



STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 CONSTRUCTION AND
 MATERIALS BUREAU
 CENTRAL LABORATORY

BORING LOG

Weybridge-New Haven
 BF 032-1(19)
 VT 17 Br. #8

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 12b552

Checked By: END

Boring Crew: Judkins, Gomes
 Date Started: 11/17/16 Date Finished: 11/18/16
 VTSPG NAD83: N 578941.50 ft E 1444182.82 ft
 Station: 103+88.00 Offset: -16.75
 Ground Elevation: 152.7 ft

Casing: WB Sampler: SS
 I.D.: 3 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: Diedrich 25 CE = Unknown

Groundwater Observations

Date	Depth (ft)	Notes
11/18/16		No W.T. observed

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
	x x x	Field Note:, Fill for drilling pad								
2.5		A-1-b, GrSa, brn, Dry, Rec. = 0.6 ft				1-1-3-4 (4)	11.5	42.7	44.2	13.1
5.0		A-1-b, SaGr, brn, Moist, Rec. = 1.4 ft				6-4-3-3 (7)	7.4	48.8	32.5	18.7
7.5		A-4, GrSiSa, brn, Moist, Rec. = 1.3 ft				3-4-3-3 (7)	12.2	25.4	37.5	37.1
10.0		A-2-4, GrSiSa, brn, Moist, Rec. = 0.8 ft				18-48-7-18 (55)	10.3	28.0	41.8	30.2
10.0		A-1-a, Gr, brn, Moist, Rec. = 0.7 ft, Lab Note: A lot of broken rock was within sample				3-47-R@5" (R)	9.0	76.8	15.9	7.3
12.5		11.4 ft - 14.4 ft, No Recovery. BX	1 (0)	0 (0)	8					
					5					
					6					
15.0		14.4 ft - 16.4 ft, Blue gray to gray, DOLOMITE, with calcite veins. Faint yellowish-orange staining on joints.. Hard, Very slightly weathered, Poor rock, BX, RMR=33	2 (55)	60 (0)	7					
					7					
17.5		16.4 ft - 18.4 ft, Blue gray, DOLOMITE, with calcite veins. Brownish-yellow/orange staining on joints.. Hard, Very slightly weathered, Poor rock, BX, RMR=27	3 (55)	45 (0)	7					
					8					
20.0		Hole stopped @ 18.4 ft								
22.5		Remarks: Hole collapsed at 0.0 feet.								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 <<SUB>><<SUB>> is the hammer energy correction factor.
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.



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BORING LOG

Weybridge-New Haven
 BF 032-1(19)
 VT 17 Br. #8

Boring No.: **B-102**

Page No.: 1 of 1

Pin No.: 12b552

Checked By: END

Boring Crew: Judkins, Gomes
 Date Started: 10/31/16 Date Finished: 11/01/16
 VTSPG NAD83: N 578925.65 ft E 1444195.78 ft
 Station: 103+91.00 Offset: 5.00
 Ground Elevation: 153.3 ft

Type: WB Casing SS Sampler
 I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 55 TRACK CE = 1.41

