



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

BORING LOG

COLCHESTER
 HES 028-1(28)
 US-2 ROADWAY

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 13B028

Checked By: LAR

Boring Crew: SALISBURY, JUDKINS
 Date Started: 6/13/13 Date Finished: 6/13/13
 VTSPG NAD83: N 766112.10 ft E 1457765.82 ft
 Station: 17+00 Offset: -25.00
 Ground Elevation: 186.54 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 C_s = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
06/13/13	6.6	While drilling.
06/13/13	10.8	30 min. later

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Visual Description: Topsoil with Gravelly Sand, Dk/brn, Moist, Rec. = 0.4 ft	1-8-11-10 (19)	19.0			
		A-1-b, GrSa, brn, Moist, Rec. = 1.4 ft, Broken Rock was within sample.	18-16-13-11 (29)	5.8	26.5	66.0	7.5
5		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft	7-7-6-7 (13)	16.0	16.3	51.6	32.1
		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft	3-6-5-6 (11)	18.4	0.7	82.8	16.5
10		A-4, SiSa, brn, Moist, Rec. = 0.7 ft, Broken Rock was within sample.	2-4-3-4 (7)	23.9	12.7	46.6	40.7
		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft	3-3-6-9 (9)	18.4	8.0	60.0	32.0
15		A-3, Sa, brn, MTW, Rec. = 0.7 ft	3-2-3-1 (5)	24.7	0.4	90.5	9.1
20		A-3, Sa, brn, MTW, Rec. = 1.1 ft	7-9-9-8 (18)	18.2	2.5	88.2	9.3
25		A-2-4, Sa, brn, MTW, Rec. = 1.0 ft, Broken Rock was within sample.	1-2-6-4 (8)	24.8	2.7	81.4	15.9
30		A-4, SiSa, gry, Wet, Rec. = 0.5 ft	4-4-4-4 (8)	23.9	0.8	55.2	44.0
35		A-4, SaSi, gry, Wet, Rec. = 1.2 ft	3-4-3-4 (7)	25.0	0.1	30.6	69.3
40		A-4, Si, gry, Wet, Rec. = 1.1 ft	2-5-5-5 (10)	26.0		16.8	83.2
45		Hole stopped @ 42.0 ft					
		Remarks: Hole collapsed at 18.3 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. C 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.

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13



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BORING LOG

COLCHESTER
HES 028-1(28)
US-2 ROADWAY

Boring No.: **B-102**

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Pin No.: **13B028**

Checked By: **LAR**

Boring Crew: JUDKINS, GARROW
 Date Started: 6/19/13 Date Finished: 6/19/13
 VTSPG NAD83: N 765942.03 ft E 1457886.96 ft
 Station: 19+00 Offset: 35.00
 Ground Elevation: 186.96 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 C = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
06/19/13	15.0	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Visual Description:, Topsoil with sand, brn, Moist, Rec. = 1.2 ft	1-2-4-6 (6)	13.1			
		A-2-4, Sa, brn, Moist, Rec. = 1.9 ft	5-8-9-10 (17)	8.0	3.7	83.2	13.1
5		A-3, Sa, brn, Moist, Rec. = 1.1 ft	6-6-6-6 (12)	13.3	8.6	83.7	7.7
		A-3, Sa, brn, MTW, Rec. = 1.0 ft	3-3-4-3 (7)	19.5	2.0	94.0	4.0
10		Field Note:, No Recovery	WH-7-7-9 (14)				
		A-3, Sa, brn, MTW, Rec. = 1.2 ft	5-7-6-7 (13)	21.4		92.3	7.7
15		A-4, SaSi, gry, Wet, Rec. = 1.0 ft	1-1-1-1 (2)	30.7		38.1	61.9
20		A-4, SiSa, gry, Wet, Rec. = 1.4 ft	4-5-4-5 (9)	24.6		64.4	35.6
25		A-3, Sa, gry, Wet, Rec. = 1.0 ft	11-7-10-WH (17)	22.6		92.6	7.4
30		A-3, Sa, gry, MTW, Rec. = 1.2 ft	4-3-4-8 (7)	28.3	0.2	91.4	8.4
35		A-4, SiSa, gry, MTW, Rec. = 1.5 ft	5-6-8-10 (14)	25.8		61.2	38.8
40		A-2-4, SiSa, gry, MTW, Rec. = 1.7 ft	4-5-5-8 (10)	26.1		77.4	22.6
45		Hole stopped @ 42.0 ft					
		Remarks: Hole collapsed at 27.6 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, C 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.

