



Boring Crew: J. Leonhardt (TransTech), B. Marshall (GeoDesign)
Date Started: 3/21/12 Date Finished: 3/22/12
VTSPG NAD83: N 136798.00 ft E 1621764.00 ft
Station: 571+11 Offset: 2' R
Ground Elevation: 263 ft

Type:	Casing		Sampler		Groundwater Observations (3)		
	I.D.:	Run	SS	SS	Date	Depth (ft)	Notes
Hammer Wt:	4 in	1.38 in	FJ	SS	03/22/12	20.5	In casing (15hrs)
Hammer Fall:	140 lb.	140 lb.	30 in.	30 in.	03/23/12	29.0	In well.
Hammer/Rod Type:	Auto/AWJ						
Rig:	CME 75 TRACK CE = 1.43						

Depth (ft)	Strat(1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Run (Dip deg.)	Core Rec. % (ROD %)	Groundwater Observations (3)				
						Drill Rate minutes/ft	Blows/6" (N Value)(2)	Moisture Content %	Gravel %	Sand %
0-5	X X X	S1) Medium dense, Top 1": Topsoil. Bottom 11": Light brown fine SAND, little fine to coarse Gravel, little silt. (FILL) Rec. = 1.0 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)				1-4-8-6 (12)	10.4	33.1	45.5	21.4
5-10	X X X	S2) Dense, gray brown fine to medium SAND, little (+) silt, little fine to coarse Gravel. (FILL) Rec. = 0.8 ft (AASHTO M145 Classification: A-1-b) (AASHTO M145 Classification: Visual Description (Burmister).)				14-17-23-26 (40)	11.5	40.7	42.5	16.8
10-15	X X X	S3) Medium dense, brown fine to medium SAND, little fine to coarse Gravel, trace (+) silt. (FILL) Rec. = 0.8 ft (AASHTO M145 Classification: A-1-b) (AASHTO M145 Classification: Visual Description (Burmister).)				11-12-14-15 (26)	8.4	51.7	37.3	11.0
15-19.5		Inferred transition to natural Silty Sand between 13.5' and 15' (AASHTO M145 Classification: Field Note.)								
19.5-20		Inferred cobble based on roller bit grinding between 19' and 19.5'. (AASHTO M145 Classification: Field Note.)								
20-25		S5) Medium dense, gray stratified fine SAND, little silt. (SILTY SAND) Rec. = 1.0 ft (AASHTO M145 Classification: A-4) (AASHTO M145 Classification: Visual Description (Burmister).)				4-7-10-11 (17)	15.8	0.3	41.0	58.7
25-28.5		S6) Medium dense, gray stratified fine SAND, little to some silt. (SILTY SAND) Rec. = 1.2 ft (AASHTO M145 Classification: A-4) (AASHTO M145 Classification: Visual Description (Burmister).)				7-6-7-8 (13)	20.0	0.1	43.5	56.4
28.5-30		Inferred transition from Silty Sand to Silty Gravelly Sand between 28.5' and 30'. (AASHTO M145 Classification: Field Note.)								

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.



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						Drill Rate minutes/ft	Blows/6" (N Value)(2)	Moisture Content %	Gravel %	Sand %
0-33		S8) Medium dense, gray brown fine to medium SAND, little fine to coarse Gravel, little silt. (SILTY GRAVELLY SAND) Rec. = 0.7 ft (AASHTO M145 Classification: A-1-b) (AASHTO M145 Classification: Visual Description (Burmister).)				14-10-8-11 (18)	13.2	33.5	48.3	18.2
33-35		Inferred bedrock from 33' to 33.5'. (AASHTO M145 Classification: Field Note.)								
35-40		C1) Excellent quality, hard, slightly weathered, moderately jointed, gray with occasional white banding LIMESTONE. Quartzite intrusion 37.5 to 38.5 feet. Strong reaction to dilute HCL		C1	97 (92)	4				Top of Bedrock @ 33.0 ft
40-45		C2) Good quality, hard, moderately weathered, gray with white bedding LIMESTONE (Upper 23") transitioning to PHYLLITE (Lower 35"). Strong dilute HCL reaction in Limestone and white bedded sections. No reaction in Phyllite sections		C2	97 (77)	10				
45-43.5		Hole stopped @ 43.5 ft								

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

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