



Timmons Group
1001 Boulders Parkway, suite 300
23225

PROJECT NUMBER 42792 **PROJECT NAME** Hickory Haven and Samary Forest
CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/12/2019 **COMPLETED** 7/12/2019 **GROUND ELEVATION** 193.5 ft **HOLE DEPTH** 9 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger ▽ **AT END OF DRILLING** 7.50 ft / Elev 186.00 ft not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ ▼ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

TG GEOTECH BH LOG V2.0 - GINT STD US LAB.GDT - 30/8/19 10:00 - Y:\1801\GEOTECH\PROJECTS\2019 PROJECTS\42792 HICKORY HAVEN AND SAMARY FOREST\LOGS\HICKORY HAVEN.GPJ

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0							
		ASPHALT: (4 Inches)					
		AGGREGATE BASE: (8 Inches)					
		SANDY SILT, (ML): gray, moist, stiff, trace organics, fill		S-1, SPT 4-4-5 (9)			
	190			S-2, SPT 4-4-3-7 (7)			
5		SILTY SAND, (SM): light brown and gray, fine to medium grained, moist, loose		S-3, SPT 3-3-4-9 (7)			
		SILTY SAND WITH GRAVEL, (SM): brown, fine to coarse grained, wet, very dense, weathered decomposed rock		S-4, SPT 25-48-50 (98)			
	185	▽		S-5, SPT 89/9"			

Refusal at 9.0 feet.
Bottom of borehole at 9.0 feet.



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CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/12/2019 **COMPLETED** 7/12/2019 **GROUND ELEVATION** 194 ft **HOLE DEPTH** 13.1 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0		TOPSOIL: (4 Inches)		S-1, SPT 7-5-4-4 (9)			
		SANDY LEAN CLAY, (CL): light orangeish brown and gray, moist, stiff, trace organics, fill		S-2, SPT 2-3-2-2 (5)			
	190	FAT CLAY WITH SAND, (CH): brown and gray, moist, medium stiff, trace organics, fill		S-3, SPT 2-3-2-4 (5)			
5		SANDY SILT, (ML): light brown and gray, moist, medium stiff, fill		S-4, SPT 13-26-54 (80)			
		SILTY SAND, (SM): light gray, fine to coarse grained, moist, very dense, with rock fragments, weathered decomposed rock		S-5, SPT 29-22-25-43 (47)			
	185	SANDY SILT, (ML): light brown and gray, moist, hard					
10		SILTY SAND, (SM): gray, fine to coarse grained, moist, very dense, with rock fragments, weathered decomposed rock					
		Bottom of borehole at 13.1 feet.		S-6, SPT 50/1"			



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PROJECT NUMBER 42792 **PROJECT NAME** Hickory Haven and Samary Forest
CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/12/2019 **COMPLETED** 7/12/2019 **GROUND ELEVATION** 225 ft **HOLE DEPTH** 15 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0	225						
		TOPSOIL: (2 Inches)		S-1, SPT 5-4-5-9 (9)			
		SILTY SAND, (SM): orangeish brown, fine to coarse grained, moist, loose, contains mica		S-2, SPT 5-9-13-18 (22)			
		Light gray, medium dense, contains gravel		S-3, SPT 10-13-18-29 (31)			
5	220	Light brown and gray, dense		S-4, SPT 19-28-53 (81)			
		SILTY SAND, (SM): light brown and gray, fine to coarse grained, moist, very dense, weathered decomposed rock		S-5, SPT 98/11"			
10	215						
		SILTY SAND, (SM): light brown and gray, fine to coarse grained, moist, medium dense		S-6, SPT 23-9-7-11 (16)			
15	210						

Bottom of borehole at 15.0 feet.



