



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

BORING NUMBER: B-101
SHEET 1 of 1
DATE STARTED: 6/17/09
DATE COMPLETED: 6/19/09

PROJECT NAME: BRAINTREE
SITE NAME: TH-23
STATION: 11+86.6
OFFSET: 3.50
VTSPG NAD83: N 540483.97 ft E 1600666.96 ft

PROJECT NUMBER: BRO 1444(36)
SITE NUMBER: BR-12
GROUND ELEVATION: 705.06 ft
GROUNDWATER DEPTH: NONE TAKEN
PROJECT PIN NUMBER: 95J292

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

BORING RIG: LAG TRACK RIG #09 w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: NSM

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)		
10		A-1-a, SaGr, brn, Moist, Rec. = 1.4 ft	14	4.4	52.6	35.2	12.2		
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.6 ft	17	7.0	36.7	43.2	20.1		
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.3 ft	10	8.6	33.7	43.6	22.7		
		A-1-a, SaGr, brn-gry, Moist, Rec. = 1.3 ft	35	8.9	60.4	24.2	15.4		
		A-1-a, SaGr, gry, Wet, Rec. = 1.1 ft	11	12.7	51.1	34.2	14.7		
		A-1-a, SaGr, gry, Wet, Rec. = 1.3 ft	11	11.3	54.8	33.1	12.1		
		A-4, Si, gry, Wet, Rec. = 1.0 ft	5	29.6	8.5	6.6	84.9		
		A-4, Si, gry, Wet	2	30.3	0.0	2.7	97.3		
		Visual Classification, Si, gry, Wet, Rec. = 1.3 ft	2	33.8					
		Visual Classification, Si, gry, Wet, Rec. = 1.4 ft	3	34.0					
20									
		A-4, Si, gry, Wet, Rec. = 2.0 ft	3	35.4	0.0	0.3	99.7		
		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	2	36.0					
30		A-4, Si, gry, Wet, Rec. = 2.0 ft	4	36.9	0.0	1.1	98.9		
		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	WH	37.3					
40		A-4, Si, gry, Wet, Rec. = 0.9 ft	WH	40.8	0.0	0.6	99.4	35	2
		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	1	38.2					
		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	1	41.3					
50									
		A-4, Si, gry, Wet, Rec. = 1.1 ft	WH	40.1	0.0	0.8	99.2		
		A-1-a, SaGr, gry, Wet, Rec. = 0.7 ft, Broken Rock was within sample.	35	11.8	61.8	26.0	12.2		
60									
70		Dark gray, Phyllite, with occasional pyrite rich zones. Competent. Low RQD possibly due to mechanical breakage during drilling, Moderately soft, Unweathered, BXMDC, 67.0 ft - 72.0 ft, Rec. = 4.6 ft	1	92	18	50	8 8 11		
		Dark gray, Phyllite, with occasional pyrite rich zones. Competent. Low RQD possibly due to mechanical breakage during drilling, Moderately soft, Unweathered, BXMDC, 72.0 ft - 77.0 ft, Rec. = 4.95 ft	2	99	60	50	10 10		
80									
		Hole stopped @ 77.0 ft					10 10 11 11		

LOG OF BORING BRAINTREE BRO 1444(36).GPJ VT AOT.GDT 12/4/09

Top of Bedrock @ 67.0 ft



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

BORING NUMBER: B-102
SHEET 1 of 1
DATE STARTED: 6/23/09
DATE COMPLETED: 6/25/09

PROJECT NAME: BRAINTREE
SITE NAME: TH-23
STATION: 11+31.6
OFFSET: -7.50
VTSPG NAD83: N 540475.96 ft E 1600611.57 ft

PROJECT NUMBER: BRO 1444(36)
SITE NUMBER: BR-12
GROUND ELEVATION: 706.32 ft
GROUNDWATER DEPTH: 9.5 ft 6/25/09
PROJECT PIN NUMBER: 95J292

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

BORING RIG: LAG TRACK RIG #09 w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: NSM

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, brn, Moist, Rec. = 1.4 ft	19	3.2	54.3	32.4	13.3
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.6 ft	20	7.9	33.3	40.7	26.0
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.4 ft	10	9.1	30.9	44.6	24.5
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.2 ft	4	9.2	35.3	43.9	20.8
		A-1-b, SaGr, brn, Wet, Rec. = 0.9 ft	3	14.6	42.5	39.9	17.6
10		A-4, SaSi, brn, Wet, Rec. = 1.3 ft	7	24.1	18.5	30.6	50.9
		Field Note: No Recovery, Appears to be silt	3				
		Visual Classification, Si, gry, Wet, Rec. = 0.8 ft	3	31.7			
		A-4, Si, gry, Wet, Rec. = 1.5 ft	3	34.1	0.0	1.1	98.9
		A-4, Si, gry, Wet, Rec. = 1.6 ft	3	35.1	0.0	0.5	99.5
20		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	3	35.8			
		A-2-4, SiSaGr, gry, Wet, Rec. = 1.4 ft	11	11.2	38.8	34.0	27.2
30		Field Class: Cobbles, BXDC, Cleaned out casing					
		A-1-b, SaGr, gry, Wet, Rec. = 0.8 ft	68	9.4	55.1	29.2	15.7
		Dark gray, Meta-Limestone, grading to phyllite. Competent. Low RQD possibly due to mechanical breakage during drilling, Moderately soft to moderately hard, Unweathered, BXMDC, 34.5 ft - 38.5 ft, Rec. = 3.4 ft	1	85	29	50	7
		Dark gray, Phyllite, Competent. Low RQD possibly due to mechanical breakage during drilling, Moderately soft, Unweathered, BXMDC, 38.5 ft - 41.5 ft, Rec. = 2.7 ft	2	90	11	50	6
40		Dark gray, Phyllite, Competent. Low RQD possibly due to mechanical breakage during drilling, Moderately soft, Unweathered, BXMDC, 41.5 ft - 42.5 ft, Rec. = 1.0 ft	3	100	0	50	9
		Hole stopped @ 42.5 ft					16
							7
							7
							15
							12
50							

LOG OF BORING BRAINTREE BRO 1444(36).GPJ VT AOT.GDT 12/4/09