



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

BORING LOG

EAST MONTPELIER  
STP SCR(9)  
VT. 14

Boring No.: B-101  
Page No.: 1 of 1  
Pin No.: 10B200  
Checked By: CEE

Boring Crew: PORTER, GARROW, WHITLOCK  
Date Started: 3/15/11 Date Finished: 3/15/11  
VTSPG NAD83: N 638163.50 ft E 1643907.10 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: \_\_\_\_\_

Casing Type: H.S.A. I.D.: 3 in  
Sampler Type: SS I.D.: 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
03/15/11	3.9	Same Day.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note:, Frozen ground, No Sample.					
		A-4, SaSi, brn, Moist, Rec. = 1.4 ft	6-5-8-3 (13)	24.6	15.0	40.8	44.2
5		A-4, SaSi, brn, Moist, Rec. = 0.8 ft	3-2-2-2 (4)	26.5	4.2	37.9	57.9
		Field Note:, No Recovery, Appears to be Silty Sand.	1-1-2-2 (3)				
		A-4, SaSi with pieces of Brick and Wood, brn, Moist, Rec. = 0.8 ft	WH-2-5-3 (7)	37.9	4.3	31.8	63.9
10		Hole stopped @ 10.0 ft CNPf, Large Wood Object					
		Remarks: Moved Hole and named it B-101A.					
15							
20							
25							
30							

BORING LOG 2 EAST MONTPELIER STP SCR(9).GPJ VERMONT AOT.GDT 7/7/11

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.



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VT. 14

Boring No.: B-101A

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Pin No.: 10B200

Checked By: CEE

Boring Crew: PORTER, GARROW, WHITLOCK  
Date Started: 3/15/11 Date Finished: 3/15/11  
VTSPG NAD83: N 638167.90 ft E 1643909.40 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: \_\_\_\_\_

Casing Type: H.S.A. I.D.: 3 in  
Sampler Type: SS I.D.: 1.5 in  
Hammer Wt: N.A. Hammer Fall: N.A.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Groundwater Observations				
			Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note:, Frozen ground, No Sample.					
		A-2-4, GrSiSa, brn, Moist, Rec. = 0.9 ft	10-5-4-4 (9)	20.0	27.8	43.5	28.7
5		Field Note:, No Recovery	1-3-7-10 (10)				
		Hole stopped @ 6.0 ft CNPF, Possible Boulder					
10		Remarks: Moved hole and named it B-101B.					
15							
20							
25							
30							

BORING LOG 2 EAST MONTPELIER STP SCR(9).GPJ VERMONT AOT.GDT 7/7/11

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EAST MONTPELIER  
STP SCR(9)  
VT. 14

Boring No.: B-101B  
Page No.: 1 of 1  
Pin No.: 10B200  
Checked By: CEE

Boring Crew: PORTER, GARROW, WHITLOCK  
Date Started: 3/15/11 Date Finished: 3/22/11  
VTSPG NAD83: N 638164.60 ft E 1643902.70 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: \_\_\_\_\_

Casing Type: H.S.A. I.D.: 3 in  
Sampler SS 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
03/22/11	3.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Frozen Ground, No Sample.					
		A-4, SiSa, brn, Moist, Rec. = 0.3 ft	WH-1-1-2 (2)	29.8	13.7	45.4	40.9
5		A-4, SaSi, brn, Wet, Rec. = 1.4 ft, Lab Note: A very thin layer of clay was noticed.	WH-1-1-2 (2)	28.7	5.5	46.9	47.6
		A-4, SiSa, brn, Wet, Rec. = 0.3 ft	WH-3-4-5 (7)	30.6	7.5	46.4	46.1
		A-4, Si, brn, Wet, Rec. = 1.9 ft	4-4-5-8 (9)	37.9	0.6	4.9	94.5
10		A-4, Si, brn, Wet, Rec. = 1.3 ft	1-3-4-6 (7)	32.8		5.9	94.1
		A-4, Si, brn, Wet, Rec. = 1.3 ft	3-3-4-5 (7)	40.3		1.8	98.2
15		A-4, Si, brn, Wet, Rec. = 2.0 ft	3-5-5-4 (10)	38.1		2.8	97.2
		A-4, Si, brn, Wet, Rec. = 1.1 ft	4-5-5-7 (10)	31.8	0.1	7.9	92.0
20							
		A-4, Si, brn, Wet, Rec. = 2.0 ft	2-2-4-3 (6)	34.1		3.7	96.3
25		Hole stopped @ 25.0 ft					
30							

