

PEDON 11

SITE INFORMATION

Soil located in the Upper Coastal Plain/Fall Zone of North Carolina near the town of Clayton. The site is on the edge of a cultivated field and is found in the long term wood lot that was cultivated in the past. The vegetation is primarily deciduous overstory with oak tree dominants. The site has no ponding or flooding.

LANDFORM

Broad upland interfluvium with soils formed from unconsolidated marine sediments. The slope is 3%.

HILLSLOPE POSITION



SOIL MOISTURE AND TEMPERATURE REGIMES

Udic soil moisture and Thermic soil temperature

SOIL PIT INFORMATION

The pedon has a thin organic horizon on the surface that is not described. Horizons 1, 2, and 3 are dominated by medium sized sands. Horizons 4 and 5 have common faint clay films on ped surfaces and as bridges between sand grains. Coarse fragments are well rounded, equidimensional, and 2-5 mm in size.

CHARACTERIZATION DATA

Horizon	Base Saturation (%)	ECEC (cmol+/kg clay)	CEC-7 (cmol+/kg clay)
1	30	5.0	5.9
2	25	4.3	5.2
3	10	2.1	2.8
4	14	6.0	7.7
5	18	7.5	8.6

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SITE IMAGE

Pit located where red arrow is on the landscape.



PROFILE IMAGE

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SCORECARD

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SCORECARD VIRTUAL NATIONAL SOIL JUDGING CONTEST APRIL 5-16, 2021

1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
Total	_____

Contestant: _____
 School: PRACTICE
 Pedon Number: 11

1. Soil Morphology

Horizonation			Boundary		Texture					Color			Structure		Cons.	Soil Features		Score				
Master Pre. (5)	Let. (5)	Sub. (5)	No. (5)	Dep. (cm)	Dist.	Sand (%)	Silt (%)	Clay (%) (5)	CF (%)	CF mod. (5)	Class (5)	Hue	Value	Chr.	Grade	Shape	Moist Strength	Redox		Eff.	(35)	
																		Dopl.	Conc.			
				10	A	84	14		1			10YR	4	2	1	GR	VFR					
				20	A	86	13		1			2.5Y	5	3	1	GR	VFR					
				64	C	83	16		1			2.5Y	6	4	1	GR	VFR					
				88	G	50	11		-			10YR	5	6	2	SR	FR					
				122+	-	37	11		-			10YR	5	6	1	RL	F1					

Score:

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2. Soil Profile Characteristics

Score: _____

Hydraulic Conductivity (10)	Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5) <input type="checkbox"/> High <input type="checkbox"/> Mod. <input type="checkbox"/> Low	Limiting Layer (5) <input type="checkbox"/> High <input type="checkbox"/> Mod. <input type="checkbox"/> Low _____ gpd/ft ² (3)	_____ V. shallow (<25 cm) _____ Shallow (25 to 49 cm) _____ Mod. deep (50 to 99 cm) _____ Deep (100 to 149 cm) _____ Very deep (≥150 cm)	_____ Very low (<7.5 cm) _____ Low (7.5 to <15 cm) _____ Mod. (15 to <22.5 cm) _____ High (≥22.5 cm)	_____ (>150 cm) _____ (100 to 150 cm) _____ (50 to 99 cm) _____ (25 to 49 cm) _____ (<25 cm)
Ref. (2): _____				

3. Site Characteristics

Score: _____

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
UNCONSOLIDATED MARINE SEDIMENTS	UPLAND INTERFLUVE	3%	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Backslope <input type="checkbox"/> Footslope <input type="checkbox"/> Toeslope <input type="checkbox"/> None	<input type="checkbox"/> Ponded <input type="checkbox"/> Very slow <input type="checkbox"/> Slow <input type="checkbox"/> Medium <input type="checkbox"/> Rapid <input type="checkbox"/> Very rapid	<input type="checkbox"/> Very Low <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Very High

4. Soil Classification

Score: _____

Epipedon (5)	Subsurface horizons and/or diagnostic features (5 each)	Order (10)	Suborder (10)	Great Group (10)

5. Interpretations

Score: _____

Houses with Basements (3)	Septic Tank Abs. Fields (3)	Local Roads and Streets (3)	Corn (3)	Hopyards (3)	Created Wetlands (3)
<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Reason # (2): _____	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Reason # (2): _____	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Reason (2): _____	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Reason (2): _____	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Reason (2): _____	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Reason (2): _____