



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

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-101**

Page No.: **1 of 1**

Pin No.: **85B006**

Checked By: **CEE**

Boring Crew: **DAIGNEAULT, JUDKINS, HALL**

Date Started: **8/14/13** Date Finished: **8/14/13**

VTSPG NAD83: **N 671053.91 ft E 1572653.72 ft**

Station: **37+39.5** Offset: **-12.50**

Ground Elevation: **417.41 ft**

Casing **H.S.A.** Sampler **SS**
Type: **H.S.A.** **SS**
I.D.: **4.25 in** **3 in**
Hammer Wt: **N.A.** **140 lb.**
Hammer Fall: **N.A.** **30 in.**
Hammer/Rod Type: **Auto/AWJ**
Rig: **CME 45C SKID** **C_s = 1.34**

Groundwater Observations

Date	Depth (ft)	Notes
08/14/13		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.83 ft					
2.5		A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft	45-62-54-30	2.4	57.6	33.2	9.2
		A-1-a, SaGr, brn, Moist, Rec. = 1.2 ft	19-26-28-22	2.6	51.9	35.4	12.7
5.0		A-1-b, SaGr, brn, Moist, Rec. = 1.4 ft	10-14-22-16	5.6	46.6	39.1	14.3
7.5		A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft	10-6-6-11	12.1	17.0	62.3	20.7
		A-1-b, GrSa, brn, Moist, Rec. = 1.5 ft	10-15-14-20	4.2	43.9	46.8	9.3
10.0		A-1-a, SaGr, brn, Moist, Rec. = 1.8 ft	23-12-18-20	4.3	51.0	40.1	8.9
12.5		Hole stopped @ 12.0 ft					
15.0		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 11.6 ft.					
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 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 WATERBURY FEGC F013-4(13).GPJ VERMONT AOT.GDT 10/24/13



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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-102**

Page No.: 1 of 1

Pin No.: 85B006

Checked By: CEE

Boring Crew: DAIGNEAULT, JUDKINS, HALL
Date Started: 8/14/13 Date Finished: 8/14/13
VTSPG NAD83: N 670823.66 ft E 1572761.61 ft
Station: 39+95.3 Offset: 5.20
Ground Elevation: 419.21 ft

Casing H.S.A. Sampler SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C_a = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
08/14/13		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.73 ft					
2.5		A-1-a, SaGr, brn, Moist, Rec. = 1.5 ft	74-57-46-38	3.6	45.3	42.5	12.2
5.0		A-1-b, SiGrSa, brn, Moist, Rec. = 1.6 ft	14-12-6-9	11.7	35.2	39.3	25.5
7.5		A-2-4, GrSiSa, brn, Moist, Rec. = 1.6 ft	5-5-6-5	15.5	25.7	38.8	35.5
10.0		A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft	5-4-3-6	16.6	4.6	60.0	35.4
12.5		A-4, SiSa, brn, Moist, Rec. = 1.7 ft	5-7-5-5	22.2	0.2	50.2	49.6
		A-4, SaSi, brn, Moist, Rec. = 1.5 ft, Lab Note: A very thin layer of material with clay characteristics was noticed within sample. Tested: (NP)	5-3-9-26	38.6	7.4	20.3	72.3
15.0		A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft	14-15-17-12	7.3	61.2	34.9	3.9
		A-1-b, SaGr, brn, MTW, Rec. = 0.4 ft		12.5	49.0	36.4	14.6
		A-1-b, SiSaGr, brn, Wet, Rec. = 1.6 ft	11-6-6-6	13.7	56.5	23.4	20.1
17.5		Hole stopped @ 17.0 ft					
		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 13.0 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 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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SUBSURFACE INFORMATION

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-103**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: DAIGNEAULT, JUDKINS, HALL
Date Started: 8/15/13 Date Finished: 8/15/13
VTSPG NAD83: N 670389.74 ft E 1573030.38 ft
Station: 45+06.0 Offset: 5.20
Ground Elevation: 427.51 ft

Casing H.S.A. Sampler SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C_a = 1.34

