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

BORING LOG

Brattleboro Bridge #9 Replacement
IM 091-1(65) BR 9

Boring No.: OW-1
Page No.: 1 of 1
Pin No.: 12a026
Checked By: JFW

Boring Crew: Joshua Gilman (GeoDesign), Tom Farrell (SJB)
Date Started: 8/16/12 Date Finished: 8/16/12
VTSPG NAD83: N 136319.00 ft E 1621306.00 ft
Station: 564+49 Offset: 26' R
Ground Elevation: 234.7 ft

	Casing	Sampler
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/NWJ	
Rig:	CME 550X ATV	CE = 1.5

Groundwater Observations (3)

Date	Depth (ft)	Notes
08/20/12	15.0	In well.
08/24/12	15.1	In well.

Top of Well Elevation: 234.7 ft

Depth (ft)	Strata(1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)(2)	Moisture Content %	Gravel %	Sand %	Fines %
5		Inferred from nearby boring B-204 to be Fill.						
10		S1 (10'-12'): Very loose, brown fine to medium SAND and SILT, moist. Rec. = 0.75 ft (AASHTO M145 Classification: A-4) (AASHTO M145 Classification: Visual Description (Burmister).)		4-2-2-3 (4)	22.1	0.3	56.8	42.9
		Inferred from nearby boring B-204 to be Silty Fine Sand						
15		S2 (15'-17'): Loose, brown fine to medium SAND, some Silt, moist. Rec. = 1.08 ft (AASHTO M145 Classification: A-4) (AASHTO M145 Classification: Visual Description (Burmister).)		2-3-3-4 (6)	29.7	0.1	80.1	19.8
		Inferred from nearby boring B-204 to be Silty Fine Sand						
20		Hole stopped @ 18.2 ft Roller bit refusal on inferred bedrock.						

Remarks:
1) Location and elevation shown are based on survey data provided by VHB.
2) Bottom of casing was at 10 feet deep while sampling S1.
3) Bottom of casing was at 12.5 feet deep while sampling S2.
4) Casing and roller bit refusal at 18.2 feet deep on inferred bedrock.
5) Hammer efficiency is assumed.
6) Lab testing gradations reported are per AASHTO M145.

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 750-09.6 BRATTLEBORO BR 9 SEISMIC VTRANS FORMAT.GPJ VERMONT AOT.GDT 12/2/13