

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH DIVISION  
SUBSURFACE INFORMATION**


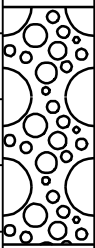









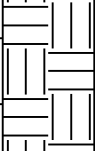
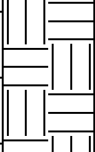
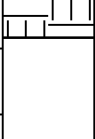
HOLE NO.: B-1  
SHEET 1 OF 1  
DATE STARTED: 9/20/99  
DATE COMPLETED: 9/23/99

PROJECT NAME: DUXBURY  
SITE NAME: BR 187  
STATION: 0+244.00  
GROUND EL.: 217.101

PROJECT NUMBER: STP 013-4 (24)  
SITE NO.: VT 100  
OFFSET: -5.50  
G.W. DEPTH:

BORING CREW  
CREW CHIEF: MCGLYNN  
DRILLER: TALLMAN  
LOGGER: YOUNG  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
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-2-4, SiGrSa, brn, MTW, Rec. = 0.09m	19	22.6	25.5	51.2	23.3			
		BXDC, 1.80m-3.60m, Boulders, No sample								
		A-4, GrSiSa, gry, Moist, Rec. = 0.15m	10	17.5	21.7	40.8	37.5			
5		A-4, SiSa, gry, Moist, Rec. = 0.30m	7	15.5	15.2	48.5	36.3			
		A-2-4, SiSa, gry, Moist, Rec. = 0.44m	17	15.3	19.8	46.4	33.8			
		A-2-4, SiSaGr HP, gry, Moist, Rec. = 0.38m	R	10.1	37.8	32.8	29.4			
		A-2-4, GrSiSa HP, gry, Moist, Rec. = 0.42m	R	11.3	26.9	38.9	34.2			
		BXDC, 8.43m-9.00m, Boulder, Rec. = 0.45m								
		A-1-b, SiSaGr HP, gry, Moist, Rec. = 0.30m	R	10.4	40.5	34.7	24.8			
10		A-4, GrSiSa HP, gry, Dry, Rec. = 0.49m	R	8.8	21	42.9	36.1			
		A-1-b, SiSaGr HP, gry, Moist, Rec. = 1.48m	R	10.7	44.2	30.6	25.2			
		Run #1: BXDC, 11.38m-12.90m, Rec. = 1.45m, See Geologist's Report.	RUN	REC%	RQD%	Dip°				
		Run #2: BXDC, 12.90m-14.42m, Rec. = 1.48m, See Geologist's Report.	1	95	66	80				
			2	97	97	80				
			Hole stopped @ 14.42m							

**GEOLOGISTS REPORT:**

Run #1: Gray graywacke, Hard Unweathered, Competent.

Run #2: Same as Run #1, Competent.

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HOLE NO.: B-2  
SHEET 1 OF 1  
DATE STARTED: 9/28/99  
DATE COMPLETED: 10/5/99

PROJECT NAME: DUXBURY  
SITE NAME: BR 187  
STATION: 0+242.00  
GROUND EL.: 216.907

PROJECT NUMBER: STP 013-4 (24)  
SITE NO.: VT 100  
OFFSET: 5.50  
G.W. DEPTH:

BORING CREW  
CREW CHIEF: MCGLYNN  
DRILLER: CHABOT  
LOGGER:  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS <i>(Description)</i>	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		Boulder, No sample							
		BXDC, 2.55m-3.00m, Rec. = 0.08m, Boulder	10						
		Visual classification: A-1-a, Gr, brn, Wet, Rec. = 0.04m, Insufficient sample for testing.							
5		A-4, SaGrSi, gry, MTW, Rec. = 0.37m	8	32.9	27.9	26.8	45.3		
		A-1-b, SaGr, gry, Moist, Rec. = 0.33m	17	12.9	4.6	38.9	14.5		
		A-2-4, GrSiSa HP, gry, Moist, Rec. = 0.43m	R	10.2	30	39.3	30.7		
		A-4, GrSaSi HP, gry, Moist, Rec. = 0.48m	57	13.7	29	30.9	40.1		
10		Top of bedrock @ 10.4m							
		Run #1: BXDC, 10.40m-11.35m, Rec. = 0.96m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	100	68	80			
		Run #2: BXDC, 11.35m-12.87m, Rec. = 1.43m, See Geologist's Report.	2	94	90	80			
		Run #3: BXDC, 12.87m-13.45m, Rec. = 0.60m, See Geologist's Report.	3	100	100	80			
		Hole stopped @ 13.45m							

**GEOLOGISTS REPORT:**

Run #1: Dark gray to black phyllite, Tightly folded, Moderately hard, Unwethered, Competent.

