

| VTTrans                               |        | STATE OF VERMONT<br>AGENCY OF TRANSPORTATION<br>MATERIALS & RESEARCH SECTION<br>SUBSURFACE INFORMATION  |                | BORING NUMBER: B-103<br>SHEET 1 of 1<br>DATE STARTED: 11/14/06<br>DATE COMPLETED: 11/14/06 |            |           |                     |
|---------------------------------------|--------|---|----------------|--|------------|-----------|---------------------|
| PROJECT NAME: CHESTER                 |        | PROJECT NUMBER: BRF 025-1(28)S  |                | SITE NUMBER: BR 8  |            |           |                     |
| SITE NAME: VT 103                     |        | GROUND ELEVATION: 579.3 ft  |                | GROUNDWATER DEPTH: 8.3 ft 11/14/06   |            |           |                     |
| STATION: 25+49.19                     |        | PROJECT PIN NUMBER: 84E061  |                |  |            |           |                     |
| OFFSET: -27.67                        |        |   |                |  |            |           |                     |
| VTSPG: N 275937.37 ft E 1618152.19 ft |        |   |                |  |            |           |                     |
| BORING CREW                           |        | BORING RIG: LAG TRACK RIG w/AUTO HAMMER   |                |  |            |           |                     |
| CREW CHIEF: GARROW                    |        | BORING TYPE: WASH BORE  |                |  |            |           |                     |
| DRILLER: GARROW                       |        | SAMPLE TYPE: SPLIT BARREL   |                |  |            |           |                     |
| LOGGER: WERNER                        |        | CHECKED BY: CAA   |                |  |            |           |                     |
| DEPTH (ft)                            | SYMBOL | CLASSIFICATION OF MATERIALS (Description)   | BLOWS PER FOOT | M.C. (%)   | GRAVEL (%) | SAND (%)  | FINES (%)           |
|                                       |        |   | RUN            | REC (%)  | RQD (%)    | Dip (deg) | Drill Rate (min/ft) |
| 5                                     |        | A-2-4, GrSa, brn, Moist, Rec. = 0.7 ft  | 20             | 19.4   | 24.9       | 58.6      | 16.5                |
|                                       |        | Cobbles, No Recovery, 2.0 ft - 9.8 ft, Cleaned out casing.  |                |  |            |           |                     |
| 10                                    |        | A-1-b, GrSa, brn, Wet, Rec. = 0.9 ft  | 22             | 12.8   | 46.5       | 47.1      | 6.4                 |
|                                       |        | Field Note: Cleaned out casing  |                |  |            |           |                     |
| 15                                    |        | A-1-b, SaGr, brn, Wet, Rec. = 0.8 ft  | 22             | 10.9   | 47.2       | 44.6      | 8.2                 |
|                                       |        | Field Note: Cleaned out casing  |                |  |            |           |                     |
| 20                                    |        | A-2-4, GrSiSa (HP), gry, Moist, Rec. = 1.0 ft   | R              | 9.5  | 25.1       | 41.8      | 33.1                |
|                                       |        | Field Note: Cleaned out casing  |                |  |            |           |                     |
| 25                                    |        | Top of Bedrock @ 21.8 ft (557.50)   | 1              | 96   | 93         | 40        | 6                   |
|                                       |        | Gray-white, Layered Biotite-Quartz-Plagioclase Gneiss, Competent, Dip runs from 0 to 40., Hard, Unweathered, NXMDC, 21.8 ft - 23.2 ft, Rec. = 4.7 ft      |                |  |            |           |                     |
| 30                                    |        | White-gray, Quartz-Biotite-Plagioclase Gneiss, Quartz rich, Competent, Hard, Unweathered, 23.2 ft - 26.7 ft   |                |  |            |           | 7                   |
|                                       |        | White-gray, Quartz-Biotite-Plagioclase Gneiss, Quartz rich, Competent, Dip runs from 0 to 40., Hard, Unweathered, NXMDC, 26.7 ft - 31.6 ft, Rec. = 4.6 ft | 2              | 94   | 70         | 40        | 5                   |
| Hole stopped @ 31.6 ft                |        |   |                |  |            |           | 6                   |