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.6 ft					
		Concrete, 0.6 ft - 1.0 ft					
2.5		A-2-4, GrSaSi, brn, Moist, Rec. = 1.4 ft	8-10-9-15	16.5	30.2	34.8	35.0
		A-2-4, SiSaGr, brn, Moist, Rec. = 0.8 ft	16-12-10-11	12.0	41.5	29.9	28.6
5.0		Field Note:, No Recovery	25-18-12-8				
7.5		A-1-b, SiSaGr, brn, Moist, Rec. = 0.5 ft	13-13-17-18	7.5	56.8	23.1	20.1
10.0		A-4, SaSi, brn, Moist, Rec. = 0.9 ft	25-15-17-20	22.4	13.6	27.2	59.2
		A-4, Si, brn, Moist, Rec. = 0.4 ft	17-13-15-21	25.2	0.4	18.6	81.0
12.5		A-2-4, SiSa, brn, Moist, Rec. = 0.6 ft		13.4	6.7	70.7	22.6
		A-1-b, GrSa, brn, Moist, Rec. = 2.0 ft	10-31-42-49	4.9	38.0	54.4	7.6
15.0		A-2-4, SiSa, brn, Moist, Rec. = 0.5 ft	22-29-25-41	14.5	14.3	54.1	31.6
		A-1-a, SaGr, brn-white, Moist, Rec. = 0.5 ft		3.2	52.4	37.7	9.9
		A-1-a, SaGr, rust, Moist, Rec. = 0.8 ft, Lab Note: Sample was rusty-orange in color.		6.4	58.6	32.4	9.0
17.5		Hole stopped @ 17.0 ft					
		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 16.4 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 WATERBURY FEGC F013-4(13).GPJ VERMONT AOT.GDT 10/24/13



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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-104**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: DAIGNEAULT, JUDKINS, HALL
Date Started: 8/15/13 Date Finished: 8/15/13
VTSPG NAD83: N 669992.46 ft E 1573302.44 ft
Station: 49+87.5 Offset: 0.80
Ground Elevation: 441.03 ft

Casing H.S.A. Sampler SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C_s = 1.34

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.78 ft					
2.5		A-1-b, GrSa, brn, Moist, Rec. = 2.0 ft	12-14-11-3	2.0	32.8	60.4	6.8
		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft	1-2-1-6	2.1	27.8	65.4	6.8
5.0		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft, Lab Note: Pieces of Concrete were within sample.		9.7	40.0	48.6	11.4
		A-1-b, GrSa, brn, Moist, Rec. = 0.4 ft, Lab Note: A small amount of Concrete was within sample.		8.9	44.1	48.0	7.9
		A-2-4, SiGrSa, red-brn, Moist, Rec. = 0.6 ft, Lab Note: Brick & Concrete were within sample. A large piece of Brick & Concrete was removed before gradation.		15.6	25.5	52.4	22.1
		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft, Lab Note: Pieces of Concrete were within sample.		16.3	19.1	59.5	21.4
7.5		Hole stopped @ 7.0 ft Hit a water line.					
10.0		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hit a water line at 7.0 ft.					
12.5							
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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AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-105**

