



STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH SECTION  
SUBSURFACE INFORMATION

BORING LOG

ROCHESTER  
BHF 0162 (17)  
VT-73 BR-16

Boring No.: B-101  
Page No.: 1 of 1  
Pin No.: 85E035  
Checked By: NSM

Boring Crew: SALISBURY, GARROW  
Date Started: 4/06/12 Date Finished: 4/06/12  
VTSPG NAD83: N 491676.92 ft E 1548162.92 ft  
Station: 3+69.65 Offset: -6.40  
Ground Elevation: 952.7 ft

Casing Type: 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 TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Same day drilling.
		None Taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
		Asphalt Pavement, 0.0 ft - 1.0 ft									
5		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft, Broken Rock was within sample. NXDC				8-17-22-14 (39)	10.7	60.6	26.9	12.5	
		A-1-b, GrSa, brn, Moist, Rec. = 0.6 ft, Broken Rock was within sample.				6-3-20-10 (23)	14.1	36.0	45.9	18.1	
		Field Note:, NXDC, Cobbles									
10		A-1-a, SaGr, brn, Wet, Rec. = 0.4 ft, Broken Rock was within sample. Lost water at 10.0 ft.				4-7-7-8 (14)	14.4	57.2	29.2	13.6	
		Field Note:, NXDC, Cobbles									
15		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft, Broken Rock (Cobbles) were within sample.				26-36-20-14 (56)	11.2	50.0	35.5	14.5	
		Field Note:, NXDC, Cobbles									
20		16.5 ft - 21.5 ft, Light-greenish-gray to pale-green, chlorite-muscovite-quartz Phyllite, with some quartz beds and pyrite. Moderately soft, Fair rock, NXMDC, Moderately weathered from 18.2' to 20.1'. Remainder of core run unweathered. RMR = 44	1 (65)	92 (32)	4						
					3						
					2						
					2						
					2						
Hole stopped @ 21.5 ft											

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. 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 LOG 2 ROCHESTER BHF 0162(17) GPJ VERMONT AOT.GDT 4/30/12



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BORING LOG

ROCHESTER  
BHF 0162 (17)  
VT-73 BR-16

Boring No.: B-102

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Pin No.: 85E035

Checked By: NSM

Boring Crew: SALISBURY, GARROW  
Date Started: 4/10/12 Date Finished: 4/10/12  
VTSPG NAD83: N 491666.19 ft E 1548173.68 ft  
Station: 3+78.26 Offset: 6.12  
Ground Elevation: 952.7 ft

Casing Type: 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 TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Same day drilling.
		None Taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 1.0 ft								
		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft, NXDC				9-12-6-4 (18)	7.5	47.6	40.2	12.2
		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft, NXDC				4-3-2-4 (5)	12.9	48.5	42.3	9.2
5		A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft, NXDC				3-2-1-1 (3)	15.8	43.3	48.7	8.0
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft				9-5-6-15 (11)	14.0	40.1	51.8	8.1
10		Field Note:, NXDC, Cobbles								
		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft, Lots of Broken Rock was within sample.				5-7-18-22 (25)	12.8	58.3	22.0	19.7
15		A-2-4, SaSiGr, brn, Moist, Rec. = 1.4 ft, Lots of Broken Weathered Rock.				19-16-35-R@3.5" (51)	13.8	48.9	22.6	28.5
		18.0 ft - 19.0 ft, White, Quartzite, Very hard, Slightly weathered, Poor rock, NXMDC, RMR = 39	1 (50)	50 (0)	3					
		19.0 ft - 23.0 ft, Light-greenish-gray to pale-green, chlorite-muscovite-quartz Phyllite, with some quartz beds. Moderately soft, Slightly to moderately weathered, Poor rock, NXMDC, RMR = 39	2 (50)	100 (0)	3					
20					4					
					7					
					6					
		23.0 ft - 28.0 ft, Light-greenish-gray to pale-green, chlorite-muscovite-quartz Phyllite, with some quartz beds. Moderately soft, Unweathered, Fair rock, NXMDC, RMR = 44	3 (50)	84 (46)	3					
25					3					
					4					
					4					
					4					
					4					
30		Hole stopped @ 28.0 ft								

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2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. 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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BORING LOG

ROCHESTER  
BHF 0162 (17)  
VT-73 BR-16

Boring No.: B-103

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Pin No.: 85E035

Checked By: NSM

Boring Crew: SALISBURY, GARROW  
Date Started: 4/04/12 Date Finished: 4/06/12  
VTSPG NAD83: N 491686.40 ft E 1548209.96 ft  
Station: 4+17.69 Offset: -6.91  
Ground Elevation: 952.9 ft

Casing: WB  
Sampler: SS  
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 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Same day drilling.
		None Taken

