



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

BORING LOG

Boring No.: B-101
Page No.: 1 of 2
Pin No.: 11C264
Checked By: LAR

BRIDPORT
STP CULV(29)
VT-125 BR-2&5

Boring Crew: GARROW, WHITLOCK
Date Started: 9/19/12 Date Finished: 9/21/12
VTSFG NAD83: N 546829.94 ft E 1416137.25 ft
Station: 12+65 Offset: 5.00
Ground Elevation: 156.0 ft

Casing Sampler
Type: WB SS
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID CE = 1.33

Groundwater Observations
Date Depth (ft) Notes
09/21/12 19.4 AM, Casing in HP

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 1.7 ft							
5		Field Note: GrSa with a lot of Asphalt Pavement, blk-brn, Moist, Rec. = 0.5 ft	9-14-11-7 (25)						
		A-7-6, Cl, gry, Moist, Rec. = 0.4 ft	2-2-1-2 (3)	32.2	17.5	5.9	76.6	66	38
10		Shelby Tube, gry, Moist, Rec. = 1.6 ft, 9.0 ft - 11.0 ft							
		Shelby Tube, gry, Moist, Rec. = 1.7 ft, 11.0 ft - 13.0 ft							
15		A-7-6, Cl, gry, Moist, Rec. = 1.8 ft	WH-3-3-3 (6)	38.1	1.1	2.1	96.8	65	38
		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft	4-5-6-3 (11)	10.5	55.2	36.8	8.0		
20		A-4, GrSaSi, gry, Moist, Rec. = 0.3 ft	R05.0"	7.9	23.3	29.7	47.0		
25		A-4, SaGrSi, gry, Moist, Rec. = 0.4 ft	28-R05.0"	7.1	31.1	29.7	39.2		
30		Field Note: Cobble, Clean out casing							
		A-4, SaSi, gry, Moist, Rec. = 0.7 ft	44-R05.0"	7.0	19.1	30.7	50.2		
35		A-4, GrSaSi, gry, Moist, Rec. = 0.6 ft	25-43-R03.5"	8.0	24.2	28.1	47.7		

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 of fines and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



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Boring No.: B-101
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Checked By: LAR

BRIDPORT
STP CULV(29)
VT-125 BR-2&5

Boring Crew: GARROW, WHITLOCK
Date Started: 9/19/12 Date Finished: 9/21/12
VTSFG NAD83: N 546829.94 ft E 1416137.25 ft
Station: 12+65 Offset: 5.00
Ground Elevation: 156.0 ft

Casing Sampler
Type: WB SS
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID CE = 1.33

Groundwater Observations
Date Depth (ft) Notes
09/21/12 19.4 AM, Casing in HP

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
45		A-4, SaSi, gry, Moist, Rec. = 1.1 ft	22-33-40-R (73)	6.9	19.4	31.0	49.6		
50		A-4, SaGrSi, gry, Moist, Rec. = 0.6 ft	26-37-R05.0"	7.3	28.9	27.1	44.0		
55		A-4, SaGrSi, gry, Moist, Rec. = 1.2 ft	18-29-30-R (59)	7.3	31.2	27.5	41.3		
60		Visual Description: SaGrSi, gry, Moist, Rec. = 0.3 ft, insufficient sample for testing. Similar material to 52.0 - 53.8 ft.	16-30-39-R (69)	8.6					
65		Field Note: No Recovery. Appears to be the same material	26-37-R05.0"						
70		Visual Description: SaGrSi HP, gry, Moist, Rec. = 0.3 ft, insufficient sample for testing. Similar material to 52.0 - 53.8 ft.	28-32-36-R (66)	6.3					
75		Visual Description: SaSiGr with Broken Rock, gry, Moist, Rec. = 0.2 ft, insufficient sample for testing.	21-24-33-R (57)	6.2					
		Hole stopped @ 73.9 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 of fines and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



BORING LOG

BRIDPORT
STP CULV(29)
VT-125 BR-2&5

Boring No.: B-102
Page No.: 1 of 2
Pin No.: 11C264
Checked By: LAR

Boring Crew: GARROW, WHITLOCK
Date Started: 9/10/12 Date Finished: 9/12/12
VTSPG NAD83: N 546823.89 ft E 1416173.72 ft
Station: 12+95 Offset: -10.00
Ground Elevation: 157.0 ft

Casing Sampler
Type: WB SS
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID CE = 1.33