Page No.: 1 of 1

Pin No.: 85B006

Checked By: CEE

Boring Crew: JUDKINS, GARROW

Date Started: 8/19/13 Date Finished: 8/20/13

VTSPG NAD83: N 669589.68 ft E 1573606.26 ft

Station: 54+91.9 Offset: -8.70

Ground Elevation: 423.17 ft

Casing Sampler
Type: H.S.A. SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
08/20/13	12.8	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.45 ft							
		A-2-4, GrSiSa, brn, Moist, Rec. = 1.0 ft	20-18-18-20	10.4	20.5	54.6	24.9		
2.5		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft		3.4	54.5	35.6	9.9		
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.3 ft	18-12-12-14	9.7	29.9	49.7	20.4		
5.0		A-1-b, SiSaGr, brn, Moist, Rec. = 1.3 ft	26-12-10-10	10.9	42.2	36.8	21.0		
		Visual Description:, Mostly Decayed Wood with a small amount of Fine sand & silt, brn, Moist, Rec. = 0.7 ft		60.5					
7.5		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft, Lab Note: Decayed Wood was within sample.	10-10-7-7	10.6	55.3	29.5	15.2		
		A-2-4, SiSa, brn, Moist, Rec. = 1.3 ft, Lab Note: Decayed Wood was within sample.		26.7	0.1	65.2	34.7		
10.0		A-4, SiSa, brn, Moist, Rec. = 1.5 ft, Lab Note: Lots of Wood was within sample.	WH-1-2-2	60.8	11.2	45.8	43.0		
		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Wood was within sample.	2-2-2-3	39.6	0.1	10.8	89.1	33	2
12.5		A-2-4, SiGrSa, brn, Moist, Rec. = 0.5 ft, Lab Note: Wood was within sample.	2-6-32-39	23.9	28.9	50.6	20.5		
		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft, Lab Note: Wood was within sample.		35.8	14.3	65.3	20.4		
15.0		A-1-a, SaGr, gry, MTW, Rec. = 0.7 ft		7.8	68.5	26.0	5.5		
		A-1-a, SaGr, brn, MTW, Rec. = 1.7 ft	17-25-19-15	9.1	62.5	30.5	7.0		
17.5		Hole stopped @ 17.0 ft							
		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 11.6 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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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

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WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-106**

Page No.: 1 of 1

Pin No.: 85B006

Checked By: CEE

Boring Crew: GARROW, HALL, STAAB

Date Started: 8/21/13 Date Finished: 8/21/13

VTSPG NAD83: N 669188.22 ft E 1573896.99 ft

Station: 59+87.6 Offset: -8.40

Ground Elevation: 425.74 ft

Casing Sampler
Type: H.S.A. SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID $C_r = 1.34$

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.58 ft					
		Concrete, 0.58 ft - 1.0 ft					
2.5		A-4, SaSi, brn, Moist, Rec. = 0.9 ft, Lab Note: Lots of Wood was within sample.	16-11-8-8	21.6	6.9	42.8	50.3
5.0		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft, Lab Note: Wood was within sample.	7-5-3-3	14.8	0.2	65.1	34.7
7.5		A-2-4, Sa, brn, Moist, Rec. = 1.6 ft	6-5-3-4	10.4	11.3	74.2	14.5
10.0		A-2-4, Sa, brn, Moist, Rec. = 1.8 ft	2-3-2-2	15.7		82.0	18.0
12.5		A-1-b, Sa, brn, Moist, Rec. = 1.6 ft	4-5-8-12	8.6	17.8	75.7	6.5
		A-1-a, SaGr, brn, Moist, Rec. = 1.6 ft	6-13-20-21	2.7	58.8	38.2	3.0
15.0		Hole stopped @ 14.0 ft					
17.5		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 7.6 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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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

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WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-107**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: GARROW, HALL, STAAB
Date Started: 8/21/13 Date Finished: 8/21/13
VTSPG NAD83: N 668780.49 ft E 1574193.34 ft
Station: 64+91.5 Offset: -8.20
Ground Elevation: 427.79 ft

Casing H.S.A. Sampler SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rlg: CME 45C SKID $C_r = 1.34$

Groundwater Observations		
Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.57 ft					
		Concrete, 0.57 ft - 1.07 ft					
2.5		A-4, SiSa, brn, Moist, Rec. = 2.0 ft	7-6-5-5	12.9	11.1	49.3	39.6
5.0		A-2-4, SiSa, brn, Moist, Rec. = 1.9 ft	3-5-4-3	10.0		71.1	28.9
7.5		A-3, Sa, brn, Moist, Rec. = 1.7 ft	3-3-7-8	6.1	0.7	91.1	8.2
10.0		A-1-b, GrSa, brn, Moist, Rec. = 1.8 ft	7-13-13-18	2.4	42.4	54.6	3.0
12.5		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft	10-15-14-15	1.7	56.8	39.8	3.4
		A-1-a, SaGr, brn, Moist, Rec. = 1.4 ft	10-13-28-35	1.5	67.1	30.1	2.8
15.0		Hole stopped @ 14.0 ft					
17.5		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 6.9 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 WATERBURY FEGC F013-4(13).GPJ VERMONT AOT.GDT 10/24/13



