

**SCORECARD**  
**REGION 3 SOILS CONTEST**  
**October 19 & 20, 2023**



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

Contestant I.D. ACRE Practice Pit 5  
 Site No. \_\_\_\_\_  
 Horizons 5  
 Describe to a depth of 110 cm  
 Nail in third horizon at 51 cm

**I. Soil Morphology**

**Score:**

Horizonation				Boundary		Texture					Color			Structure		Cons.	Soil Features			Score
Master		Sub. (2)	No. (2)	Lower Depth (cm) (2)	Dist. (2)	Sand% (±5%) (2)	Clay% (±5%) (2)	CF Mod. (2)	Sand Mod. (2)	Class (2)	Hue (2)	Value (2)	Chroma (2)	Grade (2)	Shape (2)	Moist Strength (2)	Redox		Efferv. (2)	Possible (40)
Prefix (2)	Let. (2)																Depl. (2)	Conc. (2)		
1	A	P	-	19	C	8	23	-	-	SIL	10YR	2	1	2	GR	FR	-	-	-	
2	A	-	-	40	C	8	30	-	-	SIL	10YR	2	1	2	SBK	FI	-	-	-	
2	BA	-	-	60	C	8	33	-	-	SIL	10YR	2	1	2	SBK	FI	-	-	-	
2	B	tg	1	79	C	8	35	-	-	SIL	2.5Y	6	1	2	<del>SBK</del> PR	FI	Y	Y	-	
3	B	tg	2	110+	-	8	25	-	-	SIL	2.5Y	6	2	1	PR	FI	Y	Y	-	

**II. Soil Profile Characteristics** *watch for weathered rock at the bottom right of the profile* **Score:**

Hydraulic Conductivity (10)		Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5) ___ High <u>X</u> Mod. ___ Low	Limiting Layer (5) ___ High <u>X</u> Mod. ___ Low	<u>0.52</u> gpd/ft <sup>2</sup> (3)  Ref. (2) <u>FS</u>	___ Very Shallow (< 25 cm) ___ Shallow (25 to 49 cm) ___ Mod. Deep (50 to 99 cm) ___ Deep (100 to 150 cm) <u>X</u> Very Deep (> 150 cm)	___ Very low (< 7.5 cm) ___ Low (7.5 to < 15 cm) ___ Mod. (15 to < 22.5 cm) <u>X</u> High (≥ 22.5 cm)	<u>X</u> (< 25 cm) ___ (25 to 49 cm) ___ (50 to 99 cm) ___ (100 to 150 cm) ___ (> 150 cm)

**III. Site Characteristics**

**Score:**

Parent Material (5 each)	Landform (5)		Slope (5)	Slope Profile (5)	Surface Runoff (5)	Erosion Pot. (5)
<input type="checkbox"/> Alluvium <input type="checkbox"/> Beach deposit <input checked="" type="checkbox"/> Colluvium <input type="checkbox"/> Eolian sand <input checked="" type="checkbox"/> Glacial outwash <input type="checkbox"/> Human trans. materials <input checked="" type="checkbox"/> Lacustrine deposit <input checked="" type="checkbox"/> Loess <input type="checkbox"/> Glacial till <input type="checkbox"/> Pedisegment <input type="checkbox"/> Residuum	<u>Constructional</u> <input type="checkbox"/> Floodplain <input type="checkbox"/> Stream terrace <input type="checkbox"/> Kame/esker <input type="checkbox"/> Alluvial fan <input type="checkbox"/> Loess plain/hillslope <input checked="" type="checkbox"/> Outwash plain <input checked="" type="checkbox"/> Sand dune <input checked="" type="checkbox"/> Lake plain <input type="checkbox"/> Till plain/drumlin/moraine	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Choose only one landform</div> <u>Erosional</u> <input type="checkbox"/> Upland headslope <input type="checkbox"/> Upland sideslope <input type="checkbox"/> Upland noseslope <input type="checkbox"/> Interfluve	<input checked="" type="checkbox"/> 0 to < 2% <input type="checkbox"/> 2 to < 6% <input type="checkbox"/> 6 to < 12% <input type="checkbox"/> 12 to < 20% <input type="checkbox"/> ≥ 20% 0.5 % slope (not graded)	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Backslope <input type="checkbox"/> Footslope <input type="checkbox"/> Toeslope <input checked="" type="checkbox"/> None	<input checked="" 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 checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High