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13



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BORING LOG

COLCHESTER
HES 028-1(28)
US-2 ROADWAY

Boring No.: **B-103**

Page No.: **1 of 1**

Pin No.: **13B028**

Checked By: **LAR**

Boring Crew: JUDKINS, HALL
 Date Started: 6/12/13 Date Finished: 6/12/13
 VTSPG NAD83: N 765866.72 ft E 1458081.71 ft
 Station: 21+00 Offset: -25.00
 Ground Elevation: 188.57 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 C = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
06/12/13	12.0	While drilling.
06/13/13		No water present.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft	1-1-1-3 (2)	14.4	9.6	76.6	13.8
1.1		A-3, Sa, brn, Moist, Rec. = 1.7 ft	3-6-7-8 (13)	9.3	2.1	91.0	6.9
2.8		A-3, Sa, brn, Moist, Rec. = 1.1 ft	3-5-4-5 (9)	14.7	9.9	84.4	5.7
3.9		A-3, Sa, brn, MTW, Rec. = 1.0 ft	2-3-3-4 (6)	23.0	2.0	94.3	3.7
4.9		A-3, Sa, brn, Moist, Rec. = 1.1 ft	1-4-6-8 (10)	19.8	3.8	91.2	5.0
6.0		A-3, Sa, brn, Moist, Rec. = 1.3 ft, Lost water return at 10.0 ft.	2-3-4-5 (7)	23.5	0.1	97.0	2.9
15.0		A-2-4, Sa, brn, Moist, Rec. = 0.9 ft	3-2-3-2 (5)	25.3		84.1	15.9
20.0		A-4, SiSa, brn, Moist, Rec. = 1.1 ft	1-2-2-1 (4)	26.8		60.5	39.5
25.0		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft	1-2-3-3 (5)	25.7		69.5	30.5
30.0		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft	3-4-4-4 (8)	25.8		68.0	32.0
35.0		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft	3-3-4-2 (7)	25.2		67.5	32.5
40.0		A-4, Si, brn, Moist, Rec. = 1.7 ft	2-1-2-3 (3)	27.9	0.5	19.2	80.3
42.0		Hole stopped @ 42.0 ft					
45.0		Remarks: Hole collapsed at 16.6 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. C 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.

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13



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BORING LOG

COLCHESTER
HES 028-1(28)
US-2 ROADWAY

Boring No.: **B-104**

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Pin No.: 13B028

Checked By: LAR

Boring Crew: GARROW, JUDKINS
Date Started: 6/06/13 Date Finished: 6/10/13
VTSPG NAD83: N 765777.69 ft E 1458198.33 ft
Station: 22+47 Offset: -25.00
Ground Elevation: 189.94 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 C_c = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
06/10/13	9.6	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Visual Description: Topsoil wit Silty Sand, Dk/brn, Moist, Rec. = 0.5 ft	1-5-9-8 (14)	15.6			
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft		5.5	35.6	53.6	10.8
		A-2-4, Sa, brn, Moist, Rec. = 1.8 ft	5-9-8-8 (17)	8.0	3.6	79.9	16.5
5		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft	5-6-4-5 (10)	14.8	1.8	76.5	21.7
		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft	5-5-4-4 (9)	17.2	13.7	53.9	32.4
		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft	2-4-3-4 (7)	21.7		73.3	26.7
10		A-4, Si, brn, Moist, Rec. = 1.2 ft	3-4-4-5 (8)	28.9		7.3	92.7
15		A-4, Si, brn, MTW, Rec. = 0.7 ft	1-3-2-2 (5)	28.1	0.4	7.0	92.6
20		A-4, SaSi, brn, Wet, Rec. = 1.2 ft	1-3-1-2 (4)	26.4		21.1	78.9
25		A-4, Si, brn, MTW, Rec. = 0.7 ft	WR-3-2-1 (5)	26.3	0.3	9.6	90.1
30		A-4, Si, brn, Wet, Rec. = 1.0 ft	1-2-2-1 (4)	27.9	0.7	19.9	79.4
35		A-4, Si, brn-gry, Wet, Rec. = 1.5 ft, Lab Note: A very thin layer of clay was noticeable.	1-2-1-2 (3)	26.8		2.9	97.1
40		A-4, Si, gry, Wet, Rec. = 1.3 ft	3-2-1-2 (3)	26.3		13.0	87.0
45		Hole stopped @ 42.0 ft					
		Remarks: Hole collapsed at 12.9 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. C 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.