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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-108**

Page No.: 1 of 1

Pin No.: 85B006

Checked By: CEE

Boring Crew: GARROW, HALL, STAAB

Date Started: 8/22/13 Date Finished: 8/22/13

VTSPG NAD83: N 668373.43 ft E 1574492.78 ft

Station: 69+96.9 Offset: -15.10

Ground Elevation: 427.04 ft

Casing H.S.A. SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID $C_r = 1.34$

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.8 ft					
		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft	10-20-22-20	4.0	61.3	29.6	9.1
2.5		A-2-4, SiSa, brn, Moist, Rec. = 1.4 ft		8.1	15.7	59.4	24.9
		A-2-4, SiSa, brn, Moist, Rec. = 2.0 ft	7-6-6-5	10.7		72.1	27.9
5.0		A-3, Sa, brn, Moist, Rec. = 2.0 ft	3-3-4-3	7.0		91.5	8.5
		A-2-4, Sa, brn, Moist, Rec. = 2.0 ft	3-4-4-5	8.8	0.2	86.4	13.4
7.5		A-3, Sa, brn, Moist, Rec. = 2.0 ft	2-3-5-4	8.1	0.9	90.1	9.0
10.0							
		Hole stopped @ 11.0 ft					
12.5		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 6.2 ft.					
15.0							
17.5							

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

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WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-109**

Page No.: **1 of 1**

Pin No.: **85B006**

Checked By: **CEE**

Boring Crew: **GARROW, HALL, STAAB**

Date Started: **8/22/13** Date Finished: **8/22/13**

VTSPG NAD83: **N 667966.20 ft E 1574770.05 ft**

Station: **74+89.4** Offset: **-2.80**

Ground Elevation: **428.96 ft**

	Casing	Sampler
Type:	H.S.A.	SS
I.D.:	4.25 in	3 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	C_u = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.68 ft	6-6-8-7	8.5	1.9	73.8	24.3
		Concrete, 0.68 ft - 1.38 ft					
2.5		A-2-4, SiSa, brn, Moist, Rec. = 2.0 ft	1-3-2-4	11.1	5.9	66.0	28.1
5.0		A-2-4, SiSa, brn, Moist, Rec. = 2.0 ft					
7.5		A-4, SiSa, brn, Moist, Rec. = 2.0 ft	2-2-2-2	16.9	1.7	57.7	40.6
		A-4, SiSa, brn, Moist, Rec. = 1.7 ft	1-2-4-5	20.4	1.1	67.3	31.6
10.0		A-1-a, SaGr, brn, Moist, Rec. = 0.3 ft	2-10-17-19	4.0	68.8	28.5	2.7
		A-1-a, SaGr, brn, Moist, Rec. = 1.7 ft		3.1	57.1	39.6	3.3
12.5		Hole stopped @ 12.0 ft					
15.0		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 6.2 ft.					
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. 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 WATERBURY FEGC F013-4(13).GPJ VERMONT AOT.GDT 10/24/13



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

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-110**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: GARROW, HALL, STAAB
Date Started: 8/22/13 Date Finished: 8/22/13
VTSPG NAD83: N 667561.67 ft E 1575059.91 ft
Station: 79+86.9 Offset: -12.70
Ground Elevation: 426.55 ft

