

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-209			
		Drottlersboro Bridge #9 Replacement IM 091-1(65) BR 9		Page No.: 1 of 3		Boring No.: B-209			
				Pin No.: 12a026		Page No.: 3 of 3			
				Checked By: JAG		Pin No.: 12a026			
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Boring Crew: J. Leonhardt (TransTech), B. Marshall (GeoDesign)		Casing Sampler		Groundwater Observations (3)					
Date Started: 3/26/12 Date Finished: 3/26/12		Type: FJ SS		Date	Depth (ft)	Notes			
VSPG HADRS: N 136736.00 ft E 1621697.00 ft		L.O.: 4 in. 1.38 in.		03/26/12	12.4	In open hole.			
Station: 570+20 Offset: 0.00		Hammer Wt: 140 lb. 140 lb.							
Ground Elevation: 233.5 ft		Hammer Fall: 30 in. 30 in.							
		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 75 TRACK CE = 1.43							
Depth (ft)	Strat (ft)	CLASSIFICATION OF MATERIALS (Description)		Blow Count (ft)	Meters at Contact	Gravel %	Sand %	Fines %	
0-1	0-1	S1) Loose, Top 2": Topsoil. Bottom 10": Brown fine SAND, little SIL, trace fine Gravel. (FIL) Rec. = 1.0 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		1-2	6	10.7	8.4	71.2	20.4
5	5	S2) Loose, brown fine SAND, little SIL, trace fine Gravel. (SILTY SAND) Rec. = 0.2 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		10-3	5	17.8	24.8	52.8	22.3
10	10	S3) Loose, brown fine SAND, little SIL, trace (-) fine Gravel. (SILTY SAND) Rec. = 0.5 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		5-3	2	19.5	6.9	68.0	25.1
15	15	S4) Very dense, brown fine to medium SAND, little SIL, little fine Gravel. (SILTY SAND) Rec. = 0.4 ft (AASHTO M145 Classification: A-1-b) (AASHTO M145 Classification: Visual Description (Burmister).)		82-45	17-11	14.7	42.8	44.1	13.1
20	20	S5) Loose, brown fine SAND, little SIL, trace (-) fine Gravel. (SILTY SAND) Rec. = 0.5 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		9-3	6-4	22.8	0.5	82.7	16.8
25	25	S6) Medium dense, fine SAND, little SIL, (SILTY SAND) Rec. = 0.6 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		8-5	5-6	24.9	0.9	77.3	21.8
		S7) Medium dense, brown fine SAND, little SIL, (SILTY SAND) Rec. = 1.3 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		9-10	10	24.4	0.1	86.3	13.4

Notes:  
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0-1	0-1	Classification: A-2-4 (AASHTO M145 Classification: Visual Description (Burmister).)		12	12				
35	35	Inferred transition from Silty Sand to Silty Gravelly Sand between 33' and 34.5'. (AASHTO M145 Classification: Field Note.)							
35	35	S8) Refusal, brown fine to medium SAND, little fine to coarse Gravel, little SIL, (SILTY GRAVELLY SAND) Rec. = 0.4 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		10-56	50/5	18.6	16.9	68.1	15.0
40	40	Inferred transition from Silty Gravelly Sand to Silty Sand between 37' and 39.5'. (AASHTO M145 Classification: Field Note.)							
40	40	S9) Medium dense, brown fine SAND, little SIL, (SILTY SAND) Rec. = 1.4 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		7-11	9-15	24.1		72.0	28.0
45	45	Inferred transition from Silty Sand to Silty Gravelly Sand between 43' and 44.5'. (AASHTO M145 Classification: Field Note.)							
45	45	S10) Medium dense, brown fine SAND, little SIL, trace fine to coarse Gravel. (SILTY GRAVELLY SAND) Rec. = 1.2 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		7-9	9-10	19.2	20.8	48.6	29.6
50	50	S11) Refusal, brown fine SAND, little SIL, trace fine to coarse Gravel. (SILTY GRAVELLY SAND) Rec. = 1.3 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		31-47	50/4	12.3	27.5	52.4	20.1
55	55	Inferred Weathered Rock based on roller bit resistance between 54' and 54.5'. (AASHTO M145 Classification: Field Note.)							
		Hole stopped @ 54.5 ft HSA Refused on Inferred Bedrock.				Top of Bedrock @ 54.5 ft			

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		Notes: 1) Ground surface elevation estimated from a topographic site plan provided by VHR. 2) Boring shifted ~10' north of surveyed location due to drill rig access constraints. 3) Boring advanced open hole below 29.5' deep. 4) Roller bit advanced into inferred bedrock / weathered rock from 54' to near refusal at 54.5' deep. 5) Lab testing gradations reported are per AASHTO M145.							

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