



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

BORING LOG
CABOT-DANVILLE
FEGC-F 028-3(26) C/2
US-2 BR-87

Boring No.: B-102
Page No.: 1 of 1
Pin No.: 78D347
Checked By: LAR

Boring Crew: PORTER, RIPLEY
Date Started: 7/31/12 Date Finished: 8/01/12
VTSPG NAD83: N 681881.70 ft E 1700529.30 ft
Station: 14+60 Offset: 25.00
Ground Elevation: 1428.95 ft

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

Groundwater Observations		
Date	Depth (ft)	Notes
08/01/12	6.0	AM
08/03/12	11.8	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		Field Note:, No Recovery	4-4-6-6 (10)						
10		Field Note:, No Recovery, Traces of Wood & Sand.	4-5-4-2 (9)						
		A-2-4, SiSa, gry-brn, MTW, Rec. = 1.2 ft, Wood pieces were within sample.	3-2-2-2 (4)	46.2	0.5	64.0	35.5		
		Field Note:, Boulder							
15		Field Note:, Cobbles							
		A-4, SaSi, gry, MTW, Rec. = 1.2 ft	2-2-2-3 (4)	13.8	16.3	28.6	55.1		
		A-4, SaGrSi, gry, MTW, Rec. = 0.8 ft	9-7-8-13 (15)	12.4	27.0	23.9	49.1		
20		A-2-4, GrSiSa, gry, Moist, Rec. = 0.5 ft	15-R@2.5"	12.3	28.9	36.8	34.3		
		A-4, SaSi, gry, Moist, Rec. = 1.1 ft	11-14-12-12 (26)	12.9	15.2	24.1	60.7		
25		Visual Description:, Si, gry, Moist, Rec. = 1.5 ft, Material similar as 26-28 ft.	8-8-11-12 (19)	20.2					
		A-4, Si, gry, Moist, Rec. = 1.6 ft	6-9-11-11 (20)	25.7		3.2	96.8		
		Visual Description:, Si, gry, Moist, Rec. = 1.3 ft, Material similar as 26-28 ft.	7-6-9-10 (15)	27.3					
30		A-4, Si, gry, Moist, Rec. = 1.4 ft	5-7-10-10 (17)	27.0		1.5	98.5		
		Visual Description:, Si, gry, Moist, Rec. = 1.9 ft, Material similar as 34-36 ft.	7-19-21-21 (40)	25.2					
35		A-4, Si, gry, Moist, Rec. = 2.0 ft	10-12-17-19 (29)	26.7		1.2	98.8	31	3
		Visual Description:, Si, gry, Moist, Rec. = 2.0 ft, Material similar as 34-36 ft.	8-10-12-18 (22)	29.6					
40		A-4, Si, gry, Moist, Rec. = 1.5 ft	9-13-18-28 (31)	30.0		0.4	99.6		
Hole stopped @ 40.0 ft									
Remarks: 1. Very thin layers of clay were noticeable from 26-40 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 CABOT-DANVILLE FEGC-F 028-3(26)C-2.GPJ VERMONT AOT.GDT 9/7/12



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

BORING LOG

CABOT-DANVILLE
 FEGC-F 028-3(26) C/2
 US-2 BR-87

Boring No.: B-104
 Page No.: 1 of 1
 Pin No.: 78D347
 Checked By: LAR

Boring Crew: PORTER, RIPLEY
 Date Started: 8/02/12 Date Finished: 8/03/12
 VTSPG NAD83: N 681951.60 ft E 1700612.01 ft
 Station: 15+40 Offset: -32.00
 Ground Elevation: 1428.45 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: CME 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
08/03/12	6.0	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-4, SiSa, gry-brn, Moist, Rec. = 1.3 ft, Chunks of Wood were within sample.	2-1-2-12 (3)	38.0	11.5	50.9	37.6
		A-1-a, SaGr, gry, MTW, Rec. = 1.1 ft, Pieces of Wood & Broken Rock were within sample.	5-7-10-10 (17)	13.8	65.0	26.0	9.0
10		A-4, SaGrSi, gry, MTW, Rec. = 1.0 ft	12-33-10-10 (43)	10.4	30.1	25.1	44.8
		A-4, GrSaSi, gry, Moist, Rec. = 0.9 ft, Broken Rock was within sample.	7-7-3-5 (10)	12.1	25.7	28.1	46.2
		Visual Description:, GrSaSi, gry, MTW, Rec. = 1.4 ft, Material similar as 11-13 ft.	20-12-21-16 (33)	12.9			
15		A-4, SaSi, gry, MTW, Rec. = 1.8 ft	5-7-6-7 (13)	16.3	9.5	23.3	67.2
		Visual Description:, SaSi, gry, MTW, Rec. = 1.4 ft, Material similar as 15-17 ft.	48-11-21-18 (32)	13.2			
20		A-4, Si, gry, MTW, Rec. = 1.7 ft	15-20-18-16 (38)	14.8	15.1	18.8	66.1
25		A-4, Si, gry, MTW, Rec. = 1.9 ft	8-9-11-14 (20)	25.9	0.5	2.7	96.8
30		A-4, Si, gry, MTW, Rec. = 1.9 ft	9-11-17-18 (28)	23.2	3.3	4.4	92.3