Groundwater Observations		
Date	Depth (ft)	Notes
11/01/16	15.3	W.T. Before Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0		Asphalt Pavement, 0.0 ft - 1.0 ft										
1.0		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft Field Note:, Rollercone, cleaned out casing.				15-13-26-15 (39)	6.4	54.6	33.7	11.7		
2.0		A-2-4, SiSaGr, brn, Moist, Rec. = 1.1 ft Field Note:, Rollercone, cleaned out casing.				12-14-9-14 (23)	8.6	40.9	31.4	27.7		
3.0		Field Note:, No Recovery, Rec. = 0.0 ft				3-5-4-4 (9)						
4.0		A-1-b, SiSaGr, brn, Moist, Rec. = 0.8 ft Field Note:, Rollercone, cleaned out casing.				2-4-8-7 (12)	10.2	46.0	31.9	22.1		
5.0		A-1-b, SiGrSa, brn, Moist, Rec. = 0.6 ft				6-5-6-13 (11)	9.3	36.7	38.5	24.8		
6.0		A-2-4, GrSiSa, brn, Moist, Rec. = 0.7 ft, Lab Note: A few pieces of wood and sticks were within sample. Field Note:, NXDC, cleaned out casing.				23-21-4-3 (25)	18.3	24.4	45.5	30.1		
7.0		A-4, Cisi, gry, Moist, Rec. = 1.3 ft, Lab Note: Pieces of decomposing wood were within sample. Field Note:, NXDC, cleaned out casing.				5-4-3-4 (7)	27.8	1.9	30.9	67.2	28	8
8.0		A-2-4, SiGr, gry-red, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample. Insufficient sample size to perform Atterberg Limit testing. Similar to 13-15 FT sample.				18-2-5 (R)	17.8	60.4	11.8	27.8		
15.0		15.7 ft - 20.7 ft, Blue gray to black, Interbedded META-LIMESTONE, and DOLOMITE with calcite veins. Calcite coating and brown staining on joints. Hard, Slightly weathered, Good rock, NX, RMR=69	R-1 (40)	100 (100)	5							
20.0		20.7 ft - 25.7 ft, Blue gray to black, Interbedded META-LIMESTONE, DOLOMITE, and SHALE. Hard, Unweathered, Fair rock, NX, RMR=49	R-2 (40-45)	100 (62)	7							
25.0		Hole stopped @ 25.7 ft										
30.0		Remarks: Hole collapsed at 7.3 feet.										

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BORING LOG

Weybridge-New Haven
 BF 032-1(19)
 VT 17 Br. #8

Boring No.: **B-103**

Page No.: 1 of 1

Pin No.: 12b552

Checked By: END

Boring Crew: Gomes, Judkins, Emerson
 Date Started: 11/08/16 Date Finished: 11/14/16
 VTSPG NAD83: N 578914.02 ft E 1444199.23 ft
 Station: 103+88.00 Offset: 16.75
 Ground Elevation: 151.7 ft

Casing: WB Sampler: SS
 I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 55 TRACK CE = 1.41

Groundwater Observations		
Date	Depth (ft)	Notes
11/14/16	14.8	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
	x x x	Field Note:, Fill for drilling pad								
	x x x									
	x x x									
	x x x									
5	[Cross-hatched]	Field Note:, No Recovery				1-3-2-2 (5)				
	[Cross-hatched]	Field Note:, No Recovery				4-3-4-6 (7)				
	[Cross-hatched]	Field Note:, NXDC, Cleaned out casing								
	[Dotted]	A-2-4, SiSa, brn, Moist, Rec. = 0.7 ft				5-3-3-3 (6)	11.5	19.1	47.2	33.7
	[Dotted]	Field Note:, NXDC, Cleaned out casing								
10	[Dotted]	A-2-4, SiGrSa, brn, Moist, Rec. = 0.5 ft				6-4-5-3 (9)	12.8	30.1	45.3	24.6
	[Dotted]	Field Note:, Rollercone, Cleaned out casing								
	[Diagonal lines]	A-4, SaSi, brn, Moist, Rec. = 0.1 ft				3-2-3-2 (5)	32.2	0.5	21.3	78.2
	[Diagonal lines]	A-4, SaGrSi, brn, Moist, Rec. = 0.5 ft				5-11-R@1" (R)	19.6	38.7	22.3	39.0
15	[Block pattern]	14.9 ft - 19.9 ft, Blue gray, DOLOMITE, with calcite veins. Yellow and tan staining along joints.. Hard, Slightly weathered, Fair rock, NX, RMR=49	1 (40)	100 (38)	5					
	[Block pattern]				4					
	[Block pattern]				4					
	[Block pattern]				4					
	[Block pattern]				3					
20	[Block pattern]	19.9 ft - 24.9 ft, Blue gray, DOLOMITE, with calcite veins. Calcite crystals along joints with tan staining. Hard, Very slightly weathered, Good rock, NX, RMR=62	2 (50)	94 (72)	13					
	[Block pattern]				9					
	[Block pattern]				7					
	[Block pattern]				6					
	[Block pattern]				5					
25		Hole stopped @ 24.9 ft								
		Remarks: Hole collapsed at 7.0 feet.								

