

| STATE OF VERMONT<br>AGENCY OF TRANSPORTATION<br>MATERIALS & RESEARCH DIVISION<br>SUBSURFACE INFORMATION |  |  |                      | HOLE NO.: R-10<br>SHEET 1 OF 1<br>DATE STARTED: 2/2/98<br>DATE COMPLETED: 2/3/98      |             |           |            |    |    |
|---|--|--|----------------------|---|-------------|-----------|------------|----|----|
| PROJECT NAME: MORETOWN<br>SITE NAME: RETAINING WALL<br>STATION: REV.196+93.91<br>GROUND EL.: 534.65     |  |  |                      | PROJECT NUMBER: RS0167(9)<br>SITE NO.:<br>OFFSET: 23.71<br>G.W. DEPTH: No Groundwater |             |           |            |    |    |
| BORING CREW<br>CREW CHIEF: E. WILLIS<br>DRILLER: R. MCGLYNN<br>LOGGER: W. LAPORTE                       |  |  |                      | BORING RIG: SKID RIG<br>BORING TYPE: WASH BORE<br>SAMPLE TYPE: SPLIT BARREL           |             |           |            |    |    |
| DEPTH   | SYMBOL   | CLASSIFICATION OF MATERIALS<br>(Description)                           | BLOWS<br>PER<br>FOOT | M.C.<br>%   | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
| 5   |  | A-4, SaSi, M, brn, rec. = 0.8'   | 5                    | 25  |             | 44.7      | 55.3       |    |    |
| 10  |  | A-4, SaSi, M, brn, rec. = 1.2'   | 15                   | 23.8  |             | 34.6      | 65.4       |    |    |
| 15  |  | A-4, SaSi, M, brn, rec. = 1.3'   | 13                   | 29.6  |             | 31.3      | 68.7       |    |    |
| 20  |  | A-4, SaSi, M, brn, rec. = 1.1'   | 28                   | 25.1  |             | 36.5      | 63.5       |    |    |
| 25  |  | A-4, SaSi, M, brn, rec. = 1.3'   | 30                   | 21.6  | 0.3         | 29.2      | 70.5       |    |    |
| 30  |  | A-4, SaSi, M, brn, rec. = 1.0'   | 21                   | 24.3  | 0.1         | 29.3      | 70.6       |    |    |
| 35  |  | Run #1: BXMDC 34.0' - 39.0'<br>rec. = 4.2' - See Geologist's<br>Report | RUN                  | REC %   | ROD %       | Dip °     |            |    |    |
|   |  |  | 1                    | 84  | 68          | 70        |            |    |    |
| 40  |  | Run #2: BXMDC 39.0' - 44.0'<br>rec. = 5.0' - See Geologist's<br>Report | 2                    | 100   | 98          | 70        |            |    |    |
| 45  | Hole stopped @ 44.0'   |  |                      |   |             |           |            |    |    |
| 50  |  |  |                      |   |             |           |            |    |    |
| 55  |  |  |                      |   |             |           |            |    |    |
| 60  |  |  |                      |   |             |           |            |    |    |
| 65  |  |  |                      |   |             |           |            |    |    |
| 70  |  |  |                      |   |             |           |            |    |    |
| 75  |  |  |                      |   |             |           |            |    |    |
| 80  |  |  |                      |   |             |           |            |    |    |
| 85  | Geologist's Report:  |  |                      |   |             |           |            |    |    |
| 90  | Run 1: Core consists of light grayish-green quartz<br>chlorite schist with minor quartz veins.<br>Moderately Hard. Unweathered. Competent. |  |                      |   |             |           |            |    |    |
| 95  | Run 2: Same as Run #1.   |  |                      |   |             |           |            |    |    |

