



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

BORING NUMBER: B-100
 SHEET 1 of 1
 DATE STARTED: 2/12/10
 DATE COMPLETED: 2/26/10

PROJECT NAME: BARRE TOWN
 SITE NAME: TH-7
 STATION: 12+87
 OFFSET: 15.50
 VTSPG NAD83: N 611672.44 ft E 1638631.28 ft

PROJECT NUMBER: BRF 6100(7)
 SITE NUMBER: BR-11
 GROUND ELEVATION: 739.86 ft
 GROUNDWATER DEPTH: NO WATER TO DEPTH
 PROJECT PIN NUMBER: 06J002

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: SMALL SKID RIG
 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)
5		A-2-4, SiGrSa, brn, Moist, Rec. = 1.6 ft	48	19.1	27.9	46.0	26.1
		A-1-b, SiSaGr, brn, Moist, Rec. = 0.6 ft	17	22.5	48.0	27.4	24.6
10		Field Note:, Granite boulder or block, Advanced casing to 11.3 feet. Cleaned out casing. No Recovery					
15		Field Note:, Possible Broken Rock, Cored for 26 minutes. No Recovery.					
15		Dark gray, Meta-Limestone, with closely spaced stained jointing. Good Rock, Hard, Fresh Weathering, NXMDC, 12.3 ft - 17.3 ft, Rec. = 4.5 ft	1	90	78	40	16 18 18 18
20		Gray to Light Gray, Meta-Limestone, with thin Quartz veins. Closely spaced stained jointing. (Moderately weathered at 20.8 feet) Good Rock, Hard, Fresh Weathering, NXMDC, 17.3 ft - 22.3 ft, Rec. = 5.0 ft	2	100	56	50	22 18 27 35
25		Hole stopped @ 22.3 ft					
30							
35							
40							
45							

LOG OF BORING BARRE TOWN BRF 6100(7).GPJ VT AOT.GDT 4/5/10



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

BORING NUMBER: B-102
 SHEET 1 of 1
 DATE STARTED: 2/04/10
 DATE COMPLETED: 2/10/10

PROJECT NAME: BARRE TOWN
 SITE NAME: TH-7
 STATION: 13+04
 OFFSET: -27.00
 VTSPG NAD83: N 611718.46 ft E 1638636.14 ft

PROJECT NUMBER: BRF 6100(7)
 SITE NUMBER: BR-11
 GROUND ELEVATION: 740.05 ft
 GROUNDWATER DEPTH: NO WATER TO DEPTH
 PROJECT PIN NUMBER: 06J002

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: SMALL SKID RIG
 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, GrSiSa, brn, Moist, Rec. = 1.1 ft	6	25.6	24.6	42.8	32.6
				Top of Bedrock @ 1.7 ft			
		Gray, Meta-Limestone, with closely spaced stained jointing. Fair Rock, Hard, Fresh Weathering, NXMDC, 1.7 ft - 2.7 ft, Rec. = 0.9 ft	1	90	40	?	39
		Gray, Meta-Limestone, with thin quartz veins and closely spaced stained jointing. Fair Rock, Hard, Fresh Weathering, NXMDC, 2.7 ft - 4.7 ft, Rec. = 1.5 ft	2	75	50	65	17
5		Gray, Meta-Limestone, with thin quartz veins and very closely spaced stained jointing. Fair Rock, Hard, Slightly weathered, NXMDC, 4.7 ft - 6.7 ft, Rec. = 1.6 ft	3	80	0	65	14
							24
		Gray, Meta-Limestone, with thin quartz veins and very closely spaced stained jointing. Fair Rock, Hard, Slightly weathered, NXMDC, 6.7 ft - 9.2 ft, Rec. = 2.2 ft	4	88	0	40	13
							19
10		Gray, Meta-Limestone, with closely spaced stained jointing. A stained joint dipping 70 degrees was at the bottom of Run. Fair Rock, Hard, Slightly weathered, NXMDC, 9.2 ft - 11.7 ft, Rec. = 2.4 ft	5	96	30	45	8
							7
		Gray, Meta-Limestone, with closely spaced stained jointing. Stained near vertical joint (continuation of 70 degree joint in Run #5). Fair Rock, Hard, Slightly weathered, NXMDC, 11.7 ft - 12.7 ft, Rec. = 0.8 ft	6	80	0	45	20
							11
		Gray, Meta-Limestone, with closely spaced stained jointing. Stained near vertical joint (continuation of jointing in Runs #5 & #6). Fair Rock, Hard, Fresh Weathering, NXMDC, 12.7 ft - 16.7 ft, Rec. = 3.9 ft	7	98	55	40	13
15							19
							16
							25
		Hole stopped @ 16.7 ft					
		GEOLOGIST'S NOTES: 1. The Dip on Run #1 could not be determined.					
20							
25							

