



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.: B-209A
 Page No.: 1 of 1
 Pin No.: 12a026
 Checked By: JAG

Boring Crew: J. Leonhardt (TransTech), B. Marshall (GeoDesign)
 Date Started: 3/27/12 Date Finished: 3/27/12
 VTSPG NAD83: N 136739.00 ft E 1621694.00 ft
 Station: 570+20 Offset: 5' L
 Ground Elevation: 233.5 ft

Type: _____ Casing: H.S.A. Sampler: 3" SS
 I.D.: 3.25 in 2.35 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 75 TRACK CE = 1.43

Groundwater Observations (3)

Date	Depth (ft)	Notes
03/27/12	11.8	Wet sample.
03/27/12	13.0	In HSA.

Depth (ft)	Strata(1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)(2)	Moisture Content %	Gravel %	Sand %	Fines %
5	x x x	S1) Top 2": Topsoil Bottom 6": Brown fine SAND, little Silt, trace fine to coarse Gravel. Rec. = 0.7 ft (AASHTO M145 Classification: Visual Description (Burmister).)	1-4-5-6 (NA)				
		S2) Brown fine SAND, little Silt, trace Root Fibers. Rec. = 0.8 ft (AASHTO M145 Classification: Visual Description (Burmister).)	10-20-18-16 (NA)				
		S3) Brown fine SAND, little fine to coarse Gravel, little Silt. Rec. = 0.8 ft (AASHTO M145 Classification: Visual Description (Burmister).)	6-6-4-5 (NA)				
10		S4) S4A - Top 2": Black CINDERS. S4B - Bottom 9": Brown fine SAND, little Silt. Rec. = 0.9 ft (AASHTO M145 Classification: Visual Description (Burmister).)	4-5-4-4 (NA)				
		S5) Brown stratified fine SAND, trace to little Silt. Rec. = 1.3 ft (AASHTO M145 Classification: Visual Description (Burmister).)	4-4-5-5 (NA)				
		S6) Brown fine SAND, little Silt. Rec. = 1.2 ft (AASHTO M145 Classification: Visual Description (Burmister).)	4-3-3-3 (NA)				
15		S7) Brown fine SAND, little Silt. Rec. = 1.5 ft (AASHTO M145 Classification: Visual Description (Burmister).)	5-3-3-2 (NA)				
		S8) Brown to orange brown fine to coarse SAND, some fine to coarse Gravel, little Silt. Rec. = 0.6 ft (AASHTO M145 Classification: Visual Description (Burmister).)	17-19-15-12 (NA)				
		S9) Brown fine to medium SAND, some fine to coarse Gravel, little Silt. (One 4" Cobble jammed in the tip of the spoon). Rec. = 0.4 ft (AASHTO M145 Classification: Visual Description (Burmister).)	24-44-40 (NA)				
		Hole stopped @ 17.5 ft					
		Remarks: 1) Ground surface elevation estimated from a topographic site plan provided by VHB. 2) Boring performed 5' west of B-209. 3) Sampling performed with a 3" OD split spoon. Blows are not representative of an SPT N-value.					

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 BRATTLEBORO IM 091-1(65) BR 9 VTRANS FORMAT.GPJ VERMONT AOT.GDT 12/2/13