



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

BORING NUMBER: B-102  
SHEET 1 of 1  
DATE STARTED: 4/20/07  
DATE COMPLETED: 5/08/07

PROJECT NAME: PLYMOUTH  
SITE NAME: VT 100A  
STATION: 202+64.30  
OFFSET: 25.88' RT  
VTSPG: N 387299.52 ft E 1589098.32 ft

PROJECT NUMBER: BRS 0149(3)S  
SITE NUMBER: BR-8  
GROUND ELEVATION: 1039.84 ft  
GROUNDWATER DEPTH: 5.3 ft 5/09/07  
PROJECT PIN NUMBER: 84E057

BORING CREW  
CREW CHIEF: GARROW  
DRILLER: GARROW  
LOGGER: CARRIERE

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, GrSa with root and wood material, brn, Moist, Rec. = 1.4 ft	4	38.6	30.3	56.1	13.6
		NXDC, Boulders, Cleaned out casing, 3.5 ft - 4.5 ft					
		NXDC, Boulders, Cleaned out casing, 4.5 ft - 6.0 ft					
10		No Sample, 10.0 ft - 12.0 ft	12				
		A-1-b, SaGr, brn-gry, Moist, Rec. = 1.0 ft	44	12.1	51.1	38.3	10.6
20		A-2-4, SiGrSa, brn, Moist, Rec. = 1.8 ft	11	15.8	22.2	57.0	20.8
		NXDC, Boulders, Cleaned out casing, 24.3 ft - 25.0 ft					
		A-1-b, GrSa, gry-brn, Moist, Rec. = 1.7 ft	43	13.0	38.1	43.3	18.6
30		NXDC, Boulders, Cleaned out casing, 29.1 ft - 30.0 ft					
		No Sample, 30.0 ft - 32.0 ft, Used drilling mud to advance casing, Flowing sand.	24				
17.4		A-4, SaSi, brn, Moist, Rec. = 0.4 ft	R	23.9	1.0	45.8	53.2
		A-1-b, SiSaGr, brn, Moist, Rec. = 1.0 ft		11.2	42.8	36.7	20.5
40		NXDC, Boulders, Cleaned out casing, 37.5 ft - 50.0 ft, Sleeved 4.5" casing to 3.5" casing.					
50		A-1-b, GrSa, gry-brn, Moist, Rec. = 1.2 ft	80	13.5	32.4	50.2	17.4
		BXDC, Boulders, Cleaned out casing, 52.5 ft - 59.51 ft					
		Top of Bedrock @ 59.7 ft					
60		Gray, Dolomite, with numerous highly weathered calcite veins along jointing. Dolomite is unweathered while the calcite joint infilling is severely weathered. Poor competency. Massively bedded. No discernable dip., Hard, BXMDC, 59.7 ft - 60.7 ft, Rec. = 0.3 ft	1	30	0		15
			2	100	0		10
			3	100	16		12
							16
		Gray, Dolomite, with numerous highly weathered calcite veins along jointing. Dolomite is unweathered while the calcite joint infilling is severely weathered. Poor competency. Massively bedded. No discernable dip., Hard, BXMDC, 60.7 ft - 63.4 ft, Rec. = 2.7 ft					8
							10
							10
							14
							14
		Gray, Dolomite, with numerous highly weathered calcite veins along jointing. Dolomite is unweathered while the calcite joint infilling is severely weathered. Poor competency. Massively bedded. No discernable dip., Hard, BXMDC, 63.4 ft - 68.4 ft, Rec. = 5.0 ft					
		Hole stopped @ 68.4 ft					

Bottom of Abut. #1  
Elev. = 1037.00

Approx. Pile Tip @ Abut. #1  
Elev. 979.8



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BORING NUMBER: B-103  
SHEET 1 of 1  
DATE STARTED: 4/04/07  
DATE COMPLETED: 4/11/07

PROJECT NAME: PLYMOUTH  
SITE NAME: VT 100A  
STATION: 203+02.32  
OFFSET: 23.80' LT  
VTSPG: N 387352.02 ft E 1589132.35 ft

PROJECT NUMBER: BRS 0149(3)S  
SITE NUMBER: BR-8  
GROUND ELEVATION: 1045.3 ft  
GROUNDWATER DEPTH: 10.2 ft 4/12/07  
PROJECT PIN NUMBER: 84E057

BORING CREW  
CREW CHIEF: GARROW  
DRILLER: GARROW  
LOGGER: CARRIERE

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, GrSa, brn, Moist, Rec. = 1.5 ft	36	15.1	37.4	46.2	16.4
		NXDC, Cleaned out casing, 4.0 ft - 5.0 ft					
		Visual Class., A-1-b, Sa Gr, brn, Moist, Rec. = 0.6 ft, Insufficient sample for testing.	4	14.4			
10		NXDC, Cleaned out casing, 9.8 ft - 10.0 ft	19	14.2	33.7	51.6	14.7
		A-1-b, GrSa, brn, Moist, Rec. = 1.3 ft					
		A-1-b, SaGr, brn, Moist, Rec. = 1.5 ft	22	12.6	46.1	36.5	
20		NXDC, Cleaned out casing, 18.2 ft - 19.2 ft					
		Visual Class., A-1-b, Sa Gr, Rec. = 0.4 ft, Rock in sampler. Insufficient sample for testing.	26				
		No Sample, 25.0 ft - 27.0 ft	26				
30		A-1-b, Sa, brn, Moist, Rec. = 1.5 ft	18	16.7	18.5	68.0	13.5
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.9 ft	19	10.7	38.6	40.2	21.2
40		NXDC, Cleaned out casing, 39.5 ft - 40.0 ft	30	11.1	44.2	40.5	15.3
		A-1-b, SaGr, brn, Moist, Rec. = 1.3 ft					
		Top of Bedrock @ 45.2 ft	R				
		Visual Class., Broken Rock, Rec. = 0.2 ft		100	53	40	18
		Gray, Biotite-Quartz Schist, Low RQD may be due to mechanical breakage along foliation., Moderately hard, Unweathered, NXMDC, 45.2 ft - 49.9 ft, Rec. = 4.7 ft					14
			2	100	50	40	15
		Gray, Biotite-Quartz Schist, Low RQD may be due to mechanical breakage along foliation., Moderately hard, Unweathered, NXMDC, 49.9 ft - 54.9 ft, Rec. = 5.0 ft					8
							9
							8
							8
							8
		Hole stopped @ 54.9 ft					

Bottom of Abut. #2  
Elev. = 1035.80

Approx. Pile Tip @ Abut. #2  
Elev. 999.8

NOTE: BORING LOGS SHOWN WERE PREPARED UNDER A PREVIOUS PROJECT NUMBER AND ARE PROVIDED HERE FOR INFORMATIONAL PURPOSES.

PROJECT NAME: PLYMOUTH  
PROJECT NUMBER: ER BRS 0149(5)

TYLINTERNATIONAL

FILE NAME: zilc330bor.dgn  
PROJECT LEADER: J. OLUND  
DESIGNED BY: J. OLUND  
BORING LOGS

PLOT DATE: 9/20/2012  
DRAWN BY: T. KELLEY  
CHECKED BY: D. MYERS  
SHEET 17 OF 46