

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B313b SHEET 1 of 3 DATE STARTED: 7/24/13 DATE COMPLETED: 7/25/13						
PROJECT NAME: Newport City STP 134-3(22) SITE NAME: Route 191 Landslide STATION: - OFFSET: - VTSPG: N 888821.93 ft E 1721229.79 ft		PROJECT NUMBER: GAI 133-87312 SITE NUMBER: - GROUND ELEVATION: 708.26 ft GROUNDWATER DEPTH: Not measured PROJECT PIN NUMBER: -		BORING CREW: New Hampshire Boring DRILLER: Rich Leonard LOGGER: Helena Hollauer BORING RIG: Mobile B-53 Track						
BORING CREW: New Hampshire Boring DRILLER: Rich Leonard LOGGER: Helena Hollauer BORING RIG: Mobile B-53 Track		BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL & TUBE HAMMER TYPE: ROPE & CATHEAD CHECKED BY:								
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	WELL DIAGRAM	BLOWS PER 6 IN VALUE	M.C. (%)	AASHTO GRAVEL (%)	AASHTO SAND (%)	AASHTO FINES (%)	LL (%)	PI (%)
		0,0 ft - 5,0 ft. No samples taken.								
		S1: 5,0 ft - 6,0 ft, A-4, gray-brown, wet, hard, clayey SILT, (ML), Rec. = 1,5 ft 6,0 ft - 7,0 ft, A-4, gray-brown, wet, dense, fine sandy SILT, (ML), S2: 7,0 ft - 9,0 ft, A-4, gray-brown, wet, very dense, fine sandy SILT, (ML), Rec. = 0,67 ft		7-22-19-26 (41) 31-31-28-37 (59)	23,2	0,9	36,9	62,2		
		S3: 10,0 ft - 12,0 ft, A-7-5, gray-brown, wet, very stiff, CLAY, thinly varved with 1,5" layer of medium sand, little silt, (CH), Note: Casing driven to 10 ft, open hole below, Rec. = 1,17 ft S4: 12,0 ft - 14,0 ft, A-7-5, gray-brown, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), Rec. = 1,5 ft		10-8-11-15 (19) 6-12-16-21 (28)						
		S5: 16,0 ft - 18,0 ft, A-7-5, brown-gray, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), P.P. = 1,25, 1,25, 1,25 tsf; Tv = 0,875 tsf, Rec. = 1,33 ft		5-7-11-20 (18)						
		S6: 20,0 ft - 22,0 ft, A-7-5, brown-gray, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), MV1: 22,0-22,2 ft Vane attempted, advanced 2,5", Rec. = 1,33 ft S7: 22,0 ft - 24,0 ft, A-7-5, brown-gray, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), Rec. = 1,33 ft		3-7-9-12 (16) 5-8-12-14 (20)	36,8	0,0	0,3	99,7	60	30

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		S8: 26,0 ft - 28,0 ft, A-7-6, brown-gray, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), P.P. = 1,25, 1,25 tsf; Tv = 0,82 tsf, Rec. = 1,17 ft		5-7-11-14 (18)						
		S9: 30,0 ft - 32,0 ft, A-7-6, brown-gray, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), P.P. = 1,75, 1,75, 1,75 tsf; Tv = 1,5 tsf, Rec. = 1,17 ft 32,0 ft, MV2: Vane attempted, advanced 2,5",		3-7-10-13 (17)	36,6				60	31
		S10: 35,0 ft - 37,0 ft, A-7-5, brown-gray, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), P.P. = 1,25, 1,25, tsf; Tv = 1,0 tsf, Rec. = 1,5 ft 37,0 ft - 39,0 ft, U1: Tube pushed 24" with 500 lbs of pressure 0-12" and 700 lbs of pressure 12-24", Rec. = 2,0 ft, A-7-5, silty CLAY, (CH)		6-9-12-16 (21)	35,0				65	32
		S11: 39,0 ft - 41,0 ft, A-7-6, brown-gray, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), Note: Fine sand seams becoming slightly wider. Vane attempted at 39 ft but could not be advanced with two men. P.P. = 2,0, 2,25, 2,25 tsf; Tv = 0,5 tsf, Rec. = 1,5 ft		7-11-16-20 (27)	53,3	0,0	1,6	98,4	64	33
		S12: 47,0 ft - 49,0 ft, A-7-6, brown-gray, slightly moist, very stiff, CLAY, thinly varved with a few gray fine sand seams, (CH), Note: Numerous seams of gray fine sand, Rec. = 1,83 ft		7-10-14-19 (24)	33,0	0,0	11,0	89,0	52	27

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		50,0 ft - 52,0 ft, U3: Tube pushed 24" with 500 lbs of pressure, Rec. = 2,0 ft 52,0 ft, MV4: Vane attempted, advanced 2", 54,0 ft - 56,0 ft, U4: Tube pushed 24" with 475 lbs of pressure, Rec. = 2,0 ft 55,9 ft, MV5: 56,0-56,1 ft Vane attempted, advanced 1", S13: 56,0 ft - 58,0 ft, A-6, dark gray and brown-gray, wet, medium dense, alternating/varved seams of gray fine SAND with silty CLAY, (SC), Note: Seams are of equal thicknesses, Rec. = 1,33 ft S14: 60,0 ft - 62,0 ft, A-4, dark gray to brown-gray to orange brown, wet, dense, alternating/varved seams of gray fine SAND with silty CLAY and SILT, (SM), Note: Seams are of equal thicknesses, Rec. = 2,0 ft S15: 64,0 ft - 66,0 ft, A-4, orange brown to gray-brown, wet, very dense, SILT, some silty clay seams, trace fine sand, (ML), Rec. = 1,67 ft		10-13-13-16 (28) 10-15-27-37 (42) 12-17-36-67 (53)						
		Hole stopped @ 66,0 ft		35,0					58	29
		Notes: - Vibrating wire piezometers installed at 8ft and 66ft in fully grouted borehole.								

LOG OF BORING & WELL - NEWPORT.CITY\_VT\_A07\_G07\_B313A

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