Hole stopped @ 30.0 ft

Remarks:
 1. Very thin layers of clay were noticeable from 23-30 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 CABOT-DANVILLE FEGC-F 028-3(26) C-2.GPJ VERMONT AOT.GDT 9/7/12



BORING LOG

CABOT-DANVILLE
FECC-F 028-3(26) C/2
US-2 BR-87

Boring No.: **B-205**
Page No.: **1 of 2**
Pin No.: **78d347**
Checked By: **END**

Boring Crew: JUDKINS, HOOK
Date Started: 11/16/15 Date Finished: 11/17/15
VTSPG NAD83: N 681931.00 ft E 1700535.32 ft
Station: 14+69.4 Offset: -21.75
Ground Elevation: 1426.1 ft

Type: _____
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 C = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
11/12/15	6.4	W.T. During Drilling
11/13/15	7.9	W.T. During Drilling
11/17/15	7.2	W.T. During Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, SiGrSa, Dk/gry, Moist, Rec. = 1.1 ft, Lab Note: Sticks and plant roots were within sample.	WH-1-1-3	14.7	21.0	58.1	20.9
		A-4, SiSa, Dk/gry, Molst, Rec. = 1.2 ft	WH-WH-1-1	25.4	0.1	57.7	42.2
		A-2-4, SiSa, Dk/gry, Moist, Rec. = 2.0 ft	1-1	32.8	0.5	69.9	29.6
		A-4, SiSa, brn-gry, Moist, Rec. = 1.1 ft, Lab Note: Small pieces of wood were within sample.	1-2-1-1	26.5	13.5	50.7	35.8
		A-2-4, Sa, brn, Wet, Rec. = 1.0 ft, Lab Note: Broken rock and small pieces of wood were within sample.	WH-1-7-4	45.6	15.4	69.3	15.3
		A-4, SaGrSi, gry, Moist, Rec. = 0.5 ft	6-8-6	11.1	28.5	27.5	44.0
		A-2-4, Sa, brn, Wet, Rec. = 1.0 ft	6-9-11-8	44.9	17.2	63.6	19.2
		Field Note: Cleanout with NXDC	19-15-13-18	11.7	33.2	32.8	34.0
		A-2-4, SaGrSi, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken rock was within sample.	28	10.2	41.2	22.3	36.5
		A-4, SaSiGr, gry, Moist, Rec. = 0.7 ft, Lab Note: Broken rock was within sample.	9-4-8-5				
		Field Note: Cleanout with NXDC	12				
		Field Note: No Recovery	12-26-32-20	10.7	46.2	20.8	33.0
		A-2-4, SaSiGr, gry, Moist, Rec. = 1.1 ft, Lab Note: Broken rock was within sample.	58				
		Field Note: Cleanout with NXDC	27-27-	10.2	38.5	24.4	37.1
		A-4, SaSiGr, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample.	37-R@1"				
		A-4, SaGrSi, gry, Moist, Rec. = 1.5 ft, Lab Note: Broken rock was within sample.	64				
		Field Note: Cleanout with NXDC	14-17-20-24	10.7	35.8	22.2	42.0
		A-4, Si, gry, Moist, Rec. = 1.6 ft	10-10-	22.3	0.9	9.0	90.1
		Field Note: Cleanout with NXDC	15-16				
		A-4, Si, gry, Moist, Rec. = 1.7 ft	25	24.9	0.3	6.6	93.1
			4-8-8-13				
			16				
		Field Note: Cleanout with roller cone					
		A-4, Si, gry, Moist, Rec. = 1.5 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	5-9-11-16	32.2	0.1	1.1	98.8
			20				
		Field Note: Cleanout with roller cone					
		A-4, Si, gry, Moist, Rec. = 1.6 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	6-12-14-	29.1		1.6	98.4
			22				
		Field Note: Cleanout with roller cone					
		A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	5-9-14-	30.0		0.6	99.4
			18				
		Field Note: Cleanout with roller cone					
		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	5-9-12-	30.8	0.5	0.6	98.9
			15				
		Field Note: Cleanout with NXDC					
			21				
		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	6-13-15-	29.7		0.3	99.7
			19				

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

CABOT-DANVILLE
FECC-F 028-3(26) C/2
US-2 BR-87

Boring No.: **B-205**
Page No.: **2 of 2**
Pin No.: **78d347**
Checked By: **END**

Boring Crew: JUDKINS, HOOK
Date Started: 11/16/15 Date Finished: 11/17/15
VTSPG NAD83: N 681931.00 ft E 1700535.32 ft
Station: 14+69.4 Offset: -21.75
Ground Elevation: 1426.1 ft

