

MINNESOTA DEPARTMENT OF TRANSPORTATION - GEOTECHNICAL SECTION
LABORATORY LOG & TEST RESULTS - SUBSURFACE EXPLORATION

UNIQUE NUMBER 80630

State Project 6012-51		Bridge No. or Job Desc. SLIDE		Trunk Highway/Location US Highway TH75		Boring No. T01 Si		Ground Elevation 847.8 (Surveyed)		
Location Polk County Coordinate System X=389488 Y=142438 Latitude (North)=47°36'51.65" Longitude (West)=96°48'52.90"				Drill Machine 205120 CME(LC55) Track Hammer CME Automatic Calibrated				SHEET 1 of 1 Drilling Completed 3/16/16		
DEPTH	Depth	Lithology	Classification	Drilling Operation	SPT N60	MC (%)	COH (psf)	γ (pcf)	Soil	Other Tests Or Remarks
	Elev.				REC (%)	RQD (%)	ACL (ft)	Core Breaks	Rock	Formation or Member
5	5.5 842.3		Top Soil / Fill Clay Loam slightly organic with a few roots and traces of Sand at 4.5'; dark-browns and moist		4	31				
8	8.8		Top Soil / Fill		11	38				
10	839.0		slightly organic Clay; black and moist		4	36	880	115		UC 8.8'-9.3'
15			Fat Clay with some small pebbles and Slickenside at 9.0', 18.4' with IOS, thinly varved traces and seams of light-brown Silt from 9.5'-11.5', very wet Silty Clay Loam layer at 13.5' along with a few roots at 11.5'; gray-brown to dark-gray, moist		10	39	100	109		% C 62.7; % Si 35.8 UC, DS 13.4'-14.9'
20					8	39	900	114		Drill mud came up through crack under drill rig advanced augers to 18.0'
25	24.0 823.8				6	44				UC, DS 18.2'-19.2'
30					5	46				Triax 24.0'
35			Fat Clay with a few stones and pebbles, blocky 33.0'- 38.0' with slickenside at 43.0', 45.0', 48.7'and 49.3' dark-gray and moist		6	45				% C 60.3; % Si 34.5 Triax 29.0'
40					7	45				Triax 34.0'
45					7	42				Triax 39.0'
50	49.0 798.8				7	53	550	111		UC, DS 44.0'-45.0'
55	54.0 793.8		Fat Clay, dark-gray and moist		9	45	950	110		%C-70.6;Si-26.7 %C-57.8;Si-35.6 UC, DS 49.0'-50.0'
60			Silty Clay with a 1"seam of Silt at 58.6' and many small pockets of Silt at 59.0'; gray and moist		9	33				%Si-52.2;C-39.6
65	62.0 785.8		Silt with thin traces of slightly plastic Silt Loam; gray and very moist		25	25				Triax,DS 58.3'-59.3' % C 33.7; % Si 63.3
70	66.5 781.3		slightly plastic Silt Loam with vertical thin Seams and traces of gray Silt; dark-gray, wet		46	24				
75	71.0 776.8		Silt with thin traces of slightly plastic Silt Loam; light-gray, wet		6	33				
80	76.5 771.3				11	26				
85			Very Fine Sand, grays and saturated		16	26				High Silt content
90					26	25				
95	92.0 755.8		Silt with thin traces of slightly plastic Silt Loam; Light-gray, wet		26	26				
	98.0 749.8		Bottom of Hole -98.0' Water level is indeterminate due to use of drilling fluids		18	23				

Field Crew Chief: Wassen, Kevin Soil Class:JAH Rock Class: Edit: Date: 4/5/22