

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION									
PROJECT NAME: CAVENDISH SITE NAME: BR 45 STATION: 10+041.00 GROUND EL.: 218.495					PROJECT NUMBER: BRO 1442(23) SITE NO.: TH 29 OFFSET: 8.00 G.W. DEPTH: 4.20				
BORING CREW CREW CHIEF: TALLMAN DRILLER: CHABOT LOGGER: RUSSELL ADDITIONAL CREW:					BORING RIG: TRUCK BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL				
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		BXDC, 1.12m-1.45m, Boulder							
		A-2-4, Sa, gry-brn, Moist, Rec. = 0.33m	R	12.7	17.8	64.8	17.4		
		BXDC, 1.93m-2.39m, Boulder							
		A-1-a, SaGr, brn, Dry, Rec. = 0.25m	83	8.6	56.7	30.6	12.7		
		A-2-4, SiSaGr, Lt/gry, Dry, Rec. = 0.26m	37	9.9	39.6	32.4	28		
		No Rec.	R						
		A-1-b, SiSaGr, Lt/gry, Dry, Rec. = 0.18m	89	9.1	46.1	33.6	20.3		
		No Rec.	R						
		BXDC, 9.30m-9.61m, Boulder							
10		BXDC, 10.01m-11.44m, Boulders							
		BXDC, 11.60m-12.15m, Boulders							
		BXDC, 12.80m-13.10m, Boulders							
		Run#1: BXMDC, 13.45m-14.82m, Rec. = 1.04m, See Geologist's Report.	RUN	REC%	ROD%	Dip°			
			1	76	66	20			
15		Run#2: BXMDC, 14.82m-16.03m, Rec. = 0.91m, Geologist's Report.	2	75	30	20			
16.03									
Hole stopped @ 16.03m									
GEOLOGISTS REPORT: Run#1: Gray-green plagioclase, amphibolite, granodiorite, gneiss. Moderately hard, Unweathered. Run#2: Same as Run#1, except rock turns reddish-brown at 15.49m. DRILLERS NOTES: 1. Pulled casing @ 11.60m, Bit was worn out, Replaced with diamond bit. 2. Run#2 contained many seams.									

WINGWALL #2 BOTTOM OF FOOTING
EL. 213.00

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION									
PROJECT NAME: CAVENDISH SITE NAME: BR 45 STATION: 10+044.00 GROUND EL.: 219.060					PROJECT NUMBER: BRO 1442(23) SITE NO.: TH 29 OFFSET: 0.00 G.W. DEPTH: 4.08				
BORING CREW CREW CHIEF: TALLMAN DRILLER: CHABOT LOGGER: RUSSELL ADDITIONAL CREW:					BORING RIG: TRUCK BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL				
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		Boulders							
		A-1-b, GrSa, gry, MTW, Rec. = 0.17m	21	21.8	24.4	63.2	12.4		
		A-2-4, Sa, brn, MTW, Rec. = 0.46m	13	22	14.8	69.4	15.8		
		A-1-a, SaGr, gry-brn, Dry, Rec. = 0.20m	R	8.1	61.8	28.1	10.1		
		A-1-a, SaGr, gry, Moist, Rec. = 0.38m	26	10.1	55.8	32.6	11.6		
5		A-2-4, GrSiSa, gry, Moist, Rec. = 0.26m	19	11.8	24	41.8	34.2		
		A-1-b, SiSaGr, gry, Dry, Rec. = 0.27m	46	8.3	49.5	29.2	21.3		
		A-2-4, SiGrSa, gry, Moist, Rec. = 0.41m	78	10.1	36.7	37.7	25.6		
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.43m	62	13	29.1	41.4	29.5		
		A-1-b, SaGr, gry, Dry, Rec. = 0.27m	92	8.5	50.2	33.4	16.4		
10		BXDC, 10.25m-10.50m Boulder A-1-b, SaGr, gry, Dry, Rec. = 0.16m	R	9.7	44.2	44	11.8		
		BXDC, 11.45m-12.15m, Boulder							
		Run#1: BXMDC, 12.64m-14.16m, Rec. = 1.44m, See Geologist's Report.	RUN	REC%	ROD%	Dip°			
			1	95	95	20			
		Run#2: BXMDC, 14.16m-15.68m, Rec. = 1.50m, See Geologist's Report.	2	98	98	20			
15									
16									
Hole stopped @ 15.68m									
GEOLOGISTS REPORT: Run#1: Gray-green plagioclase, biotite, amphibolite, granodiorite, gneiss. Moderately hard, Unweathered, Competent. Run#2: Same as Run#1, but less biotite and more amphibolite. Moderately hard, Unweathered, Competent.									

ABUTMENT #1 BOTTOM OF FOOTING
EL. 213.00

WINGWALL #1 BOTTOM OF FOOTING
EL. 213.00

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION									
PROJECT NAME: CAVENDISH SITE NAME: BR 45 STATION: 10+041.00 GROUND EL.: 219.891					PROJECT NUMBER: BRO 1442(23) SITE NO.: TH 29 OFFSET: -5.00 G.W. DEPTH: 4.11				
BORING CREW CREW CHIEF: TALLMAN DRILLER: CHABOT LOGGER: RUSSELL ADDITIONAL CREW:					BORING RIG: TRUCK BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL				
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-4, SiSa, brn, MTW, Rec. = 0.48m	9	27.2	2.3	56.9	40.8		
		Possible Boulder, No Rec.	R						
		BXDC, 3.90m-4.50m, Boulder							
5		A-4, GrSaSi, Lt/gry, Moist, Rec. = 0.30m	26	12.1	22.2	38.5	39.3		
		A-2-4, GrSiSa, Lt/gry, Moist, Rec. = 0.26m	45	10.6	28.1	39.3	32.6		
		A-2-4, SiGrSa, gry, Moist, Rec. = 0.30m	R	10.2	32.2	38.6	29.2		
		BXDC, 8.75m-9.00m, Boulder A-1-b, SaGr, gry, Dry, Rec. = 0.24m	R	8.6	46.1	37.7	16.2		
10		A-1-b, SiGrSa, gry, Dry, Rec. = 0.16m	R	9	34.3	43	22.7		
		Top of bedrock @ 11.58 m							
		Run#1: BXMDC, 11.58m-13.10m, Rec. = 0.97m, See Geologist's Report.	RUN	REC%	ROD%	Dip°			
			1	64	55	50			
		Run#2: BXMDC, 13.10m-14.62m, Rec. = 1.30m, See Geologist's Report.	2	86	86	50			
		Hole stopped @ 14.62m							
GEOLOGISTS REPORT: Run#1: White to gray plagioclase, biotite, granodiorite, gneiss. Moderately hard, Unweathered. Run#2: Same as Run#1, but biotite rich zone between 13.10m and 13.44m. Also between 14.30m and 14.62m, Competent.									

DATUM
VERTICAL _____ NGVD 1927
HORIZONTAL _____ ASSUMED

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	CAVENDISH	Bridge No.	45
Highway No.	TH 29	Log Sta.	
		Surv. Sta.	
TH 29 OVER BLACK RIVER			
BORING LOGS (1 OF 2)			
Designed By	VTRANS	Drawn By	VTRANS
Checked By	Date	Bridge Design Supervisor	
S. M. HODGDON	5/06	C. D. BAKER	Date 5/06
PROJECT	CAVENDISH	PROJECT NO.	BRO 1442 (23)
I.G.C. Info.			
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