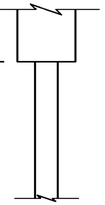
BOTTOM OF
ABUTMENT NO. 2
ELEVATION 681.00



GEODESIGN INCORPORATED
Geotechnical Engineers and Environmental Consultants
984 Southford Road
Middlebury, Connecticut 06762
Telephone: 203-758-8836 Fax: 203-758-8842

BORING LOG

Project Name: Mount Vernon Street Bridge (BHI), Newport, Vermont

Boring No.: B-201 | Page No.: 1 of 6 | File No.: 0750-005.6 | Checked By: JWK

Boring Company: VTRANS | Foreman: Glen Porter | GeoDesign Rep.: Ray Underwood | Date Started: Apr. 18, 2008 | Date Finished: April 23, 2008 | N. Coordinate: | E. Coordinate: | Ground Surface Elevation (feet): 660.7 | Station: 15+08 | Offset: 7.5 ft North

Casing: Type: HW/NW; I.D.: 4.0"/3.0" in. | Hammer Wt.: N/A; 140 lbs | Hammer Fall: N/A; 30 in. | Rig Type: CME 55 | Hammer Type: Auto

Sampler: SS; 1.38 in.

Groundwater Observations

Date	Depth (ft)	Elev. (ft)	Notes
4/18/08	9.8	650.9	
4/23/08	9.8	650.9	

Depth (ft)	Casing Blowsft	Sample Number	Sample Type	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (ft)	Blows / 6 inch Interval 0 - 6	6 - 12	12 - 18	18 - 24	Coring Time (min./ft)	Moisture Content (%)	Strata Description Depth & Elevation (feet)	Symbol	Sample Description Classification System: Burmister
													Asphalt 660.2		
													1.5 Concrete 658.7		
													3.5 Sand 657.2		Loose, brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, (wet)
5		1	SS	24	9	5.0	4	6	5	4					
10		2	SS	24	9	10.0	3	3	2	2					Loose, brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, (moist)
15		3	SS	24	3	15.0	2	3	1	3					Very loose, brown, fine to coarse SAND, little Silt, little fine Gravel, (moist)
20		4	SS	24	3	20.0	6	3	2	3					Loose, brown, fine to coarse SAND, some fine Gravel, little Silt, (moist)
25		5	SS	24	9	25.0	7	6	1	1					Loose, brown, fine to coarse SAND, some Silt, little fine Gravel, (moist)
30															

Remarks: Pilot hole from 0 to 4 feet drilled on 4/7/08 and backfilled with sand prior to drilling boring.
HW casing used from 0 to 2 feet; NW casing from approximately 2 feet to bottom of boring.

Notes: 1) Stratification lines represent approximate boundary between material types, transitions may be gradual.
2) 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. AC = After coring; NR = Not Recorded.
3) Abbreviations: A = Auger; C = Core; D = Driven; G = Grab; PS = Piston Sample; SS = Split Spoon; SSL = 3.5 Inch ID Split Spoon; ST = Shelby Tube; V = Vane; WOR/H = Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%

Boring No.: B-201

BORING LOG NO 12/19/03 750-005.6.GPJ GEODESIGN STANDARD .GDT 9/30/08

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BORING LOG

Project Name: Mount Vernon Street Bridge (BHI), Newport, Vermont

Boring No.: B-201 | Page No.: 2 of 6 | File No.: 0750-005.6 | Checked By: JWK

Boring Company: VTRANS | Foreman: Glen Porter | GeoDesign Rep.: Ray Underwood | Date Started: April 18, 2008 | Date Finished: April 23, 2008 | N. Coordinate: | E. Coordinate: | Ground Surface Elevation (feet): 660.7 | Station: 15+08 | Offset: 7.5 ft North

Casing: Type: HW/NW; I.D.: 4.0"/3.0" in. | Hammer Wt.: N/A; 140 lbs | Hammer Fall: N/A; 30 in. | Rig Type: CME 55 | Hammer Type: Auto

Sampler: SS; 1.38 in.

