



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

BORING LOG

**WATERBURY**  
**NHG SGNL(43)**  
**I-89 & VT-100 EXIT #10**

Boring No.: **B-102**  
Page No.: 1 of 1  
Pin No.: 13B018  
Checked By: LAR

Boring Crew: DAIGNEAULT, GARROW, SALISBURY  
Date Started: 3/26/13 Date Finished: 3/26/13  
VTSPG NAD83: N 672144.29 ft E 1575062.79 ft  
Station: 26+80 Offset: 50.00  
Ground Elevation: 497.66 ft

Type: WB SS  
I.D.: 4 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK C = 1.46

Groundwater Observations

| Date     | Depth (ft) | Notes        |
|----------|------------|--------------|
| 03/27/13 | 6.8        | See Remarks. |
|          |            |              |
|          |            |              |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description)  | Run (Dip deg.) | Core Rec. % (RQD %) | Drill Rate minutes/ft | Blows/6" (N Value)           | Moisture Content % | Gravel % | Sand % | Fines % |
|------------|------------|--|----------------|---------------------|-----------------------|------------------------------|--------------------|----------|--------|---------|
| 2.5        |            | A-1-b, SiGrSa, Dk/brn, Moist, Rec. = 1.4 ft<br><br>Visual Description: GrSa with Broken Rock, Dk/gry, Moist, Rec. = 0.3 ft<br>Field Note: NXDC, Possible Ledge Cut Fill            |                |                     |                       | WH-4-7-10 (11)<br><br>R@3.5" | 14.1               | 32.8     | 47.0   | 20.2    |
| 5.0        |            | 4.0 ft - 7.5 ft, Laminated dark-gray to black, Carbonaceous to highly graphitic Phyllite, and white quartz. Moderately hard, Unweathered, Poor rock, BXMDC, Unknown Dip. RMR = 36  | 1 (?)          | 11 (0)              | 2                     |                              |                    |          |        |         |
| 7.5        |            | 7.5 ft - 9.5 ft, Laminated dark-gray to black, Carbonaceous to highly graphitic Phyllite, and white quartz. Moderately hard, Unweathered, Poor rock, BXMDC, Unknown Dip. RMR = 36  | 2 (?)          | 40 (0)              | 2                     |                              |                    |          |        |         |
| 10.0       |            | 9.5 ft - 11.1 ft, Laminated dark-gray to black, Carbonaceous to highly graphitic Phyllite, and white quartz. Moderately hard, Unweathered, Fair rock, BXMDC, Unknown Dip. RMR = 46 | 3 (?)          | 100 (63)            | 6                     |                              |                    |          |        |         |
| 12.5       |            | 11.1 ft - 14.0 ft, Laminated dark-gray to black, Carbonaceous to highly graphitic Phyllite, and white quartz. Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 41             | 4 (45)         | 90 (31)             | 2                     |                              |                    |          |        |         |
| 15.0       |            | 14.0 ft - 16.6 ft, Laminated dark-gray to black, Carbonaceous to highly graphitic Phyllite, and white quartz. Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 50             | 5 (45)         | 85 (82)             | 1                     |                              |                    |          |        |         |
| 17.5       |            | Hole stopped @ 16.6 ft   |                |                     |                       |                              |                    |          |        |         |
| 20.0       |            | Remarks:<br>Hole collapsed at 6.8 ft.  |                |                     |                       |                              |                    |          |        |         |
| 22.5       |            |  |                |                     |                       |                              |                    |          |        |         |

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.

BORING LOG 2 WATERBURY NHG SGNL(43).GPJ VERMONT AOT.GDT 4/15/13