VAOT Metric

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

HOLE NO.: B-10
SHEET 1 OF 1
DATE STARTED: 7/6/99
DATE COMPLETED: 7/7/99

PROJECT NAME: JAMAICA
SITE NAME: BR-80
STATION: 5+478.50
GROUND EL.: 168.971

PROJECT NUMBER: BRF 013-1 (8)
SITE NO.: VT-100
OFFSET: -7.60
G.W. DEPTH:

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

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

ABUT. #1 B.O.F. EL. 168.9

18 m ESTIMATED PILE PENETRATION

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		Note: Appears to rock fill 0.00m-6.00m							
		No sample, Boulders, BXDC, 1.5m-2.1m, Rec.= 0.35m							
		No sample, Boulders, BXDC, 3.00m-3.91m, Rec.= 0.52m							
5		No sample, Boulders, BXDC, 4.50m-5.78m, Rec.= 0.60m							
		A-1-a, SaGr, brn, Moist, Rec. = 0.15m	R	9.2	74.7	22.1	3.2		
		A-1-b, GrSa, brn, Moist, Rec. = 0.07m	11	12.6	40.4	54	5.6		
		A-1-b, Sa, brn, Moist, Rec. = 0.19m	13	19.4	5.2	87.8	7		
10		A-4, SiSa, brn, MTW, Rec. = 0.30m	46	25.6	0.8	52.3	46.9		
		A-2-4, Sa, brn, Moist, Rec. = 0.42m	R	19.1	1.8	78.4	19.8		
		A-2-4, GrSa, brn, Moist, Rec. = 0.23m	R	15.9	21.7	59.9	18.4		
15		Boulders, BXDC, 15.00m-15.55m Rec. = 0.46m							
		No sample, (Stone in bit.)	57						
		←No Rec.	R	Top of bedrock @ 18.03 m					
		Run #1: BXDC, 18.03m-19.55m, Rec. = 0.24m, See Geologist's Report.	RUN 1	REC% 16	RQD% 0	Dip ° 10			
20		Run #2: BXDC, 19.55m-21.08m, Rec. = 1.24m, See Geologist's Report.	2	81	72	15			
		Run #3: BXDC, 21.08m-22.58m, Rec. = 1.50m, See Geologist's Report.	3	100	100	15			
				Hole stopped @ 22.58m					
25									

GEOLOGISTS REPORT:

Run #1: Quartz-Biotite Gneiss. Very hard. Unweathered. Poor Competency.

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

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

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

HOLE NO.: B-11
SHEET 1 OF 1
DATE STARTED: 7/8/99
DATE COMPLETED: 7/9/99

PROJECT NAME: JAMAICA
SITE NAME: BR-80
STATION: 5+510.00
GROUND EL.: 166.094

PROJECT NUMBER: BRF 013-1 (8)
SITE NO.: VT-100
OFFSET: -7.60
G.W. DEPTH:

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

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

PIER B.O.F. EL. 162.3

13 m ESTIMATED PILE PENETRATION

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-a, Gr, Lt/brn, Moist, Rec. = 0.19m	30	5.7	74.3	19.3	6.4		
		BXDC, 1.95m-2.28m, Boulder							
		A-1-a, SaGr, brn, Moist, Rec. = 0.10m	R	8.6	66.7	29.5	3.8		
		BXDC, 3.1m-3.33m, Boulder							
5		A-1-a, SaGr, gry/brn, Moist, Rec. = 0.41m	88	8.6	58.4	31.2	10.4		
		A-2-4, Sa, Lt/brn, MTW, Rec. = 0.34m	29	21.6	1.8	86.2	12		
		A-3, Sa, Lt/brn, MTW, Rec. = 0.20m	35	24	0.5	90.7	8.8		
10		A-2-4, SiSa, Lt/brn, MTW, Rec. = 0.37m	50	24.4		76.3	23.7		
		A-2-4, SiSa, Lt/brn, MTW, Rec. = 0.32m	47	24.4		76.6	23.4		
		A-4, SaSi, Lt/brn, MTW, Rec. = 0.34m	40	26.2		45.3	54.7		
		A-2-4, SiSa, Lt/brn, MTW, Rec. = 0.41m	60	24.5	0.1	66.4	33.5		
15		BXDC, 14.97m-15.93m, Bo's & Sa Advanced casing to 16.15m							
				Top of bedrock @ 16.15 m					
		Run #1: BXMDC, 16.15m-17.01m, Rec. = 0.68m, See Geologist's Report.	RUN 1	REC% 79	RQD% 35	Dip ° 10			
		Run #2: BXMDC, 17.01m-17.95m, Rec. = 0.86m, See Geologist's Report.	2	91	68	10			
20		Run #3: BXMDC, 17.95m-19.59m, Rec. = 1.57m, See Geologist's Report.	3	96	90	10			
				Hole stopped @ 19.59m					
25									

GEOLOGISTS REPORT:

Run #1: Quartz-Biotite Gneiss. Hard. Unweathered. Poor Competency.