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PROJECT NUMBER 42792 **PROJECT NAME** Hickory Haven and Samary Forest
CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/8/2019 **COMPLETED** 7/8/2019 **GROUND ELEVATION** 212 ft **HOLE DEPTH** 13.25 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0							
	210	GRAVEL: (4 Inches)		S-1, SPT 8-6-7-7 (13)			
		SANDY SILT, (ML): light brownish gray, moist, stiff					
		SANDY LEAN CLAY, (CH): orangeish brown and gray, moist, stiff		S-2, SPT 5-6-8-9 (14)			
5		SANDY SILT, (ML): light brown and light gray, moist, stiff, trace mica		S-3, SPT 4-6-7-10 (13)			
	205	(ML): dark orangeish brown and gray, very stiff, contains mica		S-4, SPT 8-13-14-21 (27)			
		(ML): light gray and light gray, hard, trace rock fragments		S-5, SPT 10-17-16-19 (33)			
10							
	200	SILTY SAND, (SM): light whiteish gray, fine to coarse grained, moist, very dense, trace rock fragments, weathered decomposed rock		S-6, SPT 50/3"			
		Bottom of borehole at 13.3 feet.					



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CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/8/2019 **COMPLETED** 7/8/2019 **GROUND ELEVATION** 220 ft **HOLE DEPTH** 15 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0	220	TOPSOIL: (4 Inches)		S-1, SPT 3-3-4-4 (7)			
		SANDY SILT, (ML): light brown, moist, medium stiff		S-2, SPT 3-3-4-5 (7)			
		SANDY ELASTIC SILT, (MH): reddish brown and light brown, moist, medium stiff		S-3, SPT 2-3-4-6 (7)			
5	215	Dark orangeish brown and light brown, moist, trace gravel		S-4, SPT 2-3-4-2 (7)			
		CLAYEY SAND, (SC): light brown, fine to coarse grained, moist, loose		S-5, SPT 2-3-3-4 (6)			
		SANDY FAT CLAY, (CH): light brown and light gray, moist, medium stiff					
10	210						
		SANDY ELASTIC SILT, (MH): light grayish brown, moist, medium stiff		S-6, SPT 3-3-3-4 (6)			
15	205						

Bottom of borehole at 15.0 feet.



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PROJECT NUMBER 42792 **PROJECT NAME** Hickory Haven and Samary Forest
CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/12/2019 **COMPLETED** 7/12/2019 **GROUND ELEVATION** 184 ft **HOLE DEPTH** 13.4 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0		TOPSOIL: (6 Inches)		S-1, SPT 2-4-5-6 (9)			
		SANDY SILT, (ML): light brown, moist, stiff		S-2, SPT 11-8-14-17 (22)			
	180	SILTY SAND WITH GRAVEL, (SM): light brown, fine to coarse grained, moist, medium dense		S-3, SPT 77/8"			
5		SILTY SAND WITH GRAVEL, (SM): light brown, fine to coarse grained, moist, very dense, weathered decomposed rock		S-4, SPT 22-33-50 (83)			
	175			S-5, SPT 79/9"			
10							
		Bottom of borehole at 13.4 feet.		S-6, SPT 50/5"			



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PROJECT NUMBER 42792 **PROJECT NAME** Hickory Haven and Samary Forest
CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/12/2019 **COMPLETED** 7/12/2019 **GROUND ELEVATION** 210 ft **HOLE DEPTH** 15 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0	210	TOPSOIL: (5 Inches) SANDY SILT, (ML): orangeish brown, moist, stiff		S-1, SPT 3-4-5-7 (9)			
		ELASTIC SILT, (MH): reddish brown, moist, very stiff, trace sand Orangeish brown		S-2, SPT 5-9-10-13 (19)			
5	205			S-3, SPT 6-8-11-14 (19)			
		SANDY SILT, (ML): light brown and light brownish gray, moist, very stiff (ML): stiff		S-4, SPT 5-7-9-14 (16)			
10	200			S-5, SPT 4-5-10-9 (15)			
		(ML): light brown and gray, very stiff		S-6, SPT 8-14-16-15 (30)			
15	195	Bottom of borehole at 15.0 feet.					



