

GZA GeoEnvironmental, Inc. Engineers and Scientists
 Cornwall BRS 0172(6)S Boring No.: B-202(OW)
 Cornwall, Vermont Page: 1 of 3
 File No.: 22721.3 Check: TAD

Contractor: NH Boring Auger/Casing: HW Sampler: SS
 Foreman: Bob Doherty Type: I.D.: 102mm 35mm
 Logged by: Jay Hodgkinson Date: 9/13/01 1730 PVC+1.73m deep well 4 hrs.
 Date Start/Finish: 9-13-01 / 9-17-01 Hammer Wt.: 136.1kg 63.5kg
 Boring Location: Sta. 0+800.3, 7 mL Hammer Fall: 0.76m 0.76m
 GS Elev.: 42.5+/- Datum: NAVD 88 Rig Type: CME 45

Depth (m)	Sample Information					Stratum Desc.	Remarks	Equipment Installed
	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value			
1							1	Attempted Shelby tube sample from 0.91 to 1.52m; no recovery.
2	S-1	0.61/0.33	1.83-2.44	push	0	ORGANIC SILT	2	VS: 3.7 kPa, vane tip at 1.98m (6.5 feet) Brown, ORGANIC SILT. (A-8)
3	U-1	0.61/0.33	3.05-3.66	push				Brown, ORGANIC SILT, with wood fragments. (A-8)
4	S-2	0.61/0.36	3.66-4.27	push				VS: 14.9 kPa, vane tip at 4.11m (13.5 feet) Brown ORGANIC SILT, with wood fragments and roots (25mm (1 inch) layer of gray, fine to medium SAND, some Silt in spoon tip). (A-8)
6	S-3	0.61/0.36	6.10-6.71	5-6 4-3	10	SAND		Medium dense, gray, fine SAND, some Silt, trace Gravel. (A-2-4)
8	S-4	0.61/0.38	7.62-8.23	8-8 5-5	13			Medium dense, gray, fine to medium SAND, little Silt. (A-3)

1. Change in wash color from brown to black with fragments of wood at 0.91m (3 feet).
 2. VS-vane shear test; split spoon sample was driven through soil disturbed by VS test.

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-202(OW)

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	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value			
9	S-5	0.61/0.51	9.14-9.75	9-5 7-15	12		3	Medium dense, gray, fine to medium SAND, trace Gravel, trace Silt. (A-3)
11	S-6	0.61/0.20	10.67-11.28	4-4 4-6	8		4	Loose, gray, fine to medium SAND, trace Gravel, trace Silt. (A-3)
12	S-7	0.61/0.08	12.19-12.80	5-5 4-4	9			Loose, gray, fine to medium SAND, trace Gravel, trace Silt. (A-3)
14	S-8	0.61/0.38	13.72-14.33	6-6 4-9	10	SAND		Loose, gray, fine SAND and Silt, trace Gravel. (A-4)
15	S-9	0.61/0.25	15.24-15.85	3-5 5-7	10			Loose, gray, fine SAND, some Silt, trace Gravel. (A-4)
17	S-10	0.61/0.28	16.76-17.37	8-13 13-11	26			Medium dense, gray, fine to coarse SAND, some Gravel, little Silt. (A-1-b)
18	S-11	0.61/0.13	18.29-18.90	10-18 26-30	44		5	Dense, gray, fine to coarse SAND, some Gravel, little Silt. (A-1-b)

3. Approximately 3.05m (10 feet) of "blow-in sand" when roller bit was inserted into borehole.
 4. Approximately 0.3m (1 foot) of "blow-in sand" in spoon.
 5. Water started to flow out of the casing between 16.76m (55 feet) and 18.29m (60 feet). Blow counts may be artificially high due to approximately 0.46m (18 inches) of "blow-in sand" in casing.

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	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value			
20	S-12	0.61/0.05	19.81-20.42	8-7 5-13	12			Medium dense, gray, fine to coarse SAND, some Silt, little Gravel. (A-2-4)
21	S-13	0.61/0.05	21.34-21.95	6-4 13-19	17	SAND	6	Medium dense, gray, fine to coarse SAND, some Gravel, little Silt. (A-1-b)
23	S-14	0.61/0.15	22.86-23.47	4-4 5-7	9			Loose, gray, fine to coarse SAND, some Gravel, little Silt. (A-1-b)
24	S-15	0.61/0.03	24.38-24.99	13-5 9-12	14			Medium dense, gray, fine to coarse SAND, some Gravel, some Silt. (A-2-4)
26	S-16	0.61/0.10	25.91-26.52	32-24 19-21	43	GLACIAL TILL	8	Dense, gray, fine to coarse SAND, some Gravel, some Silt. (A-2-4)
28	S-17	0.61/0.25	27.43-28.04	24-38 37-32	75		9	Very dense, gray, fine to coarse SAND, some Silt, little Gravel. (A-2-4)
28.04								Bottom of boring at 28.04m (92 feet) below ground surface. No refusal.

6. Approximately 0.20m (8 inches) of "blow-in-sand".
 7. Change in drilling at 23.77m (78 feet).
 8. 9/17/01: Wash down to 25.91m (85 feet); sampled 25.91m to 26.52m (85 to 87 feet).
 9/18/01: Measured 1.54m (60.5 inches) above ground surface of hydraulic head in casing.
 9. Water flowing out of hole at 25 gallon per minute.

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