Groundwater Observations
Date Depth (ft) Notes
09/12/12 6.0 AM, Casing in HP

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 1.8 ft							
		Field Note: SaGr with a lot of Asphalt Pavement, blk, Moist, Rec. = 0.5 ft	4-2-1-3 (3)						
5		A-7-6, SaCl, gry, Moist, Rec. = 0.6 ft	WH-1-2-3 (3)	28.7	6.4	40.9	52.7	56	33
		Field Note: Roller Coned ahead in Clay							
		Field Note: CI Shelby Tube, gry, Moist, Rec. = 1.8 ft							
		Field Note: Roller Coned ahead in Clay							
		Field Note: CI Shelby Tube, gry, Moist, Rec. = 2.0 ft							
15		A-7-6, Cl, gry, Moist, Rec. = 0.8 ft	2-6-10-17 (16)	34.1	1.8	3.4	94.8	49	21
		A-1-b, GrSa, brn, Moist, Rec. = 0.4 ft		11.7	33.7	56.9	9.4		
		A-4, GrClSi, gry, Moist, Rec. = 0.4 ft	8-22-28-19 (50)	32.8	32.2	18.0	49.8	35	10
		A-4, SaGrSi, gry, Moist, Rec. = 1.5 ft		8.8	35.4	28.8	35.8		
		A-4, GrSaSi, gry, Moist, Rec. = 1.3 ft	8-17-25-50 (42)	8.4	27.2	35.7	37.1		
		A-2-4, SiSaGr, gry, Moist, Rec. = 0.8 ft	44- R05.0"	7.5	41.9	30.5	27.6		
		Visual Description: SiSaGr, gry, Moist, Rec. = 0.2 ft, Insufficient sample for testing. Material similar to 26-26.9 ft.	R02.5"	7.1					
		A-4, SaSi, gry, Moist, Rec. = 0.6 ft	35- R05.0"	7.1	19.6	33.7	46.7		
		A-4, GrSaSi, gry, Moist, Rec. = 0.8 ft	10-39- 45-R (84)	7.2	20.4	32.1	47.5		
		A-2-4, SaSiGr, gry, Moist, Rec. = 0.4 ft	R05.0"	7.0	46.0	25.7	28.3		
		A-4, GrSaSi, gry, Moist, Rec. = 0.5 ft	28- R05.0"	6.7	28.5	31.3	40.2		
		Field Note: Cleaned out Cobble							
		A-4, GrSaSi, gry, Moist, Rec. = 0.9 ft	49- R05.0"	7.0	26.3	30.9	42.8		

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 of groundwater may occur due to other factors than those present at the time measurements were made.



BORING LOG

BRIDPORT
STP CULV(29)
VT-125 BR-2&5

Boring No.: B-102
Page No.: 2 of 2
Pin No.: 11C264
Checked By: LAR

Boring Crew: GARROW, WHITLOCK
Date Started: 9/10/12 Date Finished: 9/12/12
VTSPG NAD83: N 546823.89 ft E 1416173.72 ft
Station: 12+95 Offset: -10.00
Ground Elevation: 157.0 ft

Casing Sampler
Type: WB SS
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID CE = 1.33

Groundwater Observations
Date Depth (ft) Notes
09/12/12 6.0 AM, Casing in HP

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-4, GrSaSi, gry, Moist, Rec. = 0.4 ft	5-16-46- R (62)	7.2	21.8	35.2	43.0		
45		A-4, SaGrSi, gry, Moist, Rec. = 1.2 ft	28-33- R06.0"	6.6	29.6	28.5	41.9		
50		A-4, SaGrSi, gry, Moist, Rec. = 1.4 ft	18-35- R06.0"	6.8	28.0	27.4	44.6		
55		A-4, GrSaSi, gry, Moist, Rec. = 0.5 ft	15-34- R05.0"	7.3	28.1	29.0	42.9		
60		A-4, SaGrSi, gry, Moist, Rec. = 1.1 ft	12-24- 41-R (65)	7.2	32.8	26.8	40.4		
65		A-4, GrSaSi, gry, Moist, Rec. = 1.0 ft	20-28- 37-R (65)	7.8	24.8	30.1	45.1		
70		Field Note: No Recovery. Appears to be the same material	13-31- R05.0"						
75		Hole stopped @ 74.4 ft							