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13



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COLCHESTER
 HES 028-1(28)
 US-2 ROADWAY

Boring No.: **B-105**

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Pin No.: 13B028

Checked By: LAR

Boring Crew: SALISBURY, JUDKINS, HALL

Date Started: 6/18/13 Date Finished: 6/18/13

VTSPG NAD83: N 765671.65 ft E 1458246.92 ft

Station: 23+50 Offset: 30.00

Ground Elevation: 191.68 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 55 TRACK C_c = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
06/18/13	5.0	While 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 %
		Visual Description: Topsoil with sand, brn, Moist, Rec. = 0.8 ft				1-1-5-5 (6)	19.7			
		A-2-4, Sa, brn, Moist, Rec. = 0.6 ft					8.8	9.4	78.3	12.3
2.5		A-2-4, Sa, brn, Moist, Rec. = 1.0 ft				6-11-35-23 (46)	11.9	9.1	75.7	15.2
		Lab Note, Broken Rock, pink, Moist, Rec. = 0.8 ft					1.5	77.5	17.9	4.6
5.0		Lab Note, Broken Rock, pink, Moist, Rec. = 0.7 ft				15-11-9-8 (20)	6.4	84.8	12.2	3.0
7.5		6.0 ft - 11.0 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	1 (0)	40 (0)	1					
10.0					1					
					2					
					2					
					3					
12.5		11.0 ft - 16.0 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	2 (0)	78 (14)	3					
15.0					4					
					5					
					4					
					6					
17.5		Hole stopped @ 16.0 ft								
		Remarks: Hole collapsed at 8.0 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. C_c 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.

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13



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BORING LOG

COLCHESTER
HES 028-1(28)
US-2 ROADWAY

Boring No.: B-106

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Pin No.: 13B028

Checked By: LAR

Boring Crew: GARROW, JUDKINS, HALL
Date Started: 6/05/13 Date Finished: 6/05/13
VTSPG NAD83: N 765658.27 ft E 1458362.77 ft
Station: 24+50 Offset: -30.00
Ground Elevation: 193.86 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 55 TRACK C = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
06/05/13	5.0	While 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 - 0.7		Visual Description: Topsoil with sand, brn, Moist, Rec. = 0.7 ft				1-6-6-7 (12)	13.1			
0.7 - 1.2		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft				5-30-R@6.0" (R)	7.8	49.2	36.3	14.5
1.2 - 1.8		A-1-a, Gr, brn-gry, Moist, Rec. = 0.6 ft, Lots of Broken Rock was within sample.					1.4	74.0	19.3	6.7
1.8 - 2.5		Visual Description: SaGr, brn, Moist, Rec. = 0.6 ft, Lots of Broken Rock was within sample. Similar material as 6-8 ft.				25-25-17-6 (42)	9.1			
2.5 - 3.1		A-1-a, Gr, brn, Moist, Rec. = 0.2 ft, Lots of Broken Rock was within sample. Combined 4'-6', 6'-8', & 8'-10' samples to get a sufficient sample for testing.				3-3-3-3 (6)	6.7	76.2	15.4	8.4
3.1 - 3.4		Visual Description: SaGr, brn, Moist, Rec. = 0.3 ft, Lots of Broken Rock was within sample. Similar material as 6-8 ft.				7-4-3-2 (7)	6.8			
3.4 - 4.2		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Broken Rock was within sample. Lost water return at 10.0 ft.				5-4-4-13 (8)	8.7	59.1	25.9	15.0
4.2 - 12.5		12.5 ft - 13.5 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	1 (0)	90 (0)	6	Top of Bedrock @ 12.5 ft				
12.5 - 13.5		13.5 ft - 17.5 ft, Pink-mottled, Dolomite, Moderately hard, Slightly weathered, Fair rock, BXMDC, RMR = 52	2 (0)	88 (35)	4					
13.5 - 15.0					5					
15.0 - 17.5					5					
17.5		Hole stopped @ 17.5 ft								
		Remarks: Hole collapsed at 7.0 ft.								