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BORING LOG

Weybridge-New Haven
 BF 032-1(19)
 VT 17 Br. #8

Boring No.: **B-104**

Page No.: 1 of 1

Pin No.: 12b552

Checked By: END

Boring Crew: Judkins, Emerson
 Date Started: 11/14/16 Date Finished: 11/16/16
 VTSPG NAD83: N 578918.32 ft E 1444211.80 ft
 Station: 104+1.00 Offset: 19.50
 Ground Elevation: 150.3 ft

Casing: WB Sampler: SS
 Type: WB I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 55 TRACK CE = 1.41

Groundwater Observations		
Date	Depth (ft)	Notes
11/15/16	16.4	W.T. Before Drilling
11/16/16	11.9	W.T. Before Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-5	x x x	Field Note:, Fill for Pad								
5-6	x x x	Field Note:, NXDC, Cleaned out casing								
6-7	Diagonal lines	Field Note:, No Recovery				2-2-2-1 (4)				
7-8	Diagonal lines	Field Note:, No Recovery				1-1-1-2 (2)				
8-9	Diagonal lines	Field Note:, NXDC, Cleaned out casing								
9-10	Stippled	A-1-b, SiSaGr, brn, Moist, Rec. = 0.7 ft				4-4-5-4 (9)	9.3	40.3	36.1	23.6
10-11	Diagonal lines	Field Note:, NXDC, Cleaned out casing								
11-12	Diagonal lines	A-2-4, GrSiSa, brn, Moist, Rec. = 0.8 ft				5-3-3-7 (6)	10.1	28.5	39.0	32.5
12-13	Diagonal lines	Field Note:, NXDC, Cleaned out casing								
13-14	Diagonal lines	Field Note:, No Recovery				9-7-8-5 (15)				
14-15	Diagonal lines	Field Note:, NXDC, Cleaned out casing								
15-16	Diagonal lines	A-4, GrSiSa, gry, Moist, Rec. = 1.0 ft				5-3-3-3 (6)	12.2	21.3	39.9	38.8
16-17	Diagonal lines	Field Note:, No Recovery				4-3-4-3 (7)				
17-18	Diagonal lines	A-4, SaSiGr, gry-blk, Moist, Rec. = 0.5 ft				5-5-R@0"	14.0	41.0	22.6	36.4
18-20	Block pattern	19.0 ft - 24.0 ft, Blue gray, DOLOMITE, with calcite veins. Calcite crystals along joint surfaces. Hard, Severely to moderately weathered, Fair rock, NX, RMR=56	1 (70)	94 (60)	17	(R) Top of Bedrock @ 19.0 ft				
20-21	Block pattern				14					
21-22	Block pattern				15					
22-23	Block pattern				11					
23-24	Block pattern				10					
24-25		Hole stopped @ 24.0 ft								
25		Remarks: Hole collapsed at 0.0 feet.								

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BORING LOG

Weybridge-New Haven
 BF 032-1(19)
 VT 17 Br. #8

Boring No.: B-105
 Page No.: 1 of 1
 Pin No.: 12b552
 Checked By: END

Boring Crew: Garrow, Emerson
 Date Started: 11/04/16 Date Finished: 11/07/16
 VTSPG NAD83: N 578939.28 ft E 1444199.11 ft
 Station: 105+0.85 Offset: -5.00
 Ground Elevation: 153.7 ft

Type: WB Casing SS Sampler
 I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 55 TRACK CE = 1.41

