



PARTIAL BORING LOG B-13

PARTIAL BORING LOG B-13 (CONT'D)

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**GZA** GeoEnvironmental, Inc. Bennington Bypass North Bennington, Vermont  
 Boring No.: B-13 Page: 1 of 5  
 File No.: 15634 Check: TAD  
 Contractor: New Hampshire Boring Auger/Casing Sampler  
 Foreman: J. Michael  
 Logged by: S. Raymond  
 Date Start/Finish: 8-9-99 / 8-11-99  
 Boring Location: 6 + 243, 7m R  
 GS Elev.: 250.42m Datum: NGVD  
 Type: PW/HW SS Date Time Depth Casing Stab  
 I.D. (mm): 127/102 35  
 Hammer Wt.: 136.1kg 63.5kg  
 Hammer Fall: 0.61m 0.76m  
 Rig Type: Mobile B-53 Bomb

Depth (feet)	Depth (meters)	Sample Information					Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed		
		No.	Rec. (m)	Depth (m)	Blows/0.15m	N Value						
5'	1.5	S-1	0.05	0-0.05	100/76mm	100	Very dense, brown, fine to coarse SAND, little Gravel, little Silt, trace Organics. (A-1-b)	0.05m FLUVIAL		NO EQUIPMENT INSTALLED		
		Advanced borehole through nested cobbles and boulders from 0.09 to 3.35 meters using air hammer.										
		3.35m										
		1										
15'	4.6	S-2	0.28	4.57-5.18	23-30/32-35	62	Very dense, light brown, Clayey SILT, some fine Sand with brown Clayey Silt seams and white Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED		
		LACUSTRINE										
20'	6.1	S-3	0.51	6.10-6.71	20-22/33-35	55	Very dense, light brown, Clayey SILT, some fine Sand with brown and yellow Silt seams. (A-4)			NO EQUIPMENT INSTALLED		
		LACUSTRINE										
25'	7.6	S-4	0.56	7.62-8.23	15-18/33-67	51	Very dense, light brown, Clayey SILT, trace fine to coarse Sand, trace Gravel with gray Clayey Silt lenses, and iron oxide staining. (A-4)			NO EQUIPMENT INSTALLED		
		LACUSTRINE										

REMARKS  
 1. Laboratory AASHTO classifications performed on S-2 and S-3.

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. Boring No.: B-13

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		No.	Rec. (m)	Depth (m)	Blows/0.15m	N Value				
35'	10.7	S-5	0.36	9.14-9.75	26-38/60-52	98	Very dense, light brown, SILT, trace fine Sand with gray and white clay lenses and 0.91 meter reddish brown stained fine to medium Sand layer. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
40'	12.2	S-6	0.46	10.67-11.28	21-26/48-77	74	Very dense, light brown, SILT, trace fine to coarse Sand with gray and white Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
45'	13.7	S-7	0.43	12.19-12.71	27-34/58-50/76mm	92	Very dense, light brown and gray, SILT, little fine to coarse Sand, trace Gravel with gray and white Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
50'	15.2	S-8	0.30	13.87-14.14	28-67/100/127mm	167	Very dense, light brown, SILT, little fine to coarse Sand with white and brown Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
55'	16.8	S-9	0.38	15.24-15.67	26-38/100/127mm	138	Very dense, light brown, fine SAND and Silt with white and gray Clayey Silt lenses. Sample contained iron oxide staining. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
65'	21.3	S-10	0.36	16.76-17.19	67-52/100/127mm	152	Very dense, brown, SILT, little fine Sand with gray and white Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								

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		No.	Rec. (m)	Depth (m)	Blows/0.15m	N Value				
65'	19.8	S-11	0.28	18.29-18.71	42-60/100/127mm	160	Very dense, light brown, SILT, trace fine to coarse Sand, trace Gravel with white and gray Clayey Silt lenses and reddish brown, fine Sand lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
70'	21.3	S-12	0.13	19.81-20.06	74-100/102mm	100	Very dense, light brown, SILT, little Gravel, trace fine to coarse Sand with white Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
75'	22.9	S-13	0.25	21.34-21.70	25-75/50/51mm	125	Very dense, white, SILT, trace fine Sand, with light brown and reddish brown Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
80'	24.4	S-14	0.25	22.86-23.10	37-100/127mm	100	Very dense, light brown, SILT, trace fine Sand with white and gray Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
85'	25.9	S-15	0.10	24.38-24.54	100/152mm	100	Very dense, light brown and white, SILT, little fine Sand with white Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								
85'	25.9	S-16	0.18	25.91-26.27	66-100/50/51mm	150	Very dense, light brown, SILT, little fine to medium Sand with white Clayey Silt lenses. (A-4)			NO EQUIPMENT INSTALLED
		LACUSTRINE								

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\* BOTTOM OF DRILLED SHAFT, FUTURE NB VT ROUTE 279, PIER 3 - EL. 221.950

**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

Town Of BENNINGTON Bridge No. B15, B15N, B15S  
 Highway No. VT RTE 279 Log Sta. Sur. Sta.  
 VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER

**BORING LOGS (SHEET 1 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-(I51)  
 TVGA CAD Drawing No. B101.dgn Date 02/02/2009  
 Bridge Sheet No. BR207 Sheet 194 of 367