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

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

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

HOLE NO.: B-12
SHEET 1 OF 1
DATE STARTED: 6/24/99
DATE COMPLETED: 6/25/99

PROJECT NAME: JAMAICA
SITE NAME: BR-80
STATION: 5+561.00
GROUND EL.: 168.635

PROJECT NUMBER: BRF 013-1 (8)
SITE NO.: VT-100
OFFSET: -9.00
G.W. DEPTH:

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

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

ABUT. #2 B.O.F. EL. 168.2

16 m ESTIMATED PILE PENETRATION

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-2-4, Sa, Lt/brn, Moist, Rec. = 0.32m	5	17	0.2	81.3	18.5		
		A-1-a, SaGr, brn, Dry, Rec. = 0.30m	85	5.4	64.3	26.7	9		
		BXDC, 3.68m-4.13m, Stones							
5		A-1-a, SaGr, brn, Dry, Rec. = 0.08m	R	6.3	66.7	26.9	6.4		
		BXDC, 4.80m-7.20m, Cobbles with intermittent sand layers.							
		A-1-b, GrSa, brn, Moist, Rec. = 0.25m	45	13	38.6	52.4	9		
10		A-1-a, SaGr, brn, Moist, Rec. = 0.05m	43	5.4	72.2	22.6	5.2		
		No Rec., On Boulder	R						
		BXDC, 10.56m-10.86m, Cobbles, Casing broke off at 10.70m.		Hole stopped @ 10.86m					
15									
20									
25									

Notes:

Changed carbide bit at 6.00m (worn out)

Many cobble size stones from 2.00m to the bottom of hole encountered while advancing casing.

Hole stopped in Boulders/cobbles and sand at 10.86m due to the casing breaking.

Believe diamond casing bit was worn out causing casing to break with loss of 10.0' of casing.

Also wore out one core barrel bit.

GEOLOGISTS REPORT:

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

HOLE NO.: B-12A
SHEET 1 OF 1
DATE STARTED: 6/29/99
DATE COMPLETED: 7/01/99

PROJECT NAME: JAMAICA
SITE NAME: BR-80
STATION: 5+559.00
GROUND EL.: 168.526

PROJECT NUMBER: BRF 013-1 (8)
SITE NO.: VT-100
OFFSET: -11.60
G.W. DEPTH:

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

BORING RIG: TRACTOR
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
		0-1.5m Cobbles & Boulders							
		A-2-4, Sa, brn, Moist, Rec. = 0.36m	8	14.5	0.6	87.3	12.1		
		No sample, Boulders							
5		A-1-a, SaGr, brn, Moist, Rec. = 0.21m	R	7.8	67.3	26.9	5.8		
		No Rec.	R						
		A-1-b, GrSa, gry, Moist, Rec. = 0.23m	39	10.9	43.7	45.1	11.2		
		A-1-b, GrSa, gry/brn, Moist, Rec. = 0.36m	40	10.6	38.9	47.6	13.5		
10		A-1-b, SaGr, gry, Moist, Rec. = 0.12m	R	10.1	53.8	32.4	13.8		
		A-1-b, GrSa, gry, Moist, Rec. = 0.12m	28	11.9	44.4	45.4	10.2		
		BXDC, 13.26m-14.26m, Boulders							
		BXDC, 14.39m-14.80m, Boulder							
15		Broken Rock	R						
		BXDC, 15.24m-16.11m, Rec. = 0.28m, Boulder		Top of bedrock @ 16.30 m					
		Run #1: BXDC, 16.30m-17.98m, Rec. = 1.36m, See Geologist's Report.	RUN 1	REC% 81	RQD% 70	Dip ° 10			
		Run #2: BXDC, 17.98m-18.89m, Rec. = 0.80m, See Geologist's Report.	2	88	85	10			
20		Run #3: BXDC, 18.89m-19.80m, rec.=0.84m See Geologist's Report.	3	92	92	10			
				Hole stopped @ 19.80m					
25									

GEOLOGISTS REPORT:

Run #1: Quartz-Biotite Gneiss. Hard. Unweathered. Competent.

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

Run #3: Same as Run #1, but granitic texture. Competent.

BORING LOG SHEET 3 OF 3

PROJECT: JAMAICA	PROJECT NO.: BRF 013-1 (8)
DESIGN FILE NAME: /matres/78f209/mf209bor.dgn IPARM FILE NAME:	PLOT DATE: DEC 1999
DRAWN BY: J. TOUCHETTE	SQUAD LEADER: C.C. BENDA
DATE: 08/99	SHEET: 59 OF 116