BOTTOM OF PILE CAP = 572.00

ESTIMATED PILE TIP

LOG OF BORING CHESTER BRF 025-1(28)S.CPJ VT\_AOT.GDT 12/15/08

| VTTrans                               |        | STATE OF VERMONT<br>AGENCY OF TRANSPORTATION<br>MATERIALS & RESEARCH SECTION<br>SUBSURFACE INFORMATION                                       |                | BORING NUMBER: B-104<br>SHEET 1 of 1<br>DATE STARTED: 11/15/06<br>DATE COMPLETED: 11/15/06 |            |           |                     |
|---------------------------------------|--------|--|----------------|--|------------|-----------|---------------------|
| PROJECT NAME: CHESTER                 |        | PROJECT NUMBER: BRF 025-1(28)S   |                | SITE NUMBER: BR 8  |            |           |                     |
| SITE NAME: VT 103                     |        | GROUND ELEVATION: 576.67 ft  |                | GROUNDWATER DEPTH: 5.2 ft 11/15/06   |            |           |                     |
| STATION: 26+12.73                     |        | PROJECT PIN NUMBER: 84E061   |                |  |            |           |                     |
| OFFSET: 17.73                         |        |  |                |  |            |           |                     |
| VTSPG: N 275873.99 ft E 1618197.81 ft |        |  |                |  |            |           |                     |
| BORING CREW                           |        | BORING RIG: LAG TRACK RIG w/AUTO HAMMER  |                |  |            |           |                     |
| CREW CHIEF: GARROW                    |        | BORING TYPE: WASH BORE   |                |  |            |           |                     |
| DRILLER: GARROW                       |        | SAMPLE TYPE: SPLIT BARREL  |                |  |            |           |                     |
| LOGGER: WERNER                        |        | CHECKED BY: CAA  |                |  |            |           |                     |
| DEPTH (ft)                            | SYMBOL | CLASSIFICATION OF MATERIALS (Description)  | BLOWS PER FOOT | M.C. (%)   | GRAVEL (%) | SAND (%)  | FINES (%)           |
|                                       |        |  | RUN            | REC (%)  | RQD (%)    | Dip (deg) | Drill Rate (min/ft) |
| 5                                     |        | A-2-4, GrSa, brn, Moist, Rec. = 0.7 ft   | 3              | 17.8   | 20.8       | 64.8      | 14.4                |
|                                       |        | Field Class: A-1-b, Gr Sa with Wood, Rec. = 0.3 ft, Insufficient sample for testing.   | 4              |  |            |           |                     |
| 10                                    |        | Top of Bedrock @ 9.7 ft (566.97)   | 1              | 100  | 100        | 80        | 8                   |
|                                       |        | Gray-white, Biotite-Quartz-Plagioclase Gneiss, Competent, Dip runs from 0 to 80., Hard, Unweathered, NXMDC, 9.7 ft - 10.5 ft, Rec. = 0.8 ft  | 2              | 100  | 73         | 80        | 9                   |
| 15                                    |        | Gray-white, Biotite-Quartz-Plagioclase Gneiss, Competent, Dip runs from 0 to 80., Hard, Unweathered, NXMDC, 10.5 ft - 11.0 ft, Rec. = 4.9 ft |                |  |            |           | 9                   |
|                                       |        | Quartz vein., 11.0 ft - 12.4 ft<br>Gray-white, Biotite-Quartz-Plagioclase Gneiss, Competent, Hard, Unweathered, 12.4 ft - 15.4 ft            |                |  |            |           | 6                   |
| 20                                    |        | Gray-white, Biotite-Quartz-Plagioclase Gneiss, Competent, Dip runs from 0 to 80., Hard, Unweathered, NXMDC, 15.4 ft - 17.7 ft, Rec. = 3.6 ft | 3              | 92   | 79         | 80        | 6                   |
|                                       |        | Quartz vein., 17.7 ft - 18.0 ft<br>Biotite-Quartz-Plagioclase Gneiss, 18.0 ft - 18.4 ft<br>Quartz vein., 18.4 ft - 19.3 ft                   |                |  |            |           | 5                   |
| Hole stopped @ 19.3 ft                |        |  |                |  |            |           | 6                   |

TOP OF FOOTING ELEVATION = 573.5

LOG OF BORING CHESTER BRF 025-1(28)S.CPJ VT\_AOT.GDT 12/15/08

|                                      |                        |
|--------------------------------------|------------------------|
| PROJECT NAME: CHESTER                | PLOT DATE: 20-SEP-2010 |
| PROJECT NUMBER: BRF 025-1(28)        | DRAWN BY: M&R LAB      |
| FILE NAME: 84e061/Str/s84e061bor.dgn | CHECKED BY: R.S.YOUNG  |
| PROJECT LEADER: C.P.WILLIAMS         | SHEET 24 OF 124        |
| DESIGNED BY: R.S.YOUNG               |                        |
| BRIDGE 8 BORING LOGS 2               |                        |