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

HOLE NO.: B-14
SHEET 1 OF 1
DATE STARTED: 8/20/01
DATE COMPLETED: 8/21/01

PROJECT NAME: HARTFORD
SITE NAME: BR #8
STATION: 34+00.00
GROUND EL.: 384.55

PROJECT NUMBER: BTN 2004(1)
SITE NO.: TH #4
OFFSET: 0.00
G.W. DEPTH: 6.2 (08/21/01)

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

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

TOP OF FTG ABUT #2
ELEV. = 376.00

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		No Rec., Boulder	3						
10		A-1-a, Gr, gry, Dry, Rec. = 0.5'	17	9.2	80.2	15.2	4.6		
15		BXGDC, 13.9'-15.0', No Rec., Boulder	Top of bedrock @ 15.0'						
		Run#1: BXGDC, 15.0'-20.0' Rec. = 2.75' See Geologist's Report.	RUN 1	REC% 55	RQD% 42	Dip° 40			
20		Run#2: BXGDC, 20.0'-25.0' Rec. = 2.6', See Geologist's Report.	2	52	52	40			
25		Run#3: BXGDC, 25.0'-30.0' Rec. = 1.5', See Geologist's Report.	3	30	30	40			
30			Hole stopped @ 30.0'						
35									
40									
45									

DRILLER'S NOTES:

Water elev. @ 6.2' (08/21/01)

GEOLOGIST'S REPORT:

Run#1: Dark gray quartz biotite sericite schist, Moderately hard, Unweathered.

Run#2: Same as Run#1, but with some garnet porphyroblasts

Run#3: Same as Run#2.

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HOLE NO.: B-15
SHEET 1 OF 1
DATE STARTED: 8/21/01
DATE COMPLETED: 8/22/01

PROJECT NAME: HARTFORD
SITE NAME: BR #8
STATION: 34+09.00
GROUND EL.: 385.93

PROJECT NUMBER: BTN 2004(1)
SITE NO.: TH #4
OFFSET: 19.00
G.W. DEPTH: 7.7 (08/22/01)

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

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

TOP OF FTG ABUT #2
ELEV. = 376.00

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		A-1-a, SaGr with Wood particles, brn, Moist, Rec. = 0.75'	7	11.1	51.8	42.3	5.9		
10		A-1-b, Sa, gry, Moist, Rec. = 0.5'	10	15.1	1.2	94.8	4		
15			Top of bedrock @ 13.5'						
		Run#1: BXGDC, 13.5'-18.0' Rec. = 1.0', See Geologist's Report.	RUN 1	REC% 22	RQD% 0	Dip° 40			
20		Run#2: BXGDC, 18.0'-23.0' Rec. = 2.5', See Geologist's Report.	2	50	50	40			
25		Run#3: BXGDC, 23.0'-28.0' Rec. = 1.6', See Geologist's Report.	3	32	32	40			
30			Hole stopped @ 28.0'						
35									
40									
45									

DRILLER'S NOTES:

Water elev. @ 7.7' (08/22/01)

GEOLOGIST'S REPORT:

Run#1: Gray quartz sericite schist, Hard, Unweathered.

Run#2: Same as Run#1, but with some biotite and garnet porphyroblasts.

Run#3: Same as Run#2, but with quartz vein at 24.5'.

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HOLE NO.: B-16
SHEET 1 OF 1
DATE STARTED: 8/22/01
DATE COMPLETED: 8/22/01

PROJECT NAME: HARTFORD
SITE NAME: BR #8
STATION: 34+27.00
GROUND EL.: 386.63

PROJECT NUMBER: BTN 2004(1)
SITE NO.: TH #4
OFFSET: 34.00
G.W. DEPTH: 5.5 (08/23/01)

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

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

TOP OF FTG WW #4
ELEV. = 380.00

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		A-2-4, SiSa with Trace of Organics, gry, MTW, Rec. = 1.2', Tested 1.2% Organic	4	29.3	3.3	74.7	22		
			Top of bedrock @ 7.0'						
10		Run#1: BXGDC, 7.0'-11.0', Rec. = 3.0', See Geologist's Report.	RUN 1	REC% 75	RQD% 0	Dip° 40			
		Run#2: BXGDC, 11.0'-16.0' Rec. = 2.75' See Geologist's Report.	2	55	20	40			
15		Run#3: BXGDC, 16.0'-18.0' Rec. = 1.9' See Geologist's Report.	3	95	80	45			
			Hole stopped @ 18.0'						
20									
25									
30									
35									
40									
45									

DRILLER'S NOTES:

Water elev. @ 5.5' (08/22/01)

GEOLOGIST'S REPORT:

Run#1: Gray quartz-sericite schist, Very close to closely spaced jointing, Hard, Unweathered, Poor RQD.

Run#2: Same as Run#1, but less jointing, Poor RQD.

Run#2: Same as Run#1, but with minor jointing, Competent.

STATE OF VERMONT
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SUBSURFACE INFORMATION

HOLE NO.: B-17
SHEET 1 OF 1
DATE STARTED: 10/3/01
DATE COMPLETED: 10/4/01

PROJECT NAME: HARTFORD
SITE NAME: BR #8
STATION: 34+15.00
GROUND EL.: 385.63

PROJECT NUMBER: BTN 2004(1)
SITE NO.: TH #4
OFFSET: -9.00
G.W. DEPTH: 7.5 (10/4/01)

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

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

TOP OF FTG ABUT #2
ELEV. = 376.00

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)							
5		4.5'-5.5', Boulder, No sample							
10		10.0'-12.0', No sample							
15		14.0'-15.5', Boulder, No sample							
			Top of bedrock @ 18.0'						
20		Run#1: NXMDC, 18.0'-23.0' Rec. = 4.45' See Geologist's Report.	RUN 1	REC% 89	RQD% 85	Dip° 40-45	SD 18.9 20.1 20.7	Co 3,112 6,167 2,957	Eo 1616 3249 878
25		Run#2: NXMDC, 23.0'-28.0' Rec. = 5.00' See Geologist's Report.	2	100	90	40-45	24.2 25.4	10,094 3,147	5640 2130
30			Hole stopped @ 28.0'						
35									
40									
45									

DRILLER'S NOTES:

Water elev. @ 7.5' (10/4/01)

GEOLOGIST'S REPORT:

Run#1: Gray quartz-sericite schist with some quartz veins and scattered garnet, Hard, Unweathered,

Run#2: Same as Run#1.

SD = Sample Center Depth, ft.
Co = Uniaxial Compressive Strength of Intact Rock, psi
Eo = Elastic Modulus of Intact Rock, ksi

SURVEYED BY _____ DATE _____
DRAWN BY J.TOUCHETTE DATE 10/01
SQUAD LEADER C.C. BENDA
DESIGN FILE NO. /M&R/89J045/mj045bor.dgn
IPARM FILE 89J045/sJ045bo4.i DATE PLOTTED 11-FEB-2005
PROJ. NAME HARTFORD
PROJ. NO. BTN 2004 (1)
SHEET 30 OF 97 SHEETS