

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B306b SHEET 1 of 6 DATE STARTED: 6/20/13 DATE COMPLETED: 6/26/13						
PROJECT NAME: Newport City STP 134-3(22) SITE NAME: Route 191 Landslide STATION: - OFFSET: - VTSPG: N 888362.58 ft E 1721113.60 ft		PROJECT NUMBER: GAI 133-87312 SITE NUMBER: - GROUND ELEVATION: 793.7 ft GROUNDWATER DEPTH: 23.9 ft 6/24/13 PROJECT PIN NUMBER: -		BORING TYPE: Wash Bore SAMPLE TYPE: SPLIT BARREL & TUBE HAMMER TYPE: ROPE & CATHEAD CHECKED BY:						
BORING CREW: New Hampshire Boring DRILLER: Bub Thompson LOGGER: Helena Hollauer BORING RIG: CME-750										
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	WELL DIAGRAM	BLOWS PER 6 IN (N VALUE)	M.C. (%)	AASHTO GRAVEL (%)	AASHTO SAND (%)	AASHTO FINES (%)	LL (%)	PI (%)
		Top of Well Elevation: 795.84 ft								
		S1: 0.0 ft - 0.33 ft, Topsoil and root mat, Rec. = 1.5 ft		3-4-8-22 (12)						
		S2: 0.33 ft - 2.0 ft, A-3, dark brown, slightly moist, medium dense, fine to medium SAND, trace gravel, trace silt, cobble fragments in spoon tip, (FILL), (SW), Rec. = 0.53 ft		13-19-21 30 (40)						
		S3: 10.0 ft - 12.0 ft, A-1-b, dark brown, wet (drill water), medium dense, fine to coarse SAND, some gravel, some silt, (FILL), (SM), Rec. = 0.5 ft		10-7-5-4 (12)						
		S4: 15.0 ft - 17.0 ft, A-1-b, gray-brown, wet, medium dense, mixed zone of silty fine SAND, trace clay, and fine SAND, trace silt, (FILL and NATIVE mix), (SM), Rec. = 1.08 ft		11-13-17 (30)						
		S5: 20.0 ft - 20.25 ft, Burled topsoil/root mat, Rec. = 1.42 ft		3-13-9-10 (22) NA (R)						
		S6: 20.25 ft - 22.0 ft, A-2-4, gray-brown, moist, medium dense, fine SAND, some silt, little clay, (NATIVE), (SM), Rec. = 1.08 ft								

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PROJECT NAME: Newport City STP 134-3(22) SITE NAME: Route 191 Landslide STATION: - OFFSET: - VTSPG: N 888362.58 ft E 1721113.60 ft		PROJECT NUMBER: GAI 133-87312 SITE NUMBER: - GROUND ELEVATION: 793.7 ft GROUNDWATER DEPTH: 23.9 ft 6/24/13 PROJECT PIN NUMBER: -		BORING TYPE: Wash Bore SAMPLE TYPE: SPLIT BARREL & TUBE HAMMER TYPE: ROPE & CATHEAD CHECKED BY:						
BORING CREW: New Hampshire Boring DRILLER: Bub Thompson LOGGER: Helena Hollauer BORING RIG: CME-750										
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		S6: 25.0 ft - 27.0 ft, A-2-4, gray-brown, very moist, medium dense, fine to medium SAND, some silt, trace gravel, (SM), Rec. = 1.08 ft		13-18-11 11 (29)	12.9	11.1	63.6	25.3		
		S7: 30.0 ft - 32.0 ft, A-6, dark gray, slightly moist, stiff, silty CLAY, trace fine sand, changing at 31.6 ft to clayey SILT, (CL), Rec. = 1.58 ft		6-7-8-10 (15)	26.9	0.0	1.0	99.0	39	16
		S8: 35.0 ft - 37.0 ft, A-6, dark gray, wet, very stiff, alternating seams of fine SAND, some silt, and silty CLAY, (CL), Rec. = 0.58 ft		11-8-10- 15 (18)						
		S9: 40.0 ft - 42.0 ft, A-4, dark gray, wet, dense, silty fine SAND, trace clay, (SM), Rec. = 1.5 ft		12-17-17 (34)						
		S10: 44.0 ft - 46.0 ft, A-6, dark gray, wet, very stiff, alternating seams of fine SAND, some silt (1-1.5" thick), and silty CLAY, (CL), Rec. = 1.67 ft		11-8-8-6 (16)						
		S11: 48.0 ft - 50.0 ft, A-4, dark gray, moist, very dense, fine to medium sandy SILT, trace gravel (rounded), cobble from 49.5 to 49.7 ft, (ML), Rec. = 1.17 ft		27-34-59- 78 (93)	12.0	7.1	34.8	58.1		

