



PARTIAL BORING LOG B-22(OW)

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GZA GeoEnvironmental, Inc. Engineers and Scientists		Bennington Bypass North Bennington, Vermont		Boring No.: B-22(OW) Page: 1 of 4 File No.: 15634 Check: TAD					
Contractor: New Hampshire Boring Foreman: T. Garside Logged by: J. Gaudreau		Auger/ Casing Sampler Type: HW/NW SS I.D. (mm): 102/76 35		GROUNDWATER READINGS Date Time Depth Casing Stab 9-13-99 1130 23.47m 27.43m 72 hrs.					
Date Start/Finish: 9-8-99 / 9-13-99 Boring Location: 6+380, 7.9m L GS Elev.: 280.92m Datum: NGVD		Hammer Wt.: NA 63.5 kg Hammer Fall: NA 0.76 m Rig Type: CME 550 ATV							
Sample Information									
Depth (feet)	Depth (meters)	No.	Rec. (m)	Blows/0.15m	N Value	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
5'	1.5	S-1	0.20	0-0.6 10-20	2-4 14	Medium dense, dark brown and gray, fine to medium SAND and Silt, trace Gravel with roots and wood. (A-4)	TOPSOIL 0.30m		PROTECTIVE CASING CONCRETE SEAL 0.30m FILTER SAND
		S-2	0.36	1.52- 2.13	9-9 8-9	Medium dense, light brown, fine to coarse SAND, little Gravel, trace Silt. (A-2-4)	ABLATION TILL		25mm SOLID SCH. 40 PVC RISER
10'	3.0	S-3	0.20	3.05- 3.66	8-12 26-34	Dense, brown, fine to medium SAND, some Silt, little Gravel. (A-2-4)			
15'	4.6	S-4	0.25	4.57- 5.12	5-10 18-	Medium dense, brown, fine to medium SAND, some Silt, little Gravel. Rock fragment in tip of spoon. (A-1-b)	4.57m		FILTER SAND
20'	6.1	S-5	0.15	6.10- 6.34	29- 100/	Very dense, brown, fine to coarse SAND and Gravel, little Silt. Rock fragment in tip of spoon. (A-1-b)	LOGGEMENT TILL		76mm
25'	7.6	S-6	0.05	7.62- 7.72	100/ 102mm	Very dense, brown, fine to coarse SAND and Gravel, some Clayey Silt. Rock fragment in tip of spoon. (A-1-b)			
REMARKS									
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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		S-7	0.15	9.14- 9.45	57- 100/	Very dense, brown, fine to coarse SAND and Gravel, little Silt. (A-1-b)			
35'	10.7	S-8	0.15	10.67- 11.07	34-67 100/	Very dense, brown, fine to coarse SAND and Gravel, little Silt. (A-1-b)			152mm
40'	12.2	S-9	0.15	12.19- 12.80	15-22 26-28	Dense, brown, fine SAND and Silt, trace coarse Sand. (A-4)	LOGGEMENT TILL		FILTER SAND
45'	13.7	S-10	0.56	13.41- 14.02	20-39 46-44	Very dense, brown, fine SAND and Silt, trace Gravel with iron oxide staining and fine to coarse Sand seams. (A-4)			25mm SOLID SCH. 40 PVC CASING
50'	15.2	S-11	0.15	15.24- 15.41	17- 100/	Very dense, light brown, fine to coarse SAND and Silt, trace Gravel. (A-4)			15.24m
55'	16.8	S-12	0.23	16.76- 17.02	27- 100/	Very dense, grayish brown, fine to coarse SAND and Silt, little Gravel with gray Silt lenses and iron oxide staining. (A-4)			BENTONITE SEAL 16.76m
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Sample Information									
Depth (feet)	Depth (meters)	No.	Rec. (m)	Blows/0.15m	N Value	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
		S-13	0.03	18.29- 18.33	100/ 25mm	Very dense, grayish brown, fine to coarse SAND, some Gravel, little Clayey Silt with iron oxide staining. (A-1-b)			
65'	19.8	S-14	0.03	19.81- 19.92	100/ 76mm	Encountered boulder from 18.90 to 19.69 meters. Wash recovery; rock fragment in tip of spoon.			25mm SOLID SCH. 40 PVC CASING
70'	21.3	S-15	0.05	21.34- 21.49	30/ 152mm	Very dense, grayish brown, fine to medium SAND and Gravel, little Silt. (A-1-b)	LOGGEMENT TILL		21.34m FILTER SAND
75'	22.9					No sample taken at 22.86 meters due to boulders encountered from 22.86 to 23.16 meters and from 23.77 to 24.10 meters.			
80'	24.4	S-16	0.15	24.38- 24.64	41- 100/	Very dense, reddish brown, fine to coarse SAND and Gravel, little Silt. (A-1-a)			25mm ID SCH. 40 PVC SCREEN (0.01" SLOTS)
85'	25.9	S-17	0.18	25.91- 26.17	23- 100/	Very dense, reddish brown, fine to coarse SAND and Gravel, little Silt. Rock fragment in tip of spoon. (A-1-a)			102mm
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* BOTTOM OF FOOTING, ABUT. 2 - EL. 264.000

STATE OF VERMONT AGENCY OF TRANSPORTATION	
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	
BORING LOGS (SHEET 9 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-(51)
TVGA CAD Drawing No. BL09.dgn	Date 02/02/2009
Bridge Sheet No. BR215	Sheet 202 of 367