BORING LOG 2 EAST MONTPELIER STP SCR(9).GPJ VERMONT AOT.GDT 7/7/11

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BORING LOG

EAST MONPELIER  
STP SCRP(9)  
VT. 14

Boring No.: B102  
Page No.: 1 of 1  
Pin No.: 10B200  
Checked By: CEE

Boring Crew: PORTER, GARROW, WHITLOCK  
Date Started: 3/14/11 Date Finished: 3/14/11  
VTSPG NAD83: N 638193.10 ft E 1643939.50 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: \_\_\_\_\_

Casing: H.S.A. 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

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Frozen ground., No Sample.					
5		A-2-4, SiSa, brn, Moist, Rec. = 2.0 ft	6-4-1-2 (5)	27.2	6.2	63.0	30.8
		A-4, SiSa, brn, MTW, Rec. = 1.3 ft	2-2-1-1 (3)	28.8	7.2		
		A-2-4, SiSa, brn, Wet, Rec. = 1.5 ft	WH-1-2-2 (3)	29.4	15.7	53.4	30.9
10		A-4, SiSa, brn, MTW, Rec. = 0.5 ft	1-1-3-5 (4)	23.2	7.9	47.0	45.1
		A-4, SaSi, brn, MTW, Rec. = 1.2 ft	2-3-4-5 (7)	28.9	14.1	22.6	63.3
		A-4, Si, brn, MTW, Rec. = 1.1 ft	3-3-4-3 (7)	33.2	0.2	8.5	91.3
15		A-4, Si, brn, MTW, Rec. = 1.4 ft	3-2-4-5 (6)	35.0	0.1	2.7	97.2
20		A-4, Si, brn, MTW, Rec. = 1.4 ft	2-2-2-4 (4)	33.9	0.1	5.0	94.9
25		A-4, SaSi, brn, MTW, Rec. = 2.0 ft	2-3-3-4 (6)	31.1		23.8	76.2
		Hole stopped @ 26.0 ft					
30		Remarks: Water table was at 18.0 feet on 03/14/11 with 24.0 feet of Hollow Stem Auger in the ground. Hole collapsed at 3.5 feet when the auger was removed.					

BORING LOG 2 EAST MONPELIER STP SCRP(9).GPJ VERMONT AOT.GDT 7/7/11

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BORING LOG

EAST MONTPELIER  
STP SCRIP(9)  
VT. 14

Boring No.: B-201  
Page No.: 1 of 1  
Pin No.: 10B200  
Checked By: CEE

Boring Crew: WERNER, WELLS  
Date Started: 5/17/11 Date Finished: 5/18/11  
VTSPG NAD83: N 637099.80 ft E 1643875.40 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: \_\_\_\_\_