Casing Sampler
Type: H.S.A. SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C_r = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.56 ft					
		Visual Description:., Mostly Broken Concrete with Gravel & Sand, gry-brn, Moist, Rec. = 0.5 ft	42-38-32-24	8.5	53.9	35.4	10.7
2.5		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft		8.5	17.6	55.0	27.4
		A-4, Si, brn, Moist, Rec. = 0.5 ft	3-5-4-6	26.6		15.7	84.3
		A-4, SiSa, brn, Moist, Rec. = 1.5 ft		15.4		56.4	43.6
5.0		A-4, SaSi, brn, Moist, Rec. = 0.1 ft	1-3-3-4	21.5	0.2	21.1	78.7
		A-4, SiSa, brn, Moist, Rec. = 1.9 ft		15.4		56.7	43.3
7.5		A-4, SaSi, brn, Moist, Rec. = 2.0 ft	2-3-3-3	20.5		47.4	52.6
10.0		A-2-4, Sa, brn, Moist, Rec. = 2.0 ft	2-2-2-2	12.7	0.5	84.6	14.9
		A-2-4, GrSa, brn, Moist, Rec. = 0.5 ft	R@6.0"	11.2	32.9	55.0	12.1
12.5		Hole stopped @ 11.5 ft CNPF					
		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 6.8 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_r 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 WATERBURY FEGC F013-4(13).GPJ VERMONT AOT.GDT 10/24/13



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

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-111**

Page No.: 1 of 1

Pin No.: 85B006

Checked By: CEE

Boring Crew: GARROW, STAAB

Date Started: 8/24/13 Date Finished: 8/24/13

VTSPG NAD83: N 667206.76 ft E 1575410.60 ft

Station: 84+89.8 Offset: -3.00

Ground Elevation: 424.76 ft

Casing H.S.A. Sampler SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C₁ = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
08/24/13	14.0	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.56 ft					
		Concrete, 0.56 ft - 1.12 ft					
2.5		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft	9-18-17-13	5.3	30.4	54.3	15.3
		A-4, SaSi, brn-gry, Moist, Rec. = 1.1 ft		19.0	0.9	41.0	58.1
5.0		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft	7-10-6-8	8.3	14.3	58.8	26.9
		A-4, Si, gry, Moist, Rec. = 1.0 ft		24.6		13.6	86.4
7.5		A-4, Si, gry, Moist, Rec. = 1.8 ft	2-7-6-4	25.3		14.2	85.8
		A-4, SaSi, gry, MTW, Rec. = 1.3 ft	2-2-3-4	23.8		30.1	69.9
10.0		A-2-4, Sa, brn, Moist, Rec. = 0.6 ft		16.1		85.3	14.7
		A-4, SaSi, gry, Moist, Rec. = 0.2 ft	3-6-18-40	20.1	0.1	33.2	66.7
		A-3, Sa, brn, Moist, Rec. = 1.0 ft		16.4	0.1	91.4	8.5
12.5		A-1-a, SaGr, red, Moist, Rec. = 0.8 ft, Lab Note: Sample was Reddish to Dark Orange in color.		8.2	50.2	45.0	4.8
		A-1-a, SaGr, red, Moist, Rec. = 1.0 ft, Lab Note: Sample was Dark Red in color.	26-54	4.9	68.2	27.4	4.4
15.0		A-1-a, SaGr, red-brn, Moist, Rec. = 1.2 ft, Lab Note: Sample was Orange/Red in color.	10-14-13-13	9.4	60.8	34.1	5.1
17.5		Hole stopped @ 16.0 ft					
		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 10.6 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. C₁ 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 WATERBURY FEGC F013-4(13),GPJ VERMONT AOT.GDT 10/24/13



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

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-112**

Page No.: 1 of 1

Pin No.: 85B006

Checked By: CEE

Boring Crew: GARROW, STAAB
Date Started: 8/23/13 Date Finished: 8/23/13
VTSPG NAD83: N 666926.98 ft E 1575733.31 ft
Station: 89+16.9 Offset: -6.00
Ground Elevation: 426.28 ft

