



BORING LOG

KILLINGTON
BF 020-2(42)
US-4 BR #33

Boring No.: **B-101**
Page No.: **1 of 2**
Pin No.: **13b260**
Checked By: **MRG**

Boring Crew: Garrow, Nieto
Date Started: 10/19/15 Date Finished: 11/02/15
VTSPG NAD83: N 406024.24 ft E 1572888.14 ft
Station: 398+50 Offset: -11.20
Ground Elevation: 1159.2 ft

Type: WB Sampler SS
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C = Unknown

| Groundwater Observations | | |
|--------------------------|------------|----------------------|
| Date | Depth (ft) | Notes |
| 10/27/15 | 12.2 | W.T. Before Drilling |
| 10/28/15 | 12.9 | W.T. Before Drilling |
| 11/02/15 | 12.4 | W.T. Before Drilling |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|------------|------------|--|--------------------|--------------------|----------|--------|---------|
| | | | | | | | |
| | | Asphalt Pavement, 0.0 ft - 0.66 ft | | | | | |
| | | A-1-b, SaGr, brn, Moist, Rec. = 1.5 ft | 13-9-11-11 | 5.3 | 47.7 | 36.6 | 15.7 |
| | | Field Note:, NXDC, Cleaned out casing. | 6-8-9-10 | 7.7 | 42.4 | 40.5 | 17.1 |
| | | A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft | 9-8-10-17 | 10.0 | 65.0 | 25.6 | 9.4 |
| | | Field Note:, NXDC, Cleaned out casing. | 25 | | | | |
| | | A-1-a, SaGr, Lt/brn-brn, Molst, Rec. = 0.6 ft, Lab Note: Broken rock was within sample. | 18 | | | | |
| | | Field Note:, No Recovery | R@6" | | | | |
| | | Field Note:, NXDC, Cleaned out casing. | 15-10-5 | 22.7 | 10.2 | 73.6 | 16.2 |
| | | A-2-4, Sa, gry-rust, Moist, Rec. = 0.8 ft, Lab Note: Sample was rust colored. | 6 | 32.7 | 3.7 | 65.6 | 30.7 |
| | | Field Note:, NXDC, Cleaned out casing. | 3-3-3-2 | | | | |
| | | A-2-4, SiSa, gry, Moist, Rec. = 0.9 ft, Lab Note: Black silt layers were within sample. | 6 | | | | |
| | | Field Note:, No Recovery | WH-2-2-2 | | | | |
| | | A-2-4, Sa, brn-gry, Moist, Rec. = 1.2 ft, Lab Note: Wood and wood fibers were within sample. Sample was black. | 2 | 59.8 | 4.2 | 79.4 | 16.4 |
| | | Field Note:, No Recovery | 2-3-4-4 | | | | |
| | | A-2-4, SiSa, gry, Moist, Rec. = 0.5 ft | 6-4-4-5 | 28.2 | 1.4 | 73.5 | 25.1 |
| | | | 3-2-3-5 | | | | |
| | | | 5 | | | | |
| | | A-2-4, SiSa, brn, Moist, Rec. = 0.9 ft | 3-3-3-3 | 27.3 | 0.2 | 68.2 | 31.6 |
| | | | 6 | | | | |
| | | Field Note:, No Recovery | 3-3-5-4 | | | | |
| | | | 8 | | | | |
| | | A-4, SaSi, brn, Moist, Rec. = 1.3 ft | 2-2-2-2 | 34.2 | 2.9 | 31.3 | 65.8 |
| | | | 4 | | | | |
| | | A-4, SiSa, brn, Moist, Rec. = 0.9 ft | 3-3-5-3 | 32.7 | 0.1 | 53.8 | 46.1 |
| | | | 8 | | | | |
| | | Field Note:, NXDC, Cleaned out casing. | 6-6-6-7 | | | | |
| | | Field Note:, No Recovery | 12 | | | | |
| | | Field Note:, NXDC, Cleaned out casing. | 11-33-18-16 | 15.1 | 38.2 | 52.9 | 8.9 |
| | | A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft | 51 | | | | |
| | | Field Note:, NXDC, Cleaned out casing. | R@0" | | | | |
| | | Field Note:, No Recovery | | | | | |
| | | Field Note:, NXDC, Cobbles | | | | | |