Casing Type: WB  
I.D.: 4 in  
Hammer Wt: N.A.  
Hammer Fall: N.A.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK  
Sampler Type: SS  
I.D.: 1.5 in  
140 lb.  
30 in.  
Auto/AWJ  
CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
05/18/11	14.6	Inside casing.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, GrSa, brn, Wet, Rec. = 0.7 ft	3-3-3-3 (6)	20.3	35.3	45.5	19.2		
		Visual Classification, SiSaGr (Mostly Broken Rock), brn, Moist, Rec. = 0.3 ft	2-3-5-3 (8)	5.5					
5		Field Note:, No Recovery, Some gravel	2-2-2-1 (4)						
		Field Note:, No Recovery, Some gravel in sampler	2-2-2-1 (4)						
		A-4, SaSi, gry, Wet, Rec. = 1.1 ft	3-2-2-1 (4)	27.9	2.9	27.6	69.5	30	6
10		A-4, SaSi, gry, Wet, Rec. = 1.1 ft	2-2-2-3 (4)	26.6	3.7	23.7	72.6	30	6
		A-4, CiSi, gry, Wet, Rec. = 0.7 ft	2-3-1-2 (4)	28.0	2.6	9.6	87.8	36	10
		A-6, SiCl with some small roots, gry, Wet, Rec. = 1.5 ft	2-2-2-3 (4)	29.7	5.0	24.0	71.0	34	12
		A-6, SiCl, gry, Wet, Rec. = 0.5 ft	1-1-2-15 (3)	30.6	17.3	15.6	67.1	36	13
		Field Note:, Cored into Cobbles & Gravel							
20		A-4, CiSi, gry, Wet, Rec. = 0.6 ft	6-8-6 (14)	15.7	12.8	18.4	68.8	26	9
		A-4, SaGrSi, gry, Wet, Rec. = 1.3 ft	4-2-9-12 (11)	12.6	30.9	25.9	43.2	19	3
		A-4, CiSi, gry, Moist, Rec. = 0.8 ft	18-8-6-8 (14)	17.0	13.1	21.2	65.7	28	9
25		A-6, SiCl, gry, Moist, Rec. = 1.4 ft	5-6-6-8 (12)	26.4	21.5	7.6	70.9	35	11
		Hole stopped @ 26.0 ft NLTD							
30									

BORING LOG 2 EAST MONTPELIER STP SCRIP(9).GPJ VERMONT AOT.GDT 7/7/11

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EAST MONTPELIER  
STP SCRIP(9)  
VT. 14

Boring No.: B-202  
Page No.: 1 of 1  
Pin No.: 10B200  
Checked By: CEE

Boring Crew: WERNER, WELLS  
Date Started: 5/24/11 Date Finished: 5/24/11  
VTSPG NAD83: N 637084.10 ft E 1643913.80 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: \_\_\_\_\_

Casing Type: H.S.A. I.D.: 3.25 in  
Sampler Type: SS I.D.: 1.5 in  
Hammer Wt: N.A. Hammer Fall: N.A.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
05/24/11	9.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Field Note:, Asphalt Pavement							
		Field Class:, Gravel material							
5		A-4, SiSa, brn, Moist, Rec. = 1.3 ft	WH-4-4-4 (8)	12.6	18.5	41.3	40.2		
10		A-4, SaSi, gry, MTW, Rec. = 1.6 ft	1-3-2-4 (5)	22.7	3.3	34.4	62.3		
15		A-4, SaSi, gry, MTW, Rec. = 1.1 ft	1-1-2-2 (3)	22.7	6.6	27.2	66.2		
20		A-4, SaSi, gry, MTW, Rec. = 1.5 ft	1-2-3-3 (5)	25.2	5.0	36.5	58.5		
25		A-4, Cisi, gry, MTW, Rec. = 1.1 ft	3-5-6-11 (11)	17.1	3.1	20.7	76.2	27	8
		A-4, SaSi, gry, MTW, Rec. = 1.7 ft	3-10-13-17 (23)	14.0	15.1	25.1	59.8	20	2
		A-4, SaSi, gry, MTW, Rec. = 1.8 ft	7-10-21-18 (31)	10.2	9.6	34.4	56.0	18	2
30		A-4, Cisi, gry, MTW, Rec. = 1.5 ft	3-4-9-WH (13)	13.8	11.8	22.4	65.8	27	8
		A-7-6, SiCl, gry, MTW, Rec. = 2.0 ft	5-13-18-23 (31)	26.6		2.6	97.4	43	17
35		A-7-6, Cl, gry, MTW, Rec. = 1.6 ft	5-7-11-7 (18)	28.1		7.8	92.2	47	21
		A-7-6, SiCl, gry, MTW, Rec. = 1.7 ft	10-16-17-19 (33)	29.3		5.7	94.3	41	16
40		A-6, SiCl, gry, MTW, Rec. = 2.0 ft	9-13-12-14 (25)	29.3		7.4	92.6	33	11
		Hole stopped @ 40.0 ft NLTD							

BORING LOG 2 EAST MONTPELIER STP SCRIP(9).GPJ VERMONT AOT.GDT 7/7/11

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