

# SCDOT Soil Test Boring Log

<b>File No.:</b>	38-40308.2	<b>Project No. (PIN):</b>	0040308	<b>County:</b>	Orangeburg	<b>Eng./Geo.:</b>	B. Livingston
<b>Site Description:</b>	Bridge Replacement Over Four Hole Swamp					<b>Route:</b>	US301
<b>Boring No.:</b>	B-7A	<b>Boring Location:</b>	5951+87.63	<b>Offset:</b>	8.39 R	<b>Alignment:</b>	Proposed
<b>Elev.:</b>	120.3 ft	<b>Latitude:</b>	33.4575	<b>Longitude:</b>	-80.6481	<b>Date Started:</b>	12/6/2014
<b>Total Depth:</b>	132 ft	<b>Soil Depth:</b>	120 ft	<b>Core Depth:</b>	ft	<b>Date Completed:</b>	12/6/2014
<b>Bore Hole Diameter (in):</b>	4	<b>Sampler Configuration</b>		<b>Liner Required:</b>	Y (N)	<b>Liner Used:</b>	Y (N)
<b>Drill Machine:</b>	CME 55	<b>Drill Method:</b>	Mud Rotary	<b>Hammer Type:</b>	Safety Hammer	<b>Energy Ratio:</b>	76.4%
<b>Core Size:</b>		<b>Driller:</b>	Carolina Drilling	<b>Groundwater:</b>	TOB 9.5 ft	<b>24HR</b>	

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value	<div> ● SPT N VALUE ● </div> <div> PL X MC O LL X </div> <div> ▲ FINES CONTENT (%) </div>
15.3	106.5	Very dense, wet, black, fine to medium grained, poorly graded SAND with silt (SP-SM), micaceous SS-28: MC=26.7%, LL=NP, PL=NP, PI=NP, FC=8.5%		105.5	SS-28	19	33	50/3"	100X	▲ ○ ●
10.3	110.5	Very hard, wet, black, Sandy Lean CLAY (CL), micaceous		110.5	SS-29	15	50/5"		100	●
5.3	113.5	Very dense, wet, dark gray, fine to medium grained, Silty SAND (SM), micaceous		115.5	SS-30	15	40	50/4.5"	100	●
0.3	120.5			120.5	SS-31	15	42	50/5"	100	●
-4.7	124.5	Very hard, wet, black, Sandy Elastic SILT (MH), micaceous		125.5	SS-32	16	30	50/3"	100	●
-9.7	130.5			130.5	SS-33	50/5"			100	●
-14.7	132.0	Boring Terminated at 132' Groundwater Encountered at 9.5' at Time of Boring								
-19.7										
-24.7										
-29.7										

## LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
ST - Shelby Tube	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

SC\_DOT 0451644 SCDOT FIVE CHOP ROAD.GPJ SC\_DOT.GDT 2/24/15