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

COLCHESTER
HES 028-1(28)
US-2 ROADWAY

Boring No.: **B-107**

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Pin No.: 13B028

Checked By: LAR

Boring Crew: SALISBURY, JUDKINS

Date Started: 6/17/13 Date Finished: 6/18/13

VTSPG NAD83: N 765549.75 ft E 1458405.47 ft

Station: 25+50 Offset: 30.00

Ground Elevation: 196.5 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 C_s = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
		No water showing.

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 %
		A-2-4, GrSa, brn, Moist, Rec. = 1.5 ft				1-1-4-10 (5)	13.6	25.2	60.2	14.6
2.5		Visual Description: Broken Rock, pink, Moist, Rec. = 1.1 ft, Material similar as 4-6 ft.				27-20-17-18 (37)	2.2			
5.0		Lab Note, Broken Rock, pink, Moist, Rec. = 0.5 ft				11-16-20-22 (36)	6.3	68.6	23.7	7.7
7.5		Visual Description: Broken Rock, pink-gry, MTW, Rec. = 1.1 ft, Material similar as 4-6 ft.				10-13-16-21 (29)	5.2			
8.0 - 12.0		8.0 ft - 12.0 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	1 (0)	43 (0)	2	Top of Bedrock @ 8.0 ft				
12.5 - 17.0		12.0 ft - 17.0 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXGDC, RMR = 57	2 (0)	92 (60)	2					
17.5		Hole stopped @ 17.0 ft								
		Remarks: Hole collapsed at 8.6 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. C 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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COLCHESTER
 HES 028-1(28)
 US-2 ROADWAY

Boring No.: B-109
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 Pin No.: 13B028
 Checked By: LAR

Boring Crew: SALISBURY, JUDKINS, HALL
 Date Started: 6/17/13 Date Finished: 6/17/13
 VTSPG NAD83: N 765427.84 ft E 1458564.03 ft
 Station: 27+50 Offset: 30.00
 Ground Elevation: 201.35 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 55 TRACK C = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
		No water showing.

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 %
		Visual Description:, Topsoil with sand, brn, Moist, Rec. = 0.8 ft				1-1-10-20 (11)	17.9			
		Lab Note, Broken Rock, pink, Moist, Rec. = 0.6 ft					3.7	74.1	17.5	8.4
2.5		Visual Description:, Broken Rock, pink, Moist, Rec. = 0.9 ft, Lost water return. Material similar as 1-2 ft.				15-15-9-10 (24)	3.2			
5.0		Lab Note, Broken Rock, pink, Moist, Rec. = 0.9 ft				10-8-6-5 (14)	3.1	68.5	23.3	8.2
7.5		Visual Description:, Broken Rock, pink, MTW, Rec. = 0.5 ft, Material similar as 4-6 ft.				6-9-8-5 (17)	8.0			
10.0		Visual Description:, Broken Rock, pink, MTW, Rec. = 0.6 ft, Material similar as 4-6 ft.				9-5-3-1 (8)	11.0			
10.0		Visual Description:, Broken Rock, pink, Moist, Rec. = 0.6 ft, Material similar as 4-6 ft.				10-R@2.5" (R)	8.7			
11.0		NXDC, 10.7 ft - 11.0 ft	1 (0)	90 (60)	3					
12.5		11.0 ft - 16.0 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 57			3					
15.0					5					
15.0					5					
16.0		Hole stopped @ 16.0 ft								
17.5		Remarks: Hole collapsed at 5.6 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. C 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.