Casing H.S.A. Sampler SS
I.D.: 4.25 in 3 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C_r = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.54 ft					
2.5	x x x x x x x x x x x x	Lab Note, Crushed Stone Fill, brn, Moist, Rec. = 1.3 ft	17-34-24-24	2.7	73.6	20.9	5.5
		A-4, SiSa, brn, Moist, Rec. = 1.1 ft	9-10-11-3	11.6	0.3	61.3	38.4
5.0		A-3, Sa, brn, Moist, Rec. = 0.7 ft		2.9	15.9	77.8	6.3
		A-1-a, SaGr, brn, Moist, Rec. = 1.9 ft	6-12-12-16	1.8	55.3	40.9	3.8
7.5		A-1-a, SaGr, brn, Moist, Rec. = 1.5 ft	6-13-15-16	2.8	57.0	38.5	4.5
10.0		A-1-a, SaGr, brn, Moist, Rec. = 1.6 ft	7-18-18-25	2.9	63.7	32.5	3.8
		Hole stopped @ 11.0 ft					
12.5		Remarks: 1. Driller's used a 3.0 inch split spoon sampler. 2. Hole collapsed at 5.2 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 _r 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
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-113**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: GARROW, HALL
Date Started: 8/29/13 Date Finished: 8/29/13
VTSPG NAD83: N 670004.99 ft E 1573325.78 ft
Station: 49+91.0 Offset: -25.40
Ground Elevation: 441.11 ft

Casing Sampler
Type: H.S.A. SS
I.D.: 4.25 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 to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Concrete, 0.0 ft - 0.57 ft					
		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft	5-6-4-6 (10)	6.7	41.4	43.4	15.2
		A-4, SiSa, brn, Moist, Rec. = 1.7 ft	4-4-3-4 (7)	11.5	0.2	63.1	36.7
5		A-3, Sa, brn, Moist, Rec. = 1.2 ft	3-3-6-6 (9)	4.0	18.1	76.8	5.1
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft	2-9-9-10 (18)	2.8	53.2	38.6	8.2
10		A-1-a, SaGr, brn, Moist, Rec. = 1.5 ft	7-12-16-19 (28)	3.1	52.7	37.1	10.2
		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft	12-16-16-17 (32)	2.6	55.4	35.3	9.3
		Visual Description:, GrSa, brn, Moist, Rec. = 0.5 ft, Insufficient sample for testing.	6-6-7-6 (13)	3.1			
15		A-4, Si, brn, Moist, Rec. = 1.2 ft	5-3-4-3 (7)	28.9	3.0	5.0	92.0
20		A-4, Si, gry, MTW, Rec. = 1.5 ft	2-3-3-2 (6)	28.5	0.5	8.1	91.4
25		A-4, Si, gry, Wet, Rec. = 1.1 ft	2-5-4-4 (9)	29.1	0.3	5.3	94.4
		Hole stopped @ 27.0 ft					
30		Remarks: 1. Hole collapsed at 6.0 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_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.

BORING LOG 2 WATERBURY FEGC F013-4(13).GPJ VERMONT AOT.GDT 10/24/13



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

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-115**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: GARROW, HALL
Date Started: 8/26/13 Date Finished: 8/26/13
VTSPG NAD83: N 668853.49 ft E 1574153.24 ft
Station: 64+08.9 Offset: -18.10
Ground Elevation: 428.15 ft

Casing H.S.A. Sampler SS
I.D.: 4.25 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 C_s = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
08/26/13	17.2	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.89 ft					
		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft	3-9-9-5 (18)	10.1	15.7	52.8	31.5
		A-2-4, SiGrSa, brn, Moist, Rec. = 0.7 ft	3-4-4-2 (8)	8.5	25.9	49.3	24.8
5		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft	1-2-2-2 (4)	10.1	0.3	77.9	21.8
		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft	1-2-2-1 (4)	8.9	2.0	75.7	22.3
10		A-2-4, SiSa, brn, Moist, Rec. = 1.4 ft	2-1-2-2 (3)	9.9	0.6	79.1	20.3
		A-3, Sa, brn, Moist, Rec. = 1.4 ft	2-2-1-2 (3)	9.3	0.1	90.5	9.4
		Visual Description:, SaGr, brn, Moist, Rec. = 0.15 ft, Insufficient sample for testing.	7-18-18-19 (36)				
15		A-1-a, SaGr, brn, Moist, Rec. = 1.2 ft	9-13-17-13 (30)	2.9	55.6	35.4	9.0
20		A-1-b, SaGr, brn, Wet, Rec. = 0.9 ft	4-13-17-17 (30)	12.8	46.2	41.4	12.4
25		A-4, SaSi, gry, Wet, Rec. = 1.4 ft	1-3-5-4 (8)	25.5	2.0	27.0	71.0
		Hole stopped @ 27.0 ft					
30		Remarks: 1. Hole collapsed at 12.6 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_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.

