

| STATE OF VERMONT<br>AGENCY OF TRANSPORTATION<br>MATERIALS & RESEARCH DIVISION<br>SUBSURFACE INFORMATION |             | HOLE NO.: B-103<br>SHEET 1 OF 4<br>DATE STARTED: 9/27/00<br>DATE COMPLETED: 10/6/00    |                 |        |          |        |         |    |    |
|---|-------------|--|-----------------|--------|----------|--------|---------|----|----|
| PROJECT NAME: CORNWALL<br>SITE NAME: BR 9<br>STATION: I+13J0<br>GROUND EL.:                             |             | PROJECT NUMBER: BRS 0172 (6)<br>SITE NO.: VT 125<br>OFFSET: -24.4<br>G.W. DEPTH: 0.32  |                 |        |          |        |         |    |    |
| BORING CREW<br>CREW CHIEF: YOUNG<br>DRILLER: CHABOT<br>LOGGER: RUSSELL<br>ADDITIONAL CREW:              |             | BORING RIG: UNI-MOC<br>BORING TYPE: WASH BORE<br>SAMPLE TYPE: SPLIT BARREL/SHELBY TUBE |                 |        |          |        |         |    |    |
| DEPTH   | SYMBOL      | CLASSIFICATION OF MATERIALS<br>(Description)   | BLOWS PER 0.3 m | M.C. % | GRAVEL % | SAND % | FINES % | LL | PI |
|   |             |  |                 |        |          |        |         |    |    |
|   | OR          | A-7-6, Cl, 1.00m-1.58m,<br>Rec. = 0.46m, 5.77% Organic,<br>Shelby Tube U1              | 36              | 0.2    | 4.4      | 95.4   | 54      | 26 |    |
|   |             | VS: Could only penetrate 0.2m  |                 |        |          |        |         |    |    |
|   |             | A-7-6, Cl, 3.00m-3.59m,<br>Rec. = 0.59m, Shelby Tube U2                                | 35.4            |        | 1.1      | 98.9   | 51      | 29 |    |
|   |             | VS: 13.0 KPa/remold-13.5 KPa   |                 |        |          |        |         |    |    |
| 5   |             | A-6, SiCl, 5.00m-5.59m,<br>Rec. = 0.59m, Shelby Tube U3                                | 33.1            |        | 0.9      | 99.1   | 36      | 18 |    |
|   |             | VS: 15.0 KPa/remold-5.5 KPa  |                 |        |          |        |         |    |    |
|   | SHELBY TUBE | 7.00m-7.43m, Shelby Tube<br>No Rec.  |                 |        |          |        |         |    |    |
|   |             | VS: 15.5 KPa/remold-6.0 KPa<br>Vane came back heavily<br>damaged                       |                 |        |          |        |         |    |    |
|   | SHELBY TUBE | 9.00m-9.28m, Shelby Tube<br>No Rec.  |                 |        |          |        |         |    |    |
| 10  |             | VS: 50.5 KPa/remold-11.0 KPa   |                 |        |          |        |         |    |    |
|   |             | A-2-4, Sa, gry, Moist,<br>Rec. = 0.38m   | 18              | 19     | 1.6      | 86.6   | 11.8    |    |    |
|   |             | A-2-4, Sa, gry, Moist,<br>Rec. = 0.59m   | 21              | 19.6   | 2.9      | 84.8   | 12.3    |    |    |

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|---|--------|--|-----------------|--------|----------|--------|---------|----|----|
| PROJECT NAME: CORNWALL<br>SITE NAME: BR 9<br>STATION: I+13J0<br>GROUND EL.:                             |        | PROJECT NUMBER: BRS 0172 (6)<br>SITE NO.: VT 125<br>OFFSET: -24.4<br>G.W. DEPTH: 0.32  |                 |        |          |        |         |    |    |
| BORING CREW<br>CREW CHIEF: YOUNG<br>DRILLER: CHABOT<br>LOGGER: RUSSELL<br>ADDITIONAL CREW:              |        | BORING RIG: UNI-MOC<br>BORING TYPE: WASH BORE<br>SAMPLE TYPE: SPLIT BARREL/SHELBY TUBE |                 |        |          |        |         |    |    |
| DEPTH   | SYMBOL | CLASSIFICATION OF MATERIALS<br>(Description)   | BLOWS PER 0.3 m | M.C. % | GRAVEL % | SAND % | FINES % | LL | PI |
|   |        | A-4, SaSi, gry, MTW,<br>Rec. = 0.57m   | 6               | 20.8   | 0.5      | 24.7   | 74.8    |    |    |
|   |        | A-4, SiSa, gry, MTW,<br>Rec. = 0.41m   | 17              | 22.4   | 1.2      | 53.2   | 45.6    |    |    |
|   |        | A-3, Sa, gry, MTW,<br>Rec. = 0.46m   | 35              | 20.9   | 0.1      | 95.3   | 4.6     |    |    |
| 20  |        | A-4, SaSi, gry, MTW,<br>Rec. = 0.60m   | 24              | 22.3   | 3.5      | 31.5   | 65      |    |    |
|   |        | A-2-4, GrSa, gry, Moist,<br>Rec. = 0.29m   | 41              | 13.6   | 28.5     | 58.4   | 13.1    |    |    |
|   |        | No sample, in gravel   |                 |        |          |        |         |    |    |
|   |        | BXDC, 23.21m-24.60m, Boulders  |                 |        |          |        |         |    |    |
| 25  |        | A-2-4, Sa, gry, Moist,<br>Rec. = 0.23m   | 22              | 18.1   | 6        | 79.8   | 14.2    |    |    |
|   |        | A-4, SiSa, gry, Moist,<br>Rec. = 0.45m   | 36              | 14.1   | 4        | 58.2   | 37.8    |    |    |
|   |        | A-2-4, SiSa, gry, Moist,<br>Rec. = 0.31m   | R               | 17.4   | 1.1      | 76     | 22.9    |    |    |

