



STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-101
SHEET 1 of 1
DATE STARTED: 5/31/07
DATE COMPLETED: 6/07/07

PROJECT NAME: JAMAICA
SITE NAME: TH-43
STATION: 34+93
OFFSET: 1.00
VTSPG: N 208604.63 ft E 1577801.71 ft

PROJECT NUMBER: BRO 1442(27)
SITE NUMBER: BR-33
GROUND ELEVATION: 556.42 ft
GROUNDWATER DEPTH: 13.8 ft 6/07/07
PROJECT PIN NUMBER: 96J068

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: CARRIERE

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
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) |
| | | Visual Classification: Coarse sand withleaves, roots, & grass., brn, Moist, Rec. = 0.3 ft | 3 | 6.0 | 32.6 | 64.8 | 2.6 |
| | | A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft | | | | | |
| | | NXDC, Cored ahead into Cobbles and advanced casing., 2.9 ft - 5.0 ft | | | | | |
| | | A-1-b, GrSa, brn, MTW, Rec. = 0.6 ft | 6 | 12.9 | 42.1 | 49.1 | 8.8 |
| 10 | | NXDC, Cleaned out casing., 9.3 ft - 10.0 ft | | | | | |
| | | A-1-a, SaGr, gry, MTW, Rec. = 0.75 ft | 6 | 11.0 | 53.7 | 39.8 | 6.5 |
| | | NXDC, Cored ahead into Cobbles and advanced casing., 13.7 ft - 18.7 ft | | | | | |
| 20 | | A-2-4, Sa, Lt/brn, MTW, Rec. = 1.0 ft | 16 | 22.0 | 0.8 | 82.0 | 17.2 |
| | | A-3, Sa, brn, MTW, Rec. = 1.2 ft, Used drillers mud. | 16 | 24.7 | 0.8 | 89.3 | 9.9 |
| 30 | | A-2-4, SiSa, gry-brn, Moist, Rec. = 1.3 ft | 20 | 23.5 | 0.0 | 74.5 | 25.5 |
| | | NXDC, Cored ahead into Boulder., 33.9 ft - 35.9 ft | | | | | |
| 40 | | A-4, SaSi, Lt/brn, Moist, Rec. = 1.5 ft | 30 | 23.2 | 13.6 | 36.7 | 49.7 |
| | | NXDC, Cobbles, Cleaned out casing., 42.7 ft - 45.0 ft | | | | | |
| | | A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft | 66 | 9.8 | 44.3 | 43.0 | 12.7 |
| 50 | | Gray with some pink, Gneiss, Competent, Very hard, Unweathered, NXMDC, 49.9 ft - 54.9 ft, Rec. = 4.35 ft | 1 | 87 | 72 | 10 | 14 12 11 9 9 |
| | | Gray with some pink, Gneiss, Competent, Very hard, Unweathered, NXMDC, 54.9 ft - 59.9 ft, Rec. = 4.55 ft | 2 | 91 | 91 | 15 | 6 8 9 8 8 |
| 60 | | Hole stopped @ 59.9 ft | | | | | |

LOG OF BORING - JAMAICA BRO 1442(27).GPJ - VT AOT.GDT 9/20/07



STATE OF VERMONT
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BORING NUMBER: B-102
SHEET 1 of 1
DATE STARTED: 5/24/07
DATE COMPLETED: 5/31/07

PROJECT NAME: JAMAICA
SITE NAME: TH-43
STATION: 36+20
OFFSET: 1.00
VTSPG: N 208496.66 ft E 1577871.81 ft

PROJECT NUMBER: BRO 1442(27)
SITE NUMBER: BR-33
GROUND ELEVATION: 556.11 ft
GROUNDWATER DEPTH: Hole caved in at 11.0'
PROJECT PIN NUMBER: 96J068

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: CARRIERE

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
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) |
| | | A-2-4, GrSa, brn, Moist, Rec. = 1.3 ft | 11 | 6.3 | 30.7 | 54.8 | 14.5 |
| | | A-2-4, GrSa, brn, Moist, Rec. = 0.7 ft | 10 | 13.2 | 35.1 | 52.3 | 12.6 |
| 10 | | NXDC, Cleaned out casing., 9.0 ft - 10.0 ft | 17 | | | | |
| | | No Recovery, 10.0 ft - 12.0 ft | | | | | |
| | | NXDC, Cored ahead into Boulder and cleaned out casing., 13.4 ft - 15.4 ft | R | | | | |
| | | NXMDC, Cored ahead into Boulder., 15.4 ft - 18.4 ft | | | | | |
| 20 | | NXDC, Cleaned out casing., 19.0 ft - 20.0 ft | 31 | 11.7 | 43.6 | 44.9 | 11.5 |
| | | A-1-b, GrSa, brn, MTW, Rec. = 1.2 ft | | | | | |
| | | NXDC, Cleaned out casing., 24.5 ft - 25.0 ft | R | 11.4 | 40.9 | 43.2 | 15.9 |
| | | A-1-b, GrSa, brn, Moist, Rec. = 0.6 ft | | | | | |
| | | NXDC, Cored ahead into Cobbles., 26.4 ft - 28.4 ft | R | 12.5 | 28.6 | 37.9 | 33.5 |
| 30 | | NXDC, Cored ahead into Boulders., 29.6 ft - 32.6 ft | | | | | |
| | | NXDC, Cleaned out casing., 33.0 ft - 34.5 ft | | | | | |
| | | A-2-4, GrSiSa, brn, Moist, Rec. = 1.1 ft | R | 12.5 | 28.6 | 37.9 | 33.5 |
| | | NXDC, Cored ahead into Boulders., 36.7 ft - 40.0 ft | | | | | |
| 40 | | A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft | 64 | 15.4 | 18.4 | 55.2 | 26.4 |
| | | A-2-4, GrSiSa, brn, Moist, Rec. = 0.6 ft | R | 10.9 | 26.1 | 44.7 | 29.2 |
| | | NXMDC, Cored ahead into Boulder., 45.6 ft - 47.6 ft | | | | | |
| 50 | | NXMDC, Cleaned out casing., 49.1 ft - 50.0 ft | R | 11.8 | 27.2 | 57.6 | 15.2 |
| | | A-2-4, GrSa, brn, Moist, Rec. = 1.1 ft | | | | | |
| | | Gray with some pink, Gneiss, Competent., Very hard, Unweathered, NXMDC, 53.8 ft - 58.8 ft, Rec. = 4.8 ft | 1 | 96 | 93 | 10 | 10 12 15 12 13 |
| 60 | | Gray with some pink, Gneiss, Competent. Quartz zone from 60.6 ft - 61.4 ft., Very hard, Unweathered, NXMDC, 58.8 ft - 63.8 ft, Rec. = 5.0 ft | 2 | 100 | 100 | 10 | 9 12 15 15 13 |
| | | Hole stopped @ 63.8 ft | | | | | |

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