BORING LOG 2 WATERBURY FEGC F013-4(13).GPJ VERMONT AOT.GDT 10/24/13



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

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-116**

Page No.: **1 of 1**

Pin No.: **85B006**

Checked By: **CEE**

Boring Crew: **GARROW, HALL, STAAB**

Date Started: **9/03/13** Date Finished: **9/03/13**

VTSPG NAD83: **N 668841.52 ft E 1574181.37 ft**

Station: **64+35.1** Offset: **-34.00**

Ground Elevation: **429.12 ft**

Casing Sampler
Type: **H.S.A.** **SS**
I.D.: **4.25 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_u = 1.46**

Groundwater Observations

Date	Depth (ft)	Notes
09/03/13	21.6	While drilling.
09/05/13	18.5	From top of well.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, GrSiSa, brn, Moist, Rec. = 0.9 ft		2-3-4-2 (7)	9.2	22.3	52.5	25.2
		A-2-4, SiSa, brn, Moist, Rec. = 0.5 ft		WH-WH-1-1 (1)	9.7	19.1	49.1	31.8
		A-4, SiSi, brn, Moist, Rec. = 1.7 ft		1-2-2-2 (4)	13.1	2.6	61.0	36.4
		A-2-4, Sa, brn, Moist, Rec. = 1.4 ft		2-1-2-2 (3)	8.0	4.4	77.7	17.9
		A-3, Sa, brn, Moist, Rec. = 1.4 ft		1-1-1-1 (2)	6.5	0.7	89.4	9.9
10		A-2-4, SiSa, brn, Moist, Rec. = 1.3 ft		1-2-1-1 (3)	12.6	0.3	74.6	25.1
		A-2-4, Sa, brn, Moist, Rec. = 1.5 ft		1-2-1-5 (3)	8.3	0.7	85.8	13.5
		Visual Description: SaGr, brn, Moist, Rec. = 0.2 ft, Material similar as 14-16 ft., Insufficient sample for testing.		3-12-11-13 (23)	3.2	53.4	36.9	9.7
20		A-1-a, SaGr, brn, Moist, Rec. = 1.3 ft						
		A-1-a, SaGr, brn, Wet, Rec. = 0.8 ft		2-3-2-2 (5)	14.2	58.3	31.1	10.6
25		A-1-b, SaGr, brn, Wet, Rec. = 0.3 ft		2-3-4-3 (7)	16.4	44.0	41.2	14.8
		A-4, Si, gry, Wet, Rec. = 0.9 ft			28.3	1.1	6.0	92.9
30	Hole stopped @ 27.0 ft							
	Remarks: 1. Installed one 1.5 inch Monitoring Well. 2. Well goes to 25.0 feet with 5 feet of screen from 20.0 to 25.0 feet. 3. Top of Well is at ground surface.							
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 WATERBURY FEGC F013-4(13).GPJ VERMONT AOT.GDT 10/24/13



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

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-117**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: GARROW, HALL
Date Started: 8/27/13 Date Finished: 8/27/13
VTSPG NAD83: N 668767.12 ft E 1574154.84 ft
Station: 64+80.2 Offset: 30.90
Ground Elevation: 427.94 ft

