



PARTIAL BORING LOG B-17 (OW)

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GZA GeoEnvironmental, Inc. Engineers and Scientists		Bennington Bypass North Bennington, Vermont		Boring No.: B-17(OW) Page: 1 of 5 File No.: 15634
Contractor: New Hampshire Boring		Auger/Casing Sampler		Check:
Foreman: J. Michaud		Type: HW SS		
Logged by: S. Raymond		I.D. (mm): 102 35		
Date Start/Finish: 8-19-99 / 8-24-99		Date Time Depth Casing Stab		
Boring Location: 6+302, 26m R		Hammer Wt.: 136.1kg 63.5 kg		
GS Elev.: 252.29m Datum: NGVD		Hammer Fall: 0.61m 0.76 m		
Rig Type: Mobil D-53 Bomb		GROUNDWATER READINGS		
		Date Time Depth Casing Stab		
		8-24-99 0800 2.1m None 15 hrs.		

Depth (feet)	Depth (meters)	Sample Information				Sample Description & Classification	Stratum Desc.	Equipment Installed
		No.	Rec. (m)	Depth (m)	N Value			
5'	1.5	S-1	0.25	0-0.37	56	Forest Mat Very dense, grayish brown, fine to coarse SAND, little Silt, trace Gravel, trace Organics. (A-1-a)	FOREST MAT 0.15m 0.37m	CONCRETE SEAL 19mm SOLID SCH. 40 PVC RISER
				50/ 51mm				
10'	3.0					Advanced borehole through nested cobbles and boulders from 0.37 to 3.96 meters using roller bit.	FLUVIAL	BENTONITE SEAL 3.66m
15'	4.6	S-2	0.46	4.57- 5.18	33	Hard, light brown, Clayey SILT, little fine Sand, trace Gravel with reddish brown Silt lenses and white Clayey Silt lenses. (A-4)		FILTER SAND
20'	6.1	S-3	0.38	6.10- 6.71	40	Hard, light brown, Clayey SILT, little fine to coarse Sand, trace Gravel with reddish brown fine to medium Sand seams and white Clayey Silt lenses. (A-4)	LACUSTRINE	6.10m 19mm ID SCH. 40 PVC SCREEN (0.25mm SLOT)
25'	7.6	S-4	0.51	7.62- 8.23	68	Very dense, reddish brown, SILT, little fine to coarse Sand, little Gravel with reddish brown Silt lenses. (A-4)		

REMARKS
1. The casing was abandoned in place. During removal of casing, a 1.52-meter section of casing broke at approximately 3.05 meters below ground surface.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. 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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		No.	Rec. (m)	Depth (m)	N Value			
35'	10.7	S-5	0.51	9.14- 9.75	73	Hard, light brown, Clayey SILT, little fine to coarse Sand, trace Gravel with light brown Silt seams and lenses, white Clayey Silt lenses, and reddish brown Silt lenses. (A-4)		9.14m FILTER SAND
40'	12.2	S-6	0.46	10.67- 11.28	75	Very dense, grayish brown, fine SAND and Silt, trace Gravel with light brown Clayey Silt seams, white Clayey Silt seams and lenses, and reddish brown Silt lenses. (A-4)		
45'	13.7	S-7	0.48	12.19- 12.80	97	Very dense, brown, fine SAND and Silt, trace Gravel with white Clayey Silt seams, and reddish brown Silt lenses. (A-4)		
50'	15.2	S-8	0.33	13.72- 14.33	55	Very dense, light brown, SILT, trace fine Sand with gray Clayey Silt seams and lenses, white Clayey Silt lenses, and reddish brown Silt lenses. (A-4)		
55'	16.8	S-9	0.25	15.24- 15.85	56	Very dense, light brown, SILT, little fine Sand with white Clayey Silt lenses and reddish brown Silt lenses. (A-4)	LACUSTRINE	
		S-10	0.20	16.76- 17.13	95	Very dense, light brown, fine SAND and Silt with white Clayey Silt seams and lenses. (A-4)		

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		No.	Rec. (m)	Depth (m)	N Value			
65'	19.8	S-11	0.43	18.29- 18.90	95	Very dense, light brown, SILT, little fine to coarse Sand, little Gravel with white and gray Clayey Silt lenses. (A-4)		
70'	21.3	S-12	0.30	19.81- 20.18	117	Very dense, light brown, SILT, some fine to coarse Sand, little Gravel with white and gray Clayey Silt lenses, iron oxide staining. (A-4)		
75'	22.9	S-13	0.20	21.34- 21.70	132	Very dense, light brown, fine to coarse SAND, little Gravel, trace Silt with white and gray Clayey Silt lenses and light brown Silt lenses. (A-2-4)		
80'	24.4	S-14	0.23	22.86- 23.29	149	Very dense, light brown and gray, SILT, trace fine Sand with white and gray Clayey Silt lenses. (A-4)	LACUSTRINE	
85'	25.9	S-15	0.28	24.38- 24.78	134	Very dense, light brown, SILT, some fine Sand with white Clayey Silt seams and lenses, and gray Clayey Silt lenses. (A-4)		
		S-16	0.10	25.91- 26.12	50	Very dense, light brown, SILT, fine Sand with white Clayey Silt lenses. (A-4)		

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* BOTTOM OF DRILLED SHAFT, RAMP D, PIER 2 - EL. 225.250

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	BENNINGTON	Bridge No.	BI5, BI5N, BI5S
Highway No.	VT RTE 279	Log Sta.	
		Surv. Sta.	
VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER			
BORING LOGS (SHEET 4 OF 33)			
Designed By	GZA	Drawn By	L.R. DELL
Checked By	GZA	Date	04/06
		Bridge Design Supervisor	K.M. WOJTKOWSKI
		Date	04/06
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-I(51)
TVGA CAD Drawing No.	BL04.dgn	Date	02/02/2009
Bridge Sheet No.	BR210	Sheet	197 of 367