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BORING LOG - 2 BRIDPORT STP CULV(29) (P) - VERMONT DOT DOT 1/10/13

BORING LOG - 2 BRIDPORT STP CULV(29) (P) - VERMONT DOT DOT 1/10/13



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BORING LOG

BRIDPORT
 STP CULV(29)
 VT-125 BR-2&5

Boring No.: B-103
 Page No.: 1 of 1
 Pin No.: 11C264
 Checked By: LAR

Boring Crew: GARROW, WHITLOCK, JUDKINS
 Date Started: 9/26/12 Date Finished: 9/26/12
 VTSPG NAD83: N 543946.30 ft E 1434962.90 ft
 Station: 22+69 Offset: -7.00
 Ground Elevation: 244.2 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 45C SKID CE = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes
		None taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0 - 0.7		Asphalt Pavement, 0.0 ft - 0.7 ft							
5		A-4, SaSi, gry, Moist, Rec. = 0.2 ft, Lab Note: Clay was noticeable. Insufficient sample for extra testing.	2-2-2-3 (4)	33.8	8.5	38.3	53.2		
10		A-7-6, Cl, gry, Moist, Rec. = 1.9 ft	WH-WH-2-2 (2)	47.2	1.4	1.7	96.9	68	42
		A-7-6, Cl, gry, Moist, Rec. = 1.3 ft, Shelby Tube sample U1		38.9				67	42
15		Cl Shelby Tube, gry, Moist, Rec. = 1.9 ft, 14.0 ft - 16.0 ft							
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	2-2-3-2 (5)	42.4		1.2	98.8	60	36
20		Visual Description:, Cl, gry, Moist, Rec. = 1.9 ft, Material similar to 16-18 ft.	WH-1-2-WH (3)	47.2					
		Visual Description:, Cl, gry, Moist, Rec. = 2.0 ft, Material similar to 16-18 ft.	(WH)	45.8					
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	(WH)	57.9		0.8	99.2	53	31
25		Visual Description:, Cl, gry, Moist, Rec. = 2.0 ft, Material similar to 22-24 ft.	(WH)	51.5					
		Visual Description:, Cl, gry, Moist, Rec. = 2.0 ft, Material similar to 28-30 ft.	(WH)	65.6					
30		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	(WH)	51.7		0.7	99.3	52	30
35		Visual Description:, Cl, gry, Moist, Rec. = 2.0 ft, Material similar to 38-40 ft.	WR-WR-WH-WH (WH)	47.9					
40		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	(WH)	71.6		0.5	99.5	54	32
40.0		Hole stopped @ 40.0 ft							
45		Remarks: Hole collapsed at 26.0 ft.							

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BORING LOG 2 BRIDPORT STP CULV(29).GPJ - VERMONT AOT.GDT 1/10/13



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BORING LOG

BRIDPORT
STP CULV(29)
VT-125 BR-2&5

Boring No.: B-104

Page No.: 1 of 1

Pin No.: 11C264

Checked By: LAR

Boring Crew: GARROW, JUDKINS
Date Started: 9/27/12 Date Finished: 9/27/12
VTSPG NAD83: N 543935.50 ft E 1434996.60 ft
Station: 22+88 Offset: 11.00
Ground Elevation: 245.0 ft

Casing: WB
Sampler: SS
Type: WB SS
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
		None taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.9 ft							
5		A-2-4, SiSaGr, gry, Moist, Rec. = 0.7 ft	6-4-4-4 (8)	13.6	36.7	36.3	27.0		
10		A-7-6, Cl, brn-gry, Moist, Rec. = 1.3 ft	2-2-3-3 (5)	38.2	0.1	6.1	93.8	59	30
		A-7-6, Cl, brn-gry, Moist, Rec. = 1.2 ft, Shelby Tube sample U1		36.2				65	38
15		Cl Shelby Tube, gry, Moist, Rec. = 1.9 ft, 14.0 ft - 16.0 ft							
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	2-2-2-3 (4)	43.8		1.2	98.8	70	42
		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft, Lab Note: Very wet sample.	(WH)	59.0	2.1	1.9	96.0	68	38
20		Visual Description:, Cl, gry, Moist, Rec. = 1.7 ft, Material similar to 22-24 ft.	WH-WH-2-2 (2)	56.6					
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	(WH)	53.4		0.6	99.4	68	38
25		Visual Description:, Cl, gry, Moist, Rec. = 2.0 ft, Material similar to 22-24 ft.	(WH)	59.1					
		Visual Description:, Cl, gry, MTW, Rec. = 2.0 ft, Material similar to 28-30 ft.	(WH)	56.6					
30		A-7-5, Cl, gry, Moist, Rec. = 2.0 ft	(WH)	68.6		0.5	99.5	72	42
35		Visual Description:, Cl, gry, MTW, Rec. = 2.0 ft, Material similar to 28-30 ft.	(WH)	70.9					
40		Visual Description:, Cl, gry, MTW, Rec. = 2.0 ft, Material similar to 28-30 ft.	WR-WR-WH-WH (WH)	72.3					
		Hole stopped @ 40.0 ft							
45		Remarks: Hole collapsed at 26.0 ft.							

Notes:

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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.