

Dusty Lane

2023 NACTA Soils Judging Contest
2-Year Division Scorecard

Contestant Name	Key
Contestant Number	D.P. #1 Practice Site #2
College	NKCS

Pit Number	5122 P.F.1
Number of Horizons	4
Profile Depth	152
Nail Depth	41

Part I. Morphology

Part I. Morphology

HORIZON- ATION	BOUNDARY		COLOR		MOIST CONSIST	TEXTURE		STRUCTURE	SOIL FEATURES	SCORE
	Depth (cm)	Dist.	Hue	Value		Chroma	Rock Fragment Modifier			
(2)	(2)	(2)	(2)	(2)	(2)	(2)	(5)	(5)	(2)	(28)
A	14	C	5YR	3	3	FR	-	SL	SBK	C
B	28	A	5YR	4	4	FI	-	SCL	PR	C
B	57	A	5YR	4	4	FI	-	C	PR	C
B	152+	-	7.5YR	6	4	SR	-	-	MA	CW
A	Record lower depth in cm.	Abrupt (A) Clear (C) Gradual (G) Diffuse (D) None (-)				Loose (L) V. Friable (VFR) Friable (FR) Firm (FI) V. Firm (VFI) Ext. Firm (EFI)	None (-) Gravelly (GR) Very Grav. (VGR) Extrem. Grav. (EGR)	S. LS. SL. L. SCL. SC. C. SIC. SICL. CL. SIL. SI	GR PR CO MA SGR WEG	None (-) Concentrations (C) Depletions (D) White (W)

* Apparent texture of dustier not required
* No AWC Below Duffon

Attachment 3 – NACTA SOILS CONTEST SITE CARD (2-Year Division)

This page shall be posted at each pit location at the contest.

SITE NO. 2-1

Describe 6 horizons to a depth of 152 cm.

Red marker is in the third horizon at 132 cm.

This site floods 0 times within 100 years.

Dusty Lane

Part II – Site and Soil Characteristics

1) Local Landform (5)

- Upland
- Upland depression
- Alluvial fan
- Stream terrace
- Floodplain
- Foothills
- Paleoterrace
- Dunes/Interdunes

2) Parent Material (5 pts each correct)

- Alluvium
- Colluvium
- Eolian sand/Eolian loam
- Loess
- Residuum

3) Slope (5)

- Concave
- 0 - < 2%
- 2 - < 5%
- 5 - < 10%
- 10 - < 15%
- 15 - 20%
- > 20%

4) Hillslope Profile Position (5)

- Summit
- Shoulder
- Backslope
- Foothills
- Toeslope
- None (slope < 2%)

5) Surface Runoff (5)

- Negligible
- Very slow
- Slow
- Moderate
- Rapid
- Very rapid

6) Soil Erosion Potential (5)

- Low
- Medium
- High

7) Soil Wetness Class (5)

- Not wet above 150 cm (WD)
- Wet between 50 to 150 cm (MWD)
- Wet between 25 to < 50 cm (SWPD)
- Wet above 25 cm (PD)

8) Effective Soil Depth (5)

- Very shallow (< 25 cm)
- Shallow (25 - < 50 cm)
- Moderately deep (50 - < 100 cm)
- Deep (100 - 150 cm)
- Very deep (> 150 cm)

9) Hydraulic Conductivity – Surface (5)

- Slow
- Moderate
- Rapid

10) Hydraulic Conductivity - Limiting (5)

- Slow
- Moderate
- Rapid

11) Water Retention Difference (5)

- Very low (< 7.5 cm)
- Low (7.5 - < 15 cm)
- Moderate (15 - 22.5 cm)
- High (> 22.5 cm)

Part III – Interpretations

1) Roadfill (5)

- Good
- Fair
- Poor
- Limiting Layer Feature (5)

2) Septic Tank Absorption Fields (5)

- Good
- Fair
- Poor
- Limiting layer Feature (5)

3) Sewage Lagoons (5)

- Good
- Fair
- Poor
- Limiting layer Feature (5)

Tie Breaker (Surface)

% clay 17 % Sand 55

Part II and III Score _____

Total Score _____

Dusty Lane

2023 NACTA Soils Judging Contest
2-Year Division Scorecard

Contestant Name	Kcuy
Contestant Number	D1472 Practice Site #2
College	NRES

Pit Number	2-2
Number of Horizons	4
Profile Depth	152
Nail Depth	47

Part I. Morphology

Part I. Morphology

HORIZON- ATION	BOUNDARY		COLOR			MOIST CONSIST	TEXTURE		STRUCTURE	SOIL FEATURES	SCORE
	Depth (cm)	Dist.	Hue	Value	Chroma		Rock Fragment Modifier	Class			
(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(5)	(5)	(2)	(28)
A	8	A	5YR	3	3	VFR	-	SL	GR	-	
B	26	A	5YR	3	4	FR	-	SCL	SBK	C	
B	66	C	-	-	-	SR	-	-	MA	CW	
B	119	C	5YR	5	2	FI	-	SICL*	SBK	C	
B	152	-	5YR	4	4	FR	-	SCL*	SBK	C	
A	Record lower depth in cm.	Abrupt (A) Clear (C) Gradual (G) Diffuse (D) None (-)				Loose (L) Friable (VFR) Friable (FR) Firm (F) V. Firm (VFI) Ext. Firm (EFT)	None (-) Gravelly (GR) Very Grav. (VGR) Extrem. Grav. (EGR)	S. LS, SL, L, SCL, SC, C, SIC, SICL, CL, SIL, SI	GR SBK ABK PL WEG	PR CO MA SGR	None (-) Concentrations (C) Depletions (D) White (W)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

