

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-212				
		HARTFORD		Page No.: 1 of 1		Pin No.: 12A132				
		IM 91-2(79)		Checked By: BLS		I-91 BR-43				
Boring Crew: DAIGNEAULT, NIETO, HOOK		Casing Type: WB		Sampler Type: SS		Groundwater Observations				
Date Started: 4/30/14 Date Finished: 5/02/14		I.D.: 4 in 1.5 in		Date		Depth (ft)				
VTSPG NAD83: N 417630.22 ft E 1683206.05 ft		Hammer Wt: N.A. 140 lb.		05/02/14		12.7 AM				
Station: 151+33.92 Offset: -57.55		Hammer Fall: N.A. 30 in.		05/02/14		1.6 Casing removed.				
Ground Elevation: 564.13 ft		Rig: CME 55 TRACK C = 1.46								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate (min/ft)	Blows* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-4, SiSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Grass & Roots were within sample.				1-2-3-4 (5)	16.1	12.1	49.3	38.6
		A-4, SiSa, brn, Moist, Rec. = 1.4 ft					10.8	13.9	48.6	37.5
10		A-4, SiSa, brn, Moist, Rec. = 1.3 ft				8-10-16-19 (26)	9.8	15.6	43.1	41.3
		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft				15-20-15-17 (35)	8.6	16.3	53.7	30.0
15		A-2-4, SiGrSa, gry, Moist, Rec. = 1.2 ft, NXDC, Cleaned out casing.				11-14-45-17 (59)	11.0	26.0	49.2	24.8
		A-2-4, SiGrSa, gry, Moist, Rec. = 1.2 ft, NXDC, Cleaned out casing. Lab Note: Broken Rock was within sample.				13-11-13-14 (24)	11.5	24.0	55.7	20.3
20		A-2-4, SiGrSa, gry, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.				23-16-11-16 (27)	11.7	32.2	47.2	20.6
		A-1-b, SaGr, gry, Moist, Rec. = 1.1 ft, NXDC, Cleaned out casing. Lab Note: Broken Rock was within sample.				20-16-15-16 (31)	10.9	43.0	39.5	17.5
25		A-2-4, GrSa, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.				13-13-14-15 (27)	11.8	29.0	53.1	17.9
		A-1-b, SaGr, gry, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.				22-26-28-22 (54)	10.6	51.4	32.0	16.6
30		A-4, SiSa, gry, Moist, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample.				12-12-16-13 (28)	15.6	17.0	45.9	37.1
		A-2-4, SaGrSi, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.				18-39-33- (72)	10.3	33.9	31.0	35.1
35		A-4, SaSi, gry, Moist, Rec. = 0.3 ft				R@1.0" (R)	11.7	8.7	44.0	47.3
		Field Note: Cobbles				R@3.5" (R)				
40		Field Note: Weathered Rock								
		27.4 ft - 32.4 ft, Dark-greenish-gray to medium-bluish-gray metamorphosed andesitic and basaltic Tuff, Moderately hard, Unweathered, Poor rock, NXMDC, Near vertical fracture from 29.4' to 32.4'. RMR = 36	1 (85)	86 (10)	2					
45		Hole stopped @ 32.4 ft								
		Remarks: Hole collapsed at 16.3 ft.								

BORING LOG 2 HARTFORD IM 91-2(79) GPJ VERMONT AOT.GDT 5/30/14

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C 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		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-214				
		HARTFORD		Page No.: 1 of 1		Pin No.: 12A132				
		IM 91-2(79)		Checked By: BLS		I-91 BR-43				
Boring Crew: JUDKINS, HOOK		Casing Type: WB		Sampler Type: SS		Groundwater Observations				
Date Started: 5/12/14 Date Finished: 5/13/14		I.D.: 4 in 1.5 in		Date		Depth (ft)				
VTSPG NAD83: N 417666.95 ft E 1683415.96 ft		Hammer Wt: N.A. 140 lb.				No water to depth.				
Station: 251+81.01 Offset: 60.34		Hammer Fall: N.A. 30 in.								
Ground Elevation: 560.87 ft		Rig: CME 55 TRACK C = 1.46								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate (min/ft)	Blows* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, SiGrSa, brn, Moist, Rec. = 0.7 ft, Lab Note: Wood, roots, grass were within sample.				1-4-10-9 (14)	24.2	24.8	53.9	21.3
		Field Note: Cobbles & Boulders								
10		Field Note: No Recovery								
		Field Note: Lost water return at 6.0 feet								
15		Field Note: NXDC, Cleaned out casing								
		Lab Note: Mostly Broken Rock with sandy silt, gm, Moist, Rec. = 0.5 ft				26-24-17-13 (41)	7.5	65.7	20.7	13.6
20		Field Note: NXDC, Cobbles								
		15.0 ft - 16.0 ft, Dark-greenish-gray to medium-bluish-gray metamorphosed andesitic and basaltic Tuff, with plagioclase phenocrysts. Moderately hard, Unweathered, Poor rock, NXDC, RMR = 39	1 (?)	70 (0)	3					
25		16.0 ft - 21.0 ft, Dark-greenish-gray to medium-bluish-gray metamorphosed andesitic and basaltic Tuff, with plagioclase phenocrysts. Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 49	2 (?)	98 (58)	4					
		Hole stopped @ 21.0 ft								
30		Remarks: Hole collapsed at 10.3 ft.								

BORING LOG 2 HARTFORD IM 91-2(79) GPJ VERMONT AOT.GDT 5/30/14

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C 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: HARTFORD
PROJECT NUMBER: IM 091-2(79)
FILE NAME: s12a132bor_new.dgn PLOT DATE: 15-DEC-2014
PROJECT LEADER: K. HIGGINS DRAWN BY: W. LAMMER
DESIGNED BY: W. LAMMER CHECKED BY: J. SALVATORI
BORING LOGS 9 SHEET 81 OF 166