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|---|--------|--|-----------------|--------|----------|--------|---------|----|----|
| PROJECT NAME: CORNWALL<br>SITE NAME: BR 9<br>STATION: I+13J0<br>GROUND EL.:                             |        | PROJECT NUMBER: BRS 0172 (6)<br>SITE NO.: VT 125<br>OFFSET: -24.4<br>G.W. DEPTH: 0.32  |                 |        |          |        |         |    |    |
| BORING CREW<br>CREW CHIEF: YOUNG<br>DRILLER: CHABOT<br>LOGGER: RUSSELL<br>ADDITIONAL CREW:              |        | BORING RIG: UNI-MOC<br>BORING TYPE: WASH BORE<br>SAMPLE TYPE: SPLIT BARREL/SHELBY TUBE |                 |        |          |        |         |    |    |
| DEPTH   | SYMBOL | CLASSIFICATION OF MATERIALS<br>(Description)   | BLOWS PER 0.3 m | M.C. % | GRAVEL % | SAND % | FINES % | LL | PI |
|   |        | No Rec., Stone in sampler.   | R               |        |          |        |         |    |    |
| 35  |        | A-3, Sa, gry, Moist,<br>Rec. = 0.44m   | R               | 13.4   | 0.5      | 93.1   | 6.4     |    |    |
|   |        | BXDC, 37.05m-37.50m,<br>Cleaned out casing.  |                 |        |          |        |         |    |    |
|   |        | A-1-b, GrSa, gry, Moist,<br>Rec. = 0.33m, Broken Rock<br>was within sample.            | R               | 12.1   | 22.9     | 69     | 8.1     |    |    |
| 40  |        | No Rec.  | R               |        |          |        |         |    |    |
|   |        | A-4, SaGrSi HP, gry, Dry,<br>Rec. = 0.10m  | R               | 7.1    | 37.3     | 24.2   | 38.5    |    |    |

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|---|--------|--|-----------------|--------|----------|--------|---------|----|----|
| PROJECT NAME: CORNWALL<br>SITE NAME: BR 9<br>STATION: I+13J0<br>GROUND EL.:                             |        | PROJECT NUMBER: BRS 0172 (6)<br>SITE NO.: VT 125<br>OFFSET: -14.00<br>G.W. DEPTH: 0.32 |                 |        |          |        |         |    |    |
| BORING CREW<br>CREW CHIEF: YOUNG<br>DRILLER: CHABOT<br>LOGGER: RUSSELL<br>ADDITIONAL CREW:              |        | BORING RIG: UNI-MOC<br>BORING TYPE: WASH BORE<br>SAMPLE TYPE: SPLIT BARREL/SHELBY TUBE |                 |        |          |        |         |    |    |
| DEPTH   | SYMBOL | CLASSIFICATION OF MATERIALS<br>(Description)   | BLOWS PER 0.3 m | M.C. % | GRAVEL % | SAND % | FINES % | LL | PI |
|   |        | BXDC, 45.70m-47.20m, Boulders  |                 |        |          |        |         |    |    |
|   |        | Hole stopped @ 47.20m  |                 |        |          |        |         |    |    |

- DRILLER'S NOTES:
- Monitoring well installed at 7.62m, the well casing extends 0.98m above the ground elevation.
  - Water table is 0.32m below ground surface on 11/16/00
  - Changed to smaller casing at 16.50m.
  - 21.0m of sand in casing at 28.5m - added drilling mud, pulled casing back and readvanced casing to 28.50m.
  - Water table is 0.12m below ground surface on 03/15/01

### BORING LOG SHEET 2

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83(92)

|                                       |                           |
|---------------------------------------|---------------------------|
| PROJECT: CORNWALL                     | PROJECT NO.: BRS 0172 (6) |
| DESIGN FILE NAME: z85e042bor logs.dgn | PLOT DATE: 2/5/2010       |
| IPARM FILE NAME:                      | SURVEY DATE:              |
| SURVEYED BY:                          | DRAWN BY: J. TOUCHETTE    |
| SQUAD LEADER: C. C. BENDA             | SHEET: 70 OF 144          |
| DATE: 03/01                           |                           |