



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

BORING NUMBER: B-101
SHEET 1 of 2
DATE STARTED: 10/25/07
DATE COMPLETED: 10/31/07

PROJECT NAME: STOWE
SITE NAME: VT-100
STATION: 14+57
OFFSET: -7.00
VTSPG: N 708217.19 ft E 1587375.84 ft

PROJECT NUMBER: BRF 029-1(17)
SITE NUMBER: BR-208
GROUND ELEVATION: 680.61 ft
GROUNDWATER DEPTH: 19.1 ft 10/31/07
PROJECT PIN NUMBER: 85E037

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: WERNER

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 (%)
		Asphalt Pavement, 0.0 ft - 1.0 ft					
		Concrete, BXDC, Cleaned out casing, 1.0 ft - 2.8 ft					
		A-2-4, Sa, brn, Moist, Rec. = 0.7 ft	3	11.4	17.9	68.2	13.9
5		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft	12	9.0	42.5	43.8	13.7
		A-1-b, SiSaGr, brn, Moist, Rec. = 1.0 ft, BXDC, Cleaned out casing.	21	10.4	47.7	32.3	20.0
10		A-4, GrSi, gry, Moist, Rec. = 0.5 ft	20	19.7	25.7	17.1	57.2
		Field Note, No Recovery, Filled casing with water before pulling up split barrel.	16				
		A-2-4, SaSiGr, brn-gry, Wet, Rec. = 0.9 ft, Filled casing with water again and lost water at 14.7 ft	41	15.0	37.3	29.2	33.5
15		Field Note, No Recovery	12				
		A-1-b, SaGr, gry, Wet, Rec. = 0.5 ft	70	7.9	52.0	28.6	19.4
		BXMDC, Boulder, 18.3 ft - 19.0 ft, Lost water at 19.0 ft, Advanced casing.	R				
		Seam, 19.0 ft - 19.3 ft					
20		BXMDC, Boulder, 19.3 ft - 20.0 ft, Lost water again at 20.0 ft	51	14.7	31.7	51.5	16.8
		A-1-b, GrSa, gry, Wet, Rec. = 0.95 ft					
		BXMDC, Concrete, Rec. = 2.9 ft, 21.5 ft - 24.5 ft					
25		Void, 24.5 ft - 26.0 ft					

LOG OF BORING STOWE BRF029-1(17) GPJ VT AOT.GDT 1/14/08



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

BORING NUMBER: B-101
SHEET 2 of 2
DATE STARTED: 10/25/07
DATE COMPLETED: 10/31/07

PROJECT NAME: STOWE
SITE NAME: VT-100
STATION: 14+57
OFFSET: -7.00
VTSPG: N 708217.19 ft E 1587375.84 ft

PROJECT NUMBER: BRF 029-1(17)
SITE NUMBER: BR-208
GROUND ELEVATION: 680.61 ft
GROUNDWATER DEPTH: 19.1 ft 10/31/07
PROJECT PIN NUMBER: 85E037

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: WERNER

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-1-b, SiSaGr, brn-gry, Wet, Rec. = 0.8 ft	24	11.7	46.6	31.4	22.0
		A-4, SaSi, gry, Wet, Rec. = 1.2 ft	29	15.6	10.9	42.2	46.9
30		A-2-4, GrSiSa, gry, Wet, Rec. = 1.7 ft	30	14.0	23.3	44.3	32.4
		Field Note, No Recovery	R				
		A-1-b, SiSaGr, gry, Wet, Rec. = 1.4 ft	R	10.5	39.0	39.0	22.0
35		A-4, Si, gry, Wet, Rec. = 0.5 ft	R	17.4	11.2	17.5	71.3
		Black, Thinly laminated Phyllite, with numerous pyrite porphyroblasts, Competent, Dip ranges from 50 to 85, Medium soft, Unweathered, BXMDC, 36.5 ft - 41.5 ft, Rec. = 4.85 ft	1	97	86		8
							10
							10
							10
							8
		Black, Thinly laminated Phyllite, with numerous pyrite porphyroblasts, Dip ranges from 50 to 85, Drilling break from 42.0'-42.5', Medium soft, Unweathered, BXMDC, 41.5 ft - 42.0 ft, Rec. = 2.85 ft	2	57	54		6
		Black, Thinly laminated Phyllite, with numerous pyrite porphyroblasts, Bottom portion of core may have been lost in hole, Medium soft, Unweathered, 42.5 ft - 46.5 ft					9
							8
							10
							10
50		Hole stopped @ 46.5 ft					

LOG OF BORING STOWE BRF029-1(17) GPJ VT AOT.GDT 1/14/08



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

BORING NUMBER: B-102
SHEET 1 of 2
DATE STARTED: 11/07/07
DATE COMPLETED: 11/09/07

PROJECT NAME: STOWE
SITE NAME: VT-100
STATION: 15+11
OFFSET: 7.50
VTSPG: N 708252.33 ft E 1587419.31 ft

PROJECT NUMBER: BRF 029-1(17)
SITE NUMBER: BR-208
GROUND ELEVATION: 684.8 ft
GROUNDWATER DEPTH: 17.3 ft 11/08/07
PROJECT PIN NUMBER: 85E037