| STATE OF VERMONT<br>AGENCY OF TRANSPORTATION<br>MATERIALS & RESEARCH DIVISION<br>SUBSURFACE INFORMATION |   |  |                        | HOLE NO.: R-12<br>SHEET 1 OF 1<br>DATE STARTED: 2/5/98<br>DATE COMPLETED: 2/9/98      |             |           |            |    |    |
|---|---|--|------------------------|---|-------------|-----------|------------|----|----|
| PROJECT NAME: MORETOWN<br>SITE NAME: RETAINING WALL<br>STATION: REV.197+43.00<br>GROUND EL.: 549.29     |   |  |                        | PROJECT NUMBER: RS0167(9)<br>SITE NO.:<br>OFFSET: 42.00<br>G.W. DEPTH: No Groundwater |             |           |            |    |    |
| BORING CREW<br>CREW CHIEF: R. MCGLYNN<br>DRILLER: E. CHABOT<br>LOGGER: R. TALLMAN                       |   |  |                        | BORING RIG: SKID RIG<br>BORING TYPE: WASH BORE<br>SAMPLE TYPE: SPLIT BARREL           |             |           |            |    |    |
| DEPTH   | SYMBOL  | CLASSIFICATION OF MATERIALS<br>(Description)                           | BLOWS<br>PER<br>FOOT   | M.C.<br>%   | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
| 5   |   | Combined Sample<br>A-4, GrSaSi, M, brn<br>rec. varies 1.0 to 1.5       | 4                      | 22.3  | 20.4        | 34        | 45.6       |    |    |
| 10  |   | Friction Angle = 29°<br>Cohesion, c, = 225 psf                         | 12                     |   |             |           |            |    |    |
| 15  | 15  |  | 10.3                   |   |             |           |            |    |    |
| 20  | 11  |  | 19.6                   |   |             |           |            |    |    |
| 25  |   |  | 11                     | 24  |             |           |            |    |    |
| 30  |   | Combined Sample<br>A-4, SaSi, M, brn<br>rec. varies 1.0 to 1.3         | 18                     | 20.5  | 0.2         | 46.3      | 53.5       |    |    |
| 35  |   | Friction Angle = 33°<br>Cohesion, c, = 0 psf                           | 17                     | 25.4  |             |           |            |    |    |
| 40  | 13  |  | 24.8                   |   |             |           |            |    |    |
| 45  | 15  |  | 24.9                   |   |             |           |            |    |    |
| 50  |   | Combined Sample<br>A-4, SiSa, M, brn<br>rec. varies 1.1 to 1.2         | 15                     | 26.3  | 4.6         | 52.5      | 42.9       |    |    |
| 55  |   | Friction Angle = 31°<br>Cohesion, c, = 360 psf                         | 19                     | 20.7  |             |           |            |    |    |
| 60  | 22  |  | 14.8                   |   |             |           |            |    |    |
| 65  |   |  | Top of bedrock @ 55.0' |   |             |           |            |    |    |
| 65  |   | Rock Particles, rec. = 2.0   | 23                     | 3.3   |             |           |            |    |    |
| 70  |   | Run #1: BXMDC, 67.0' - 72.0'<br>rec. = 1.0 - See Geologist's<br>Report | RUN                    | REC %   | ROD %       | Dip °     |            |    |    |
|   |   |  | 1                      | 20  | 8           | 70        |            |    |    |
| 75  |   | Run #1: BXMDC, 72.0' - 77.0'<br>rec. = 2.4 - See Geologist's<br>Report | 2                      | 48  | 40          | 70        |            |    |    |
| 80  | Hole stopped @ 77.0'  |  |                        |   |             |           |            |    |    |
| 85  | Note: During coring of bedrock 67.0' - 77.0'<br>rock particles being washed away by core water.<br>Monitoring Well installed to 47.5'<br>30' Screen & 20' Solid |  |                        |   |             |           |            |    |    |
| 90  | Geologist's Report:   |  |                        |   |             |           |            |    |    |
| 95  | Run 1: Core consists of light green quartz-chlorite<br>schist. Moderately hard. Unweathered.<br>Poor ROD and recovery.<br>Run 2: Same as Run #1.                |  |                        |   |             |           |            |    |    |

### BORING LOGS (3)

|  |  |                        |
|--|--|------------------------|
| PROJECT NAME: MORETOWN                 | FILE NAME: \78e132\Structures\sel32b04.i | PLOT DATE: 12-MAY-2000 |
| PROJECT NUMBER: STP EGC RSEGC 0167 (9) | PROJECT LEADER: R.R. WHITCOMB            | DRAWN BY: G. ROY       |
|  | DESIGNED BY: C. ALLEN                    | CHECKED BY: C. ALLEN   |
|  | BRIDGE SHEET BR312                       | SHEET 143D OF 243      |