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		S12: 55.0 ft - 57.0 ft, A-4, dark gray, slightly moist, very dense, fine to medium sandy SILT, trace gravel (rounded), (ML), Rec. = 1.25 ft		38-60-68- 76 (128)						
		S13: 60.0 ft - 62.0 ft, A-4, No recovery with 2" split spoon, Resampled with 3" split spoons, A-4, dark gray, slightly moist, very dense, fine sandy SILT, trace gravel (rounded), trace clay, (ML), Rec. = 1.17 ft		29-42-41- 32 (83)						
		S14: 65.0 ft - 66.7 ft, A-4, dark gray, moist, very dense, fine to medium sandy SILT, trace gravel (rounded), trace clay, (ML), Rec. = 1.25 ft		30-63-60- 100/5" (123)						
		70.0 ft - 70.3 ft, U1: Attempted a Shelby tube, The tube advanced 3.5" with 1000 lbs down pressure, End of tube folded in, Rec. = 0.29 ft		NA (R)						
		S15: 70.3 ft - 71.8 ft, A-4, dark gray, moist, very dense, fine to medium sandy SILT, trace gravel (rounded), trace clay, (ML), Siltsizesides at approx. 71.5 ft, P.P. > 4.5 tsf, Rec. = 1.25 ft		38-96- 115/6" (R)						

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BORING CREW: New Hampshire Boring DRILLER: Bub Thompson LOGGER: Helena Hollauer BORING RIG: CME-750										
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		S16: 75.0 ft - 80.0 ft, A-4, dark gray, slightly moist, very dense, silty fine to medium SAND, some gravel, (SM), Rec. = 0.58 ft		67- 120/6" (R)						
		S17: 80.0 ft - 80.8 ft, A-4, dark gray, slightly moist, very dense, silty fine to medium SAND, some gravel, (SM), Rec. = 0.67 ft		86- 120/4" (R)	10.4	26.3	30.0	43.7		
		S18: 85.0 ft - 85.83 ft, A-6, dark gray, moist, hard, silty CLAY, (CL), Rec. = 1.5 ft		37-80- 110/6" (R)						
		S19: 85.83 ft - 86.5 ft, A-4, dark gray, moist, very dense, fine to medium SAND, little silt, (SM), Rec. = 1.0 ft		77- 120/5" (R)						
		S20: 90.0 ft - 92.0 ft, A-1-b, dark gray, wet, very dense, fine SAND, some silt, with occasional layers of silty CLAY, (SM), Rec. = 1.67 ft		40-80- 103-128" (183)						
		S21: 95.0 ft - 96.0 ft, A-6, gray and gray brown (slightly mottled), very moist, very dense, fine SAND and silty CLAY, trace angular gravel (phyllite), (SC), Rec. = 0.58 ft		65- 113/6" (R)						

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		S22: 100.0 ft - 102.0 ft, A-7-6, medium brown, slightly moist, hard, SILT, trace fine sand, (ML), Rec. = 0.67 ft		25-36-40- 66" (76)	27.1	0.0	1.3	98.7	49	20
		S23: 105.0 ft - 107.0 ft, A-7-6, medium brown and dark gray, slightly moist, hard, CLAY, varved with fine sand, Trace gravel fragments at 105.8 ft, (CH)		26-23-29- 34" (52)	26.4				56	27
		110.0 ft - 112.0 ft, A-7-5, U2: Shelby tube, pushed with 1150 lbs of pressure, Tube was not related to extract, Rec. = 1.54 ft, Silty CLAY, (CH-MH)			30.9	0.0	1.6	98.4	54	24
		S24: 114.0 ft - 116.0 ft, A-7-6, gray-brown, slightly moist, hard, silty CLAY, varved with fine sand, (CL), Rec. = 1.33 ft		19-28-52- 48" (80)	28.8	0.0	1.6	98.4	48	22
		117.0 ft - 118.8 ft, A-4, U3: Shelby tube pushed with 1200 lbs pressure, Rec. = 1.75 ft			24.0	0.0	2.0	98.0	34	10
		S25: 120.0 ft - 120.8 ft, A-4, gray-brown, slightly moist, hard, SILT, varved with fine sand, (ML), Note: Similar to S24 but thinner fine sand seams, Rec. = 0.42 ft		5-120/3" (R)	23.9				32	5

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		S26: 125.0 ft - 125.8 ft, A-4, gray-brown, slightly moist, hard, SILT, some fine to medium sand, some gravel (subangular weathered phyllite), (ML), Rec. = 0.58 ft		66- 100/3" (R)						
		S27: 132.0 ft - 133.0 ft, A-1-b, brown and gray, slightly moist, very dense, fine to coarse SAND, some gravel, little silt, (SM), Rec. = 0.92 ft		94- 140/6" (R)	11.4	43.0	38.8	18.2		
		133.0 ft - 136.5 ft, 133 - 134.5 ft Driller reports gravelly conditions								
		134.5 - 135.5 ft Driller reports softer material								
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		136.5 ft Driller reports softer material								
		S28: 137.0 ft - 137.8 ft, A-4, gray-brown (mottled), very dense, SILT, (ML), Rec. = 0.5 ft		119- 120/4" (R)						
		Hole stopped @ 138.0 ft								
		Notes: - Sampled with 3" split spoon, Do not use N-values for design. - Vibrating wire piezometers installed at 41 ft, 91 ft, and 137 ft in grouted borehole.						0.3	7.5	92.2

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