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C 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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Checked By: **MRG**

Boring Crew: Garrow, Nieto
Date Started: 10/19/15 Date Finished: 11/02/15
VTSPG NAD83: N 406024.24 ft E 1572888.14 ft
Station: 398+50 Offset: -11.20
Ground Elevation: 1159.2 ft

Type: WB Sampler SS
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C = Unknown

| Groundwater Observations | | |
|--------------------------|------------|----------------------|
| Date | Depth (ft) | Notes |
| 10/27/15 | 12.2 | W.T. Before Drilling |
| 10/28/15 | 12.9 | W.T. Before Drilling |
| 11/02/15 | 12.4 | W.T. Before Drilling |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|------------|------------|---|--------------------|--------------------|----------|--------|---------|
| | | | | | | | |
| | | A-2-4, GrSiSa (Visual Description), white-Lt/gry, Moist, Rec. = 1.1 ft, Lab Note: Sample had a strong "moth ball" type odor. P.I.D. test performed showing 0.4 ppm. | 32-41-R@2.5" | | | | |
| | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| | | Visual Description:, SaGr, gry, Moist, Rec. = 2.2 ft, Lab Note: Insufficient sample for testing. | R@3.5" | 13.4 | | | |
| | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| | | A-1-b, Sa, Lt/gry, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample. | R@5" | 22.8 | 16.5 | 79.7 | 3.8 |
| | | A-1-a, SaGr, Lt/gry, Moist, Rec. = 0.5 ft | R@6" | 10.3 | 50.6 | 35.0 | 14.4 |
| | | Field Note:, Sleeved 3.0 inch casing. Sampling with AWJ rod | | | | | |
| | | Field Note:, NXDC, Cleaned out casing. | R@5" | 14.3 | 48.2 | 32.9 | 18.9 |
| | | A-1-b, SaGr, brn-gry, Moist, Rec. = 0.4 ft | | | | | |
| | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| | | Field Note:, No Recovery | R@5" | | | | |
| | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| | | Visual Description:, Gr, gry-Lt/brn, Moist, Rec. = 0.2 ft, Lab Note: Insufficient sample for testing. | R@2.5" | 2.2 | | | |
| | | Hole stopped @ 111.0 ft | | | | | |
| | | Remarks: Hole Collapsed at 9.6 feet. | | | | | |

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C 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.

BORING LOG 2 KILLINGTON BF020-2(42).GPJ VERMONT AOT.GDT 11/12/15

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STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

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BF 020-2(42)
US-4 BR #33**

Boring No.: **B-104**
Page No.: **1 of 2**
Pln No.: **13b260**
Checked By: **MRG**

Boring Crew: Gardner, GARROW, NIETO
Date Started: 11/03/15 Date Finished: 11/05/15
VTSPG NAD83: N 405959.45 ft E 1572933.11 ft
Station: 398+28 Offset: 10.40
Ground Elevation: 1160.0 ft

Type: Casing WB Sampler SS
I.D.: 4 in 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C = Unknown

