STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

Culvert Replacement
Bridge 24
Thetford STP CULV (48)

Boring No.: B-103
Page No.: 1 of 1
Pin No.: 13c348
Checked By:

Boring Crew: J. Leonhardt, K. Owens
Date Started: 4/07/15 Date Finished: 4/07/15
VTSPG NAD83: N 509291.70 ft E 1703302.97 ft
Station: T0+27 Offset: 11L
Ground Elevation: 717.0 ft

	Casing	Sampler
Type:	H.S.A.	SS
I.D.:	3.25 in	1.38 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:		Auto/NW
Rig:	CME 550 TRACK	CE = 1.4

Groundwater Observations

Date	Depth (ft)	Notes
04/07/15	16.0	During drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft – 0.4 ft					
		(FILL), f.c. SAND, Some f.c. Gravel, trace silt, dense, brown/gray, Moist, Rec. = 1.5 ft, (FILL)	25-14-12 (26)				
5		Rec. = 2.0 ft, 4.0 ft – 7.0 ft, becomes very dense (FILL)	14-40-34-20 (74)				
		7.0 ft – 9.0 ft					
10		(FILL), f.c. GRAVEL,, Rec. = 0.1 ft, Boulder/cobble fragments	100/1" (R)				
		A-1-a					
15		A-1-a, f.c. GRAVEL, Some f.c. Sand, little clayey silt, dense, brown/black, Moist, Rec. = 1.0 ft	8-15-18-18 (33)	9.7	61.6	30.9	7.5
		A-1-a, f.c. GRAVEL, little silt, little f.c. sand, dense, brown, Wet, Rec. = 0.8 ft	25-23-12-11 (35)				
		A-2-4, f.c. SAND, little silt, very dense, brown, Moist, Rec. = 0.9 ft, micaceous	58-90/5" (R)	11.9	22.9	55.5	21.6
20		A-2-4, Rec. = 0.5 ft, grades to little f.c. gravel	77-100/4" (R)				

Hole stopped @ 20.8 ft
Boring terminated at 20.8' due to vertical deviation of augers preventing advancement of sampling and borehole.

Remarks:
7': Augers grinding 7'–9', 13'–14'.
14': Difficult drilling 14'–20'.
20': Offset 2' south to B-103A.
Boulders & cobbles likely encountered throughout boring advancement.

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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.

BORING LOG 29928 THETFORD STP CULV (48) LOGS.GPJ VERMONT AOT.GDT 5/7/15