*glaciofluvial or lacustrine*

*or*

*Closed depression*

**IV. Soil Classification**

**Score:**

Epipedon (5)	Subsurface Horizon/ Feature (5 each)	Order (5)	Suborder (5)	Great Group (5)	Family Particle Size Control Section (5)	Family Particle Size Class (5 each)	
<input checked="" type="checkbox"/> Mollic <input type="checkbox"/> Ochric <input type="checkbox"/> Umbric <input type="checkbox"/> None	<input type="checkbox"/> Albic <input checked="" type="checkbox"/> Argillic <input type="checkbox"/> Calcic <input type="checkbox"/> Cambic <input type="checkbox"/> Densic <input type="checkbox"/> Glossic <input type="checkbox"/> Lamellae <input type="checkbox"/> Lithic <input type="checkbox"/> Paralithic <input type="checkbox"/> Spodic <input type="checkbox"/> None	<input type="checkbox"/> Alfisol <input type="checkbox"/> Entisol <input type="checkbox"/> Inceptisol <input checked="" type="checkbox"/> Mollisol <input type="checkbox"/> Spodosol <input type="checkbox"/> Other	<input type="checkbox"/> Alb <input checked="" type="checkbox"/> Aqu <input type="checkbox"/> Fluv <input type="checkbox"/> Orth <input type="checkbox"/> Psamm <input type="checkbox"/> Ud <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Argi <input type="checkbox"/> Calci <input type="checkbox"/> Dystr <input type="checkbox"/> Endo <input type="checkbox"/> Epi <input type="checkbox"/> Eutr <input type="checkbox"/> Fluv <input type="checkbox"/> Gloss <input type="checkbox"/> Hapl <input type="checkbox"/> Pale <input type="checkbox"/> Psamm <input type="checkbox"/> Quartzi <input type="checkbox"/> Ud(i) <input type="checkbox"/> Other	<input type="checkbox"/> Mineral soil surface to root limiting layer <input type="checkbox"/> 25 cm to root limiting layer <input type="checkbox"/> 25 to 100 cm <input type="checkbox"/> Lower boundary of Ap to root limiting layer <input type="checkbox"/> Lower boundary of Ap to 100 cm <input type="checkbox"/> All of the argillic <input type="checkbox"/> Upper 50 cm of argillic <input type="checkbox"/> Upper boundary of argillic to root limiting layer <input checked="" type="checkbox"/> Upper boundary of argillic to 100 cm <input type="checkbox"/> Other	<input type="checkbox"/> Sandy-skeletal <input type="checkbox"/> Loamy-skeletal <input type="checkbox"/> Clayey-skeletal <input type="checkbox"/> Sandy <input type="checkbox"/> Loamy <input type="checkbox"/> Clayey	<input type="checkbox"/> Coarse-loamy <input type="checkbox"/> Fine-loamy <input type="checkbox"/> Coarse-silty <input checked="" type="checkbox"/> Fine-silty <input type="checkbox"/> Fine <input type="checkbox"/> Very-fine

**Note: For strongly contrasting classes, indicate the upper class with a "1" and the lower class with a "2". For example: coarse loamy over clayey-skeletal should have a "1" marked next to coarse-loamy, and a 2 marked next to clayey-skeletal.**

**V. Interpretations**

**Score:**

Houses With Basements (3)	Septic Tank Absorption Fields (3)	Local Roads and Streets (3)	Hydric (3)
<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe Reason # (3): <u>2</u>	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe Reason # (3): <u>4</u>	<input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor Reason # (3): <u>4</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Indicator (3): <u>A12</u>