

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

HOLE NO.: BI
SHEET 1 OF 1
DATE STARTED: 4/7/99
DATE COMPLETED: 4/8/99

PROJECT NAME: WALLINGFORD
SITE NAME: BR. #50
STATION: 3+019.50
GROUND EL.: 173.520

PROJECT NUMBER: BRO 1443(31)
SITE NO.: TH. #60
OFFSET: 0.00
G.W. DEPTH:

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER: MCGLYNN
LOGGER: YOUNG
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-1-b, SaGr, M, gry/brn, rec.=0.26m	58	8.3	49.4	37.6	13		
		A-1-b, GrSa, M, brn, rec.=0.31m.	2	10.7	27.4	62.1	10.5		
		A-2-4, Sa, M, brn, rec.=0.11m.	1	21.3	10.9	77.4	11.7		
		A-1-a, SaGr, M, brn, rec.=0.08m.	4	8.2	69	26.7	4.3		
		Top of Bedrock @ 4.78m							
5		Run#1: BXDC 4.78m-6.28m rec.=0.60m See Geologist's Report.		RUN	REC%	RQD%	DIP°		
				1	40	1	65		
		Run#2: BXMDC 6.28m-7.82m rec.=1.52m See Geologist's Report.		2	99	67	65		
		Run#3: BXMDC 7.82m-8.86m rec.=0.86m See Geologist's Report.		3	83	58	10		
		Hole Stopped @ 8.86m							
10		<p>Note: Large seams 4.78m-5.10m, some small seams to 6.00m some material ground up by core barrel.</p> <p>Changed core barrel at 6.28m - better recovery.</p>							

GEOLOGISTS REPORT:

Run#1: Buff colored marble. Very hard. Rock is unweathered. Joint surfaces are stained and moderately weathered. Poor Recovery. Poor Competency.

Run#2: Same as Run #1, but jointing is less weathered. Joint surfaces contain phyllitic streaks. Competent.

Run#3: Same as Run#1 but joint surfaces are fresh. Competent.

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








HOLE NO.: B2
SHEET 1 OF 1
DATE STARTED: 4/15/99
DATE COMPLETED: 4/16/99

PROJECT NAME: WALLINGFORD
SITE NAME: BR. #50
STATION: 3+046.50
GROUND EL.: 171.124

PROJECT NUMBER: BRO 1443(31)
SITE NO.: TH. #60
OFFSET: -5.00
G.W. DEPTH:

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

BORING RIG: TRUCK
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
		A-4, SaSi, Sat, brn, rec. = 0.04m.	3	22.3	11.2	22.4	66.4		
5		A-3, Sa, Wet, brn, rec. = 0.30m.	2	19	2.4	88.4	9.2		
		A-2-4, SiSa, Wet, brn, rec. = 0.45m	12	13.1		71.9	28.1		
		A-4, SaSi, Wet, brn, rec. = 0.45m.	53	17.3	16.9	40.1	43		
		A-4, SaSiGr, Wet, brn, rec. = 0.50m	43	25.3	40.6	23.6	35.8		
10		Run#1: BXDC 9.80m-10.10m rec. = 0.30m See Geologist's Report.		RUN	REC%	RQD%	DIP°		
		Run#2: BXDC 10.10m-11.27m rec. = 0.76m See Geologist's Report.		1	100	100	65		
		Run#3: BXDC 11.27m-12.39m rec. = 0.60m See Geologist's Report.		2	65	36	65		
		Run#4: BXDC 12.39m-12.99m, rec. = 0.60m See Geologist's Report.		3	54	30	60		
				4	100	83	60		
Hole Stopped @ 12.99m									

GEOLOGISTS REPORT:

- Run#1: Light gray limestone. Moderately Hard. Unweathered. Competent.
- Run#2: Same as Run #1.
- Run#3: Same as Run #1. Fair Recovery.
- Run#4: Same as Run #1.

