

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION			BORING NUMBER: B313a SHEET 1 of 4 DATE STARTED: 6/20/13 DATE COMPLETED: 6/21/13					
PROJECT NAME: Newport City STP 134-3(22) SITE NAME: Route 191 Landslide STATION: - OFFSET: - VTSPG: N 888823.04 ft E 1721235.08 ft		PROJECT NUMBER: GAI 133-87312 SITE NUMBER: - GROUND ELEVATION: 708.2 ft GROUNDWATER DEPTH: Not measured PROJECT PIN NUMBER: -			BORING CREW: Boart Longyear DRILLER: Jason Koering LOGGER: Noah Chinburg BORING RIG: 600T Sonic					
BORING CREW: Boart Longyear DRILLER: Jason Koering LOGGER: Noah Chinburg BORING RIG: 600T Sonic		BORING TYPE: Sonic SAMPLE TYPE: Continuous Core HAMMER TYPE: N/A CHECKED BY:								
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: 710.86 ft								
		0.0 ft - 4.0 ft, A-1-b, dark brown, wet, loose, fine to medium SAND, some organics (roots), little silt, (SP).								
		3.0 ft - 3.5 ft, Gray, wet, loose, fine SAND.								
		3.5 ft - 4.0 ft, A-1-b, dark brown, wet, fine to medium SAND, some organics (roots).								
		4.0 ft - 6.0 ft, A-4, gray, moist, firm, SILT, some gravel (possibly from cobble at 4ft), little fine sand, (ML).								
		5.0 ft, Boulder encountered.								
		6.0 ft - 13.0 ft, A-1-b, stratigraphy changes to gray, wet, loose, clean fine to coarse SAND, (SP). Depth of stratigraphy change unknown due to poor recovery (cobble in core barrel).								
		13.0 ft - 15.0 ft, A-1-b, gray, wet, loose, clean fine to coarse SAND, (SP).								
		15.0 ft - 17.0 ft, A-4, gray, moist, firm, SILT, little fine sand, little gravel, (ML). Note: Cobbles encountered in sample. P.P. = 1.2, 0.7 tsf; Tv = 0.4, 0.4 tsf.								
		17.0 ft - 36.0 ft, A-4, brown-gray, moist, very stiff to hard SILT, trace fine gray sand layers, fissured, (ML).								
		21.0 ft, Same as above with less sand in layers.								
		23.0 ft, A-7-6, CLAY, (CH).			32.0	0.0	0.0	100.0	60	30

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		30.5 ft, Same as above with additional sand (trace) in layers.			34.2	0.0	0.4	99.6		
		36.0 ft - 41.0 ft, A-7-6, brown-gray, moist, soft, CLAY, trace fine sand throughout, (CH).								
		38.0 ft, P.P. = 0.5, 0.0, 0.2 tsf								
		40.0 ft, Tv = 0.45, 0.20, 0.20 tsf			40.6					59 30
		41.0 ft - 54.0 ft, A-7-6, brown-gray, moist, firm-hard, CLAY, trace fine sand layers, fissured, (CH).								
		42.0 ft, P.P. = 3.2 tsf								
		44.0 ft, P.P. = 2.7 tsf								
		45.0 ft - 51.0 ft, Thickness of Sand layers increasing to 0.5 - 1.0".								

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		50.0 ft, P.P. = 0.0, 0.0, 0.5 tsf; Tv = 0.2, 0.2 tsf								
		51.0 ft - 51.25 ft, A-3, black, clean fine SAND, (SP).								
		52.0 ft, Amount of sand in soil decreasing, P.P. = 2.7 tsf; Tv = 0.75 tsf								
		53.0 ft, P.P. = 3.7 tsf; Tv = 0.80 tsf								
		54.0 ft - 57.0 ft, A-7-6, brown-gray, moist, firm-hard, CLAY, trace to little fine sand layers, fissured, (CH), P.P. = 3.0 tsf; Tv = 1.00 tsf								
		57.0 ft - 59.0 ft, A-7-6, gray, moist, firm, CLAY, trace to little fine sand in varves, (CH). P.P. = 3.0 tsf								
		59.0 ft - 62.0 ft, A-4, gray, moist, firm, SILT, some clay, little fine and coarse sand interbedded in layers, (ML).								
		62.0 ft - 66.0 ft, A-4, gray, moist, firm, SILT, some clay, little fine and coarse sand interbedded in layers, (ML), PP = 2.1 tsf								
		65.0 ft - 66.0 ft, Fractured rock, Driller noted increase in water pressure from 65 - 66 ft and a decrease past 66 ft.								
		66.0 ft - 72.0 ft, A-4, gray, wet, firm, clayey SILT, trace fine sand, interbedded with fractured rock pieces, (ML). Note: Density increases at 72 ft.								
		72.0 ft - 73.0 ft, A-4, gray, moist, hard, clayey SILT, trace fine sand, interbedded with rock fragments, (ML).								
		73.0 ft - 78.0 ft, A-4, gray, wet, firm, clayey SILT, trace fine sand, interbedded with rock fragments, (ML).								

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		78.0 ft - 80.0 ft, Bedrock, Pulverized rock (rock flour). Driller indicated that this occurs when drilling competent bedrock dry.								
		81.0 ft - 86.0 ft, Bedrock (PHYLLITE).								
		Hole stopped @ 86.0 ft								
		Notes: - 3.34" Inclinator casing installed in fully grouted borehole. - Densities indicated in soil descriptions are based on adjacent SPT values and field experience.								

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