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: WERNER

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 (%)
		Asphalt Pavement, 0.0 ft - 1.0 ft					
		BXDC, Concrete, Cored ahead, Lost water at 3.0ft, 1.0 ft - 3.0 ft					
		Void, Casing dropped fast., 3.0 ft - 4.5 ft					
5		BXDC, Cobbles, Cleaned out casing., 5.0 ft - 6.0 ft					
		A-1-b, GrSa, brn, Wet, Rec. = 0.5 ft		11.8	38.9	44.0	17.1
10		A-2-4, Sa, brn, Wet, Rec. = 0.6 ft	6	16.6	16.2	64.1	19.7
15		A-2-4, SiSa, brn, Wet, Rec. = 0.9 ft	5	20.4	19.5	60.2	20.3
20		A-1-a, SaGr, brn, Wet, Rec. = 0.7 ft	15	16.0	58.4	28.3	13.3
25		A-4, Si, gry, Wet, Rec. = 1.3 ft	6	36.0	6.9	5.8	87.3
30		A-3, Sa, brn, Wet, Rec. = 1.1 ft	7	22.2	3.7	90.1	6.2

LOG OF BORING STOWE BRF029-1(17).GPJ VT.AOT.GDT 1/14/08



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

BORING NUMBER: B-102
SHEET 2 of 2
DATE STARTED: 11/07/07
DATE COMPLETED: 11/09/07

PROJECT NAME: STOWE
SITE NAME: VT-100
STATION: 15+11
OFFSET: 7.50
VTSPG: N 708252.33 ft E 1587419.31 ft

PROJECT NUMBER: BRF 029-1(17)
SITE NUMBER: BR-208
GROUND ELEVATION: 684.8 ft
GROUNDWATER DEPTH: 17.3 ft 11/08/07
PROJECT PIN NUMBER: 85E037

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: WERNER

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)
35		A-2-4, SiSaGr, gry, Wet, Rec. = 1.3 ft	R	11.6	43.2	29.2	27.6
40		Visual Class., Material was mostly broken rock., gry, Moist, Rec. = 0.6 ft Field Class., BXDC, Cobbles, Advanced casing.	R	9.8			
45		Visual Class., Broken rock, gry, Wet, Rec. = 0.4 ft Field Class., No sample, Cobbles & Boulders, Cored ahead.	R	8.1			
50							
							Top of Bedrock @ 53.0 ft
55		Black, Thinly laminated Phyllite, with numerous pyrite porphyroblasts, Poor RQD may be due to mechanical breakage during drilling, Medium soft, Unweathered, BXMDC, 53.0 ft - 58.0 ft, Rec. = 4.0 ft	1	80	26	55	12 10 13 16 14
60		Black, Thinly laminated Phyllite, with numerous pyrite porphyroblasts, Poor RQD may be due to mechanical breakage during drilling, Medium soft, Unweathered, BXMDC, 58.0 ft - 61.0 ft, Rec. = 2.0 ft	2	67	0	55	15 17 14
		Black, Thinly laminated Phyllite, with numerous pyrite porphyroblasts, Poor RQD may be due to mechanical breakage during drilling, Medium soft, Unweathered, BXMDC, 61.0 ft - 64.0 ft, Rec. = 3.0 ft	3	100	33	55	14 16 13
65		Hole stopped @ 64.0 ft					

LOG OF BORING STOWE BRF029-1(17).GPJ VT.AOT.GDT 1/14/08



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

BORING NUMBER: B-103
 SHEET 1 of 1
 DATE STARTED: 3/13/08
 DATE COMPLETED: 3/13/08

PROJECT NAME: STOWE
 SITE NAME: VT-100
 STATION: 14+47.5
 OFFSET: 8.00
 VTSPG: N 708200.33 ft E 1587381.43 ft

PROJECT NUMBER: BRF 029-1(17)
 SITE NUMBER: BR-208
 GROUND ELEVATION: 681.6 ft
 GROUNDWATER DEPTH: No water found, Hole caved in.
 PROJECT PIN NUMBER: 85E037

BORING CREW
 CREW CHIEF: GARROW
 DRILLER: GARROW
 LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG
 BORING TYPE: WASH BORE
 SAMPLE TYPE:
 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)
0.0 - 0.6		Asphalt pavement, 0.0 ft - 0.6 ft, Advanced casing and cored ahead.					
1.4 - 2.0		Concrete, 1.4 ft - 2.0 ft					
5							
10							
15							
20							
25							
30							
33.6 - 34.4		Field Note, Advanced casing to 34.4 ft, Cleaned out casing, BXDC, 33.6 ft - 34.4 ft.					
34.4		Top of Bedrock @ 34.4 ft					
35 - 39.4		Dark gray, Pyretic Phyllite, with thin calcite stringers. Breakage along foliation/cleavage during drilling may mask true RQD., Moderately soft, Unweathered, BXMDC, 34.4 ft - 39.4 ft, Rec. = 1.7 ft	1	34	0	80	2 2 3 6 6
39.4 - 44.4		Dark gray, Pyretic Phyllite, with thin calcite stringers. Breakage along foliation/cleavage during drilling may mask true RQD., Moderately soft, Unweathered, BXMDC, 39.4 ft - 44.4 ft, Rec. = 2.9 ft	2	58	17	80	5 6 11 14 12
44.4		Hole stopped @ 44.4 ft					

LOG OF BORING STOWE BRF029-1(17).GPJ VT.AOT.GOT 4/11/08