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13



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

BORING LOG

COLCHESTER
 HES 028-1(28)
 US-2 ROADWAY

Boring No.: **B-110**

Page No.: 1 of 1

Pin No.: 13B028

Checked By: LAR

Boring Crew: GARROW, JUDKINS, HALL
 Date Started: 5/31/13 Date Finished: 6/03/13
 VTSPG NAD83: N 765383.98 ft E 1458719.51 ft
 Station: 29+00 Offset: -30.00
 Ground Elevation: 205.09 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 C = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
05/31/13	8.8	While drilling.
06/03/13	9.2	AM

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 - 0.5		Visual Description: Topsoil, brn, Moist, Rec. = 0.5 ft								
0.5 - 1.0		A-3, Sa, brn, Moist, Rec. = 0.4 ft				WH-2-2-20 (4)	20.4	9.6	82.1	8.3
1.0 - 1.4		A-1-a, SaGr, pink-brn, Moist, Rec. = 0.4 ft, Broken Rock was within sample.					4.6	55.3	29.2	15.5
1.4 - 2.5		A-1-a, SaGr, pink, Moist, Rec. = 1.4 ft, Lots of Broken Rock was within sample.				14-14-14-35 (28)	4.3	73.0	20.5	6.5
2.5 - 5.0		A-1-a, SaGr, white, Moist, Rec. = 1.0 ft, Broken Rock was within sample.				26-34-18-2 (52)	7.9	63.4	26.6	10.0
5.0 - 6.5		A-1-a, Gr, white-pink, Moist, Rec. = 0.4 ft, Mostly Broken Rock				R@5.0"	7.9	75.5	19.9	4.6
6.5 - 11.5		6.5 ft - 11.5 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Good rock, BXGDC, RMR = 61	1 (0)	86 (76)	2					
11.5 - 16.5		11.5 ft - 16.5 ft, Pink-mottled, And light gray Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	2 (0)	52 (0)	5					
16.5 - 17.5		Hole stopped @ 16.5 ft								
17.5		Remarks: Hole collapsed at 11.0 ft.								

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

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13



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BORING LOG

COLCHESTER
 HES 028-1(28)
 US-2 ROADWAY

Boring No.: B-111
 Page No.: 1 of 1
 Pin No.: 13B028
 Checked By: LAR

Boring Crew: SALISBURY, JUDKINS
 Date Started: 6/14/13 Date Finished: 6/14/13
 VTSPG NAD83: N 765244.99 ft E 1458801.86 ft
 Station: 30+50 Offset: 30.00
 Ground Elevation: 209.2 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 55 TRACK C_s = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
		No water showing.

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 %
		Visual Description:, Topsoil with sand, Dk/brn, Moist, Rec. = 0.4 ft				1-2-2-4 (4)	22.8			
		A-2-4, GrSa, brn, Moist, Rec. = 0.4 ft					10.5	20.0	63.9	16.1
2.5		A-2-4, Sa, brn, Moist, Rec. = 0.4 ft				10-25-19- R@1.0" (44)	10.4	18.3	63.0	18.7
		Lab Note, Mostly Broken & Pulverized Rock, brn-gry, Moist, Rec. = 1.1 ft				R@2.5" (R)	4.1	52.2	32.5	15.3
5.0		Field Note:, No Recovery 4.2 ft - 9.2 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXGDC, RMR = 47	1 (0)	100 (0)	2	Top of Bedrock @ 4.2 ft				
7.5					6					
					6					
					5					
					5					
10.0		Hole stopped @ 9.2 ft								
12.5		Remarks: Hole collapsed at 2.5 ft.								
15.0										
17.5										

Notes:
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 2. N Values have not been corrected for hammer energy, C_s 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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