



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

BORING NUMBER: RB-05  
SHEET 1 of 2  
DATE STARTED: 8/07/09  
DATE COMPLETED: 8/13/09

PROJECT NAME: BRISTOL  
SITE NAME: VT-116  
STATION: 125+47  
OFFSET: -22.00  
VTSPG NAD83: N 582801.57 ft E 1484430.72 ft

PROJECT NUMBER: BRF 021-1(15)  
SITE NUMBER: BR-6&8  
GROUND ELEVATION: 330.34 ft  
GROUNDWATER DEPTH: 5.2 ft 8/14/09  
PROJECT PIN NUMBER: 78F187

BORING CREW  
CREW CHIEF: PORTER  
DRILLER: PORTER  
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL  
CHECKED BY: CEE

| DEPTH (ft) | SYMBOL | CLASSIFICATION OF MATERIALS (Description)  | BLOWS PER FOOT | M.C. (%) | GRAVEL (%) | SAND (%) | FINES (%) |
|------------|--------|--|----------------|----------|------------|----------|-----------|
|            |        | A-4, SiSa, brn, Moist, Rec. = 0.9 ft   | 2              | 23.0     | 0.0        | 58.0     | 42.0      |
|            |        | A-4, SiSa, brn, Moist, Rec. = 1.3 ft   | 2              | 35.4     | 0.0        | 57.7     | 42.3      |
| 5          |        | NXDC, Boulder, 6.6 ft - 8.0 ft   |                |          |            |          |           |
|            |        | A-4, SiSa, gry, Wet, Rec. = 0.7 ft   | 12             | 15.4     | 10.4       | 49.1     | 40.5      |
| 10         |        |  |                |          |            |          |           |
|            |        | A-4, SaSi, gry, Wet, Rec. = 0.6 ft   | 14             | 17.7     | 17.2       | 35.1     | 47.7      |
| 15         |        |  |                |          |            |          |           |
|            |        | A-4, SaSi, gry, Wet, Rec. = 1.1 ft   | 11             | 18.8     | 11.0       | 39.7     | 49.3      |
| 20         |        |  |                |          |            |          |           |
|            |        | A-4, SaSi, gry, Wet, Rec. = 0.9 ft   | R              | 17.4     | 13.8       | 22.5     | 63.7      |
| 25         |        |  |                |          |            |          |           |
|            |        | A-4, SaSi, gry, Wet, Rec. = 1.0 ft   | 78             | 17.7     | 13.0       | 36.3     | 50.7      |
| 30         |        |  |                |          |            |          |           |
|            |        | NXDC, Cobbles, 31.7 ft - 33.5 ft   |                |          |            |          |           |
|            |        | A-4, GrSiSa, gry, Wet, Rec. = 0.4 ft   | R              | 10.4     | 20.6       | 43.9     | 35.5      |
| 35         |        | Field Note: Bit worn out. Inserted 3.5 inch casing.  |                |          |            |          |           |
|            |        | Visual Classification, SiSaGr with broken rock., gry, Wet, Rec. = 0.5 ft, Insufficient sample for testing. | R              |          |            |          |           |
| 40         |        |  |                |          |            |          |           |
|            |        | A-4, SaSi, gry, MTW, Rec. = 1.5 ft   | R              | 22.6     | 0.0        | 28.5     | 71.5      |
| 45         |        |  |                |          |            |          |           |
|            |        | A-4, SaSi, gry, MTW, Rec. = 1.0 ft   | R              | 23.6     | 0.0        | 35.3     | 64.7      |

LOG OF BORING BRISTOL BRF 021-1(15).GPJ VT AOT.GDT 12/16/09



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

BORING NUMBER: RB-05  
SHEET 2 of 2  
DATE STARTED: 8/07/09  
DATE COMPLETED: 8/13/09

PROJECT NAME: BRISTOL  
SITE NAME: VT-116  
STATION: 125+47  
OFFSET: -22.00  
VTSPG NAD83: N 582801.57 ft E 1484430.72 ft

PROJECT NUMBER: BRF 021-1(15)  
SITE NUMBER: BR-6&8  
GROUND ELEVATION: 330.34 ft  
GROUNDWATER DEPTH: 5.2 ft 8/14/09  
PROJECT PIN NUMBER: 78F187

BORING CREW  
CREW CHIEF: PORTER  
DRILLER: PORTER  
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL  
CHECKED BY: CEE

| DEPTH (ft) | SYMBOL | CLASSIFICATION OF MATERIALS (Description)  | BLOWS PER FOOT | M.C. (%) | GRAVEL (%) | SAND (%) | FINES (%) |
|------------|--------|--|----------------|----------|------------|----------|-----------|
|            |        | A-4, Si, gry, MTW, Rec. = 1.3 ft   | R              | 23.4     | 0.4        | 9.3      | 90.3      |
| 55         |        |  |                |          |            |          |           |
|            |        | A-4, SiSa, gry, MTW, Rec. = 1.5 ft   | R              | 21.4     | 0.0        | 50.6     | 49.4      |
| 60         |        |  |                |          |            |          |           |
|            |        | A-2-4, SiSa, gry, MTW, Rec. = 1.4 ft, Flowing sand. Added Bentonite.                                     | R              | 19.3     | 0.0        | 71.9     | 28.1      |
| 65         |        |  |                |          |            |          |           |
|            |        | A-2-4, SiSa, gry, Moist, Rec. = 1.3 ft, Flowing sand. Added Bentonite.                                   | R              | 19.8     | 0.0        | 74.0     | 26.0      |
| 70         |        |  |                |          |            |          |           |
|            |        | A-4, SiSa, gry, MTW, Rec. = 1.5 ft, Flowing sand. Added Bentonite.                                       | 71             | 22.3     | 0.0        | 61.1     | 38.9      |
| 75         |        |  |                |          |            |          |           |
|            |        | A-2-4, Sa, gry, Wet, Rec. = 1.4 ft, Flowing sand. Added Bentonite.                                       | 50             | 17.3     | 11.5       | 72.8     | 15.7      |
| 80         |        |  |                |          |            |          |           |
|            |        | A-2-4, Sa, gry, Wet, Rec. = 1.2 ft   | 45             | 16.9     | 12.2       | 68.4     | 19.4      |
| 85         |        | BXDC, Cobbles, 84.5 ft - 88.0 ft   |                |          |            |          |           |
|            |        | A-2-4, GrSiSa, gry, Wet, Rec. = 0.5 ft   | R              | 12.1     | 26.7       | 45.2     | 28.1      |
| 90         |        | Boulder, 89.6 ft - 91.5 ft   |                |          |            |          |           |
|            |        | Visual Classification, SaGr with broken rock., gry, Wet, Rec. = 0.3 ft, Insufficient sample for testing. | R              |          |            |          |           |
| 95         |        |  |                |          |            |          |           |
|            |        | A-4, GrSaSi, gry, Wet, Rec. = 0.4 ft   | R              | 12.9     | 24.2       | 34.7     | 41.1      |

LOG OF BORING BRISTOL BRF 021-1(15).GPJ VT AOT.GDT 12/16/09

Hole stopped @ 98.4 ft