VAOT Metric

BORING LOG B-503

GZA GeoEnvironmental, Inc. *Engineers and Scientists*

Bennington Bypass North
Bennington, Vermont

Boring No.: B-503
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: 7-24-06 / 7-25-06
Boring Location: NB 6+258.0, 18.9m L
GS Elev.: 250.16m Datum: NAVD88

	Auger/ Casing	Sampler
Type:	ODEX	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	Slab
7/25/06	0800	0.88m	0.00m	5 minutes

Depth (m)	Sample Info: 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 3.66 meters (0 to 12 feet) below ground surface using an ODEX hammer.			No Equipment Installed
							FLUVIAL		
	S-1	0.61/ 0.08	3.66- 4.27	16-27 26-24	53	Very dense, light brown, SILT, some fine to medium Sand, little Gravel with white, Clayey Silt lenses. (A-4).	3.66m		
	S-2	0.61/ 0.00	4.27- 4.88	18-24 34-47	58	No recovery; rock lodged in tip of spoon.			
5	S-3	0.61/ 0.58	5.79- 6.40	15-17 29-30	46	Dense, light brown, SILT, little fine to medium Sand with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
	S-4	0.61/ 0.58	7.32- 7.92	14-21 35-36	56	Very dense, light brown, SILT, little fine to medium Sand with white, Clayey Silt lenses. (A-4)			
	S-5	0.61/ 0.08	8.84- 9.45	32-51 43-43	94	Very dense, light brown, SILT, little fine to medium Sand with white, Clayey Silt lenses. (A-4)			

REMARKS

SOIL BL WELL 500 SERIES.GPJ GZA_MN.GDT 12/4/08

All depth measurements are approximate. Stratification lines represent approximate boundary 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-503

BORING LOG B-503 (CONT'D)

GZA GeoEnvironmental, Inc. *Engineers and Scientists*

Bennington Bypass North
Bennington, Vermont

Boring No.: B-503
Page: 2 of 3
File No.: 15634.16
Check: DGL

Depth (m)	Sample Info: No.	Pen./ Rec. (m)	Depth (m)	Blows (/0.15m)	N Value	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
	S-6	0.61/ 0.10	10.36- 10.97	20-29 65-86	94	Very dense, light brown, SILT, little fine to medium Sand, trace Gravel with white, Clayey Silt lenses. (A-4)			
	S-7	0.61/ 0.56	11.89- 12.50	34-43 43-54	86	Very dense, light brown, SILT, trace Gravel, trace fine Sand with white, Clayey Silt lenses. (A-4)			
	S-8	0.61/ 0.58	13.41- 14.02	22-36 37-48	73	Very dense, light brown, SILT, little fine Sand, trace Gravel with white and dark brown, Clayey SILT lenses and seams. (A-4)			
15	S-9	0.53/ 0.51	14.94- 15.47	22-48 98-60/76 mm	146	Very dense, light brown, SILT, little fine to medium Sand, trace Gravel with white and dark brown, Clayey Silt lenses and seams. (A-4)	LACUSTRINE		
	S-10	0.53/ 0.51	16.46- 16.99	62-106 10-100/76 mm	216	Very dense, light brown, SILT, trace Gravel, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			
	S-11	0.46/ 0.38	17.98- 18.44	19-44 200/152 mm	44 200/152 mm	Very dense, light brown, SILT, little fine Sand with white and brown, Clayey Silt lenses. (A-4)			
20	S-12	0.23/ 0.23	19.51- 19.74	80-100/76 mm	100/76 mm	Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses. (A-4)			
	S-13	0.61/ 0.56	21.03- 21.64	24-31 50-64	81	Very dense, light brown, SILT, little fine Sand with white and dark brown, Clayey Silt lenses and seams. (A-4)			

REMARKS

SOIL BL WELL 500 SERIES.GPJ GZA_MN.GDT 12/4/08

All depth measurements are approximate. Stratification lines represent approximate boundary 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-503

BORING LOG B-503 (CONT'D)

GZA GeoEnvironmental, Inc. *Engineers and Scientists*

Bennington Bypass North
Bennington, Vermont

Boring No.: B-503
Page: 3 of 3
File No.: 15634.16
Check: DGL

Depth (m)	Sample Info: No.	Pen./ Rec. (m)	Depth (m)	Blows (/0.15m)	N Value	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
	S-14	0.46/ 0.46	22.56- 23.01	23-53 111/ 152mm	53 111/ 152mm	Very dense, light brown, SILT, little fine Sand, trace Gravel with white and dark brown, Clayey Silt lenses and seams. (A-4)			
	S-15	0.61/ 0.51	24.08- 24.69	20-43 67-81	110	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses and seams. (A-4)	LACUSTRINE		
25	S-16	0.53/ 0.46	25.60- 26.14	60-68 81-100/76 mm	149	Very dense, light brown, SILT, some fine to medium Sand with white, Clayey SILT lenses. (A-4)			
	S-17	0.41/ 0.41	27.13- 27.53	50-66 100/102 mm	66 100/102 mm	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4) Bottom of boring at 27.53 meters (90.3 feet) below ground surface. Split spoon refusal.	27.53m		
30									

REMARKS

SOIL BL WELL 500 SERIES.GPJ GZA_MN.GDT 12/4/08

All depth measurements are approximate. Stratification lines represent approximate boundary 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-503

TVGA CONSULTANTS

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 22 OF 33)	
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 019-1(51)
TVGA CAD Drawing No. BL22.dgn	Date 02/02/2009
Bridge Sheet No. BR228	Sheet 215 of 367