Groundwater Observations		
Date	Depth (ft)	Notes
11/07/16		No W.T. to depth

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 1.15 ft								
		A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft				11-10-11-12 (21)	5.7	58.8	31.8	9.4
		Field Note:, Rollercone, Cleaned out casing								
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft				8-11-9-7 (20)	5.4	54.0	30.6	15.4
		Field Note:, Rollercone, Cleaned out casing								
5		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft				6-6-4-6 (10)	5.1	68.7	23.2	8.1
		Field Note:, Rollercone, Cleaned out casing								
		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft				3-6-7-6 (13)	5.8	62.1	26.0	11.9
		Field Note:, Rollercone, Cleaned out casing								
		Field Note:, No Recovery				7-6-3-8 (9)				
10		Field Note:, Rollercone, Cleaned out casing								
		A-1-b, SaGr, brn, Moist, Rec. = 0.4 ft				5-12-9-6 (21)	8.3	48.1	32.5	19.4
		Field Note:, NXDC, Cleaned out casing								
		Field Note:, No Recovery				2-5-4-3 (9)				
15		Field Note:, NXDC, Cleaned out casing								
		A-1-b, Gr, brn-gry, Moist, Rec. = 0.3 ft				4- (R) op of Bedrock @ 15.8 ft	9.0	64.2	18.1	17.7
		15.8 ft - 19.8 ft, Blue gray, DOLOMITE, with calcite veins. Rust and tan staining along joints. Hard, Slightly weathered, Poor rock, NX, RMR=40	1 (45-55)	72 (36)	4					
					3					
					4					
					4					
20		19.8 ft - 20.8 ft, Blue gray, DOLOMITE, with calcite veins. Tan staining along joints. Hard, Very slightly weathered, Poor rock, NX, RMR=39	2 (45)	20 (35)	3					
					4					
		20.8 ft - 25.8 ft, Blue gray, DOLOMITE, with calcite veins. Faint tan and brown staining along joints. Hard, Very slightly weathered, Fair rock, NX, RMR=49	100 (45-50)	100 (34)	4					
					3					
					4					
25					3					
					4					
		Hole stopped @ 25.8 ft								
		Remarks: Hole collapsed at 5.5 feet.								
30										

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BORING LOG

Weybridge-New Haven
 BF 032-1(19)
 VT 17 Br. #8

Boring No.: B-106
 Page No.: 1 of 1
 Pin No.: 12b552
 Checked By: END

Boring Crew: Judkins, Gomes
 Date Started: 11/02/16 Date Finished: 11/04/16
 VTSPG NAD83: N 578960.25 ft E 1444190.48 ft
 Station: 104+4.18 Offset: -27.43
 Ground Elevation: 144.8 ft

Casing: WB Sampler: SS
 I.D.: 3 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: Diedrich 25 CE = Unknown

Groundwater Observations		
Date	Depth (ft)	Notes
11/04/16		No W.T. observed

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		A-1-b, SiSaGr, brn, Dry, Rec. = 0.9 ft, Lab Note: Sticks and twigs were within sample				2-2-4-4 (6)	8.1	41.7	37.7	20.6
		A-1-b, SiSaGr, brn, MTD, Rec. = 1.4 ft, Lab Note: Broken rock was within sample				6-5-14-22 (19)	16.0	42.6	33.8	23.6
		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft				8-18-14-49 (32)	11.8	66.6	21.3	12.1
6.0 - 11.0		6.0 ft - 11.0 ft, Blue gray, DOLOMITE, with quartz and calcite veins. Brown, orange, and rust staining along joints. Hard, Slightly weathered, Fair rock, BX, RMR=48	1 (70)	86 (50)	8					
11.0 - 16.0		11.0 ft - 16.0 ft, Blue gray, DOLOMITE, with calcite veins. Yellowish-orange staining along joints. Hard, Slightly weathered, Poor rock, BX, RMR=40	2 (70)	32 (0)	11					
Hole stopped @ 16.0 ft										
17.5		Remarks: Hole collapsed at 4.0 feet.								
20.0										

