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

BORING LOG

JAMAICA
ER-BRF 015-1(23)
VT-30 BR-19

Boring No.: B-201
Page No.: 1 of 1
Pin No.: 11B316
Checked By: CEE

Boring Crew: GARROW, SALISBURY, PORTER
Date Started: 11/30/11 Date Finished: 12/01/11
VTSPG NAD83: N 218670.70 ft E 1565101.60 ft
Station: 210+22 Offset: 1.4' RT
Ground Elevation: 729.9 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:		Auto/AWJ
Rig:	CME 45C SKID	CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
12/01/11	13.5	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft				6-9-6-6 (15)	9.0	39.9	46.6	13.5
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft				7-6-3-4 (9)	14.7	39.7	41.4	18.9
5		Lab Note, Lots of broken Concrete was within sample., gry-brn, Moist, Rec. = 0.8 ft				6-22-15-25 (37)	7.0	70.6	23.5	5.9
		Field Note:, NXDC, Boulder								
AB#1 BOTTOM OF PILE CAP EL. 721.35		A-2-4, GrSa with Wood & Roots, brn, Wet, Rec. = 0.5 ft				5-6-4-4 (10)	26.2	27.3	55.5	17.2
10		Visual Classification, Broken Rock with little sand, brn, Moist, Rec. = 0.5 ft				4-4-4-6 (8)	8.0			
		Field Note:, NXDC, Cobbles & Gravel								
15		A-1-b, SaGr, gry, Moist, Rec. = 1.0 ft				10-13-16-15 (29)	11.1	47.8	32.7	19.5
20		A-1-b, SaGr, gry, Moist, Rec. = 0.8 ft				5-15-18-30 (33)	10.1	53.3	33.5	13.2
		A-1-b, SaGr, brn-gry, Moist, Rec. = 0.8 ft				42-R@3.5"	11.2	43.7	40.5	15.8
		A-1-b, SiSaGr, gry, Moist, Rec. = 0.9 ft				7-14-13-12 (27)	13.3	39.9	39.6	20.5
25		Lab Note, Sample had very severely weathered rock that turned into fines with pressure applied., grn-brn, Moist, Rec. = 1.1 ft				9-18-R@5.0"	14.8	16.1	40.9	43.0
		Lab Note, Mostly very severely weathered rock that turned into fines with pressure applied., red-gry, Moist, Rec. = 0.4 ft				R@5.0"	13.1	3.3	66.0	30.7
30		Lab Note, SaGr, gry-blk, Moist, Rec. = 0.2 ft, Very severely Weathered Rock was witihin sample.	1 (30)	84 (60)	5	R@2.5"	9.6	54.8	33.9	11.3
PILE TIP EL. 696.00		30.2 ft – 35.2 ft, Gray, Biotite Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 62			6 5 5 5	Top of Bedrock @ 30.2 ft				
35		35.2 ft – 40.2 ft, Gray, Biotite Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 62	2 (30)	84 (72)	4 4 6 6 5					
40		Hole stopped @ 40.2 ft								

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 JAMAICA ER-BRF 015-1(23).GPJ VERMONT AOT.GDT 1/6/12

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BORING LOG

JAMAICA
ER-BRF 015-1(23)
VT-30 BR-19

Boring No.: B-202
Page No.: 1 of 1
Pin No.: 11B316
Checked By: CEE

Boring Crew: GARROW, SALISBURY, PORTER
Date Started: 11/29/11 Date Finished: 11/30/11
VTSPG NAD83: N 218620.10 ft E 1564952.10 ft
Station: 211+78 Offset: 12.0' RT
Ground Elevation: 735.8 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:		Auto/AWJ
Rig:	CME 45C SKID	CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
11/30/11	7.0	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-a, SaGr, brn, MTW, Rec. = 0.8 ft				5-20-30-25 (50)	9.5	58.3	33.8	7.9
5		Field Note:, NXDC, Cobbles & Gravel								
		A-1-a, SaGr, gry, Moist, Rec. = 0.4 ft				6-6-3-3 (9)	21.9	64.8	29.3	5.9
10		Field Note:, NXDC, Gravel & Sand								
AB#2 BOTTOM OF PILE CAP EL. 725.40		Visual Classification, Broken Rock, brn-gry, Moist, Rec. = 0.2 ft, Insufficient sample for testing.				2-1-2-3 (3)				
		Field Note:, NXDC, Boulder & Cobbles								
15		A-1-a, SaGr, gry, Moist, Rec. = 0.6 ft				7-7-7-9 (14)	9.1	49.9	42.2	7.9
		18.6 ft – 23.6 ft, Light gray, Quartzite, with zones of large porphyroblasts of plagioclase feldspar. Very hard, Unweathered, Good rock, NXMDC, RMR = 62	1 (40)	90 (68)	4 5 5 5 5	Top of Bedrock @ 18.6 ft				
PILE TIP EL. 714.00										
25		23.6 ft – 28.6 ft, Light gray, Quartzite, with zones of large porphyroblasts of plagioclase feldspar. Very hard, Unweathered, Fair rock, NXMDC, RMR = 49	2 (40)	100 (40)	5 4 4 4 10					
30		Hole stopped @ 28.6 ft								
35										

Notes:
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3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 JAMAICA ER-BRF 015-1(23).GPJ VERMONT AOT.GDT 1/6/12

PROJECT NAME: JAMAICA
PROJECT NUMBER: ER-BRF 015-1(23)

FILE NAME: s11b316.boring.dgn
PROJECT LEADER: K. HIGGINS
DESIGNED BY: G. LAROCHE
BORING LOGS 1

PLOT DATE: 07-DEC-2012
DRAWN BY: K. FRIEDLAND
CHECKED BY: G. LAROCHE
SHEET 31 OF 82