

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>B-111</b>		
				Williston-Essex STP SGNL(46) VT 2A		Page No.: 1 of 1		
						Pin No.: 15017		
						Checked By: ZMH		
Boring Crew: NIETO, GARROW, COLETTI		Casing		Sampler		Groundwater Observations		
Date Started: 5/18/16 Date Finished: 5/18/16		Type: WB SS		ID.: 4 in 1.5 in		Date Depth Notes		
VTSPG NAD83: N 733302.65 ft E 1489492.04 ft		Hammer Wt: N.A. 140 lb.		Hammer Fall: N.A. 30 in.		05/18/16 0.9 W.T. after drilling		
Station: 231+83.10 Offset: -40.60		Hammer/Rod Type: Auto/AWJ		Rig: CME 55 TRACK CE = 1.41				
Ground Elevation: 508.8 ft								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, GrSa, bn, Moist, Rec. = 0.5 ft, Lab Note: A lot of grass and grass roots were within sample.		1-1-1-2 (2)	15.6	31.4	55.1	13.5
		A-4, SaSi, brn-gry, Moist, Rec. = 1.6 ft		1-3-4-6 (7)	16.1	16.9	38.1	45.0
		A-4, SaSi, brn-gry, Moist, Rec. = 1.7 ft		4-3-4-4 (7)	15.9	14.0	32.7	53.3
		A-4, SaSi, brn-LUgry, Moist, Rec. = 1.8 ft		5-9-10-20 (19)	13.0	18.7	29.6	51.7
		Field Note: Rollercone, Cleaned out casing						
10		A-4, SaSi, LUgry, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample. Sample tested non-plastic.		12-9-14-31 (23)	12.5	17.7	29.8	52.5
		Field Note: Rollercone, Cleaned out casing						
		A-4, GrSaSi, LUgry, Moist, Rec. = 1.8 ft, Lab Note: Broken rock was within sample.		16-20-28-30 (48)	10.1	27.6	34.1	38.3
15		Field Note: Rollercone, Cleaned out casing						
		A-1-a, Gr, LUgry, Moist, Rec. = 0.9 ft, Lab Note: A lot of broken rock was within sample.		15-42-R@3.5" (R)	7.1	66.4	18.6	15.0
20		Field Note: Rollercone, Cleaned out casing						
		A-1-b, SiSaGr, LUgry, Moist, Rec. = 1.5 ft, Lab Note: A lot of broken and weathered rock was within sample.		25-27-R@6" (R)	9.4	40.8	35.8	23.4
25		Field Note: Rollercone, Cleaned out casing						
		A-1-b, GrSa, LUgry, Moist, Rec. = 0.9 ft, Lab Note: Sample consisted almost entirely of broken and weathered rock.		40-45-R@8" (R)	9.7	36.3	45.8	17.9
		Hole stopped @ 25.7 ft						
		Remarks: Hole collapsed at 18.2 feet						
Notes:								
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.								
<<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.								

2010 COPY 2 WILLISTON-ESSEX STP SGNL(46) V. VERMONT.ADT.GDT 11/17/17

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>B-112</b>		
				Williston-Essex STP SGNL(46) VT 2A		Page No.: 1 of 1		
						Pin No.: 15017		
						Checked By: ZMH		
Boring Crew: JUDKINS, GARROW, COLETTI		Casing		Sampler		Groundwater Observations		
Date Started: 5/17/16 Date Finished: 5/17/16		Type: WB SS		ID.: 4 in 1.5 in		Date Depth Notes		
VTSPG NAD83: N 733306.73 ft E 1489577.02 ft		Hammer Wt: N.A. 140 lb.		Hammer Fall: N.A. 30 in.		05/17/16 0.56 W.T. taken during		
Station: 232+71.30 Offset: -39.40		Hammer/Rod Type: Auto/AWJ		Rig: CME 55 TRACK CE = 1.41				
Ground Elevation: 506.0 ft								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Concrete, 0.0 ft - 0.4 ft						
		A-4, GrSiSa, brn, Moist, Rec. = 1.1 ft		1-2-3-4 (5)	20.1	23.3	40.6	36.1
		Field Note: Cleaned out casing with rollercone						
		Rec. = 0.0 ft, 3.0 ft - 5.0 ft		5-8-6-4 (14)				
		Field Note: Cleaned out casing with rollercone						
		A-4, SaSi, brn-gry, Moist, Rec. = 1.7 ft, Lab Note: Sample tested non-plastic.		1-3-3-2 (6)	17.0	15.2	29.7	55.1
		Field Note: Cleaned out casing with rollercone						
		A-4, SaSi, gry-brn, Moist, Rec. = 1.5 ft		1-3-8-15 (11)	13.8	16.9	29.8	53.3
		Field Note: Cleaned out casing with rollercone						
		A-4, SaSi, gry-brn, Moist, Rec. = 1.8 ft		19-18-17-15 (35)	12.3	18.5	27.6	53.9
10		A-2-4, SiSaGr, gry-brn, Moist, Rec. = 1.2 ft		16-15-17-14 (32)	10.3	37.5	36.9	25.6
		Field Note: Cleaned out casing, NXDC						
15		A-2-4, SiGrSa, gry-brn, Moist, Rec. = 1.1 ft		33-38-R@3.5" (R)	9.6	36.3	37.1	26.6
		Field Note: Cobbles						
20		Field Note: Cleaned out casing, NXDC						
		A-2-4, SiGrSa, gry, Moist, Rec. = 0.6 ft, Lab Note: Sample consisted mostly of weathered rock.		13-33-R@2" (R)	10.3	35.6	36.7	27.7
		Hole stopped @ 26.2 ft						
		Remarks: Hole collapsed at 13.5 feet.						
Notes:								
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.								
<<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.								

2010 COPY 2 WILLISTON-ESSEX STP SGNL(46) V. VERMONT.ADT.GDT 11/17/17

PROJECT NAME:	<b>WILLISTON-ESSEX</b>
PROJECT NUMBER:	<b>STPG SGNL(46)</b>
FILE NAME: t15i0177m.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 6	SHEET 13 OF 66