

VTTrans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-303 SHEET 1 of 1 DATE STARTED: 2/01/07 DATE COMPLETED: 2/12/07			
PROJECT NAME: BETHEL SITE NAME: VT-107 STATION: 125+50.00 OFFSET: -25.00 VTSPG: N 483680.35 ft E 1605533.39 ft		PROJECT NUMBER: BR-15 SITE NUMBER: BR-15 GROUND ELEVATION: 531.66 ft GROUNDWATER DEPTH: 16.0 ft 2/17/07 PROJECT PIN NUMBER: 78F161					
BORING CREW CREW CHIEF: HOLT DRILLER: PORTER LOGGER: SINGLETON		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)
PIER BOT. PILE CAP EL=527.00		A-2-4, Sa, brn, Moist, Rec. = 1.8 ft	9	18.9	0.6	80.0	19.4
		A-3, Sa, Lt/brn, Moist, Rec. = 1.1 ft	3	16.0	10.4	80.6	9.0
		A-3, Sa, brn, Moist, Rec. = 0.9 ft	R	14.8	8.1	82.8	9.1
		Field Class: Boulder, 7.0 ft - 8.0 ft, Refusal at 7.0 ft, Cored ahead	6	14.5	11.2	78.6	10.2
		A-3, Sa, brn, Moist, Rec. = 1.1 ft	12	11.0	27.8	63.3	8.9
		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft	31	9.2	45.1	34.7	20.2
		A-1-b, SiSaGr, gry-brn, MTW, Rec. = 0.9 ft	44	9.1	47.8	39.8	12.4
		A-2-4, Sa, brn, MTW, Rec. = 1.1 ft	14	24.9	4.7	81.3	14.0
		Field Note: No sample, Trace of Sa Si	6				
		A-4, SaSi, gry, MTW, Rec. = 1.0 ft	6	23.8	0.8	19.9	79.3
ESTIMATED PILE TIP EL= 487.6		A-4, SaSi, gry, MTW, Rec. = 1.5 ft	20	19.4	7.5	29.7	62.8
		Field Class: Boulder, 24.0 ft - 26.0 ft, No sample, Cored ahead	36	15.2	29.3	37.3	33.4
		A-2-4, GrSiSa, gry, Moist, Rec. = 1.4 ft	14	17.4	20.0	41.7	38.3
		A-4, GrSiSa, brn, Wet, Rec. = 1.3 ft	7	23.6	9.6	63.1	27.3
		A-2-4, SiSa, brn, Wet, Rec. = 1.5 ft	42	19.9	3.5	71.2	25.3
		A-4, SiSa, gry, Moist, Rec. = 1.0 ft	R	16.9	6.6	49.6	43.8
		Classification: A-2-4, Si Sa with Broken Rock, gry, Moist, Rec. = 0.4 ft, Insufficient sample for testing.	R	8.0			
		Field Note: Difficult drilling in flowing sand, Used bentonite mud and continued.					
		Classification: A-4, Sa Si with Broken Rock, gry, Moist, Rec. = 0.5 ft, Insufficient sample for testing.	R	12.2			
		Greenish gray, Biotite Gneiss, with some Amphibolite. Poor RQD., Very hard, Unweathered, NXDC, 42.3 ft - 44.3 ft, Rec. = 1.6 ft	1	80	25	60	9
	Greenish gray, Biotite Gneiss, Competent, Very hard, Unweathered, NXMDC, 44.3 ft - 48.3 ft, Rec. = 3.5 ft	2	88	69	60	5	
	Greenish gray, Biotite Gneiss, Competent, Very hard, Unweathered, NXMDC, 48.3 ft - 52.3 ft, Rec. = 4.0 ft	3	100	85	60	5	
	Hole stopped @ 52.3 ft					6	
						5	
						4	
						5	

VTTrans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-304 SHEET 1 of 1 DATE STARTED: 3/29/07 DATE COMPLETED: 4/02/07			
PROJECT NAME: BETHEL SITE NAME: VT-107 STATION: 125+50.00 OFFSET: 25.00 VTSPG: N 483653.89 ft E 1605575.81 ft		PROJECT NUMBER: BR-15 SITE NUMBER: BR-15 GROUND ELEVATION: 530.45 ft GROUNDWATER DEPTH: 10.0 ft 4/02/07 PROJECT PIN NUMBER: 78F161					
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: WERNER		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)
PIER BOT. PILE CAP EL=527.00		A-2-4, Sa, brn, Moist, Rec. = 1.7 ft	6	21.4	11.1	70.0	18.9
		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft	10	16.2	16.9	66.6	16.5
		A-2-4, GrSiSa, brn, Wet, Rec. = 0.9 ft	27	13.3	25.4	48.7	25.9
		A-2-4, Sa, brn, Wet, Rec. = 1.1 ft	19	18.6	11.6	75.2	13.2
		Field Class: NXDC, Cobbles, Cleaned out casing.	R	11.9	31.8	47.2	21.0
		A-1-b, SiGrSa, gry, Wet, Rec. = 0.6 ft	73	15.8	13.2	37.0	49.8
		Field Note: NXDC, Cleaned out casing.	30	21.9	0.9	19.1	80.0
		A-4, SaSi, gry, Moist, Rec. = 1.7 ft	91	18.3	2.1	52.3	45.6
		A-4, Si, gry, Moist, Rec. = 1.2 ft	R	16.2	16.8	44.7	38.5
		A-4, SiSa, gry, Moist, Rec. = 1.5 ft					
ESTIMATED PILE TIP EL= 487.6		Field Note: Difficult drilling in flowing sand, Used bentonite mud and continued.					
		Classification: A-4, Sa Si with Broken Rock, gry, Moist, Rec. = 0.5 ft, Insufficient sample for testing.	R	12.2			
		Field Class: Weathered Rock, Drilled and cored ahead to solid rock.	1	100	90		8
		Gray, Biotite Gneiss, Competent, Dip varies from 60 to 85, Very hard, Unweathered, NXMDC, 45.2 ft - 50.2 ft, Rec. = 5.0 ft	2	100	92		7
		Gray, Biotite Gneiss, Competent, Dip varies from 60 to 85, Very hard, Unweathered, NXMDC, 50.2 ft - 55.2 ft, Rec. = 5.0 ft	2	100	92		7
		Hole stopped @ 55.2 ft					6
							6
							5
							5
							6

BORING LOG SHEET 2

PROJECT NAME: BETHEL	PLOT DATE: 20-MAY-2011
PROJECT NUMBER: BR-15	DRAWN BY: G. ROKES
FILE NAME: sfi61bor.dgn	CHECKED BY: S. SCRIBNER
PROJECT LEADER: M. EVANS-MONGEON	SHEET 56 OF 148
DESIGNED BY: S. SCRIBNER	
BORING LOG SHEET 2	