

VT Trans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101			
				Waterford BF 0225(5) VT 18 Br. 2		Page No.: 1 of 1			
						Pin No.: 15b051			
						Checked By: END			
Boring Crew: Judkins, Gomes		Casing Sampler		Groundwater Observations					
Date Started: 8/11/16 Date Finished: 8/11/16		Type: WB SS		Date	Depth (ft)	Notes			
VTSPG NAD83: N 673406.24 ft E 1799772.82 ft		I.D.: 3 in 1.5 in		08/11/16	21.2	W.T. during drilling			
Station: 3+52.29 Offset: -12.88		Hammer Wt: N.A. 140 lb.							
Ground Elevation: 724.4 ft		Hammer Fall: N.A. 30 in.							
		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 45C SKUB>><<SUB>> = 1.42							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Asphalt Pavement, 0.0 ft - 0.2 ft			9-18-15 (27)	6.3	43.8	40.4	15.8
		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample			20-38-14-11 (52)	8.8	21.0	55.4	23.6
		A-2-4, GrSiSa, brn, Moist, Rec. = 1.3 ft			12-12-10-12 (22)				
		Field Note: BXDC, Cleaned out casing							
		Field Note: No Recovery							
		A-2-4, GrSa, brn, Moist, Rec. = 1.4 ft			12-9-11-12 (20)	12.6	20.8	59.4	19.8
		A-2-4, Sa, brn, Moist, Rec. = 1.2 ft			8-6-4-5 (10)	11.4	12.2	69.7	18.1
		A-2-4, Sa, brn, Moist, Rec. = 1.0 ft			8-8-8-9 (16)	10.3	8.2	79.8	12.0
		A-1-b, Sa, brn, Moist, Rec. = 1.0 ft			4-3-3-2 (6)	14.9	10.0	83.4	6.6
		A-3, Sa, brn, Moist, Rec. = 0.1 ft			2-1-3-3 (4)	17.4	14.5	77.3	8.2
20		A-1-b, SaGr, brn, Moist, Rec. = 0.6 ft			3-2-5-3 (7)	13.2	52.8	37.7	9.5
		Field Note: No Recovery			4-6-11-7 (17)				
		Field Note: BXDC, Cleaned out casing			6-9-7-4 (16)	9.7	62.3	26.7	11.0
		A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft							
25		Field Note: BXDC, Cleaned out casing			24-23-21-20 (44)	10.1	37.1	31.0	31.9
		A-2-4, SaSiGr, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken rock was within sample							
		A-4, SaSi, gry, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample			17-R@2.5" (R)	12.0	19.0	32.6	48.4
		Field Note: BXDC, Cleaned out casing							
		A-4, SaGrSi, gry, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample			42-R@5" (R)	14.3	25.2	22.1	52.7
40		Field Note: BXDC, Cleaned out casing			32-R@5" (R)	8.1	13.3	35.7	51.0
		A-4, SaSi, gry, Moist, Rec. = 0.9 ft							
		Hole stopped @ 40.9 ft							
		Remarks: Hole collapsed at 1.9 feet.							

BOC = APPROX. BOTTOM OF CULVERT

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. <<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.

VT Trans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102			
				Waterford BF 0225(5) VT 18 Br. 2		Page No.: 1 of 1			
						Pin No.: 15b051			
						Checked By: END			
Boring Crew: Judkins, Gomes		Casing Sampler		Groundwater Observations					
Date Started: 8/10/16 Date Finished: 8/10/16		Type: WB SS		Date	Depth (ft)	Notes			
VTSPG NAD83: N 673461.06 ft E 1799766.83 ft		I.D.: 3 in 1.5 in		09/10/16	12.8	W.T. during drilling			
Station: 4+3.18 Offset: 9.12		Hammer Wt: N.A. 140 lb.							
Ground Elevation: 726.2 ft		Hammer Fall: N.A. 30 in.							
		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 45C SKUB>><<SUB>> = 1.42							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Asphalt Pavement, 0.0 ft - 0.35 ft			--8-9-10 (17)	5.6	66.1	23.3	10.6
		A-1-a, SaGr, Rec. = 0.8 ft, Lab Note: A lot of broken rock was within sample			10-R@5" (R)	1.6	79.9	13.6	6.5
		A-1-a, Gr, Rec. = 0.3 ft, Lab Note: A lot of broken rock was within sample							
		Field Note: BXDC, Cleaned out casing							
		Field Note: No Recovery			12-11-7-6 (18)				
		Field Note: BXDC, Cleaned out casing			5-5-7-6 (12)				
		Field Note: No Recovery			4-3-4-6 (7)				
		A-1-b, Sa, Rec. = 0.5 ft			7-11-7-7 (18)	14.3	7.9	82.4	9.7
		Field Note: BXDC, Cleaned out casing			5-3-2-6 (5)	14.5	5.8	87.3	6.9
		A-3, Sa, Rec. = 0.7 ft			3-4-3-3 (7)	17.2	8.0	81.1	10.9
20		A-2-4, Sa, Rec. = 0.3 ft			2-3-1-6 (4)	17.1	9.5	73.8	16.7
		A-1-b, SiSaGr, Rec. = 0.6 ft, Lab Note: Broken rock was within sample			18-8-11-23 (19)	11.1	52.8	26.8	20.4
		Field Note: BXDC, Cleaned out casing			6-7-6-6 (13)				
		Field Note: No Recovery, Rock stuck in end of sampler							
25		Field Note: BXDC, Cleaned out casing			30-28-30-R@2.5" (58)	11.2	26.1	29.5	44.4
		A-4, GrSaSi, Rec. = 1.0 ft, Lab Note: Broken rock was within sample							
		A-4, GrSaSi, Rec. = 0.9 ft, Lab Note: Broken rock was within sample			45-R@5" (R)	11.1	20.6	34.0	45.4
		Field Note: BXDC, Cleaned out casing							
		A-2-4, SiGrSa, Rec. = 1.0 ft, Lab Note: Broken rock was within sample			22-46-R@3.5" (R)	9.7	34.5	35.5	30.0
40		Field Note: BXDC, Cleaned out casing			34-R@5" (R)	8.3	20.1	27.7	52.2
		A-4, GrSaSi, Rec. = 0.9 ft							
		Hole stopped @ 40.9 ft							
		Remarks: Hole Collapsed at 16.6 feet.							

BOC = APPROX. BOTTOM OF CULVERT

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. <<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.

PROJECT NAME: WATERFORD
PROJECT NUMBER: BF 0225(5)
FILE NAME: z15b051b101.dgn PLOT DATE: 09/27/2017
PROJECT LEADER: T. LEVINS DRAWN BY: B. WILLIAMS
DESIGNED BY: B. WILLIAMS CHECKED BY: T. LEVINS
BORING LOGS SHEET 46 OF 63

