



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

BORING LOG

Culvert Replacement
 Bridge 24
 Theftford STP CULV (48)

Boring No.: B-101
 Page No.: 1 of 1
 Pin No.: 13c348
 Checked By: _____

Boring Crew: J. Leonhardt, K. Owens
 Date Started: 4/08/15 Date Finished: 4/08/15
 VTSPG NAD83: N 509308.66 ft E 1703312.70 ft
 Station: T0+18 Offset: 29L
 Ground Elevation: 710.5 ft

Casing: H.S.A. Sampler: 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 |
| 04/08/15 | 8.0 | During drilling. |
| | | |
| | | |

| Depth (ft) | Strata (i) | CLASSIFICATION OF MATERIALS (Description) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|------------|------------|---|---|--------------------|----------|--------|---------|
| 5 | | A-2-4, <u>f.c. SAND</u> , little silt, little f.c. gravel, medium dense, brown, Moist, Rec. = 0.6 ft A-1-b, Rec. = 0.6 ft, grades to Some f.c. Gravel, becomes dense. F.c. gravel primarily comprised of cobble/boulder fragments. A-1-a, <u>f.c. GRAVEL</u> , trace silt, trace f.c. sand, dense, brown, Moist, Rec. = 0.5 ft, F.c. gravel primarily comprised of cobble/boulder fragments. A-1-a, <u>f.c. GRAVEL</u> , AND f.c. SAND, trace silt, dense, brown, Moist, Rec. = 1.2 ft | 14-7-7-6 (14) 52-22-15-17 (37) 11-19-16-18 (35) 20-29-16-14 (45) | 6.0 | 52.5 | 45.0 | 2.5 |
| 10 | | A-1-a, <u>f.c. GRAVEL</u> , little f.c. sand, trace silt, medium dense, brown, Wet, Rec. = 0.5 ft, F.c. gravel primarily comprised of cobble/boulder fragments. A-1-a, <u>f.c. GRAVEL</u> , AND f.c. SAND, little silt, very dense, brown, Wet, Rec. = 1.1 ft | 5-5-7-18 (12) 42-44-23-32 (67) | 13.3 | 52.5 | 35.8 | 11.7 |
| 15 | | A-1-a, <u>Similar Soil</u> , Rec. = 0.5 ft | 16-17-23 (40) | | | | |
| 20 | | Hole stopped @ 15.5 ft Boring terminated at 15.5' due to vertical deviation of augers preventing advancement of sampling and borehole. Remarks: 10': Hard drilling/ augers grinding at 10'. 15.5': Offset 1.5' west to B-101A. Boulders & cobbles likely encountered throughout boring advancement. | | | | | |
| 25 | | | | | | | |
| 30 | | | | | | | |
| 35 | | | | | | | |
| 40 | | | | | | | |

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 THEFTFORD STP CULV (48) LOGS.GPJ VERMONT AOT.GDT 5/7/15