)	CLASSIFICATION OF MATERIALS (Description)	Moisture Content (%)	Liquid Limit (%)	Plasticity Index (%)	Liquid Limit (%)	Plasticity Index (%)	Liquid Limit (%)	Plasticity Index (%)
22.5		Remarks: 1. Ground surface elevation, reworking, casing, station, and offset shown are approximated from files made from existing features in the field by GeDesign personnel, the Preliminary Plan Set prepared by W&O and dated 4/30/2015, and an electronic site plan titled "s046304a.dwg" provided by W&O via email on June 26, 2015. 2. Visual soil descriptions are per the Barometer system. Laboratory gradations where applicable were performed by VTrans and are per ANSI/D 1145. 3. Auger grinding of approximately 3.5' deep on inferred Gravel. Auger grinding of approximately 7.5' to 17' through denser soil matrix. 4. Wet auger cuttings observed during advance below 8' deep. 5. Auger grinding/shorter at 17' deep. Water noted flowing from auger flights. 6. Hollow stem auger refusal on inferred bedrock at 18' deep. Attempted to core, but test water around augers and unable to continue. Less than 1" advance with no recovery. 7. Backfilled with 2.5 bags bentonite and cuttings. 8. Hammer energy is assumed.							
25.0									
27.5									
30.0									
32.5									
35.0									
37.5									

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