**STATE OF VERMONT**
**AGENCY OF TRANSPORTATION**
**MATERIALS & RESEARCH DIVISION**
**SUBSURFACE INFORMATION**

HOLE NO.: B-3
SHEET 1 OF 3
DATE STARTED: 02/27/03
DATE COMPLETED: 03/18/03

PROJECT NAME: BROWNINGTON
SITE NAME: BR 8
STATION: 10+96.00
GROUND EL.: 1098.51

PROJECT NUMBER: BRO 1449 (28)
SITE NO.: TH 2
OFFSET: 13.0
G.W. DEPTH: Hole caved in @ 12.0'

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS (Description) | BLOWS PER FOOT | M.C. % | GRAVEL % | SAND % | FINES % | LL | PI |
|---|---|---|---|---|---|---|---|---|---|
| | BXDC | 1.25'-2.0', Cleaned casing | | | | | | | |
| | OR | A-2-4, SiSa, brn, Moist Rec. = 1.4' Wood & Trace of Organics (5.1%) | 2 | 45.9 | 7.6 | 63.6 | 28.8 | | |
| 5 | OR | A-2-4, SiSa, brn, Moist Rec. = 1.1' Wood & Trace of Organics (4.0%) | 5 | 44.2 | 10 | 67.9 | 22.1 | | |
| | | Visual Class: A-2-4, Wood with SiSa, Rec. = 0.65' | 3 | 95.4 | | | | | |
| | | A-4, SiSa, brn, Moist Rec. = 0.70' Wood was within sample | 12 | 48.5 | 14.2 | 46.9 | 38.9 | | |
| 10 | | A-4. SaSi, gry, Moist, Rec. = 1.15' | 14 | 12.9 | 9.9 | 25.7 | 64.4 | | |
| | | A-4, Si, gry, Moist, Rec. = 1.3' | 24 | 13.1 | 17.4 | 18.6 | 64 | | |
| 15 | | No sample at 14.0', Boulder | | | | | | | |
| | | A-4, SaSi HP, gry, Moist Rec. = 1.8' | 66 | 12.4 | 14.3 | 27.1 | 58.6 | | |
| | | A-4, SaSi HP, gry, Moist Rec. = 1.4' | 92 | 13.6 | 15.6 | 26.2 | 58.2 | | |
| 20 | | A-4, GrSaSi HP, gry, Moist Rec. = 0.9' | R | 10.5 | 25 | 31.3 | 43.7 | | |
| | | A-4, SaSi HP, gry, Moist Rec. = 1.6' | 94 | 12.7 | 16.3 | 26.4 | 57.3 | | |
| 25 | | BXDC, Boulder No sample 24.0'-26.0' | | | | | | | |
| | | A-4, SaSi HP, gry, Moist Rec. = 1.8' | 98 | 12.3 | 5.8 | 29.3 | 64.9 | | |
| | | A-4, SaSi HP, gry, Moist Rec. = 1.8' | 89 | 12.3 | 12.8 | 32 | 55.2 | | |
| 30 | | A-4, SaSi HP, gry, Moist Rec. = 2.0' | 65 | 14.6 | 0.9 | 31.4 | 67.7 | | |
| 35 | | A-4, SiSa, gry, Moist Rec. = 2.0' | 71 | 13.9 | 6.5 | 53.6 | 39.9 | | |
| 40 | | A-4, SaSi HP, gry, Moist Rec. = 1.95' | 71 | 11.1 | 4.8 | 26.1 | 69.1 | | |
| 45 | | A-4, SaSi HP, gry, Moist Rec. = 1.95' | 91 | 12.8 | 5.9 | 29.4 | 64.7 | | |
| | BXDC | 48.5'-50.0', Cleaned out casing | | | | | | | |

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HOLE NO.: B-3
SHEET 2 OF 3
DATE STARTED: 02/27/03
DATE COMPLETED: 03/18/03

PROJECT NAME: BROWNINGTON
SITE NAME: BR 8
STATION: 10+96.00
GROUND EL.: 1098.51

PROJECT NUMBER: BRO 1449 (28)
SITE NO.: TH 2
OFFSET: 13.0
G.W. DEPTH: Hole caved in @ 12.0'