Type: _____
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 C = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
11/12/15	6.4	W.T. During Drilling
11/13/15	7.9	W.T. During Drilling
11/17/15	7.2	W.T. During Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Cleanout with roller cone	(28)				
		A-4, Si, gry, Moist, Rec. = 1.7 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	6-11-15-21	32.0	0.1	0.6	99.3
		Field Note: Cleanout with roller cone	(26)				
		A-4, Si, gry, Moist, Rec. = 0.8 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	8-3.5"	23.6	6.9	5.9	87.2
		Field Note: Cleanout with NXDC	R@0"				
		Field Note: No Recovery	R@0"				
		Field Note: Cleanout with NXDC					
		Field Note: No Recovery	R@3.5"				
		Field Note: Cleanout with NXDC					
		Field Note: No Recovery	R@1"				
		Field Note: Cleanout with NXDC					
		Field Note: No Recovery	R@5"				
		Field Note: Cleanout with NXDC					
		Field Note: No Recovery	R@0"				
		Field Note: Cleanout with NXDC					
		Field Note: No Recovery	R@2.5"				
		Field Note: Cleanout with NXDC					
		A-4, GRISa, gry, Moist, Rec. = 0.2 ft, Lab Note: Broken rock was within sample	R@5"	9.2	24.8	32.0	43.2
		Hole stopped @ 95.4 ft					
		Remarks: Hole Collapsed at 28.2 feet. 1.) Appears to be Si Sa with cobbles and boulders 65.0 feet to 95.0 feet. 2.) 30 feet of casing broke off and remains in the ground.					

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

CABOT-DANVILLE
FEGC-F 028-3(26) C/2
US-2 BR-87

Boring No.: **B-206**

Page No.: 1 of 2

Pin No.: 78d347

Checked By: END

Boring Crew: NIETO, JUDKINS, GARROW
Date Started: 11/30/15 Date Finished: 12/08/15
VTSPG NAD83: N 681890.21 ft E 1700537.16 ft
Station: 14+63.6 Offset: 18.21
Ground Elevation: 1429.83 ft

Type:	Casing		Sampler		Groundwater Observations		
	WB	SS	Date	Depth (ft)	Notes		
I.D.:	4 in	1.5 in	12/01/15	8.9	W.T. before drilling		
Hammer Wt:	N.A.	140 lb.	12/07/15	10.1	W.T. before drilling		
Hammer Fall:	N.A.	30 in.					
Hammer/Rod Type:	Auto/AWJ						
Rig:	CME 55 TRACK	C = 1.46	12/08/15	10.5	W.T. after drilling		

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.85 ft					
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.2 ft	10-15-11-10 (26)	10.0	33.5	45.4	21.1
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.1 ft	9-8-9-8 (17)	9.7	21.7	56.8	21.5
		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft	9-8-7-9 (15)	8.7	16.9	60.6	22.5
		A-2-4, SiGrSa, brn, Wet, Rec. = 0.4 ft	5-5-5-6 (10)	18.7	28.8	50.4	20.8
10		A-2-4, GrSa, brn, MTW, Rec. = 1.2 ft, Lab Note: Pieces of wood were within sample.	4-3-2-7 (5)	17.3	25.8	56.9	17.3
		A-1-b, SaGr, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample.	39-20-R@ (R)	11.8	49.2	39.9	10.9
		Field Note: Cleaned out casing	2-2-2-WH (4)				
		Field Note: No Recovery	2-5-5-4 (10)				
		Field Note: Cleaned out casing	4-5-16-50 (21)	10.6	35.5	28.2	36.3
20		A-4, SaGrSi, gry, Moist, Rec. = 0.7 ft, Lab Note: Sample tested non-plastic. A small amount of clay was within sample.	17-9-4-5 (13)	16.7	6.3	26.5	67.2
		Field Note: Cleaned out casing	7-9-13-15 (22)	13.9	10.5	25.2	64.3
		A-4, SaSi, gry, Moist, Rec. = 0.6 ft, Lab Note: Sample tested non-plastic.	17-17-17-13 (34)	12.6	18.1	24.5	57.4
		A-4, SaSi, gry, Moist, Rec. = 1.3 ft	12-9-10-13 (19)	20.0	9.0	12.2	78.8
		Field Note: Cleaned out with NXDC	4-8-12-18 (20)	26.1	1.8	5.8	92.4
30		A-4, Si, gry, Moist, Rec. = 1.4 ft, Lab Note: Sample tested non-plastic. A small amount of clay was within sample.	7-9-12-18 (21)	29.3	0.4	2.6	97.0
		Field Note: Cleaned out with NXDC	8-12-18-16 (30)	30.4		2.2	97.8
40		A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	7-11-12-16 (23)	32.3	0.2	3.1	96.7
		Field Note: Cleaned out with NXDC					
50		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.					

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

CABOT-DANVILLE
FEGC-F 028-3(26) C/2
US-2 BR-87

Boring No.: **B-206**

Page No.: 2 of 2

Pin No.: 78d347

Checked By: END

Boring Crew: NIETO, JUDKINS, GARROW
Date Started: 11/30/15 Date Finished: 12/08/15
VTSPG NAD83: N 681890.21 ft E 1700537.16 ft
Station: 14+63.6 Offset: 18.21
Ground Elevation: 1429.83 ft

Type:	Casing		Sampler		Groundwater Observations		
	WB	SS	Date	Depth (ft)	Notes		
I.D.:	4 in	1.5 in	12/01/15	8.9	W.T. before drilling		
Hammer Wt:	N.A.	140 lb.	12/07/15	10.1	W.T. before drilling		
Hammer Fall:	N.A.	30 in.					
Hammer/Rod Type:	Auto/AWJ						
Rig:	CME 55 TRACK	C = 1.46	12/08/15	10.5	W.T. after drilling		