| Groundwater Observations | | |
|--------------------------|------------|----------------------|
| Date | Depth (ft) | Notes |
| 11/04/15 | 12.6 | W.T. before drilling |
| 11/05/15 | 12.8 | W.T. before drilling |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/(N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|------------|------------|---|-----------------|--------------------|----------|--------|---------|
| | | | | | | | |
| | | Asphalt Pavement, 0.0 ft - 0.62 ft | | | | | |
| | | A-1-b, SaGr, brn, Moist, Rec. = 1.3 ft, Lab Note: Broken rock was within sample. | 10-7-8-9 (15) | 9.1 | 44.8 | 40.4 | 14.8 |
| | | A-1-b, SaGr, brn, Wet, Rec. = 1.2 ft | 7-6-5-5 (11) | 24.3 | 44.1 | 39.9 | 16.0 |
| 5 | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| | | A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft | 5-6-6-7 (12) | 16.4 | 59.5 | 27.8 | 12.7 |
| | | A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft | | 9.3 | 42.1 | 41.5 | 16.4 |
| | | A-1-b, GrSa, brn, Wet, Rec. = 0.7 ft | 8-15-6-5 (21) | 25.9 | 46.2 | 47.5 | 6.3 |
| | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| 10 | | A-2-4, SiGrSa, brn, MTW, Rec. = 1.1 ft | 2-2-6-6 (8) | 32.9 | 32.2 | 41.7 | 26.1 |
| | | A-1-b, GrSa, brn-gry, Moist, Rec. = 1.4 ft | 10-15-11-9 (26) | 15.8 | 35.9 | 47.3 | 16.8 |
| | | Field Note:, NXDC, Cleaned out casing., Cobbles | | | | | |
| | | A-2-4, GrSa, brn, Moist, Rec. = 1.5 ft, Lab Note: Sample contained rust colored layers. | 6-7-8-6 (15) | 17.7 | 24.9 | 56.4 | 18.7 |
| 15 | | A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Sample contained rust colored layers. | 2-WH-2-3 (W.H.) | 26.1 | 9.1 | 65.8 | 25.1 |
| | | A-2-4, Sa, brn, Moist, Rec. = 1.0 ft | 1-2-2-4 (4) | 27.8 | 2.7 | 78.9 | 18.4 |
| 20 | | A-3, Sa, brn, Moist, Rec. = 1.0 ft | 2-3-4-4 (7) | 25.4 | 9.4 | 80.7 | 9.9 |
| | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| 25 | | A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample. | 6-7-6-6 (13) | 13.6 | 58.7 | 36.3 | 5.0 |
| | | Field Note:, NXDC, Cleaned out casing., Cobbles | | | | | |
| 30 | | A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample. | 8-8-8-8 (16) | 16.3 | 55.4 | 38.6 | 6.0 |
| | | Field Note:, NXDC, Cleaned out casing., Cobbles | | | | | |
| 35 | | A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample. | 6-33-8-10 (41) | 12.8 | 60.1 | 32.2 | 7.7 |
| | | Field Note:, NXDC, Cleaned out casing., Boulder | | | | | |

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| Date | Depth (ft) | Notes |
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| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/(N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|------------|------------|--|------------------|--------------------|----------|--------|---------|
| | | | | | | | |
| | | A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample. | 10-9-6-5 (15) | 11.8 | 54.6 | 34.8 | 10.6 |
| | | Field Note:, NXDC, Cleaned out casing., Cobbles | | | | | |
| 45 | | A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft | 34-34-R@2.5" (R) | 15.3 | 27.9 | 58.9 | 13.2 |
| | | Field Note:, NXDC, Cleaned out casing., Cobbles | | | | | |
| 50 | | A-1-b, SiGrSa, brn, Moist, Rec. = 0.8 ft | 20-R@3.5 (R) | 15.6 | 27.1 | 51.3 | 21.6 |
| | | Field Note:, NXDC, Cleaned out casing., Cobbles | | | | | |
| 55 | | A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample. Field Note:, Sleeved 3.0 inch casing. Sampling with AWJ rod. | R@5" (R) | 10.2 | 55.8 | 30.4 | 13.8 |
| 60 | | A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft, Lab Note: Broken rock was within sample. | 4-R@6" (R) | 11.0 | 59.3 | 28.2 | 12.5 |
| | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| 65 | | A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft | 23-R@3.5" (R) | 12.0 | 56.6 | 28.7 | 14.7 |
| | | Field Note:, NXDC, Cleaned out casing. | | | | | |
| 70 | | Field Note:, No Recovery | R@1" (R) | | | | |
| | | Hole stopped @ 70.1 ft | | | | | |
| 75 | | Remarks: Hole Collapsed at 12.3 1.) Started mud drilling at 25.0 feet. 2.) Additional sample taken of cuttings from 61.0-65.0 feet. Sample had a moth ball like smell and had brown "oil like" spots. (Lab Note: Sample was not tested) | | | | | |

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