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CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/8/2019 **COMPLETED** 7/8/2019 **GROUND ELEVATION** 208 ft **HOLE DEPTH** 15 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0							
		TOPSOIL: (4 Inches)		S-1, SPT 3-5-6-8 (11)			
	205	SANDY SILT, (ML): light brown, moist, stiff, trace mica		S-2, SPT 4-5-7-9 (12)			
5		CLAYEY SAND, (SC): light grayish brown, fine to coarse grained, moist, medium dense		S-3, SPT 5-7-10-13 (17)			
	200	SANDY SILT, (ML): gray, moist, hard, contains mica		S-4, SPT 9-17-18-26 (35)			
		(ML): light brown and gray, very stiff		S-5, SPT 10-13-14-18 (27)			
10							
	195	SILTY SAND, (SM): brown and light brownish gray, fine to coarse grained, moist, very dense, contains mica, weathered decomposed rock		S-6, SPT 22-36-49-51 (85)			
15							

Bottom of borehole at 15.0 feet.



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PROJECT NUMBER 42792 **PROJECT NAME** Hickory Haven and Samary Forest
CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/8/2019 **COMPLETED** 7/8/2019 **GROUND ELEVATION** 198 ft **HOLE DEPTH** 14.33 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0							
		(4 Inches)		S-1, SPT 1-2-2 (4)			
	195	SILTY SAND, (SM): light brownish gray, fine to coarse grained, moist, loose, trace roots		S-2, SPT 2-1-2-2 (3)			
5		SANDY FAT CLAY, (CH): light brown and gray, moist, soft		S-3, SPT 3-4-5-5 (9)			
		ELASTIC SILT WITH SAND, (MH): light brown and gray, moist, stiff, trace mica		S-4, SPT 14-22-29-33 (51)			
	190	SANDY SILT, (ML): brown and gray, moist, very hard, trace mica		S-5, SPT 9-10-10-15 (20)			
10		SANDY ELASTIC SILT, (MH): brown and light gray, moist, very stiff, trace mica					
	185	SANDY SILT, (ML): light grayish brown, moist, very hard, trace mica, weathered decomposed rock		S-6, SPT 17-49-50 (99)			

Bottom of borehole at 14.3 feet.



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CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/8/2019 **COMPLETED** 7/8/2019 **GROUND ELEVATION** 207 ft **HOLE DEPTH** 15 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT END OF DRILLING** --- not encountered
LOGGED BY Julian Ruffin **CHECKED BY** _____ **AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0							
	205	TOPSOIL: (4 Inches) SANDY SILT, (ML): light brown, moist, stiff, contains roots, trace mica		S-1, SPT 2-4-5-6 (9)			
				S-2, SPT 4-5-7-9 (12)			
5				S-3, SPT 4-5-6-9 (11)			
	200			S-4, SPT 4-5-7-6 (12)			
				S-5, SPT 2-4-6-8 (10)			
10	195						
15				S-6, SPT 2-3-6-9 (9)			

Bottom of borehole at 15.0 feet.



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PROJECT NUMBER 42792 **PROJECT NAME** Hickory Haven and Samary Forest
CLIENT Goochland County **PROJECT LOCATION** Goochland County, Virginia
DATE STARTED 7/8/2019 **COMPLETED** 7/8/2019 **GROUND ELEVATION** 179 ft **HOLE DEPTH** 15 feet
DRILLING CONTRACTOR Fishburne Drilling, Inc. **BOREHOLE WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **▽ AT END OF DRILLING** 7.60 ft / Elev 171.40 ft
LOGGED BY Julian Ruffin **CHECKED BY** _____ **▼ AT 24 HOURS DRILLING** ---
NOTES _____ **CAVE DEPTH** _____

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DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0							
		TOPSOIL: (6 Inches)		S-1, SPT 3-5-3-3 (8)			
		SILTY SAND, (SM): light brown and gray, fine to coarse grained, moist, loose, trace gravel Dense		S-2, SPT 6-9-22-13 (31)			
5	175	Light gray, medium dense, trace mica		S-3, SPT 7-7-8-7 (15)			
		SANDY SILT, (ML): dark brown and light gray, moist, stiff, contains clay lenses, trace mica		S-4, SPT 6-5-10-14 (15)			
	▽						
10	170	SILTY SAND, (SM): brown, fine to medium grained, moist, dense, trace mica		S-5, SPT 7-13-24-30 (37)			
15	165	Dark brown, contains mica		S-6, SPT 7-13-26-39 (39)			

Bottom of borehole at 15.0 feet.