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Cleaned out with NXDC					
60		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	6-10-14-17 (24)	30.7	0.2	1.8	98.0
		Field Note: Cleaned out with NXDC					
70		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic. Thin layers of clay were within sample.	7-16-26-34 (42)	27.3	0.3	5.9	93.8
		Field Note: Cleaned out with NXDC					
80		A-1-b, SaGr, gry, Moist, Rec. = 0.3 ft, Lab Note: Broken rock was within sample.	R@3.5" (R)	14.1	50.4	34.4	15.2
		Field Note: Cleaned out with NXDC					
90		Field Note: No Recovery, Appears to be Si Sa	R@2.5" (R)				
		Field Note: Cleaned out with NXDC					
100		A-4, SaSi, gry-Lt/brn, Moist, Rec. = 0.7 ft	48-R@2.5" (R)	40.3	16.1	41.8	42.1
		Hole stopped @ 100.7 ft					
		Remarks: Hole Collapsed at 30.2 feet.					

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 CABOT-DANVILLE FEGC-F 028-3(26) C/2, GP1, VERMONT AOT.GDT. 12/30/15

BORING LOG 2 CABOT-DANVILLE FEGC-F 028-3(26) C/2, GP1, VERMONT AOT.GDT. 12/30/15



BORING LOG

CABOT-DANVILLE
FEGC-F 028-3(26) C/2
US-2 BR-87

Boring No.: **B-207**
Page No.: **1 of 2**
PIn No.: **78d347**
Checked By: **END**

Boring Crew: JUDKINS, HOOK
Date Started: 11/18/15 Date Finished: 11/20/15
VTSPG NAD83: N 681895.49 ft E 1700580.40 ft
Station: 15+7.35 Offset: 18.92
Ground Elevation: 1429.83 ft

Type: _____
I.D.: 4 in 1.5 in
Casing WB Sampler SS
Date 11/19/15 8.1 W.T. during drilling
Notes 11/20/15 7.7 W.T. before drilling
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 55 TRACK C = 1.46

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.94 ft							
		A-1-b, GrSa, brn, Moist, Rec. = 1.5 ft	7-10-10-9 (20)	8.7	37.6	46.2	16.2		
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.0 ft	14-9-6-8 (15)	12.4	29.1	44.3	26.6		
		A-4, SaSi, brn, Moist, Rec. = 1.1 ft	6-2-3-2 (5)	28.1	5.7	44.8	49.5		
		A-2-4, SiSa, brn, Moist, Rec. = 1.3 ft	3-3-3-3 (6)	26.0	2.5	72.7	24.8		
10		A-4, SiSa, Dk/gry, Moist, Rec. = 2.0 ft, Lab Note: Wood fibers and pieces of wood were within sample.	3-2-3-2 (5)	38.9	1.8	57.3	40.9		
		A-2-4, SiSa, Dk/gry, Moist, Rec. = 1.3 ft, Lab Note: Wood fibers were within sample.	2-20-13-5 (33)	44.7	0.1	76.5	23.4		
		Field Note: Clean out with NXDC							
		Field Note: No Recovery							
		Field Note: Clean out with NXDC							
		Field Note: No Recovery							
		Field Note: Clean out with NXDC							
20		A-4, SaSi, gry, Moist, Rec. = 1.0 ft	12-5-6-5 (11)	14.1	14.8	20.6	64.6		
		A-4, SaSi, gry, Moist, Rec. = 0.9 ft	4-6-4-4 (10)	16.8	11.7	22.0	66.3		
		Field Note: Clean out with NXDC							
		Visual Description: SaSi, gry, Moist, Rec. = 0.1 ft, Lab Note: Insufficient sample size for testing.	4-2-5-3 (7)	17.7					
		A-4, SaSi, gry, Moist, Rec. = 1.0 ft	5-2-2-3 (4)	16.9	13.6	24.4	62.0		
		A-4, SaSi, gry, Moist, Rec. = 0.8 ft	11-8-11-13 (19)	14.5	16.1	25.3	58.6		
30		Field Note: Clean out with roller cone							
		Field Note: No Recovery	22-25-21-21 (46)						
		Field Note: Clean out with NXDC							
		Field Note: No Recovery	13-20-21-21 (41)						
		Field Note: Clean out with roller cone							
40		A-4, Si, gry, Moist, Rec. = 1.2 ft, Lab Note: Sample tested non-plastic. A thin clay layer was within sample.	6-10-14-20 (24)	29.4	0.1	3.8	96.1		
		Field Note: Clean out with NXDC							
50		A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: Sample tested non-plastic. A thin clay layer was within sample.	7-9-11-12 (20)	30.9	0.5	4.7	94.8		

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

CABOT-DANVILLE
FEGC-F 028-3(26) C/2
US-2 BR-87

Boring No.: **B-207**
Page No.: **2 of 2**
PIn No.: **78d347**
Checked By: **END**

Boring Crew: JUDKINS, HOOK
Date Started: 11/18/15 Date Finished: 11/20/15
VTSPG NAD83: N 681895.49 ft E 1700580.40 ft
Station: 15+7.35 Offset: 18.92
Ground Elevation: 1429.83 ft

Type: _____
I.D.: 4 in 1.5 in
Casing WB Sampler SS
Date 11/19/15 8.1 W.T. during drilling
Notes 11/20/15 7.7 W.T. before drilling
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 55 TRACK C = 1.46