LOG OF BORING BARRE TOWN BRF 6100(7).GPJ VT AOT.GDI 4/5/10



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

BORING NUMBER: B-103
 SHEET 1 of 1
 DATE STARTED: 12/15/09
 DATE COMPLETED: 1/05/10

PROJECT NAME: BARRE TOWN
 SITE NAME: TH-7
 STATION: 14+14
 OFFSET: -31.00
 VTSPG NAD83: N 611727.69 ft E 1638756.09 ft

PROJECT NUMBER: BRF 6100(7)
 SITE NUMBER: BR-11
 GROUND ELEVATION: 732.45 ft
 GROUNDWATER DEPTH: NO WATER TO DEPTH
 PROJECT PIN NUMBER: 06J002

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: SEE NOTES
 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)
		Field Note: 0.3'-1.5', Granite Block					
5		Cleaned out casing, 3.8 ft - 5.0 ft					
		A-4, SaSi, brn, Moist, Rec. = 1.0 ft	4	34.0	7.3	25.5	67.2
10							
		A-2-4, SiSa, brn, Moist, Rec. = 0.7 ft	7	13.1	0.3	78.5	21.2
15		Gray, Meta-Limestone, Closely spaced stained jointing. Fair Rock, Hard, Fresh Weathering, NXMDC, 14.1 ft - 15.6 ft, Rec. = 1.3 ft	1	87	27	?	20
		Gray, Meta-Limestone, Closely spaced stained jointing. Fair Rock, Hard, Fresh Weathering, NXMDC, 15.6 ft - 19.1 ft, Rec. = 3.5 ft	2	100	0	60	20
20		Gray, Meta-Limestone, Closely spaced stained jointing. Fair Rock, Hard, Fresh Weathering, NXMDC, 19.1 ft - 24.1 ft, Rec. = 5.0 ft	3	100	52	65	15
							14
							15
							15
25		Hole stopped @ 24.1 ft					7
							8
							8
							7
							8
30		DRILLER'S NOTES: 1. Before breaking down, the small skid rig was used until the drillers hit bedrock. 2. The large track rig #10 was used for coring rock.					
		GEOLOGIST'S NOTES: 1. The Dip on Run #1 could not be determined.					
35							
40							
45							

LOG OF BORING BARRE TOWN BRF 6100(7).GPJ VT AOT.GDT 4/5/10



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

BORING NUMBER: B-105
 SHEET 1 of 1
 DATE STARTED: 1/07/10
 DATE COMPLETED: 1/21/10

PROJECT NAME: BARRE TOWN
 SITE NAME: TH-7
 STATION: 14+27
 OFFSET: 16.50
 VTSPG NAD83: N 611678.60 ft E 1638762.30 ft

PROJECT NUMBER: BRF 6100(7)
 SITE NUMBER: BR-11
 GROUND ELEVATION: 730.44 ft
 GROUNDWATER DEPTH: 25.2 ft 1/21/10
 PROJECT PIN NUMBER: 06J002

