

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-201				
		WINHALL STP CULV (31) Bridge 47		Page No.: 1 of 2				
				Pin No.: 11b268				
				Checked By: J. MacGregor				
Boring Crew: J. Leonhardt, K. Owens		Casing Sampler		Groundwater Observations				
Date Started: 9/20/12 Date Finished: 9/20/12		Type: WASH BORE SS		Date	Depth (ft)			
VTSPG NAD83: N 249779.94 ft E 1524692.89 ft		L.D.: 4 in 1.38 in		09/20/12	14.0			
Station: 33+27 Offset: 10.8N		Hammer Wt: 140 lb. 140 lb.						
Ground Elevation: 1638.0 ft		Hammer Fall: 30 in. 30 in.						
		Hammer/Rod Type: Auto/NW						
		Rig: CME 75 ATV Mounted CE = 1.4						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0		0.0 ft - 1.0 ft, Augered through asphalt pavement.						
2.5	x x x x	A-2-4, f.m.c. SAND, Some Silt, Some f.c. Gravel, medium compact, brown, Moist, Rec. = 1.1 ft, Fill		13-15-14-16 (29)	6.8	31.1	43.3	25.6
5.0	x x x x	A-2-4, f.m.c. SAND, Some Silt, little f.c. gravel, compact, brown, MTW, Rec. = 0.8 ft, Fill		13-16-15-15 (31)				
7.5	x x x x	A-2-4, becomes medium compact, Rec. = 1.0 ft, Fill		11-13-10-22 (23)				
10.0	x x x x	A-2-4, f.m.c. SAND, little silt, little f. gravel, loose, brown, Wet, Rec. = 0.2 ft, Fill		4-3-2-2 (5)				
12.5	x x x x	A-2-4, becomes very loose, Rec. = 0.3 ft, Fill		2-1-2-4 (3)				
15.0	x x x x	A-2-4, becomes very compact, Rec. = 0.5 ft, Fill		17-20-51-17 (71)				
20.0		A-2-4, f.m.c. Sand, Some clayey Silt, Some f.c. Gravel, very compact, brown, Moist, Rec. = 1.6 ft, Glacial Till, Zones of weathered gravel fragments in sample.		20-23-27-40 (50)	12.8	26.9	41.5	31.6
22.5		A-2-4, Similar Soil, Rec. = 1.8 ft, Zones of weathered gravel/cobble/boulder fragments in bottom 2' of sample.		30-33-32-58				
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.								

BOTTOM OF CULVERT
APPROX. EL. 1617.5

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27.5		A-2-4, Similar Soil, Rec. = 1.7 ft		30-52-47-55 (99)				
30.0		A-2-4, Similar Soil, Rec. = 1.6 ft		25-40-51-42 (91)				
32.5		A-2-4, Similar Soil, Rec. = 1.8 ft		23-34-44-57 (78)				
35.0		Hole stopped @ 41.0 ft						
37.5		Remarks: Groundwater observations made during drilling may not represent static conditions. Difficult rollerbit from 12'-13'. Very difficult drilling 20' to boring completion.						
40.0								
42.5								
45.0								
47.5								
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PROJECT NAME: WINHALL
PROJECT NUMBER: STP CULV(31)

FILE NAME: z11b268bor_log_br47.dgn PLOT DATE: 9/25/2014
PROJECT LEADER: M. CHENETTE DRAWN BY: L. BUXTON
DESIGNED BY: VTRANS CHECKED BY: VTRANS
BORING LOG I- BR47 SHEET 20 OF 60

