



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

BORING NUMBER: B-13
SHEET 1 of 2
DATE STARTED: 12/01/09
DATE COMPLETED: 12/09/09

PROJECT NAME: BRATTLEBORO PROJECT NUMBER: IM 091-1(50)
SITE NAME: I-91 SITE NUMBER: BR 6 N&S
STATION: 464+70 GROUND ELEVATION: 405.11 ft
OFFSET: -57.82 GROUNDWATER DEPTH: SEE NOTES
VTSPG NAD83: N 127276.56 ft E 1619228.67 ft PROJECT PIN NUMBER: 02A014

BORING CREW BORING RIG: LAG TRACK RIG #09 w/AUTO HAMMER
CREW CHIEF: GARROW BORING TYPE: WASH BORE
DRILLER: GARROW SAMPLE TYPE: SPLIT BARREL
LOGGER: MAHMUTOVIC CHECKED BY: TDE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft	5	11.8	42.3	43.2	14.5
		A-1-a, SaGr, brn, Wet, Rec. = 0.6 ft	5	14.0	64.1	30.8	5.1
10		A-1-b, GrSa, brn, MTW, Rec. = 1.2 ft	16	15.1	33.0	50.9	16.1
		A-1-a, SaGr, gry, MTW, Rec. = 1.5 ft, Sample was mostly broken rock.	63	9.1	69.6	21.2	9.2
		A-2-4, SiGrSa, brn, MTW, Rec. = 0.5 ft		12.1	29.7	46.3	24.0
20		A-1-a, Gr, gry-white, MTW, Rec. = 0.5 ft, Sample was broken rock (Granite).	R	6.5	82.0	13.6	4.4
		A-2-4, SiSa, brn, Wet, Rec. = 1.4 ft	54	15.4	11.0	66.7	22.3
30		A-2-4, SiGrSa, gry, Wet, Rec. = 1.1 ft	44	12.9	30.0	49.6	20.4
		A-2-4, SiGrSa, gry, Wet, Rec. = 1.6 ft	36	10.8	31.8	43.0	25.2
40		A-2-4, GrSiSa, gry, Moist, Rec. = 1.2 ft, Small pieces of wood were within sample.	35	9.8	20.7	52.3	27.0
		A-2-4, SiSa, gry, Moist, Rec. = 1.6 ft	36	10.9	16.7	58.0	25.3
50		A-2-4, GrSiSa, gry, Wet, Rec. = 1.1 ft	15	11.6	22.7	53.0	24.3
		A-1-b, Sa, gry, Wet, Rec. = 0.8 ft	22	24.8	17.7	78.3	4.0
60		A-1-b, SiSaGr, gry, Wet, Rec. = 0.6 ft	22	10.2	45.1	29.5	25.4
		Field Note: No Recovery	23				
70		A-1-b, GrSa, gry, Wet, Rec. = 0.7 ft	R	11.8	41.4	42.2	16.4
		Field Note: Pulled casing at 70.0 ft and changed bit.					

LOG OF BORING BRATTLEBORO IM 091-1(50).GPI VT AOT.GBT 1/21/10



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DRILLER: GARROW SAMPLE TYPE: SPLIT BARREL
LOGGER: MAHMUTOVIC CHECKED BY: TDE

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-a, SaGr, gry, MTW, Rec. = 1.0 ft	64	10.0	58.9	32.6	8.5
80		A-1-b, SaGr, gry, MTW, Rec. = 0.9 ft	28	9.8	49.9	32.0	18.1
		A-4, GrSaSi, gry, MTW, Rec. = 1.6 ft	97	12.4	26.0	31.6	42.4
90		A-4, SaSi, gry, MTW, Rec. = 1.5 ft, Lab Note: (HP)	22	9.6	9.7	38.9	51.4
		A-2-4, GrSiSa, gry, MTW, Rec. = 1.1 ft, Lab Note: (HP)	R	11.9	21.3	49.9	28.8
100		A-4, SaSi, gry, Moist, Rec. = 2.0 ft, Lab Note: (HP)	30	9.4	17.6	38.0	44.4
		A-4, GrSaSi, gry, Moist, Rec. = 1.1 ft, Lab Note: (HP)	49	8.6	22.7	35.9	41.4
110		A-3, Sa, gry, MTW, Rec. = 1.9 ft	81	19.2	0.5	95.0	4.5
120		A-1-b, SiGrSa, gry, MTW, Rec. = 0.5 ft	R	12.3	27.8	49.7	22.5
		Top of Bedrock @ 124.5 ft					
		Gray, Meta-Limestone, Not Competent, Hard, Unweathered, NXMDC, 124.5 ft - 125.5 ft, Rec. = 2.0 ft	1	50	0	60	10
		Brown to black, Phyllitic Schist, Not Competent, Moderately to severely weathered, 125.5 ft - 128.5 ft	2	100	32	60	10
130		Gray, Meta-Limestone, Competent, Hard, Unweathered, NXMDC, 128.5 ft - 131.6 ft, Rec. = 5.0 ft					12
		Phyllitic Schist and Massive Quartz, Not Competent, Severely weathered, 131.6 ft - 133.0 ft					12
		Gray, Meta-Limestone, Competent, Hard, Unweathered, 133.0 ft - 133.5 ft					11
		Hole stopped @ 133.5 ft					10
140		DRILLER'S NOTES: 1. Pulled casing at 70.0 ft, changed bit and readvanced casing.					
		GROUND WATER DEPTHS: a. 50.9 ft on 12/02/09 (drilled to 67.0' on 12/01/09) b. 66.0 ft on 12/03/09 (drilled to 80.0' on 12/02/09) c. 67.0 ft on 12/07/09					

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