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4/23/08	9.8	650.9	

Depth (ft)	Casing Blowsft	Sample Number	Sample Type	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (ft)	Blows / 6 inch Interval 0 - 6	6 - 12	12 - 18	18 - 24	Coring Time (min./ft)	Moisture Content (%)	Strata Description Depth & Elevation (feet)	Symbol	Sample Description Classification System: Burmister
		6	SS	24	0	30.0	3	2	2	2			Sand (Continued)		No recovery
35		7	SS	24	0	35.0	19	6	3	16					No recovery
40		8	SS	24	6	40.0	2	2	1/12"						Very loose, brown, fine to coarse SAND, little Silt, trace fine Gravel, (moist)
45		9	SS	24	4	45.0	2	2	1	1					Very loose, brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, (moist)
50		10	SS	24	6	50.0	7	6	2	4			50.0 Silt 637.7		Loose, brown fine to medium SAND and SILT, some fine to coarse Gravel, (moist)
55		11	SS	24	1	55.0	8	3	8	10			60.0		Medium dense, gray SILT, little fine to coarse Sand, (wet)
60															

Remarks: Cobble encountered at approximately 37.8 feet.
Top of natural silt layer inferred at approximately 53 feet based on increased resistance on casing drilling advancement.

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4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%

Boring No.: B-201

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BORING LOG

Project Name: Mount Vernon Street Bridge (BHI), Newport, Vermont

Boring No.: B-201 | Page No.: 3 of 6 | File No.: 0750-005.6 | Checked By: JWK

Boring Company: VTRANS | Foreman: Glen Porter | GeoDesign Rep.: Ray Underwood | Date Started: April 18, 2008 | Date Finished: April 23, 2008 | N. Coordinate: | E. Coordinate: | Ground Surface Elevation (feet): 660.7 | Station: 15+08 | Offset: 7.5 ft North

Casing: Type: HW/NW; I.D.: 4.0"/3.0" in. | Hammer Wt.: N/A; 140 lbs | Hammer Fall: N/A; 30 in. | Rig Type: CME 55 | Hammer Type: Auto

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Depth (ft)	Casing Blowsft	Sample Number	Sample Type	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (ft)	Blows / 6 inch Interval 0 - 6	6 - 12	12 - 18	18 - 24	Coring Time (min./ft)	Moisture Content (%)	Strata Description Depth & Elevation (feet)	Symbol	Sample Description Classification System: Burmister
		12	SS	24	7	60.0	1	2	4	9			Sand 600.7		Loose, dark gray (white to black grains), fine to medium SAND, trace Silt, trace fine Gravel, (moist)
		13	SS	24	8	62.0	22	13	8	9			62.0 Silt 598.7		Medium dense, gray SILT, some fine to coarse Gravel, trace fine to coarse Sand, (moist)
65		14	SS	24	0	64.0	4	7	5	7					No recovery
		15	SS	24	0	66.0	5	6	5	7					No recovery
		16	SS	24	6	68.0	12	13	3	6					Medium dense, gray fine to coarse GRAVEL and SILT, little fine to coarse Sand, (wet)
70		17	SS	24	0	70.0	11	5	3	5					No recovery
		18	SS	24	12	72.0	12	5	3	3					Loose, gray SILT, some fine Sand, trace fine Gravel, (moist)
75		19	SS	24	8	74.0	3	6	6	5					Medium dense, gray SILT, some fine Sand, trace fine Gravel, (moist)
80		20	SS	24	13	80.0	4	6	6	7			85.0 Gravel 605.7		Medium dense, gray SILT, little fine to coarse Sand, trace fine Gravel, (moist)
85		21	SS	24	4	85.0	5	3	8	8					Medium dense, gray fine to coarse GRAVEL, some Silt, some fine to coarse Sand, (moist)
90															

Remarks:

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Boring No.: B-201

PROJECT NAME:	NEWPORT CITY
PROJECT NUMBER:	BRO 1449(25)
FILE NAME: 96J314/str/96J314bor.dgn	PLOT DATE: 22-NOV-2011
PROJECT LEADER: C. CARLSON	DRAWN BY: J. TOUCHETTE
DESIGNED BY: C. BENDA	CHECKED BY: C. BENDA
BORING LOG 5	SHEET 24 OF 75