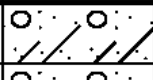


BOTTOM OF PILE CAP = 575.00

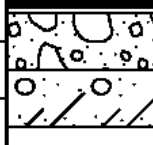
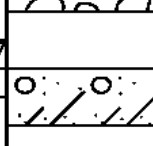
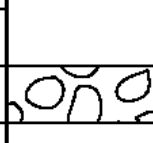
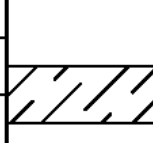
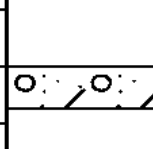
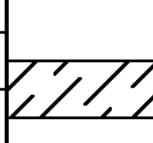
ESTIMATED PILE TIP

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-101 SHEET 1 of 1 DATE STARTED: 2/03/09 DATE COMPLETED: 2/05/09			
PROJECT NAME: CHESTER SITE NAME: VT-103 STATION: 12+76 OFFSET: -31.00 VTSPG: N 276326.55 ft E 1616990.57 ft				PROJECT NUMBER: BRF 025-1(37)SC SITE NUMBER: BR-9 GROUND ELEVATION: 583.47 ft GROUNDWATER DEPTH: 9.5 ft 2/04/09 PROJECT PIN NUMBER: 95B168			
BORING CREW CREW CHIEF: GARROW DRILLER: GARROW LOGGER: MAHMUTOVIC				BORING RIG: LARGE SKID RIG 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)
10		Visual Classification, A-2-4, GrSiSa with roots & leaves, brn, Moist, Rec. = 0.8 ft	30	29.8			
		A-2-4, GrSa, brn, MTW, Rec. = 0.5 ft	16	23.5	23.4	58.6	18.0
		A-1-b, SaGr, brn, MTW, Rec. = 0.7 ft	15	18.8	43.9	43.0	13.1
		A-1-b, GrSa, brn, MTW, Rec. = 1.4 ft	12	14.5	32.7	57.4	9.9
		A-1-a, SaGr, brn, Wei, Rec. = 1.0 ft	28	19.0	63.0	31.6	5.4
		A-1-a, SaGr, brn, Wei, Rec. = 1.1 ft	41	10.7	61.7	26.7	11.6
		A-4, GrSiSa, gry, MTW, Rec. = 1.2 ft	41	14.8	24.2	38.0	37.8
		A-4, SaGrSi, gry, MTW, Rec. = 0.7 ft	25	14.8	37.1	23.4	39.5
		A-4, SaSi, gry, MTW, Rec. = 1.4 ft	35	17.0	16.1	41.6	42.3
		A-2-4, SiSa, gry, MTW, Rec. = 1.3 ft	43	22.1	0.7	68.7	30.6
20		A-3, Sa, gry, MTW, Rec. = 1.7 ft	62	17.8	4.8	86.2	9.0
30		Field Class: BXMDC, Cobbles					
		Field Class: BXMDC, Boulder, Advanced casing.					
		Field Class: BXMDC, Cobbles, Advanced casing.					
40		Field Note: No recovery, Appears to be cobbles and silt, Changed bit	R				
		A-1-a, SaGr, gry, MTW, Rec. = 0.4 ft, Broken rock was within sample.	R	8.3	65.4	28.0	6.6
50		A-3, Sa, gry, MTW, Rec. = 0.3 ft	R	17.3	0.8	92.2	7.0
		Field Note: No recovery, Appears to be sand	R				
60		Gray, Biotite Gneiss, Competent, Very hard, Unweathered, BXMDC, 57.1 ft - 62.1 ft, Rec. = 5.0 ft	1	Top of Bedrock @ 57.1 ft	48	20	14 12 12 12
		Gray, Biotite Gneiss, Competent, Very hard, Unweathered, BXMDC, 62.1 ft - 67.1 ft, Rec. = 5.0 ft	2	100	44	20	12 12 12 12
		Hole stopped @ 67.1 ft					12 12

LOG OF BORING CHESTER BRF 025-1(37)SC.CP1 VT A01.GDT 5/13/09

LOG OF BORING CHESTER BRF 025-1(37)SC.GPJ VT AOT.GDT 5/13/09

ESTIMATED PILE TIP

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-103 SHEET 1 of 1 DATE STARTED: 3/20/09 DATE COMPLETED: 4/09/09				
PROJECT NAME: CHESTER SITE NAME: VT-103 STATION: 12+18 OFFSET: 10.00 VTSPG: N 276342.22 ft E 1616923.35 ft				PROJECT NUMBER: BRF 025-1(37)SC SITE NUMBER: BR-9 GROUND ELEVATION: 585.45 ft GROUNDWATER DEPTH: 13.0 ft 4/08/09 PROJECT PIN NUMBER: 95B168				
BORING CREW CREW CHIEF: GARROW DRILLER: GARROW LOGGER: PORTER				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)	
10		Asphalt Pavement, 0.0 ft - 0.8 ft						
		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft	37	13.6	48.3	39.3	12.4	
		A-2-4, GrSa, brn, Moist, Rec. = 1.0 ft, Advanced & cleaned out casing to 8.0 ft.	7	18.3	27.7	54.2	18.1	
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, Broken Rock was within sample.	40	9.6	62.1	30.7	7.2	
		BXDC, Cobbles, 10.0 ft - 11.0 ft						
		A-2-4, GrSa, brn, Moist, Rec. = 1.5 ft	30	13.5	25.4	60.0	14.6	
	20		BXDC, Cobbles, 18.0 ft - 20.0 ft					
			A-4, SaSi, gry, Moist, Rec. = 1.4 ft	44	20.5	5.1	30.6	64.3
			A-2-4, GrSa, gry, Moist, Rec. = 1.2 ft, Broken Rock was within sample.	68	14.1	35.9	46.0	18.1
			A-4, SaGrSi, gry, Moist, Rec. = 1.4 ft, Broken Rock was within sample.	88	12.8	35.7	28.0	36.3
40		Visual Classification, Very Fine Sand						
		BXMDC, Cobbles, 37.8 ft - 41.8 ft						
		Visual Classification, Appears to be Sand						
		Visual Classification, Appears to be Silty Sand						
60		Gray, Biotite Gneiss, Competent, Very hard, Unweathered, BXMDC, 60.8 ft - 65.8 ft, Rec. = 4.8 ft	1	Top of Bedrock @ 60.8 ft	58	35	7 6 7 7 7	
		Hole stopped @ 65.8 ft						
70								

LOG OF BORING CHESTER BRF 025-1(37)SC.CPJ VT.AUT.GDT 5/13/09

LOG OF BORING CHESTER BRF 025-1(37)SC.GPJ VT AOT.GDT 5/13/09

PROJECT NAME: CHESTER
 PROJECT NUMBER: BRF 025-1(37)

FILE NAME: s95b168bor.dgn
 PROJECT LEADER: C.P.WILLIAMS
 DESIGNED BY: H.J.SALLS
 BRIDGE 9 BORING LOG - SHEET 1

PLOT DATE: 20-SEP-2010
 DRAWN BY: D.D.BEARD
 CHECKED BY: R.S.YOUNG
 SHEET 75 OF 124