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 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)
5		A-1-b, SaGr, brn, Wet, Rec. = 0.9 ft	8	23.2	46.3	39.8	13.9
10		Field Note: No Recovery, NXDC, Cleaned out casing, Granite pieces in end of sampler.	9				
15		A-4, SaSi, brn, Wet, Rec. = 1.1 ft	1	27.1	14.3	30.7	55.0
20		A-4, SiSa, brn, Wet, Rec. = 0.9 ft, Small amounts of Wood were within sample.	1	35.0	16.4	46.2	37.4
25		Field Note: Wood pieces, Cored ahead					
25		A-2-4, SiSa, gry, Wet, Rec. = 0.8 ft, Lots of Wood was within sample and was removed before gradation.	7	48.3	5.5	68.3	26.2
30		A-4, SiSa, gry, Wet, Rec. = 1.6 ft, Small amounts of Wood were within sample.	3	42.9	0.0	61.6	38.4
35		A-4, SiSa, gry, Wet, Rec. = 0.4 ft, Small amounts of Wood were within sample.	4	46.4	7.8	53.3	38.9
35		Field Note: Cobbles & Broken rock					
40		Gray, Meta-Limestone, with closely spaced stained jointing. Fair Rock, Hard, Slightly weathered, NXMDC, 37.0 ft - 39.0 ft, Rec. = 2.0 ft	1	100	0	70	10
40		Gray, Meta-Limestone, with closely spaced stained jointing. Fair Rock, Hard, Slightly weathered, NXMDC, 39.0 ft - 44.0 ft, Rec. = 4.5 ft	2	90	40	70	11
45		Gray, Meta-Limestone, with closely spaced stained jointing. Fair Rock, Hard, Fresh Weathering, NXMDC, 44.0 ft - 49.0 ft, Rec. = 5.0 ft	3	100	72	70	10
45							12
45							10
45							9
Hole stopped @ 49.0 ft							

LOG OF BORING BARRE TOWN BRF 6100(7).GPJ VT AOT.GDT 4/5/10

Top of Bedrock @ 37.0 ft



Boring Crew: GEOSEARCH - FITCHBURG, MA, SMC
Date Started: 5/20/11 Date Finished: 5/20/11
VTSPG NAD83: N 611717.98 ft E 1638755.16 ft
Station: 14+26 Offset: -20.00
Ground Elevation: 732.0 ft

Casing: WB Sampler: SS
Type: WB I.D.: 1.38 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/N
Rig: CME 75 Truck CE =

Groundwater Observations

Date	Depth (ft)	Notes
05/20/11		None observed

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (lip deg.)	Core Rec. (ROD %)	Drill Rate (minutes/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		Grass mat/topsoil., Rec. = 0.8 ft, 0.0 ft - 0.2 ft A-1-b, SiSa, gry-brn, Moist, Fill Material				2-3-3-4 (6)	7.5	35.4	47.5	17.1
5.0		SILT, little fine sand, trace fine gravel, gray-brown, loose, moist, Rec. = 0.6 ft, 3.0 ft - 5.0 ft				7-3-2-2 (5)				
7.5		A-4, SiSa, gry-brn, Moist, Rec. = 0.6 ft				1-2-1-2 (3)	27.1	4.3	50.0	45.7
15.0		A-2-4, SiSa, brn, Moist, Rec. = 0.6 ft				8-7-7-5 (14)	17.2		77.8	22.2
18.0		Fine SAND, little silt, brown, medium dense, moist., Rec. = 0.3 ft, 18.0 ft - 20.0 ft				7-8-8-8 (16)				

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy, CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions noted. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



Boring Crew: GEOSEARCH - FITCHBURG, MA, SMC
Date Started: 5/20/11 Date Finished: 5/20/11
VTSPG NAD83: N 611717.98 ft E 1638755.16 ft
Station: 14+26 Offset: -20.00
Ground Elevation: 732.0 ft

Casing: WB Sampler: SS
Type: WB I.D.: 1.38 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/N
Rig: CME 75 Truck CE =

Groundwater Observations

Date	Depth (ft)	Notes
05/20/11		None observed

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (lip deg.)	Core Rec. (ROD %)	Drill Rate (minutes/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
22.5		A-2-4, SiSa, brn, Wet				18-60/3" (R)	16.4	2.6	74.8	22.6
25.0		Note: Set casing and began core at 24.5 feet. 24.5 ft - 29.5 ft, Dark gray & white, Meta-Limestone, aphanitic. Hard, Moderately weathered, NXMDC, Joints, low angle to moderately dipping, disintegrated to clayey silt 25 to 26 feet, discolored, close spacing 26 to 29.5 feet, rough, stepped, tight to open.	1	88 (38)	1.5					
27.5					4.5					
30.0		29.5 ft - 34.5 ft, Gray-white, Meta-Limestone, aphanitic. Very hard, NXMDC, Primary joint set low, angle to moderately dipping, close to moderate spacing, rough, stepped, discolored to fresh, tight. Secondary joint set, high angle, wide spacing (36") rough to smooth, planar to undulating, discolored to fresh, tight.	2	100 (93)	4					
32.5					6					
35.0		34.5 ft - 35.5 ft, Meta-Limestone, aphanitic. Very hard, NXMDC	3	100 (100)	6					
37.5		35.5 ft - 39.5 ft, Meta-Limestone, aphanitic. Very hard, NXMDC, Joint, moderately dipping to high angle, very close, intersecting from 36.3 to 37.5 feet, moderately dipping, wide spacing, rough, planar, discolored to fresh.	4	98 (67)	8.5					
					7.5					
					8.5					
		Hole stopped @ 39.5 ft								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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Boring Crew: GEOSEARCH - FITCHBURG, MA, SMC
Date Started: 5/18/11 Date Finished: 5/19/11
VTSPG NAD83: N 611710.35 ft E 1638751.79 ft
Station: 14+24 Offset: -8.00
Ground Elevation: 731.5 ft