Run #2: Same as Run #1, Competent.

Run #3: Same as Run #1, Competent.

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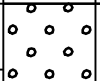
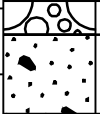

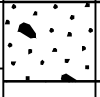
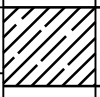
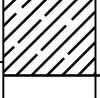
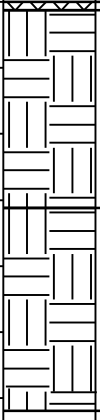
HOLE NO.: B-3  
SHEET 1 OF 1  
DATE STARTED: 10/7/99  
DATE COMPLETED: 10/12/99

PROJECT NAME: DUXBURY  
SITE NAME: BR 187  
STATION: 0+260.00  
GROUND EL.: 217.760

PROJECT NUMBER: STP 013-4 (24)  
SITE NO.: VT 100  
OFFSET: -5.50  
G.W. DEPTH:

BORING CREW  
CREW CHIEF: MCGLYNN  
DRILLER: HOLT  
LOGGER:  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
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	
		No Rec., Advanced casing through gravelly material and boulders.	R							
		A-1-a, SaGr, brn, Moist, Rec. = 0.23m	10	11.6	53.2	40	6.8			
5		BXDC, 4.44m-4.70m, Boulder A-1-b, SiSaGr HP, gry, Moist, Rec. = 0.18m	46	11.3	47.1	32.1	20.8			
		A-1-b, SaGr HP, gry, Dry, Rec. = 0.27m	R	8.6	45.8	35.6	18.6			
		A-1-b, SaGr HP, gry, Dry, Rec. = 0.14m	80	8.9	56	25.9	18.1			
10		A-4, SaSi HP, gry, Moist, Rec. = 0.47m	46	15.2	9.4	37.3	53.3			
		A-4, SaSi HP, gry, Moist, Rec. = 0.44m	48	15.2	5	33.2	61.8			
		No Rec. Run #1: BXGDC, 12.06m-13.56m, Rec. = 1.45m, See Geologist's Report. Run #2: BXGDC, 13.56m-15.06m, Rec. = 1.55m, See Geologist's Report.	R RUN	Top of bedrock @ 12.06m	REC%	RQD%	Dip°			
			1	97	87	80				
			2	100	100	80				
15.06			Hole stopped @ 15.06m							

**GEOLOGISTS REPORT:**

Run #1: Dark gray to black phyllite, Tightly folded, Moderately hard, Unwethered, Competent.

Run #2: Same as Run #1, Competent.

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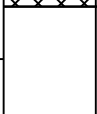









HOLE NO.: B-4  
SHEET 1 OF 1  
DATE STARTED: 10/22/99  
DATE COMPLETED: 10/26/99

PROJECT NAME: DUXBURY  
SITE NAME: BR 187  
STATION: 0+258.00  
GROUND EL.: 218.031

PROJECT NUMBER: STP 013-4 (24)  
SITE NO.: VT 100  
OFFSET: 5.50  
G.W. DEPTH:

BORING CREW  
CREW CHIEF: MCGLYNN  
DRILLER: CHABOT  
LOGGER: HOLT  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS <i>(Description)</i>	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		No Rec.	15						
									
		A-1-a, SaGr, brn, Dry, Rec. = 0.27m	52	5.6	63.9	28.6	7.5		
5		A-1-a, SaGr, brn, Moist, Rec. = 0.45m	13	10.5	56.9	35.1	8		
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.48m	10	14.2	26	42.9	31.1		
		A-4, SaSi HP, gry, Moist, Rec. = 0.48m	72	13.6	18.9	39.8	41.3		
		A-2-4, GrSiSa HP, gry, Moist, Rec. = 0.41m	84	11.1	29.6	35.8	34.6		
10		A-4, GrSaSi HP, gry, Moist, Rec. = 0.23m	R	14.7	23.4	26.9	49.7		
					Top of bedrock @ 12.14m				
		Run #1: 12.14m-13.35m, BXDC, Rec. = 1.10m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
		Run #2: 13.35m-14.89m, BXDC, Rec. = 1.50m, See Geologist's Report.	1	91	70	80			
			2	97	90	80			
				Hole stopped @ 14.89m					

**GEOLOGISTS REPORT:**

Run #1: Gray graywacke, Hard, Unweathered, Competent.  
Run #2: Same as Run #1, Competent.