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|--|-------------------------------|----------------------------------|-------------|------------------|--------------------------|-------------|-----------------------------|
| Boring Crew: <u>Mazzei, Judkins, Emerson</u>       |                               | Type:                            | Casing      | Sampler          | Groundwater Observations |             |                             |
| Date Started: <u>6/27/17</u>                       | Date Finished: <u>7/07/17</u> | I.D.:                            | WB          | SS               | Date                     | Depth (ft)  | Notes                       |
| VTSPG NAD83: <u>N 537923.23 ft E 1497366.20 ft</u> |                               | Hammer Wt: <u>N.A.</u>           | <u>4 in</u> | <u>1.5 in</u>    | <u>07/07/17</u>          | <u>11.2</u> | <u>W.T. during drilling</u> |
| Station: <u>47+00</u>                              | Offset: <u>-9.70</u>          | Hammer Fall: <u>N.A.</u>         |             | <u>30 in.</u>    |                          |             |                             |
| Ground Elevation: <u>986.7 ft</u>                  |                               | Hammer/Rod Type: <u>Auto/AWJ</u> |             |                  |                          |             |                             |
|  |                               | Rig: <u>CME 55 TRACK</u>         |             | <u>CE = 1.41</u> |                          |             |                             |

|  |                               |                                  |             |                  |                          |             |                             |
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| Depth (ft)  | Strata (1) | CLASSIFICATION OF MATERIALS (Description)                                     | Run (Dip deg.) | Core Rec. % (ROD %) | Drill Rate minutes/ft | Blows/6" (N Value)  | Moisture Content % | Gravel % | Sand % | Fines % |
|-------------|------------|---|----------------|---------------------|-----------------------|---------------------|--------------------|----------|--------|---------|
| 0.0 - 0.42  |            | Asphalt Pavement, 0.0 ft - 0.42 ft  |                |                     |                       |                     |                    |          |        |         |
| 0.42 - 1.2  |            | Reclaimed Asphalt Pavement, 0.42 ft - 1.2 ft                                  |                |                     |                       |                     |                    |          |        |         |
| 1.2 - 2.5   |            | Field Note: No Recovery   |                |                     |                       | 11-11-5 (16)        |                    |          |        |         |
| 2.5 - 5.0   |            | Field Note: No Recovery   |                |                     |                       | 47-R@2.5"           |                    |          |        |         |
| 5.0 - 7.5   |            | Field Note: No Recovery   |                |                     |                       |                     |                    |          |        |         |
| 7.5 - 10.0  |            | Field Note: NXDC, Cleaned out casing, Cobbles                                 |                |                     |                       |                     |                    |          |        |         |
| 10.0 - 12.5 |            | A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft  |                |                     |                       | 9-45-R@0" (R)       | 9.3                | 61.1     | 29.9   | 9.0     |
| 12.5 - 15.0 |            | Field Note: NXDC, Cleaned out casing, Cobbles                                 |                |                     |                       |                     |                    |          |        |         |
| 15.0 - 17.5 |            | Field Note: No Recovery   |                |                     |                       | 50-35-34-R@3.5" (R) |                    |          |        |         |
| 17.5 - 21.5 |            | Field Note: NXDC, Cleaned out casing  |                |                     |                       |                     |                    |          |        |         |
| 21.5 - 29.6 |            | A-1-a, SaGr, brn, Wet, Rec. = 0.3 ft, Lab Note: Broken rock was within sample |                |                     |                       | 22-19-24-28 (43)    | 7.0                | 75.4     | 20.1   | 4.5     |
| 29.6 - 34.6 |            | Field Note: NXDC, Cleaned out casing  |                |                     |                       |                     |                    |          |        |         |

| Depth (ft)  | Strata (1) | CLASSIFICATION OF MATERIALS (Description)   | Run (Dip deg.) | Core Rec. % (ROD %) | Drill Rate minutes/ft | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|-------------|------------|---|----------------|---------------------|-----------------------|--------------------|--------------------|----------|--------|---------|
| 0.0 - 22.5  |            | Field Note: No Recovery   |                |                     |                       |                    |                    |          |        |         |
| 22.5 - 25.0 |            | Field Note: Rollercone, Cleaned out casing  |                |                     |                       |                    |                    |          |        |         |
| 25.0 - 29.6 |            | A-4, SaSi, gry, Moist, Rec. = 0.35 ft   |                |                     |                       | 19-20-31-27 (51)   |                    |          |        |         |
| 29.6 - 30.0 |            | A-1-b, SiSaGr, gry, Moist, Rec. = 0.3 ft, Lab Note: Broken rock was within sample   |                |                     |                       | 20-25-46-R@1" (R)  | 22.8               | 2.7      | 46.6   | 50.7    |
| 30.0 - 32.2 |            | 29.6 ft - 32.2 ft, Light gray, Quartz-muscovite-biotite GNEISS, Irregular banding of cm wide variegated, sulfidic quartz +/- biotite and mica ribbons. NX   | 1 (70)         | 100 (26)            | 7                     |                    |                    |          |        |         |
| 32.2 - 34.6 |            | 32.2 ft - 34.6 ft, Salt and peppered, Biotite-quartz GNEISS, Banding of mm wide zones of biotite with mm wide zones of granular quartz. Joints have slight orange staining on them and are rough. Hard, Slightly weathered, Fair rock, RMR=52 |                |                     | 6                     |                    |                    |          |        |         |
| 34.6 - 35.0 |            | Hole stopped @ 34.6 ft  |                |                     | 7                     |                    |                    |          |        |         |
| 35.0 - 37.5 |            | Remarks: Hole collapsed at 21.5 feet.   |                |                     | 5                     |                    |                    |          |        |         |
| 37.5 - 40.0 |            |   |                |                     |                       |                    |                    |          |        |         |

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. <<SUB>><<SUB>> 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.

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BORING LOG 2 RIPTON ER STP 0174(19) GSPJ VERMONT AOT LGDT 8/4/17