Depth (ft)	Strata (i)	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 - 1.0		Asphalt Pavement, 0.0 ft - 1.0 ft								
0.7 - 1.4		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft				11-40-R@3.5"	9.0	58.3	32.6	9.1
1.4 - 2.1		Field Note:, NXDC, Cobbles								
2.1 - 2.8		Lab Note, Broken Rock (Cobbles) were within sample. NXDC., brn, Moist, Rec. = 0.7 ft				7-4-3-2 (7)	12.4	60.0	33.2	6.8
2.8 - 3.5		A-1-a, SaGr, brn, Wet, Rec. = 0.4 ft				3-14-2-1 (16)	19.9	49.6	34.0	16.4
3.5 - 4.2		Field Note:, Broken Rock (Cobbles) were within sample. NXDC., brn, Moist, Rec. = 0.5 ft				5-13-11-6 (24)	12.7	65.9	21.2	12.9
4.2 - 4.9		Visual Description:, Mostly Broken Rock with some weathering, grn, Moist, Rec. = 0.3 ft, Insufficient sample for testing. NXDC.				22-R@4.5"				
4.9 - 5.6		Field Class:, NXDC, Decayed rock								
5.6 - 6.3		Visual Description:, Broken Rock with sand, brn, Moist, Rec. = 0.3 ft, Insufficient sample for testing.				3-6-9-12 (15)				
6.3 - 7.0		Lab Note, Broken Rock (Cobbles) were within sample. NXDC., brn, Moist, Rec. = 1.5 ft				15-25-22-22 (47)	9.2	39.4	42.2	18.4
7.0 - 7.7		Lab Note, Very Weathered & soft rock., gry, Moist, Rec. = 1.3 ft				13-13-14-11 (27)	9.9	50.8	35.0	14.2
7.7 - 8.4		Lab Note, Very Weathered & soft rock., gry, Moist, Rec. = 0.5 ft				2-13-R@3.5"	11.3	44.4	36.4	19.2
18.3 - 21.3		18.3 ft - 21.3 ft, Light-greenish-gray to lustrous pale-green, chlorite-muscovite-quartz Phyllite, with some quartz beds. Moderately soft, Unweathered, Fair rock, NXMDC, RMR = 49	1 (65)	100 (53)	4	Top of Bedrock @ 18.3 ft				
21.3 - 23.3		21.3 ft - 23.3 ft, Light-greenish-gray to lustrous pale-green, chlorite-muscovite-quartz Phyllite, with some quartz beds. Moderately soft, Unweathered, Fair rock, NXMDC, RMR = 49	2 (65)	60 (50)	10					
23.3 - 28.3		23.3 ft - 28.3 ft, Light-greenish-gray to lustrous pale-green, chlorite-muscovite-quartz Phyllite, with some quartz beds. Moderately soft, Unweathered, Fair rock, NXMDC, RMR = 53	3 (65)	96 (86)	2					
		Hole stopped @ 28.3 ft								

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ROCHESTER  
BHF 0162 (17)  
VT-73 BR-16

Boring No.: B-104

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Pin No.: 85E035

Checked By: NSM

Boring Crew: SALISBURY, GARROW  
Date Started: 4/06/12 Date Finished: 4/06/12  
VTSPG NAD83: N 491673.96 ft E 1548216.45 ft  
Station: 4+21.67 Offset: 6.53  
Ground Elevation: 952.9 ft

Casing: WB  
Sampler: SS  
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 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
04/09/12	11.0	AM

Depth (ft)	Strata (i)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 1.0		Asphalt Pavement, 0.0 ft - 1.0 ft								
1.0 - 5.0		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft, Broken Rock was within sample. NXDC				6-7-7-6 (14)	9.0	44.9	41.0	14.1
5.0 - 10.0		A-1-a, SaGr, grn-brn, Moist, Rec. = 0.5 ft, Broken Rock was within sample.				5-4-8-8 (12)	9.6	64.7	25.2	10.1
10.0 - 16.5		Field Note:, NXDC, Appears to be Gravel								
16.5 - 17.5		Visual Description:, Broken Rock with silt & sand, grn-brn, Wet, Rec. = 0.2 ft, Insufficient sample for testing.				2-2-1-4 (3)	16.3			
17.5 - 21.5		Field Note:, NXDC, Cobbles								
16.5 - 17.5		16.5 ft - 17.5 ft, Light-greenish-gray to lustrous pale-green, chlorite-muscovite-quartz Phyllite, with some quartz beds. Moderately soft, Unweathered, Poor rock, NXMDC, RMR = 39	1 (65)	100 (0)	5					
17.5 - 21.5		17.5 ft - 21.5 ft, Light-greenish-gray to lustrous pale-green, chlorite-muscovite-quartz Phyllite, with some quartz beds. Moderately soft, Unweathered, Poor rock, NXMDC, RMR = 39	2 (65)	40 (12)	2					
21.5 - 21.5		Hole stopped @ 21.5 ft								

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