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BORING LOG - Z WEYBRIDGE-NEW HAVEN BF032-1(19).GPJ - VERMONT - AOT.GDT 1/30/17



STATE OF VERMONT
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BORING LOG

Weybridge-New Haven
 BF 032-1(19)
 VT 17 Br. #8

Boring No.: **B-107A**
 Page No.: 1 of 1
 Pin No.: 12b552
 Checked By: END

Boring Crew: Gomes, Judkins, Olden
 Date Started: 12/06/16 Date Finished: 12/07/16
 VTSPG NAD83: N 578973.13 ft E 1444279.24 ft
 Station: 104+87.00 Offset: 7.00
 Ground Elevation: 155.1 ft

Casing: WB Sampler: SS
 I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID CE = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
12/07/17	20.4	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0		Asphalt Pavement, 0.0 ft - 0.1 ft								
0.1		Concrete, 0.1 ft - 1.25 ft, (Bridge Deck)								
5										
10										
15										
20		Field Note:, Top of Water								
21.9		Concrete, 21.9 ft - 24.5 ft, (Footing)								
24.5		24.5 ft - 29.5 ft, Blue gray, Interbedded META-LIMESTONE, and DOLOMITE with calcite veins. Faint orange/yellow staining along joints. Hard, Very slightly weathered, Fair rock, NX, RMR=48	1 (50)	84 (61)	7	Top of Bedrock @ 24.5 ft				
29.5		29.5 ft - 34.5 ft, Dark-gray to black, Interbedded calcareous-sulfidic-SHALE, and DOLOMITE with calcite veins. Sub-vertical joint from 29.5 feet to 30.2 feet. Faint rust and brown/gray coating on joints.. Moderately hard to hard, Slightly weathered, Fair rock, NX, RMR=50	2 (60)	84 (83)	6					
34.5		Hole stopped @ 34.5 ft								
		Remarks: 1. Backfilled hole with cement grout to top of footing.								

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BORING LOG - 2 WETBRIDGE-NEW HAVEN BF032-1(19).GPJ - VERMONT DOT - GDT 12/07/17



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BORING LOG

Weybridge-New Haven
 BF 032-1(19)
 VT 17 Br. #8

Boring No.: B-108A
 Page No.: 1 of 1
 Pin No.: 12b552
 Checked By: END

Boring Crew: Garrow, Judkins, Olden
 Date Started: 12/20/16 Date Finished: 12/21/16
 VTSPG NAD83: N 579019.09 ft E 1444328.91 ft
 Station: 106+53.20 Offset: -7.00
 Ground Elevation: 156.2 ft

Casing: WB Sampler: SS
 Type: WB I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID CE = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
12/21/17	7.4	W.T. above ground

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.15	Asphalt Pavement	Asphalt Pavement, 0.0 ft - 0.15 ft								
0.15 - 1.3	Concrete	Concrete, 0.15 ft - 1.3 ft, (Bridge Deck)								
27.5 - 28.5		27.5 ft - 28.5 ft, Gray, /dark gray DOLOMITE, with calcite veins and rare pyrite. Faint rust staining on joints. Moderately hard, Very slightly weathered, Fair rock, NX, RMR=46	1 (50)	70 (50)	15					
28.5 - 32.5		28.5 ft - 32.5 ft, Gray, DOLOMITE, with calcite veins and rare pyrite. Moderately hard, Unweathered, Good rock, NX, RMR=69	2 (40-50)	98 (95)	7					
32.5 - 37.5		32.5 ft - 37.5 ft, Dark-gray to black, Interbedded DOLOMITE, with calcite veins and pyrite and sulfidic SHALEY-DOLOMITE with calcite veins. Yellow and gray staining along joints. Sub-vertical weathered joint at 8.9 feet to 9.5 feet. Moderately hard, Slightly weathered, Fair rock, NX, RMR=44	3 (60-70)	98 (57)	5					
Hole stopped @ 37.5 ft										

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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BORING LOG

