

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-103					
				Williston-Essex STP SGNL(46) VT 2A		Page No.: 1 of 1					
						Pin No.: 151017					
						Checked By: ZMH					
Boring Crew: JUDKINS, GARROW		Casing		Sampler		Groundwater Observations					
Date Started: 4/06/16 Date Finished: 4/07/16		Type: WB		SS		Date					
VTSPG NAD83: N 731976.84 ft E 1486809.40 ft		I.D.: 4 in		1.5 in		Depth (ft)					
Station: 200+16.30 Offset: 44.40		Hammer Wt: N.A.		140 lb.		Notes					
Ground Elevation: 497.6 ft		Hammer Fall: N.A.		30 in.		04/07/16 12.3 W.T. before drilling					
		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 55 TRACK		CE = 1.41							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.55 ft									
		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample.			6-6-5 (11)	5.5	63.3	28.6	8.1		
		A-3, GrSa, gry-brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample.			4-3-3 (6)	5.1	27.6	64.9	7.5		
5		A-1-b, GrSa, gry-brn, Moist, Rec. = 1.7 ft, Lab Note: Broken rock was within sample. Field Note: NXDC, Cleaned out casing			12-17-20-21 (37)	5.7	41.9	46.4	11.7		
		A-1-b, SaGr, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample. Field Note: NXDC, Cleaned out casing. Cobbles and boulders			16-16-R@ (R)	10.3	46.9	35.3	17.8		
10		A-1-a, SaGr, gry, Moist, Rec. = 1.0 ft			15-9-6-4 (15)	7.0	66.0	24.8	9.2		
		A-2-4, SiSa, blk, Moist, Rec. = 0.5 ft, Lab Note: A trace (6.33%) of organic material was within sample (AASHTO T-267).				32.4	14.9	52.5	32.6		
15		A-6, SiCl, gry, Moist, Rec. = 1.7 ft			6-7-11-15 (18)	23.6	16.2	27.3	56.5	34	13
		Field Note: NXDC, Cleaned out casing									
20		A-1-b, SiSaGr, gry, Moist, Rec. = 0.4 ft, Lab Note: Broken rock and some clay was within sample. Insufficient sample size to perform Atterberg limit tests.			R@6" (R)	8.7	49.0	25.7	25.3		
		Field Note: NXDC, Cleaned out casing									
25		A-1-a, SaGr, gry, Moist, Rec. = 0.2 ft, Lab Note: Broken rock and some clay was within sample. Insufficient sample size to perform Atterberg limit tests. Hole stopped @ 25.2 ft			R@2.5" (R)	10.6	56.3	32.5	11.2		
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.											

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				Williston-Essex STP SGNL(46) VT 2A		Page No.: 1 of 1			
						Pin No.: 151017			
						Checked By: ZMH			
Boring Crew: GARROW, JUDKINS, HOOK		Casing		Sampler		Groundwater Observations			
Date Started: 3/31/16 Date Finished: 4/05/16		Type: WB		SS		Date			
VTSPG NAD83: N 732006.80 ft E 1486848.13 ft		I.D.: 4 in		1.5 in		Depth (ft)			
Station: 200+64.80 Offset: 40.40		Hammer Wt: N.A.		140 lb.		Notes			
Ground Elevation: 499.5 ft		Hammer Fall: N.A.		30 in.		04/06/16 17.3 W.T. after drilling			
		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 55 TRACK		CE = 1.41					
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.7 ft, Lab Note: Broken rock and plant material was within sample.			1-4-6-12 (10)	6.1	62.1	24.2	13.7
		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample.			6-14-21-7 (35)	2.2	69.1	22.2	8.7
5		A-3, Sa, brn-gry, Moist, Rec. = 1.2 ft, Lab Note: Broken rock was within sample. Field Note: Cleaned out casing			7-5-5-6 (10)	5.8	16.8	73.0	10.2
		A-1-b, SaGr, brn-gry, Moist, Rec. = 1.3 ft, Lab Note: Broken rock was within sample. Field Note: Cleaned out casing			8-6-6-7 (12)	9.4	50.3	39.5	10.2
		A-1-b, SaGr, gry-brn, Moist, Rec. = 1.4 ft, Lab Note: Broken rock and a trace of clay was within sample. Sample tested non-plastic. Field Note: Cleaned out casing			5-6-14-18 (20)	9.8	49.2	32.3	18.5
10		A-1-a, SaGr, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken rock and a trace of clay was within sample. Sample tested non-plastic.			13-15-11-10 (26)	10.0	63.2	26.0	10.8
		Field Note: Cleaned out casing							
15		A-1-b, SiSaGr, gry, Moist, Rec. = 0.5 ft, Lab Note: A trace of clay was within sample. Sample tested non-plastic.			7-11-16-16 (27)	10.7	43.4	32.5	24.1
		Field Note: Cleaned out casing							
20		A-4, SaGrSi, gry, Moist, Rec. = 1.5 ft, Lab Note: A trace of clay was within sample. Sample tested non-plastic.			38-28-R@6.0" (R)	10.5	30.5	24.6	44.9
		Field Note: Cleaned out casing							
25		Hole stopped @ 24.8 ft							
		Remarks: Hole Collapsed at 16.3 feet.							
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.									

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PROJECT NAME:	WILLISTON-ESSEX
PROJECT NUMBER:	STPG SGNL(46)
FILE NAME: t151017rm.dgn	PLOT DATE: 3/21/2017
PROJECT LEADER: M. LACROIX	DRAWN BY: K. RECORD
DESIGNED BY: K. RECORD	CHECKED BY: M. LACROIX
BORING LOG SHEET 2	SHEET 9 OF 66