



BORING LOG B-514

BORING LOG B-514 (CONT'D)

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GZA GeoEnvironmental, Inc. Engineers and Scientists		Bennington Bypass North Bennington, Vermont		Boring No.: B-514 Page: 1 of 3 File No.: 15634.16 Check: DGL	
Contractor: Geologic-Earth Exploration Foreman: Charita O'Donnell Logged by: L. Chrest Date Start/Finish: 7-18-08 / 7-19-08 Boring Location: NB 6+304.9, 18.5m R GS Elev.: 251.89m Datum: NAVD88		Auger/Casing: ODEX SS Sampler: SS I.D.: 108 mm 35 mm Hammer Wt.: NA 63.5 kg Hammer Fall: NA 0.76 m Rig Type: CME750 ATV		GROUNDWATER READINGS Date Time Depth Casing Stab Not measured	
Sample Information					
Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value
Advanced borehole through nested cobbles and boulders from 0 to 2.74 meters (0 to 9 feet) below ground surface using an ODEX hammer.					
S-1	0.61/0.13	2.74-3.35	11-15	15-14	30
Medium dense, light brown, GRAVEL, some Silt, some fine to coarse Sand. (A-4)					
S-2	0.61/0.46	4.57-5.18	12-17	25-31	42
Dense, light brown, SILT, some fine to coarse Sand, little Gravel with white, Clayey Silt lenses. (A-4)					
S-3	0.61/0.51	6.10-6.71	15-15	21-29	36
Dense, light brown, SILT, little fine to medium Sand, trace Gravel with white, Clayey Silt lenses. (A-4)					
S-4	0.61/0.56	7.62-8.23	7-17	27-35	44
Dense, light brown, SILT, little fine to medium Sand, trace Gravel with white, Clayey Silt lenses. (A-4)					
S-5	0.61/0.51	9.14-9.75	7-11	15-19	26
Very stiff, light brown, Clayey SILT, little fine to medium Sand, little Gravel with white, Clayey Silt lenses. (A-4)					
No Equipment Installed FLUVAL LACUSTRINE					

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Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value
S-6	0.61/0.48	10.67-11.28	8-29	27-31	56
Hard, light brown, Clayey SILT, little fine Sand, trace Gravel with white, Clayey Silt seams and lenses. (A-4)					
S-7	0.61/0.56	12.19-12.80	12-22	32-41	54
Very dense, light brown, SILT, little fine to medium Sand, little Gravel with white, Clayey Silt seams and lenses. (A-4)					
S-8	0.61/0.56	13.72-14.33	13-18	22-29	40
Dense, light brown, SILT, some fine Sand, trace Gravel with white, Clayey Silt lenses and seams. (A-4)					
S-9	0.61/0.51	15.24-15.85	18-32	47-70	79
Very dense, light brown, SILT, little fine to medium Sand, trace Gravel with white, Clayey Silt lenses. (A-4)					
S-10	0.61/0.51	16.76-17.37	15-36	39-48	75
Very dense, light brown, SILT, little fine to medium Sand, trace Gravel with white, Clayey Silt lenses and brown, Clayey Silt lenses and seams. (A-4)					
S-11	0.61/0.56	18.29-18.90	13-27	31-43	58
Very dense, light brown, SILT, little fine to medium Sand, little Gravel with white, Clayey Silt lenses. (A-4)					
S-12	0.46/0.36	19.81-20.27	24-39	105/152 mm	39
Very dense, light brown, SILT, little fine Sand, little Gravel with white, Clayey Silt lenses. (A-4)					
S-13	0.61/	21.34-	34-66		136
Very dense, light brown, SILT, little fine Sand					
LACUSTRINE LACUSTRINE					

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Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value
S-14	0.61/0.46	22.86-23.47	22-33	80-100	113
Very dense, light brown, SILT, little fine Sand, trace Gravel with white, Clayey Silt lenses. (A-4)					
S-15	0.43/0.33	24.38-24.82	32-75	98/127 mm	75
Very dense, light brown, SILT, little fine Sand, trace Gravel with white, Clayey Silt lenses. (A-4)					
Bottom of boring at 24.82 meters (81.4 feet) below ground surface. Split spoon refusal.					
LACUSTRINE LACUSTRINE					

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. Boring No.: B-514

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* BOTTOM OF DRILLED SHAFT, RAMP D, PIER 2 - EL. 224.250

STATE OF VERMONT AGENCY OF TRANSPORTATION	
Town Of	BENNINGTON
Highway No.	VT RTE 279
BORING LOGS (SHEET 33 OF 33)	
Designed By	GZA
Checked By	GZA
PROJECT	BENNINGTON
TVGA CAD Drawing No.	BL33.dgn
Bridge Sheet No.	BR239
Drawn By	L.R. DELL
Date	06/08
PROJECT NO.	AC NH 019-1(51)
Date	02/02/2009
Sheet	226 of 367

