



BORING LOG B-502

BORING LOG B-502 (CONT'D)

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<b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists		Bennington Bypass North Bennington, Vermont		Boring No.: B-502 Page: 1 of 3 File No.: 15634.16 Check: DGL					
Contractor: Geologic-Earth Exploration Foreman: Tim Tucker/Charlie O'Donnell Logged by: L. Charest Date Start/Finish: 7-20-06 / 7-26-06 Boring Location: NB 6+259.7, 28.1m L GS Elev.: 249.08m Datum: NAVD88		Auger/Casing Sampler Type: ODEX SS I.D.: 108 mm 35 mm Hammer Wt.: NA 63.2 kg Rig Type: CME750 ATV		GROUNDWATER READINGS Date: 7/25/06 Time: 0800 Depth: 0.85m Casing: 3.05m Stab: 5 days					
Sample Information									
Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
						Advanced borehole through nested cobbles and boulders from 0 to 3.05 meters (0 to 10 feet) below ground surface using an ODEX hammer.			No Equipment Installed
	S-1	0.61/0.46	3.05-3.66	14-19 24-19	43	Hard, light brown, Clayey SILT, little fine to medium Sand with white, Clayey Silt seams. (A-4)	FLUWAL		
	S-2	0.61/0.46	4.27-4.88	12-16 36-45	52	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)			
	S-3	0.61/0.08	5.79-6.40	17-26 51-59	77	Very dense, light brown, SILT, little fine Sand, trace Gravel with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
	S-4	0.61/0.56	7.32-7.92	15-29 31-46	60	Hard, light brown, Clayey SILT, some fine Sand with white, Clayey Silt lenses. (A-4)			
	S-5	0.61/0.58	8.84-9.45	10-15 37-51	52	Hard, light brown, Clayey SILT, little fine to medium Sand with white, Clayey Silt lenses and seams. (A-4)			

ALL DEPTH MEASUREMENTS ARE APPROXIMATE. STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. WATER LEVEL READINGS HAVE BEEN MADE OF 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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Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
	S-6	0.61/0.56	10.36-10.97	28-33 44-41	77	Hard, light brown, Clayey SILT, little fine to medium Sand with white, Clayey Silt lenses. (A-4)			
	S-7	0.61/0.58	11.89-12.50	40-22 47-49	69	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)			
	S-8	0.61/0.61	13.41-14.02	25-60 76-100	136	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses and brown, Silt & Clay lenses. (A-4)			
	S-9	0.38/0.38	14.94-15.32	37-82 100/76 mm	82 100/76 mm	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
	S-10	0.61/0.48	16.46-17.07	31-41 59-67	100	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses and seams. (A-4)			
	S-11	0.41/0.41	17.98-18.39	54-88 100/102 mm	88 100/102 mm	Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			
	S-12	0.46/0.46	19.51-19.96	25-61 94	155	Hard, light brown, Clayey SILT, little fine Sand with white, Clayey Silt lenses. (A-4)			
	S-13	0.56/0.51	21.03-21.59	41-49 87-100/102 mm	136	Hard, light brown, Clayey SILT, little fine Sand with white, Silt seams and lenses. (A-4)			

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	S-14	0.61/0.58	22.56-23.16	39-54 75-100	129	Very dense, light brown, SILT, little fine to coarse Sand with white, Clayey Silt lenses. (A-4)			
	S-15	0.41/0.30	24.08-24.49	35-51 100/102 mm	51 100/102 mm	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
	S-16	0.30/0.28	25.60-25.91	60-100/152 mm	100/152 mm	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)			
	S-17	0.46/0.33	27.13-27.58	22-47 106/152 mm	47 106/152 mm	Very dense, light brown, SILT, little fine to medium Sand with white, Clayey Silt lenses and seams. (A-4) Bottom of boring at 27.58 meters (90.5 feet) below ground surface. Spill spoon refusal.			

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\* BOTTOM OF DRILLED SHAFT, RAMP A, PIER 7 - EL. 224.250

<b>STATE OF VERMONT AGENCY OF TRANSPORTATION</b>	
Town Of BENNINGTON	Bridge No. B15, B15N, B15S
Highway No. VT RTE 279	Log Sta. Surv. Sta.
VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER	
<b>BORING LOGS (SHEET 21 OF 33)</b>	
Designed By GZA	Drawn By L.R. DELL
Checked By GZA	Date 06/08 Bridge Design Supervisor K.M. WOJTKOWSKI Date 06/08
PROJECT BENNINGTON	PROJECT NO. AC NH F019-(K5)
TVGA CAD Drawing No. BL21.dgn	Date 02/02/2009
Bridge Sheet No. BR227	Sheet 214 of 367