Weybridge-New Haven
BF 032-1(19)
VT 17 Br. #8

Boring No.: **B-112**

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Pin No.: 12b552

Checked By: END



BORING LOG

Weybridge-New Haven
BF 032-1(19)
VT 17 Br. #8

Boring No.: **B-112**

Page No.: 2 of 2

Pin No.: 12b552

Checked By: END

Boring Crew: <u>Judkins, Gomes</u>	Type: <u>WB</u>	Casing: <u>WB</u>	Sampler: <u>SS</u>	Groundwater Observations		
Date Started: <u>10/25/16</u> Date Finished: <u>10/27/16</u>	I.D.: <u>4 in</u>	<u>4 in</u>	<u>1.5 in</u>	Date	Depth (ft)	Notes
VTSPG NAD83: <u>N 579052.12 ft E 1444409.05 ft</u>	Hammer Wt: <u>N.A.</u>	<u>140 lb.</u>	<u>30 in.</u>	10/26/16	22.6	W.T. Before Drilling
Station: <u>106+38.98</u> Offset: <u>5.65</u>	Hammer/Fall: <u>N.A.</u>	<u>30 in.</u>	<u>Auto/AWJ</u>	10/27/16	22.6	W.T. Before Drilling
Ground Elevation: <u>156.6 ft</u>	Rig: <u>CME 45C SKID</u>	<u>CE = 1.42</u>				

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Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		Asphalt Pavement, 0.0 ft - 1.3 ft								
5		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft, Lab Note: Some asphalt pavement was within sample. Field Note: NXDC, cleaned out casing.				7-12-15 (19)	7.7	66.3	27.4	6.3
		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft Field Note: NXDC, cleaned out casing.				7-6-9-8 (15)	7.6	58.4	29.4	12.2
		A-4, GrSaSi, brn, Moist, Rec. = 1.0 ft Field Note: Rollercone, cleaned out casing.				8-6-4-4 (10)	9.9	20.7	35.3	44.0
		A-2-4, SiSaGr, brn, Moist, Rec. = 0.6 ft Field Note: NXDC, cleaned out casing.				4-11-6-5 (17)	16.0	37.1	32.3	30.6
10		A-4, SaSi, brn, Moist, Rec. = 0.9 ft				6-6-4-7 (10)	12.3	16.8	39.1	44.1
		A-4, SaSi, brn, Moist, Rec. = 1.0 ft Field Note: NXDC, cleaned out casing.				4-3-3-2 (6)	10.8	15.7	38.6	45.7
		A-4, GrSaSi, brn, Moist, Rec. = 0.8 ft				2-1-2-4 (3)	11.2	22.2	35.4	42.4
15		Field Note: NXDC, cleaned out casing.								
		A-4, GrSaSi, brn, Moist, Rec. = 0.9 ft				4-2-3-4 (5)	10.5	24.4	35.0	40.6
		A-4, SaSi, gray, Moist, Rec. = 1.0 ft, Lab Note: A very small amount of clay was within sample. Sample tested Non-Plastic.				3-2-1-3 (3)	11.9	19.6	35.1	45.3
20		A-4, GrSaSi, gray, Moist, Rec. = 0.6 ft				4-1-2-3 (3)	10.9	23.3	34.9	41.8
25		Field Note: Rollercone, cleaned out casing. Field Note: No Recovery				2-1-2-1 (3)				
		Field Note: Pushed 3"x30" Shelby Tube, No Recovery								
30		30.0 ft - 32.0 ft				2-1-2-6 (3)				
		A-4, GrSaSi, gry-brn, Moist, Rec. = 1.2 ft, Lab Note: Pieces of decomposing wood were within sample. Sample tested Non-Plastic.				15-16-11-16 (27)	22.4	26.4	30.2	43.4
35		Field Note: NXDC, cleaned out casing.								
		35.0 ft - 37.0 ft				10-8-7-4 (15)				
40		Field Note: Rollercone, cleaned out casing. Field Note: No Recovery				1-1-1-1 (2)				
		Field Note: Pushed 3"x30" Shelby Tube, No Recovery								