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Field Note: Clean out with roller cone							
60		A-4, Si, gry, Moist, Rec. = 1.8 ft, Lab Note: Sample tested non-plastic. A thin clay layer was within sample.	7-9-14-13 (23)	31.5		3.6	96.4		
		Field Note: Clean out with NXDC							
70		A-4, Cisi, gry, Moist, Rec. = 1.9 ft	7-8-10-13 (18)	33.0	0.9	0.9	98.2	35	7
		Field Note: Clean out with NXDC							
80		Field Note: No Recovery							
		Field Note: Clean out with NXDC							
90		A-1-b, GrSa, gry, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample.	12-R@5" (R)	13.7	38.5	49.3	12.2		
		Field Note: Clean out with NXDC							
100		Field Note: No Recovery. Appears to be Si Sa.							
		Hole stopped @ 100.4 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 CABOT-DANVILLE FEGC-F 028-3(26) C/2 GFI VERMONT AOT.GDT 12/30/15

BORING LOG 2 CABOT-DANVILLE FEGC-F 028-3(26) C/2 GFI VERMONT AOT.GDT 12/30/15

Boring Crew: <u>JUDKINS, GARROW, NIETO</u>		Type: <u>WB</u>	Casing <u>WB</u>	Sampler <u>SS</u>	Groundwater Observations			
Date Started: <u>3/02/16</u>	Date Finished: <u>3/08/16</u>	I.D.: <u>4 in</u>	<u>4 in</u>	<u>1.5 in</u>	Date	Depth (ft)	Notes	
VTSPG NAD83: <u>N 683112.65 ft E 1702839.88 ft</u>		Hammer Wt: <u>N.A.</u>	<u>140 lb.</u>		03/08/16	2.0	W.T. After Drilling	
Station: <u>41+37.5</u>	Offset: <u>21.73</u>	Hammer Fall: <u>N.A.</u>	<u>30 in.</u>		03/08/16	0.2	W.T. Before Drilling	
Ground Elevation: <u>1449.6 ft</u>		Hammer/Rod Type: <u>Auto/AWJ</u>						
		Rig: <u>CME 55 TRACK</u>		<u>C_c = 1.46</u>				

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6' (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
60		A-4, Si, gry, Moist, Rec. = 2.0 ft	5-9-13-16 (22)	31.1	0.4	3.6	96.0
		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Thin layers of clay were within sample. Sample tested non-plastic.	5-11-16-23 (27)	31.9		5.7	94.3
		A-4, Si, gry, Moist, Rec. = 1.8 ft	W.R.-4-12-16 (16)	33.7		4.8	95.2
70		A-4, Si, gry, Moist, Rec. = 1.8 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic.	W.R.-4-11-15 (15)	32.5	0.1	4.0	95.9
		A-2-4, SiSa, gry, Moist, Rec. = 2.0 ft	5-18-30-30 (48)	25.4		65.2	34.8
		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic.	5-4-13-19 (17)	30.8	0.1	16.7	83.2
100		A-4, Si, gry, Moist, Rec. = 2.0 ft	5-10-14-19 (24)	30.6	0.1	4.2	95.7
		Hole stopped @ 102.0 ft					
		Remarks: Hole filled with bentonite and portland cement grout.					

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 Crew: <u>JUDKINS, GARROW, NIETO</u>		Type: <u>WB</u>	Casing <u>WB</u>	Sampler <u>SS</u>	Groundwater Observations			
Date Started: <u>3/02/16</u>	Date Finished: <u>3/08/16</u>	I.D.: <u>4 in</u>	<u>4 in</u>	<u>1.5 in</u>	Date	Depth (ft)	Notes	
VTSPG NAD83: <u>N 683112.65 ft E 1702839.88 ft</u>		Hammer Wt: <u>N.A.</u>	<u>140 lb.</u>		03/08/16	2.0	W.T. After Drilling	
Station: <u>41+37.5</u>	Offset: <u>21.73</u>	Hammer Fall: <u>N.A.</u>	<u>30 in.</u>		03/08/16	0.2	W.T. Before Drilling	
Ground Elevation: <u>1449.6 ft</u>		Hammer/Rod Type: <u>Auto/AWJ</u>						
		Rig: <u>CME 55 TRACK</u>		<u>C_c = 1.46</u>				

