

**REGION IV SOIL  
JUDGING  
TAMU-Kingsville  
Kingsville, TX**

Contestant I.D. \_\_\_\_\_.

Site No. \_\_1\_\_

**MLRA** \_\_\_\_\_

No. horizons \_\_6\_\_

Describe to a depth of \_\_98\_\_ cm Nail in third horizon at \_\_39\_\_ cm

- I. \_\_\_\_\_  
II. \_\_\_\_\_  
III. \_\_\_\_\_  
IV. \_\_\_\_\_  
V. \_\_\_\_\_

Total \_\_\_\_\_

**Properties highlighted in yellow will be given.**

**I. Soil Morphology**

**Score: \_\_\_\_\_**

Horizonation				Boundary		Texture					Color			Structure		Effer- vescence	Redox Features		Score
Pre- fix (2)	Mas- ter (3)	Sub (2)	No (2)	Lower Depth (3)	Dist (2)	Clay films (2)	Sand	Silt	Clay % (2)	Class (4)	Hue (2)	Value (2)	Chrom a (2)	Grade (2)	Shape (2)	(2)	Con/ Dep (2)	Abund (2)	Possible (26)
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**II. Soil Profile Characteristics**

**Score: \_\_\_\_\_**

Hydraulic Conductivity (10)		Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5)	Limiting Layer (5)	____ Very shallow (< 25 cm)	____ Very low (< 7.50 cm)	____ Very shallow (< 25 cm)
____ High	____ High	____ Shallow (25 to 49 cm)	____ Low (7.50 to 14.99 cm)	____ Shallow (25 to 49 cm)
____ Moderate	____ Moderate	____ Moderately deep (50 to 99 cm)	____ Medium (15 to 22.49 cm)	____ Moderately deep (50 to 99 cm)
____ Low	____ Low	____ Deep (100 to 149 cm)	____ High (22.5 to 29.99 cm)	____ Deep (100 to 149 cm)
		____ Very deep (≥ 150 cm)	____ Very high (≥ 30 cm)	____ Very deep (≥ 150 cm)

### III. Site Characteristics

Score: \_\_\_\_\_

Parent Material (5 each)	Landform (5)	Slope Gradient (5)	Hill Slope Profile (5)	Surface Runoff (5)	Erosion Potential (5)
<input type="checkbox"/> Aeolian <input type="checkbox"/> Alluvium <input type="checkbox"/> Residuum <input type="checkbox"/> Fluvio-marine Sed.	<input type="checkbox"/> Drainageway <input type="checkbox"/> Dune <input type="checkbox"/> Depression <input type="checkbox"/> Uplands	<input type="checkbox"/> 0 to 1 % <input checked="" type="checkbox"/> 1 to 3 % <input type="checkbox"/> 3 to 5 % <input type="checkbox"/> 5 to 8 % <input type="checkbox"/> 8 to 12 %	<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

### IV. Soil Classification

Score: \_\_\_\_\_

Epipedon (5)	Subsurface Horizons (5 each)	Other Characteristics (5 each)	Order (5)	Suborder (5)	Great Group (5)	Particle Size Control Section	
<input type="checkbox"/> Mollic <input type="checkbox"/> Umbric <input type="checkbox"/> Ochric <input type="checkbox"/> None	<input type="checkbox"/> Argillic <input type="checkbox"/> Calcic <input type="checkbox"/> Cambic <input type="checkbox"/> Gypsic <input type="checkbox"/> Petrocalcic <input type="checkbox"/> Natric <input type="checkbox"/> Salic <input type="checkbox"/> None	<input type="checkbox"/> Lithologic discontinuity <input type="checkbox"/> Lithic contact <input type="checkbox"/> Slickensides	<input type="checkbox"/> Alfisol <input type="checkbox"/> Entisol <input type="checkbox"/> Inceptisol <input type="checkbox"/> Mollisol <input type="checkbox"/> Vertisol	<input type="checkbox"/> Aqu <input type="checkbox"/> Fluv <input type="checkbox"/> Orth <input type="checkbox"/> Psamm <input type="checkbox"/> Ust	<input type="checkbox"/> Argi <input type="checkbox"/> Hapl <input type="checkbox"/> Natr <input type="checkbox"/> Pale <input type="checkbox"/> Psamm <input type="checkbox"/> Ust(i) <input type="checkbox"/> Epi	Starting depth (5)     Ending depth (5)	Class (5) <input type="checkbox"/> Sandy <input type="checkbox"/> Loamy <input type="checkbox"/> Coarse-Loamy <input type="checkbox"/> Fine-Loamy <input type="checkbox"/> Coarse-Silty <input type="checkbox"/> Fine-Silty <input type="checkbox"/> Clayey <input type="checkbox"/> Fine <input type="checkbox"/> Very-Fine

### V. Interpretations

Score: \_\_\_\_\_

Dwellings with Basement (5)	Septic Tank Absorption Field (5)	Local Roads and Streets (5)
<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): _____