Casing H.S.A. Sampler SS
I.D.: 4.25 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 C_a = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
08/27/13	17.0	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-4, SiSa, brn, Moist, Rec. = 0.2 ft	WH-WH-1 (WH) WH-WH-2-2 (2)	18.8	12.4	44.9	42.7
		A-4, SiSa, brn, Moist, Rec. = 0.6 ft		13.6		56.8	43.2
		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft	3-2-2-3 (4)	11.3	0.2	70.9	28.9
		A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft	1-3-2-3 (5)	11.8	8.1	68.1	23.8
10		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	4-8-10-9 (18)	5.1	31.9	57.2	10.9
		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft	5-8-9-13 (17)	2.8	45.5	44.8	9.7
		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft	4-5-9-11 (14)	2.3	58.9	32.8	8.3
		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft	7-14-13-18 (27)	2.2	57.6	34.0	8.4
20							
		A-1-a, SaGr, brn, Wet, Rec. = 0.8 ft	4-7-6-8 (13)	12.9	54.4	37.9	7.7
25		A-1-b, SaGr, brn, Wet, Rec. = 0.3 ft	5-8-6-8 (14)	13.3	43.7	42.8	13.5
		A-4, Si, gry, Wet, Rec. = 0.1 ft		29.2	0.4	19.4	80.2
		Hole stopped @ 27.0 ft					
30		Remarks: 1. Hole collapsed at 9.4 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.						



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

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-118**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: GARROW, HALL, STAAB
Date Started: 9/03/13 Date Finished: 9/03/13
VTSPG NAD83: N 667739.64 ft E 1574891.87 ft
Station: 77+45.1 Offset: 25.50
Ground Elevation: 428.37 ft

Casing Sampler
Type: H.S.A.
I.D.: 4.25 in
Hammer Wt: N.A. N.A.
Hammer Fall: N.A. N.A.
Hammer/Rod Type: AWJ
Rig: CME 45C SKID C_r = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
09/03/13		No water to depth.
09/05/13		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		Field Note:, SiSa, brn, Moist						
5.0								
7.5								
10.0								
12.5								
15.0		Field Note:, Cobbles & Gravel, brn, Moist						
17.5		Hole stopped @ 15.0 ft CNPF, TLOB Remarks: 1. Installed one 1.5 inch Monitoring Well. 2. Well goes to 15.0 feet with 5 feet of screen from 10.0 to 15.0 feet. 3. Top of Well is at ground surface.						

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_r 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
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-119**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: GARROW, JUDKINS, STAAB
Date Started: 9/04/13 Date Finished: 9/04/13
VTSPG NAD83: N 669671.57 ft E 1573507.56 ft
Station: 53+67.6 Offset: 23.20
Ground Elevation: 423.58 ft

Casing Sampler
Type: H.S.A.
I.D.: 4.25 in
Hammer Wt: N.A. N.A.
Hammer Fall: N.A. N.A.
Hammer/Rod Type: AWJ
Rig: CME 45C SKID C₂ = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
09/04/13	22.9	While drilling.
09/05/13	12.5	From top of well.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Field Note:, GrSiSa, brn, Moist						
10		Field Note:, SaSi, brn-gry, MTW						
15		Field Note:, SaSi, gry, MTW						
25		Field Note:, SaSi, gry, Wet						
		Hole stopped @ 25.0 ft						
30								

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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BORING LOG

WATERBURY
FEGC F013-4(13)
US-2 ROADWAY

Boring No.: **B-120**
Page No.: 1 of 1
Pin No.: 85B006
Checked By: CEE

Boring Crew: GARROW, JUDKINS, STAAB
Date Started: 9/04/13 Date Finished: 9/04/13
VTSPG NAD83: N 670968.48 ft E 1572643.57 ft
Station: 38+13.2 Offset: 30.60
Ground Elevation: 417.92 ft

Casing Sampler
Type: H.S.A.
I.D.: 4.25 in
Hammer Wt: N.A. N.A.
Hammer Fall: N.A. N.A.
Hammer/Rod Type: AWJ
Rig: CME 45C SKID C_s = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
09/04/13	14.9	While drilling.
09/05/13	13.2	From top of well.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Field Note:, SiGrSa, brn, Moist						
10		Field Note:, GrSaSi, brn, MTW						
15		Field Note:, SaSi, brn, Wet						
20								
25		Hole stopped @ 25.0 ft						
30		Remarks: 1. Installed one 1.5 inch Monitoring Well. 2. Well goes to 19.1 feet with 5 feet of screen from 14.1 to 19.1 feet. 3. Top of Well is at ground surface.						

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.