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6' (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft, Lab Note: Wood fibers and pieces of wood were within sample.	1-1-2-2 (3)	25.5	14.6	62.1	23.3
		A-2-4, SiSa, brn, Moist, Rec. = 1.4 ft	3-5-6-4 (11)	21.6	16.0	53.0	31.0
		A-2-4, GrSiSa, brn-blk, MTW, Rec. = 2.0 ft	7-5-6-11 (11)	22.4	20.4	54.4	25.2
		Visual Description: GrSiSa, brn, Moist, Rec. = 0.3 ft, Lab Note: Insufficient sample size to perform gradation. Broken rock and plant material was within sample.	10-6-8-9 (14)	61.1			
10		A-4, SaSi, gry, MTW, Rec. = 0.8 ft	4-11-13-14 (24)	19.7	13.3	22.2	64.5
		A-4, GrSaSi, gry, MTW, Rec. = 0.6 ft	9-8-8-9 (16)	19.5	22.0	30.7	47.3
		A-4, SaSi, gry, Moist, Rec. = 1.0 ft	5-11-11-5 (22)	25.1	2.6	29.6	67.8
		A-4, Si, gry, MTW, Rec. = 1.3 ft	5-5-9-9 (17)	25.1	7.8	10.1	82.1
		A-4, Si, gry, MTW, Rec. = 1.3 ft	5-8-11-12 (19)	26.7	4.1	7.1	88.8
20		A-4, Si, gry, MTW, Rec. = 1.5 ft	8-10-10-10 (20)	26.3	4.1	4.7	91.2
		A-4, Si, gry, MTW, Rec. = 1.5 ft	4-8-9-9 (17)	28.0	5.7	5.8	88.5
		A-4, Si, gry, MTW, Rec. = 0.6 ft	9-10-10-12 (20)	28.1	11.3	15.4	73.3
		A-4, Si, gry, Moist, Rec. = 1.4 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.	7-7-11-12 (18)	25.0	11.3	5.1	83.6
30		A-4, Si, gry, Moist, Rec. = 0.3 ft	5-18-23-21 (41)	15.8	6.2	16.3	77.5
		A-4, Si, gry-brn, MTW, Rec. = 1.8 ft	3-11-13-14 (24)	32.5	0.4	3.6	96.0
40		A-4, Si, gry, MTW, Rec. = 1.1 ft	3-12-13-15 (25)	34.5	3.0	4.7	92.3
		A-4, Si, gry, Moist, Rec. = 1.8 ft	3-13-15-16 (28)	30.6	1.5	5.5	93.0
50		A-4, Si, gry, Moist, Rec. = 1.8 ft	3-8-13-15 (21)	30.1	1.0	5.5	93.5

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 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 CABOT-DANVILLE FEGC-F 028-3(26) C/2 GPJ VERMONT AOT/GDT 5/16/16

Boring Crew: GARROW, NIETO		Casing	Sampler	Groundwater Observations		
Date Started: 3/09/16	Date Finished: 3/22/16	Type: WB	SS	Date	Depth (ft)	Notes
VTSFG NAD83: N 683168.42 ft E 1702866.59 ft		I.D.: 4 in	1.5 in			
Station: 41+90.6	Offset: 23.40	Hammer Wt: N.A.	140 lb.	03/14/16	3.2	W.T. Before Drilling
Ground Elevation: 1449.3 ft		Hammer Fall: N.A.	30 in.	03/16/16	10.2	W.T. Before Drilling
		Hammer/Rod Type: Auto/AWJ		03/22/16	5.5	W.T. Before Drilling
		Rig: CME 55 TRACK	C = 1.41			

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blow/C (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-3.2	A-1-b, GrSa, brn-gry, Moist, Rec. = 0.8 ft, Lab Note: Grass, grass roots, and broken rock were within sample.		32	16.2	39.6	44.5	15.9
3.2-3.5	A-2-4, SiSa, gry, Moist, Rec. = 1.3 ft		R@3.5'	33.3	3.2	61.7	35.1
3.5-4.3	A-2-4, SiSa, gry-brn, Moist, Rec. = 1.4 ft, Lab Note: Pieces of wood and wood fibers were within sample.		2-3-3.2 (6)	43.2	10.5	61.2	28.3
4.3-5.5	A-1-a, SaGr, gry-brn, Moist, Rec. = 0.5 ft, Lab Note: Pieces of wood and wood fibers were within sample.		1-1-1.1 (2)	21.4	49.8	43.4	6.8
5.5-7.5	Field Note: Cleaned out with NXDC		3-12-5 (21)	16.1	20.5	37.4	42.1
7.5-7.8	Field Note: Cobbles and Stones		5-7-5.7 (12)	17.6	7.6	36.6	55.8
7.8-8.5	Field Note: Cleaned out with NXDC		4-5-5.6 (10)	21.5	2.2	25.0	72.8
8.5-9.1	A-4, GrSiSa, gry, Moist, Rec. = 1.0 ft		7-8-7.8 (13)	17.9	11.8	30.2	58.0
9.1-10.2	A-4, SaSi, gry, Moist, Rec. = 1.5 ft		6-7-9-12 (16)	22.8	0.3	33.0	66.7
10.2-11.8	A-4, SaSi, gry, Moist, Rec. = 1.8 ft		7-7-8.7 (15)	25.9	0.6	4.6	94.8
11.8-12.1	A-4, SaSi, gry, Moist, Rec. = 1.6 ft		7-8-11.8 (19)	23.2	0.1	15.0	84.9
12.1-14.2	A-4, Si, gry, Moist, Rec. = 1.6 ft		14-12-11-18 (23)	26.1		9.8	90.2
14.2-16.1	A-4, Si, gry, Moist, Rec. = 1.4 ft		12-14-14-21 (28)				
16.1-17.4	A-4, Si, gry, Moist, Rec. = 1.5 ft		8-11-13-24 (24)	27.4	0.5	6.1	93.4
17.4-19.1	A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.		6-9-13-15 (22)	31.4	0.1	2.1	97.8
19.1-20.7	A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic.		9-13-14-16 (27)	26.5	0.2	10.2	89.6
20.7-23.3	A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic.		7-12-15-23 (27)	30.1	0.3	5.9	93.8
23.3-25.5	A-4, Si, gry, Moist, Rec. = 2.0 ft		6-9-13-22 (22)	29.5	0.1	6.4	93.5
25.5-27.1	A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.		7-10-14-21 (24)	30.0	0.1	5.9	94.0
27.1-28.7	A-4, Si, gry, Moist, Rec. = 2.0 ft		8-14-20-27 (34)	31.4	0.2	4.5	95.3