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50		A-4, SaSi, gray, Moist, Rec. = 1.9 ft, Lab Note: A small amount of clay was within sample. Sample tested Non-Plastic.				3-2-2-3 (4)	10.9	16.8	33.5	49.7
		Field Note: Rollercone, cleaned out casing.								
		A-2-4, SiSaGr, gray, Moist, Rec. = 0.5 ft, Lab Note: A very small amount of clay was within sample. Sample tested Non-Plastic.				3-1-2-3 (3)	10.1	36.2	34.3	29.5
55		Field Note: NXDC, cleaned out casing. Field Note: No Recovery				7-6-7-10 (13)				
60		Field Note: NXDC, cleaned out casing.								
		A-4, SaSi, gray, Moist, Rec. = 1.8 ft, Lab Note: Some clay was within sample. Sample tested Non-Plastic.				15-22-35-R@4"	8.0	15.3	31.7	53.0
65		62.3 ft - 67.3 ft, Light gray/gray to black, Interbedded META-LIMESTONE, and DOLOMITE with calcite veins. Faint brown staining on joints. Hard, Unweathered, Poor rock, NX, RMR=34	R-1 (40)	92 (0)	4					
					4					
					10					
					4					
70		67.3 ft - 72.3 ft, Light gray/gray to black, Interbedded META-LIMESTONE, and DOLOMITE with calcite veins. Faint brown and yellow staining on joints. Hard, Unweathered, Good rock, NX, RMR=64	R-2 (40)	98 (89)	4					
					4					
					4					
					4					
75		Hole stopped @ 72.3 ft								
		Remarks: Hole collapsed at 8.9 feet.								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. <<SUB>><<SUB>> is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

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BORING LOG 2 WEYBRIDGE-NEW HAVEN BF032-1(19).GPJ VERMONT AOT.GDT 1/30/17



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BORING LOG

Weybridge-New Haven
BF 032-1(19)
VT 17 Br. #8

Boring No.: **B-113**
 Page No.: 1 of 1
 Pin No.: 12b552
 Checked By: AJT

Boring Crew: Judkins, Emerson
 Date Started: 11/28/16 Date Finished: 11/30/16
 VTSPG NAD83: N 579097.12 ft E 1444498.90 ft
 Station: 107+40.40 Offset: 3.76
 Ground Elevation: 157.4 ft

Type: WB SS
 I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 55 TRACK CE = 1.41

Groundwater Observations		
Date	Depth (ft)	Notes
11/30/16	4.0	W.T. during drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0 - 0.85		Asphalt Pavement, brn, Moist, 0.0 ft - 0.85 ft							
0.85 - 1.4		A-1-b, SaGr, brn, Moist, Rec. = 0.6 ft	9-19-14 (38)	6.1	47.5	35.7	16.8		
1.4 - 2.0		A-2-4, SiGrSa, brn, Moist, Rec. = 1.4 ft	9-6-5-5 (11)	9.9	34.0	40.7	25.3		
2.0 - 2.5		A-2-4, GrSiSa, brn, Moist, Rec. = 0.5 ft	7-6-5-6 (11)	9.5	25.2	43.3	31.5		
2.5 - 2.8		A-4, SiSa, brn, Moist, Rec. = 0.3 ft	5-4-6-10 (10)	11.5	18.7	42.6	38.7		
2.8 - 3.8		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft	7-5-8-6 (13)	11.7	19.9	45.4	34.7		
3.8 - 4.2		Field Note:, No Recovery	10-10-10-8 (20)						
4.2 - 4.7		Field Note:, No Recovery	7-2-2-1 (4)						
4.7 - 5.4		A-4, Si, gry, Moist, Rec. = 0.7 ft, Lab Note: Some clay was within sample. Sample tested non-plastic	7-5-4-5 (9)	32.2	0.7	8.7	90.6		
5.4 - 5.7		Visual Description:, Si, gry, Moist, Field Note: Pushed 3x30 inch Shelby Tube							
5.7 - 6.3		A-6, SiCl, gry, Moist, Field Note: Pushed 3x30 inch Shelby Tube		27.5		6.7	93.3	40	18
6.3 - 8.3									
8.3 - 10.3		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic	WH-WH-WH-WH (WH)	28.3		16.2	83.8		
10.3 - 11.2		A-4, GrSaSi, gry, Moist, Rec. = 0.9 ft	1-10-14-19 (24)	13.3	25.2	33.0	41.8		
11.2 - 12.0		A-2-4, Sa, gry-blk, Moist, Rec. = 0.8 ft		16.0	8.3	72.5	19.2		
12.0 - 32.0		Hole stopped @ 32.0 ft							
32.0 - 35.0		Remarks: Hole collapsed at 5.7 feet.							

