



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

BORING NUMBER: B-1  
SHEET 1 of 1  
DATE STARTED: 10/13/05  
DATE COMPLETED: 10/25/05

PROJECT NAME: ST. JOHNSBURY  
SITE NAME: US 2  
STATION: 379+55  
OFFSET: 26.00  
VTSPG: N 704940.56 ft E 1783812.49 ft

PROJECT NUMBER: BHF 028-4(25)S  
SITE NUMBER: BR 108  
GROUND ELEVATION: 749.94 ft  
GROUNDWATER DEPTH: 7.4 ft 10/25/05  
PROJECT PIN NUMBER: 98B320

BORING CREW  
CREW CHIEF: GARROW  
DRILLER: GARROW  
LOGGER: RUSSELL

BORING RIG: LARGE SKID RIG w/AUTO HAMMER  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL  
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
	x x x	Fill material used for building drill rig foundation., brn, Moist, Rec. = 0.9 ft, 0.0 ft - 2.0 ft	4				
	x x x	Field Class:, Fill material used for building drill rig foundation., brn, Moist, Rec. = 1.0 ft	3				
		Field Class:, Boulder, No sample	12				
10		Visual Class:, A-2-4, Gr Sa, brn, Moist, Rec. = 0.2 ft, Insufficient sample for testing	15	17.0	27.3	48.0	24.7
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.2 ft	R	14.4	22.7	57.9	19.4
		A-2-4, GrSa, gry, Moist, Rec. = 0.6 ft					
		Field Class:, Boulders and Cobbles					
		A-1-b, SaGr, gry, Moist, Rec. = 0.8 ft, Broken rock was within sample	R	10.4	48.6	37.6	13.8
20		A-1-b, SiSaGr, gry, Moist, Rec. = 1.1 ft, Broken rock was within sample	R	9.2	46.4	33.2	20.4
		A-1-b, SaGr, gry, Moist, Rec. = 1.4 ft, Broken rock was within sample	R	9.6	49.7	32.4	17.9
		A-1-b, GrSa, gry, Moist, Rec. = 0.5 ft, Broken rock was within sample	R	10.3	39.7	42.9	17.4
		A-2-4, SiSaGr, gry, Moist, Rec. = 1.4 ft, Broken rock was within sample	R	12.0	43.8	30.4	25.8
		A-4, SaGrSi, gry, Moist, Rec. = 1.6 ft, Broken rock was within sample	84	11.4	32.5	27.7	39.8
30		A-4, GrSaSi, gry, Moist, Rec. = 1.9 ft, Broken rock was within sample	55	11.7	22.5	30.0	47.5
		A-4, GrSaSi, gry, Moist, Rec. = 1.9 ft, Broken rock was within sample	59	11.2	25.0	29.8	45.2
		No Recovery, 32.0 ft - 34.0 ft	R				
		A-4, SaGrSi, gry, Moist, Rec. = 1.7 ft, Broken rock was within sample	R	10.5	31.4	30.2	38.4
		A-4, SaSi, gry, Moist, Rec. = 1.5 ft	R	14.4	17.4	36.8	45.8
40		A-2-4, GrSiSa, gry, Moist, Rec. = 1.3 ft	R	13.8	29.2	36.3	34.5
		Field Class:, Boulders, No recovery, Cored ahead					
		Field Class:, Boulders and Cobbles, No recovery, Cored ahead					
50		Field Class:, Boulders and Cobbles, No recovery, Cored ahead					
		Visual Class:, Possible saprolite material (weathered rock & silt), gry, Moist	R				
60		Gray, Phyllite, Numerous stained joint surfaces, Poor competency, Moderately hard, Moderately weathered, BXMDC, 60.0 ft - 61.0 ft, Rec. = 1.0 ft	1	100	0	80	12
		Gray, Phyllite, Poor competency, Moderately hard, Moderately to severely weathered, BXMDC, 61.0 ft - 66.0 ft, Rec. = 2.7 ft	2	54	0	80	13
		Gray, Phyllite, Poor competency, Core barrel plugged., Moderately hard, Slightly weathered, BXMDC, 66.0 ft - 69.7 ft, Rec. = 3.5 ft	3	95	0	80	27
70		Hole stopped @ 69.7 ft					11
							10
							8
							18
							10

LOG OF BORING ST. JOHNSBURY BHF028-4(25)S.GPJ VT AOT.GDT 5/13/09

Top of Bedrock @ 60.0 ft



STATE OF VERMONT  
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BORING NUMBER: B-2  
 SHEET 1 of 1  
 DATE STARTED: 10/24/05  
 DATE COMPLETED: 11/02/05

PROJECT NAME: ST. JOHNSBURY  
 SITE NAME: US 2  
 STATION: 380+45  
 OFFSET: -33.00  
 VTSPG: N 705043.16 ft E 1783845.92 ft

PROJECT NUMBER: BHF 028-4(25)S  
 SITE NUMBER: BR 108  
 GROUND ELEVATION: 744.19 ft  
 GROUNDWATER DEPTH: 0.0 ft 11/03/05  
 PROJECT PIN NUMBER: 98B320

BORING CREW  
 CREW CHIEF: TALLMAN  
 DRILLER: TALLMAN  
 LOGGER: PORTER

BORING RIG: LAG TRACK RIG w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
		Field Class., Granite Blocks, Cleaned out casing					
		Field Class., Boulders & Cobbles, Cleaned out casing					
10		Visual Class., A-2-4, St Sa Gr, gry, Wet, Rec. = 0.3 ft, Insufficient sample for testing.	20				
		A-4, SaGrSi, gry, Moist, Rec. = 1.4 ft	85	10.8	32.5	27.2	40.3
20		A-4, GrSaSi, gry, Moist, Rec. = 1.9 ft	66	11.0	23.4	30.0	46.6
		A-4, GrSaSi, gry, Moist, Rec. = 1.9 ft	89	11.2	20.9	32.3	46.8
30		A-4, GrSaSi, gry, Moist, Rec. = 0.5 ft	R	11.7	21.5	33.5	45.0
		A-4, GrSaSi, gry, Moist, Rec. = 0.7 ft	R	11.8	30.4	32.8	36.8
40		A-4, GrSaSi, gry, Moist, Rec. = 0.5 ft	R	11.8	32.4	32.4	35.2
		Field Class., Cored ahead, No sample, Broke thru, Possible saprolite material (weathered rock & silt)	R				
50		Visual Class., Possible saprolite material, gry, Moist, Rec. = 1.0 ft	R	Top of Bedrock @ 51.0 ft			
		Gray, Phyllite, Poor competency, Moderately hard, Moderately weathered, BXMDC, 51.0 ft - 54.0 ft, Rec. = 3.0 ft	1	100	0	50	8
		Gray, Phyllite, Poor competency, Moderately hard, Moderately weathered, BXMDC, 54.0 ft - 55.0 ft, Rec. = 0.9 ft	2	90	0	50	8
		Gray, Phyllite, Competent, Moderately hard, Slightly weathered, BXMDC, 55.0 ft - 60.0 ft, Rec. = 4.5 ft	3	90	52	50	7
		Gray, Phyllite, Competent, Moderately hard, Slightly weathered, BXMDC, 60.0 ft - 61.0 ft, Rec. = 1.0 ft	4	100	90	50	7
		Hole stopped @ 61.0 ft					8
70							

LOG OF BORING ST. JOHNSBURY BHF028-4(25)S.GPJ VT AOT.GDT 5/13/09