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
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BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS (Description) | BLOWS PER FOOT | M.C. % | GRAVEL % | SAND % | FINES % | LL | PI |
|---|---|---|---|---|---|---|---|---|---|
| | | A-4, ClSi, gry, Moist, Rec. = 2.0' | 48 | 23.5 | | 1 | 99 | 35 | 10 |
| | BXDC | 53.5'-55.0', Cleaned out casing | | | | | | | |
| 55 | | A-6, SiCl, gry, Moist, Rec. = 2.0' | 46 | 24.1 | | 0.7 | 99.3 | 36 | 11 |
| | BXDC | 58.75'-60.0 Cleaned out casing | | | | | | | |
| 60 | | A-6, SiCl, gry, Moist Rec. = 1.1' | 44 | 24.1 | 0.1 | 3.1 | 96.8 | 37 | 13 |
| | | A4, SaSi, gry, Moist Rec. = 0.9' | | 23.3 | | 39.9 | 60.1 | | |
| 65 | | A-4, Si, gry, Moist, Rec. = 2.0' | 32 | 24.5 | | 13.7 | 86.3 | | |
| 70 | | A-6, SiCl, gry, Moist Rec. = 1.5' | 33 | 26 | | 2.2 | 97.8 | 34 | 11 |
| | | A-4, Si, gry, Moist Rec. = 0.5' | | 26.3 | | 10.1 | 89.9 | | |
| 75 | | A-6, SiCl, gry, Moist Rec. = 1.7' | 30 | 28 | | 6.8 | 93.2 | 37 | 12 |
| | | A-1-b, Sa, gry, Moist Rec. = 0.3' | | 20.1 | 7.1 | 86.6 | 6.3 | | |
| 80 | | A-6, SiCl, gry, Moist Rec. = 1.1 | 37 | 25.2 | 1.2 | 11.9 | 86.9 | 37 | 14 |
| | | A-1-a, SaGr, gry, Moist Rec. = 0.9' | | 11.0 | 61.6 | 33 | 5.4 | | |
| 85 | | Advanced casing to 83.0' BXGDC, 82.5'-87.0' Boulders & Gravel | | | | | | | |
| 90 | BXDC | 88.75'-90.75' Advanced casing to 90.0' | | | | | | | |
| | | A-4, GrSiSa HP, gry, Moist, Rec. = 1.2' | R | 15 | 25 | 37.5 | 37.5 | | |
| 95 | | A-1-b, SiGr HP, gry, Moist, Rec. = 0.5' | R | 6.8 | 65.7 | 12.4 | 21.9 | | |
| | | BXGDC 99.0'-103.0' | | | | | | | |

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HOLE NO.: B-3
SHEET 3 OF 3
DATE STARTED: 02/27/03
DATE COMPLETED: 03/18/03

PROJECT NAME: BROWNINGTON
SITE NAME: BR 8
STATION: 10+96.00
GROUND EL.: 1098.51

PROJECT NUMBER: BRO 1449 (28)
SITE NO.: TH 2
OFFSET: 13.0
G.W. DEPTH: Hole caved in @ 12.0'

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS (Description) | BLOWS PER FOOT | M.C. % | GRAVEL % | SAND % | FINES % | LL | PI |
|---|---|---|---|---|---|---|---|---|---|
| | | BXGDC, 99.0'-103.0' Boulders, Cleaned out casing. | | | | | | | |
| 105 | BXGDC | BXGDC, 103.8'-108.8' Broke through Boulder at 107.3', Cleaned casing. Advanced casing to 110.0' | | | | | | | |
| 110 | | A-4, SiGr, gry, Moist, Rec. = 0.2' | R | 13.2 | 43.3 | 17.8 | 38.9 | | |
| | BXDC | 113.0'-115.0', Cleaned out casing. | | | | | | | |
| 115 | | BXDC, 113.0'-116.75' No sample, Boulder | | | | | | | |
| | | Top of bedrock @ 117.2' | | | | | | | |
| | | Run#1: BXGDC, 117.2'-122.2' Rec. = 4.8' See Geologist's Report. | RUN 1 | REC% 96 | RQD% 52 | Dip° 40 | | | |
| 120 | | | | | | | | | |
| 125 | | Run#2: BXGDC, 122.2'-127.2' Rec. = 5.0' See Geologist's Report. | 2 | 100 | 64 | 40 | | | |
| | | Hole stopped @ 127.2' | | | | | | | |
| 130 | | | | | | | | | |

GEOLOGIST'S REPORT:

Run#1: Gray phyllite and phyllitic schist with occasional zones of biotite porphyroblasts aligned parallel with foliation, Moderately hard, Unweathered, Competent.

Run#2: 122.2'-124.4', Gray phyllite and phyllitic schist with occasional zones of biotite porphyroblasts aligned parallel with foliation, Moderately hard, Unweathered, Competent.

124.4'-127.2', Light gray siliceous limestone, Hard to moderately hard, Unweathered, Competent

135

140

145