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HOLE NO.: B3
SHEET 1 OF 1
DATE STARTED: 4/8/99
DATE COMPLETED: 4/12/99

PROJECT NAME: WALLINGFORD
SITE NAME: BR. #50
STATION: 3+046.50
GROUND EL.: 173.575

PROJECT NUMBER: BRO 1443(31)
SITE NO.: TH. #60
OFFSET: -0.50
G.W. DEPTH:

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER: MCGLYNN
LOGGER: YOUNG
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
		0.00m - 1.20m - Crushed gravel fill material.							
		No recovery. Stone in end of sampler. Appears to be gravelly material. BXDC 2.73m-2.99m No Recovery on boulder. BXDC 3.07m - 3.77m -Boulders	33 R						
5		A-1-a, SaGr, Wet, brn, rec. = 0.22m	22	17.9	57.9	34.8	7.4		
		A-1-a, Gr, MTW, brn, rec. = 0.58m.	51	9.9	81.2	15.5	3.3		
		A-1-a, Gr, Wet, brn, rec. = 0.26m.	28	5.4	86.1	12.1	1.8		
		A-1-b, Sa, Wet, dk. brn, rec. = 0.43m	2	22	0.5	89.8	9.7		
		A-4, SaSi, M, lt. brn, rec. = 0.41m	9	29.3	0.5	25.7	73.8		
		A-2-4, SiSa, M, lt. brn, rec. = 0.44m	8	25.6	0.5	78.3	21.2		
10		A-2-4, SiSa, M, lt. brn, rec. = 0.18m	19	31.7	0.5	78.8	20.7		
		A-4, SaSi, MTW, lt. brn, rec. = 0.40m	9	23.8	1	20.5	78.5		
		A-4, Si, MTW, lt. brn, rec. = 0.26m	51	27.1	9.6	8	82.4		
		BXMDC 12.45m-13.28m, Boulders							
					Top of Bedrock @ 13.28m				
		Run#1: BXMDC 13.28m-14.80m rec. = 1.47m. See Geologist's Report.		RUN	REC%	RQD%	DIP°		
				1	97	86	30		
		Run#2: BXMDC 14.80m-16.32m rec. = 1.50m. See Geologist's Report.		2	99	66	45		
Hole Stopped @ 16.32m									

GEOLOGISTS REPORT:

Run#1: Gray limestone. Hard. Unweatherd. Competent.

Run#2: Same as Run #1, but with high angle clay filled joint between 15.5m and 15.95m. Competent.

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









HOLE NO.: B4
SHEET 1 OF 1
DATE STARTED: 4/13/99
DATE COMPLETED: 4/14/99

PROJECT NAME: WALLINGFORD
SITE NAME: BR. #50
STATION: 3+046.50
GROUND EL.: 172.855

PROJECT NUMBER: BRO 1443(31)
SITE NO.: TH. #60
OFFSET: 3.50
G.W. DEPTH:

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER: MCGLYNN
LOGGER: CHABOT
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 Sample, in Boulders.							
		BXMDC 3.50m-3.90m rec.=0.18m, Boulders							
5		A-1-a, SaGr, Wet, brn, rec.=0.18m	64	11.2	63.3	30.6	6.1		
		A-2-4, SiSa, Wet, brn, rec.=0.60m	5	20.8	1.9	71.6	26.5		
		A-4, SaSi, Wet, brn, rec.=0.22m.	7	26.6	1.7	27.9	70.4		
		A-2-4, SiSa, Wet, brn, rec.=0.30m	5	19.4	13.8	66.1	20.1		
10		Visual Classification: SiSa	12						
		BXMDC 12.49m-12.84m, Boulders.							
		Run#1: BXMDC 12.84m-14.01m rec.=1.37m. See Geologist's Report.		RUN	REC%	RQD%	DIP°		
				1	90	90	60		
		Run#2: BXMDC 14.01m-14.55m rec.=0.38m. See Geologist's Report.		2	70	60	60		
		Run#3: BXMDC 14.55m-15.16m rec.=0.45m. See Geologist's Report.		3	74	69	60		
		Hole Stopped @ 15.16m							

GEOLOGISTS REPORT:

Run#1: Light gray limestone. Moderately Hard. Unweathered.
Competent.

Run#2: Same as Run #1.

Run#3: Same as Run #1.