Casing Sampler
Type: WB SS
I.D.: 1.38 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/MWJ
Rig: CME 75 Truck CE =

Groundwater Observations		
Date	Depth (ft)	Notes
05/18/11		None observed
05/18/11	27.65	10 hours later

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt, 0.0 ft - 0.85 ft							
2.5		A-1-b, SiSaGr, Dark brown, Moist., Rec. = 1.5 ft, 1.0 ft - 3.0 ft, Fill Material			15-16-14-10 (50)	4.1	53.2	31.6	15.2
		Visual Classification, Fine SAND and silt, trace coarse gravel, moist, loose, brown., Rec. = 1.5 ft			5-3-5-4 (8)				
5.0		A-4, SaSi, brown, Moist., Rec. = 1.3 ft, 5.0 ft - 7.0 ft			4-3-3-4 (6)	17.8	8.2	21.9	69.9
7.5		Visual Classification, Similar to S-3., Rec. = 1.3 ft			2-2-5-6 (7)				
10.0		No recovery., 9.0 ft - 11.0 ft			3-3-2-2 (5)				
12.5		A-4, SaSi, brown, Moist., Rec. = 1.5 ft, 11.0 ft - 13.0 ft			2-2-3-3 (5)	20.9	3.6	41.6	54.8
15.0		Visual Classification, Similar to S-6., Rec. = 1.8 ft			2-2-2-2 (4)				
17.5		A-4, SaSi, brown, Moist., Rec. = 1.3 ft, 15.0 ft - 17.0 ft			1-1-1-1 (2)	32.0	4.7	47.1	48.2
		Visual Classification, Fine SAND and silt, loose brown, moist., Rec. = 1.2 ft			3-3-2-2 (5)				
		Visual Classification, Medium to fine SAND, some silt, trace coarse to fine gravel, loose, brown, moist., Rec. = 1.5 ft			2-2-3-3 (5)				

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



Boring Crew: GEOSEARCH - FITCHBURG, MA, SMC
Date Started: 5/18/11 Date Finished: 5/19/11
VTSPG NAD83: N 611710.35 ft E 1638751.79 ft
Station: 14+24 Offset: -8.00
Ground Elevation: 731.5 ft

Casing Sampler
Type: WB SS
I.D.: 1.38 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/MWJ
Rig: CME 75 Truck CE =

Groundwater Observations		
Date	Depth (ft)	Notes
05/18/11		None observed
05/18/11	27.65	10 hours later

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
22.5		A-2-4, SaSi, tan, Moist., Rec. = 1.5 ft, 21.0 ft - 23.0 ft			2-3-2-2 (5)	8.1	3.2	76.5	20.3
		Visual Classification, Fine sand, little silt, loose tan, moist., Rec. = 1.5 ft			2-2-2-2 (4)				
25.0		Visual Classification, Fine SAND, little silt, loose tan/orange, moist, mottling/iron staining observed, weathered rock at tip of sampler., Rec. = 1.3 ft			5-4-6-6 (10)				
27.5		Note: Drill action suggests cobbles/bedrock at 27 feet. Auger refusal at 28 feet. Advanced NX roller bit to 28.5 feet to seat casing.							
30.0		28.5 ft - 33.5 ft, Gray, Meta-Limestone, NXMDC, Joint sets high angle, close, rough, undulating, fresh, moderately open.	1	100 (88)					
35.0		33.5 ft - 38.5 ft, Gray, Meta-Limestone, NXMDC, Joint sets high angle, close, rough, undulating, fresh, moderately open.	2	100 (69)					
		Hole stopped @ 38.5 ft							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG: 2 BARRE TOWN BRF 6100(7).JET.DWG.DWG VERMONT AOT.GBT 7/15/11