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 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 Crew: GARROW, NIETO		Casing	Sampler	Groundwater Observations		
Date Started: 3/09/16	Date Finished: 3/22/16	Type: WB	SS	Date	Depth (ft)	Notes
VTSFG NAD83: N 683168.42 ft E 1702866.59 ft		I.D.: 4 in	1.5 in			
Station: 41+90.6	Offset: 23.40	Hammer Wt: N.A.	140 lb.	03/14/16	3.2	W.T. Before Drilling
Ground Elevation: 1449.3 ft		Hammer Fall: N.A.	30 in.	03/16/16	10.2	W.T. Before Drilling
		Hammer/Rod Type: Auto/AWJ		03/22/16	5.5	W.T. Before Drilling
		Rig: CME 55 TRACK	C = 1.41			

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blow/C (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-8.1	A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic.		8-13-15-19 (28)	31.0	0.1	5.7	94.2
8.1-9.1	A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.		9-13-19-24 (32)	30.3		3.8	96.2
9.1-17.0	A-4, Si, gry, Moist, Rec. = 1.7 ft		17-20-24-28 (44)	27.8	0.2	6.8	93.0
17.0-18.1	A-4, Si, gry, Moist, Rec. = 2.0 ft		13-14-23-32 (37)	29.4	0.1	10.3	89.6
18.1-19.5	A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.		13-14-18-24 (32)	29.5		4.4	95.6
19.5-10-15	A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Several thin layers of clay were within sample. Sample tested non-plastic.		10-15-19-29 (34)	29.8	0.1	2.5	97.4
10-15-17	A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.		9-13-17-24 (30)	29.4		3.2	96.8

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Boring Crew: GARROW, NIETO		Casing	Sampler	Groundwater Observations		
Date Started: 3/09/16	Date Finished: 3/22/16	Type: WB	SS	Date	Depth (ft)	Notes
VTSFG NAD83: N 683168.42 ft E 1702866.59 ft		I.D.: 4 in	1.5 in			
Station: 41+90.6	Offset: 23.40	Hammer Wt: N.A.	140 lb.	03/14/16	3.2	W.T. Before Drilling
Ground Elevation: 1449.3 ft		Hammer Fall: N.A.	30 in.	03/16/16	10.2	W.T. Before Drilling
		Hammer/Rod Type: Auto/AWJ		03/22/16	5.5	W.T. Before Drilling
		Rig: CME 55 TRACK	C = 1.41			

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blow/C (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-9.1	A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.		9-12-14-19 (26)	31.5		3.8	96.2
9.1-10.2	A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: Sample tested non-plastic.		9-12-19-33 (31)	30.2		2.6	97.4
10.2-150	Field Note: No Recovery, Rec. = 0.0 ft Field Note: Attempted core runs for assumed bed rock 148,1-158,1, 3.0' recovery of boulder		R@1.0'				
150-160	Field Note: Cleaned out with BXDC A-2-4, SiSa, gry, Moist, Rec. = 1.8 ft		2-1-3-2 (4)	22.7	0.5	67.7	31.8
160-18-29	A-4, Si, brn, Moist, Rec. = 0.8 ft		18-29-32-35 (61)	20.6	14.7	12.7	72.6
18-29-35	A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft		9-34-35-69 (69)	14.8	53.2	28.1	18.7
35-181.6	Hole stopped @ 181.6 ft						
181.6-190	Remarks: Hole Filled with bentonite and portland cement grout.						

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STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 CONSTRUCTION AND
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 CENTRAL LABORATORY

BORING LOG

CABOT-DANVILLE
 FEGC-F 028-3(26) C/2
 US-2

Boring No.: B-301
 Page No.: 1 of 1
 Pin No.: 78d347
 Checked By: ZMH

Boring Crew: Judkins, Garrow, Coletti
 Date Started: 5/24/16 Date Finished: 5/24/16
 VTSPG NAD83: N 685007.22 ft E 1703547.22 ft
 Station: 61+50 Offset: 43.00
 Ground Elevation: 1471.1 ft

Casing H.S.A. Sampler SS
 Type: H.S.A. 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: Diedrich 25 CE = Unknown

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5 5.0 7.5 10.0	[Hatched Pattern]	A-4, SaSi, brn, Moist, Rec. = 1.9 ft, Lab Note: Wood fibers and pieces of wood were within sample	WH-2-3-7 (5)	25.7	7.1	43.1	49.8
		A-4, SaSi, brn, Moist, Rec. = 1.9 ft	5-5-6-7 (11)	23.1	13.1	33.9	53.0
		A-4, SaSi, brn, Moist, Rec. = 2.0 ft	3-3-4-4 (7)	18.9	7.1	37.7	55.2
		A-4, SaSi, brn-gry, Moist, Rec. = 2.0 ft	2-2-4-7 (6)	20.7	5.9	42.1	52.0
		A-4, SaSi, brn, Moist, Rec. = 1.9 ft	2-4-5-5 (9)	20.2	7.6	39.4	53.0
		A-4, SaSi, brn-gry, Moist, Rec. = 0.8 ft	5-R@3.5" (R)	14.5	14.0	39.5	46.5
12.5	[Hatched Pattern]	A-4, SiSa, brn, Moist, Rec. = 0.4 ft, Lab Note: Roots and plant material were within sample Hole stopped @ 12.4 ft	R@5" (R)	20.3	16.7	49.9	33.4
15.0		Remarks: Refusal with auger at 12.4 feet.					