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BORING LOG

Weybridge-New Haven
BF 032-1(19)
VT 17 Br. #8

Boring No.: **B-114**
 Page No.: 1 of 1
 Pin No.: 12b552
 Checked By: AJT

Boring Crew: Judkins, Gomes
 Date Started: 11/30/16 Date Finished: 11/30/16
 VTSPG NAD83: N 579123.92 ft E 1444595.68 ft
 Station: 108+41.61 Offset: 4.00
 Ground Elevation: 160.0 ft

Type: WB SS
 I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 55 TRACK CE = 1.41

Groundwater Observations		
Date	Depth (ft)	Notes
11/30/16	7.5	W.T. during drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0 - 0.53		Asphalt Pavement, 0.0 ft - 0.53 ft							
0.53 - 1.5		Reclaimed Stabilised Base, 0.53 ft - 1.5 ft							
1.5 - 0.8		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft	11-9-8 (20)	6.6	44.1	45.2	10.7		
0.8 - 1.2		A-4, GrSiSa, brn, Moist, Rec. = 1.2 ft	5-6-4-4 (10)	13.9	20.7	42.2	37.1		
1.2 - 1.8		A-2-4, SiGrSa, brn, Moist, Rec. = 1.8 ft	6-12-7-8 (19)	8.2	29.5	43.8	26.7		
1.8 - 1.2		A-2-4, GrSiSa, brn, Moist, Rec. = 1.2 ft	4-4-7-10 (11)	8.4	25.8	43.6	30.6		
1.2 - 10		Field Note: Rollercone, cleaned out casing							
10 - 0.6		Field Note: No Recovery	11-9-5-4 (14)						
0.6 - 0.3		A-1-b, SaGr, brn, Moist, Rec. = 0.6 ft	4-3-8-6 (11)	9.9	40.3	40.0	19.7		
0.3 - 15		Field Note: NXDC, cleaned out casing							
15 - 0.3		A-2-4, GrSiSa, gry, Moist, Rec. = 0.3 ft	7-1-1-2 (2)	11.3	23.5	45.7	30.8		
0.3 - 15		Field Note: NXDC, cleaned out casing							
15 - 1.9		Field Note: No Recovery	4-5-9-10 (14)						
1.9 - 20		Field Note: Rollercone, cleaned out casing							
20 - 1.7		A-7-6, Cl, gry, Moist, Rec. = 1.7 ft	3-6-9-13 (15)	31.8	0.7	2.3	97.0	54	29
1.7 - 2.0		A-6, SiCl, brn-gry, Moist, Rec. = 2.0 ft	2-3-5-7 (8)	34.8	4.0	8.7	87.3	31	14
2.0 - 30		A-4, GrSaSi, gry, Moist, Rec. = 2.0 ft, Lab Note: Some clay was within sample. Sample tested non-plastic	4-4-7-8 (11)	10.8	22.4	33.0	44.6		
30 - 32.0	Hole stopped @ 32.0 ft								
32.0 - 35	Remarks: Hole collapsed at 6.5 feet.								

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