

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



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

Contestant I.D. ACRE Practice Pit 1  
 Site No. \_\_\_\_\_  
 Horizons 6  
 Describe to a depth of 130 cm  
 Nail in third horizon at 39 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)		
-	A	p	-	18	A	8	22	-	-	SIL	10YR	4	3	2	GR	FR	-	-	-	
-	BE	-	-	33	C	8	22	-	-	SIL	10YR	5	3	1	PL	FR	-	-	-	
-	B	t	1	45	C	8	25	-	-	SIL	10YR	5	4	2	SBK	FR	-	-	-	
-	B	t	2	69	G	8	29	-	-	SICL	10YR	5	4	2	SBK	F1	-	-	-	
-	B	t	3	94	C	8	29	-	-	SKL	10YR	5	4	2	SBK	F1	-	Y	-	
2	BC	-	-	130+	-	40	29	-	-	CL	10YR	5	4	1	SBK	F1	-	Y	-	

**II. 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) ___ High <u>X</u> Mod. ___ Low	Limiting Layer (5) ___ High ___ Mod. <u>X</u> Low	<u>0.52</u> gpd/ft <sup>2</sup> (3)  Ref. (2) <u>F5</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)	___ (< 25 cm) ___ (25 to 49 cm) ___ (50 to 99 cm) ___ (100 to 150 cm) <u>X</u> (> 150 cm)

Above 50 cm = moderate

150 x 0.2

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 type="checkbox"/> Colluvium <input type="checkbox"/> Eolian sand <input type="checkbox"/> Glacial outwash <input type="checkbox"/> Human trans. materials <input type="checkbox"/> Lacustrine deposit <input checked="" type="checkbox"/> Loess <input checked="" 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 type="checkbox"/> Outwash plain <input type="checkbox"/> Sand dune <input checked="" 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% 1.0 % slope (not graded)	<input checked="" 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 checked="" type="checkbox"/> Very slow <input type="checkbox"/> Slow <input type="checkbox"/> Medium <input type="checkbox"/> Rapid <input type="checkbox"/> Very rapid backed off for veg	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High

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 type="checkbox"/> Mollic <input checked="" 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 checked="" type="checkbox"/> Alfisol <input type="checkbox"/> Entisol <input type="checkbox"/> Inceptisol <input type="checkbox"/> Mollisol <input type="checkbox"/> Spodosol <input type="checkbox"/> Other	<input type="checkbox"/> Alb <input type="checkbox"/> Aqu <input type="checkbox"/> Fluv <input type="checkbox"/> Orth <input type="checkbox"/> Psamm <input checked="" type="checkbox"/> Ud <input type="checkbox"/> Other	<input type="checkbox"/> Alb <input 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 checked="" 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 checked="" type="checkbox"/> All of the argillic <input checked="" type="checkbox"/> Upper 50 cm of argillic to root limiting layer <input 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 <p><b>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.</b></p>

V. Interpretations

Score:

Houses With Basements (3)	Septic Tank Absorption Fields (3)	Local Roads and Streets (3)	Hydric (3)
<input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Reason # (3): <u>None</u>	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe Reason # (3): <u>6</u>	<input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor Reason # (3): <u>4</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Indicator (3): <u>None</u>