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 <<SUB>><<SUB>> is the hammer energy correction factor.
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STATE OF VERMONT
 AGENCY OF TRANSPORTATION
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 CENTRAL LABORATORY

BORING LOG
CABOT-DANVILLE
FEGC-F 028-3(26) C/2
US-2 BR. #87

Boring No.: **B-301B**
 Page No.: 1 of 1
 Pin No.: 78d347
 Checked By: ZMH

Boring Crew: Judkins, Garrow, Coletti
 Date Started: 5/24/16 Date Finished: 5/25/16
 VTSPG NAD83: N 685078.87 ft E 1703547.23 ft
 Station: 61+51.7 Offset: 43.00
 Ground Elevation: 1471.1 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: Diedrich 25 CE = Unknown

Groundwater Observations		
Date	Depth (ft)	Notes
05/25/16	3.8	W.T. after drilling
05/25/16	8.4	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5							
		Field Note:, NXDC, cleaned out casing, cobbles and boulders					
15		A-2-4, SiSa, gry-brn, Moist, Rec. = 1.4 ft	10-11-21-16 (32)	16.2	19.6	45.3	35.1
		Field Note:, Rollercone, cleaned out casing					
		A-4, SiSa, gry, Moist, Rec. = 1.5 ft	8-11-12-17 (23)	17.9	10.6	47.7	41.7
20		A-2-4, SiSa, gry, Moist, Rec. = 1.5 ft	13-16-12-15 (28)	21.0	14.4	55.1	30.5
25		A-4, SaSi, gry, Moist, Rec. = 2.0 ft	10-15-19-23 (34)	26.6	0.6	39.2	60.2
		Hole stopped @ 27.0 ft					
30		Remarks: Hole Collapsed at 20.3 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.



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

BORING LOG

CABOT-DANVILLE
 FEGC-F 028-3(26) C/2
 US-2

Boring No.: **B-302**

Page No.: 1 of 1

Pin No.: 78d347

Checked By: ZMH

Boring Crew: Judkins, Garrow, Coletti
 Date Started: 5/25/16 Date Finished: 5/26/16
 VTSPG NAD83: N 685078.87 ft E 1703569.87 ft
 Station: 62+25 Offset: 43.00
 Ground Elevation: 1469.9 ft

Type: _____
 I.D.: _____
 Hammer Wt: _____
 Hammer Fall: _____
 Hammer/Rod Type: _____
 Rig: _____

Casing: WB Sampler: SS
4 in 1.5 in
N.A. 140 lb.
N.A. 30 in.
Auto/AWJ
Diedrich 25 CE = Unknown

Groundwater Observations

Date	Depth (ft)	Notes
05/26/16	5.3	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5	[Diagonal Hatching]	A-4, SaSi, brn, Moist, Rec. = 1.7 ft, Lab Note: Grass and grass roots were within sample	1-1-3-2 (4)	22.4	11.5	42.0	46.5
		A-4, SaSi, gry, Moist, Rec. = 1.8 ft, Lab Note: A lot of wood fibers and pieces of wood were within sample	2-3-2-2 (5)	29.9	6.9	46.3	46.8
		A-4, SaSi, gry, Moist, Rec. = 1.8 ft	3-3-3-3 (6)	22.4	6.2	43.8	50.0
		Field Note: Rollercone, cleaned out casing A-4, SaSi, gry-brn, Moist, Rec. = 2.0 ft	8-7-5-6 (12)	18.1	7.0	45.3	47.7
10	[Dotted Pattern]	A-2-4, SiSa, gry-brn, Moist, Rec. = 1.1 ft	6-6-7-7 (13)	18.1	10.7	55.1	34.2
		A-2-4, SiSa, brn, Moist, Rec. = 1.3 ft	4-6-7-6 (13)	18.5	8.8	66.5	24.7
15	[Diagonal Hatching]	A-4, SaSi, brn, Moist, Rec. = 1.3 ft	6-8-8-9 (16)	20.4	2.5	45.4	52.1
		A-4, SaSi, gry, Moist, Rec. = 1.2 ft	6-5-7-9 (12)	26.1	0.4	35.6	64.0
		A-4, SaSi, gry, Moist, Rec. = 1.3 ft	5-4-6-9 (10)	27.0	3.4	41.9	54.7
		A-4, SaSi, gry, Moist, Rec. = 1.7 ft	6-8-10-12 (18)	25.9	1.1	45.4	53.5
25	[Diagonal Hatching]	A-4, SiSa, gry, Moist, Rec. = 1.3 ft	8-10-11-14 (21)	22.5	4.7	50.2	45.1
30		Hole stopped @ 27.0 ft					
		Remarks: Hole collapsed at 13.2 feet.					

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