BORING LOG: 2 BARRE TOWN BRF 6100(7).JET.DWG.DWG VERMONT AOT.GBT 7/15/11



BORING LOG

BARRE TOWN
BRF 6100(7)

Boring No.: B-203
Page No.: 1 of 2
Pin No.: 06J002
Checked By: LJD

Boring Crew: GEOSEARCH - FITCHBURG, MA, SMC
Date Started: 6/08/11 Date Finished: 6/08/11
VTSPG NAD83: N 611692.35 ft E 1638759.06 ft
Station: 14+32 Offset: -5.00
Ground Elevation: 731.0 ft

Casing Type: WB
Sampler Type: SS
I.D.: 1.38 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/MWJ
Rig: CME 55 CE =

Groundwater Observations		
Date	Depth (ft)	Notes
06/08/11	30.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.5		Asphalt, 0.0 ft - 0.5 ft							
0.5 - 2.5		A-1-a, SiGrSa, Dark brown, Moist., Rec. = 1.5 ft, 0.5 ft - 2.5 ft, Fill Material			18-9-5-3 (14)	5.0	43.0	42.6	14.4
2.5 - 5.0									
5.0 - 7.5		A-4, SoSi, brown, Moist., Rec. = 1.5 ft, 5.0 ft - 7.0 ft			3-2-1-2 (3)	22.8	0.7	12.0	87.3
7.5 - 10.0									
10.0 - 12.5		A-4, SoSi, brown, Moist., Rec. = 1.3 ft, 10.0 ft - 12.0 ft			2-1-2-2 (3)	20.5	7.2	23.9	68.9
12.5 - 15.0									
15.0 - 17.5		Similar to S-3., Rec. = 1.3 ft, 15.0 ft - 17.0 ft			2-1-1-3 (2)	30.5	2.1	43.0	54.9
17.5 - 20.0									
20.0 - 22.5		A-4, SiSa., 20.0 ft - 22.0 ft			2-3-2-3 (5)	25.8	6.6	57.3	36.1
22.5 - 23.0		A-4, SiSaGr, brown, Moist., 22.0 ft, Drill action suggest possible wood fragments 22 to 23 feet.							
23.0 - 24.0		Visual Classification, Similar to S-6, with piece of wood in sampler., Rec. = 1.0 ft			22-20-12-12 (32)				

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



BORING LOG

BARRE TOWN
BRF 6100(7)

Boring No.: B-203
Page No.: 2 of 2
Pin No.: 06J002
Checked By: LJD

Boring Crew: GEOSEARCH - FITCHBURG, MA, SMC
Date Started: 6/08/11 Date Finished: 6/08/11
VTSPG NAD83: N 611692.35 ft E 1638759.06 ft
Station: 14+32 Offset: -5.00
Ground Elevation: 731.0 ft

Casing Type: WB
Sampler Type: SS
I.D.: 1.38 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/MWJ
Rig: CME 55 CE =

Groundwater Observations		
Date	Depth (ft)	Notes
06/08/11	30.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 27.0		Wood fragments., Rec. = 0.2 ft, 25.0 ft - 27.0 ft			5-4-5-3 (9)				
27.0 - 30.0									
30.0 - 32.0		A3, SiSa, brown, Moist., Rec. = 1.2 ft, 30.0 ft - 32.0 ft			4-3-4-2 (7)	27.5	0.1	90.0	9.9
32.0 - 35.0									
35.0 - 37.5		Visual Classification, Fine SAND, some silt, trace fine gravel, loose, medium dense, brown, wet., Rec. = 1.0 ft			6-10-11-25/0 (21)				
37.5 - 40.0		Note: Possible bedrock at 37.5 feet. Began rock core at 38.0 feet.							
40.0 - 42.5		38.0 ft - 42.3 ft, Gray, Meta-Limestone, Hard, aphanitic. NXMDC, Primary joint sets horizontal to low angle, close to moderate spacing, rough, stepped, discolored to fresh. Secondary joints, high angle, close to moderately close, rough, planar to undulating, fresh to discolored, tight.	1	92 (29)					
42.5 - 46.8		42.3 ft - 46.8 ft, NXMDC, Similar to C-1.	2	98 (44)					
46.8 - 47.5		Hole stopped @ 46.8 ft							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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