* = apparent texture
= AWC below duf.p.m = 0

Attachment 3 – NACTA SOILS CONTEST SITE CARD (2-Year Division)

This page shall be posted at each pit location at the contest.

SITE NO. 2-2

Describe 5 horizons to a depth of 152 cm.

Red marker is in the third horizon at 47 cm.

This site floods 0 times within 100 years.

Dusty Lane

Part II – Site and Soil Characteristics

1) Local Landform (5)

- Upland
- Upland depression
- Alluvial fan
- Stream terrace
- Floodplain
- Footslope
- Palcoterrace
- Dunes/Interdunes

2) Parent Material (5 pts each correct)

- Alluvium
- Colluvium
- Eolian sand/Eolian loam
- Loess
- Residuum

3) Slope (5)

- Concave
- 0 - < 2%
- 2 - < 5%
- 5 - < 10%
- 10 - < 15%
- 15 - 20%
- > 20%

4) Hillslope Profile Position (5)

- Summit
- Shoulder
- Backslope
- Footslope
- Toeslope
- None (slope < 2%)

5) Surface Ruoff (5)

- Negligible
- Very slow
- Slow
- Moderate
- Rapid
- Very rapid

6) Soil Erosion Potential (5)

- Low
- Medium
- High

7) Soil Wetness Class (5)

- Not wet above 150 cm (WD)
- Wet between 50 to 150 cm (MWD) *(IF H24 has RmF - Dept)*
- Wet between 25 to < 50 cm (SWPD)
- Wet above 25 cm (PD)

8) Effective Soil Depth (5)

- Very shallow (< 25 cm)
- Shallow (25 - < 50 cm)
- Moderately deep (50 - < 100 cm)
- Deep (100 - 150 cm)
- Very deep (> 150 cm)

9) Hydraulic Conductivity – Surface (5)

- Slow
- Moderate
- Rapid

10) Hydraulic Conductivity - Limiting (5)

- Slow *(Very slow: diff. sp. 17)*
- Moderate
- Rapid

11) Water Retention Difference (5)

- Very low (< 7.5 cm)
- Low (7.5 - < 15 cm)
- Moderate (15 - 22.5 cm)
- High (> 22.5 cm)

Part III – Interpretations

1) Roadfill (5)

- Good
- Fair
- Poor
- Limiting layer* Feature (5)

2) Septic Tank Absorption Fields (5)

- Good
- Fair
- Poor
- Limiting layer* Feature (5)

3) Sewage Lagoons (5)

- Good
- Fair
- Poor
- Limiting layer* Feature (5)

Tie Breaker (Surface)

% clay 18 % Sand 66

Part II and III Score _____

Total Score _____

Dusty Lane

2023 NACTA Soils Judging Contest
2-Year Division Scorecard

Contestant Name	Key
Contestant Number	Pit # 2 Practice Site # 2
College	NRES

Pit Number	2-3
Number of Horizons	5
Profile Depth	152
Nail Depth	67

Part I. Morphology

Part I. Morphology

HORIZON- ATION	BOUNDARY		COLOR		MOIST CONSIST	TEXTURE		STRUCTURE	SOIL FEATURES	SCORE	
	Depth (cm)	Dist.	Hue	Value		Chroma	Rock Fragment Modifier				Class
(2)	(2)	(2)	(2)	(2)	(2)	(2)	(5)	(5)	(2)	(28)	
A	18	G	7.5YR	3	3	FR	-	SL	SBK, C		
B	54	C	5YR	3	4	FR	-	SCL	SBK, C		
B	83	C	5YR	4	4	FI	-	SIC	PR, C		
B	121	G	-	-	-	SR	-	-	MA, C		
B	152+	-	5YR	4	3	VFI	-	SCL*	HBK, CW		
A	Record lower depth in cm.	Abrupt (A) Clear (C) Gradual (G) Diffuse (D) None (-)				Loose (L) V. Friable (VFR) Friable (FR) Firm (FI) V. Firm (VFI) Ext. Firm (EFI)	None (-) Gravelly (GR) Very Grav. (VGR) Extrem. Grav. (EGR)	S, LS, SL, L, SCL, SC, C, SIC, SICL, CL, SIL, SI	GR SBK ABK PL WEG	PR CO MA SGR	None (-) Concentrations (C) Depletions (D) White (W)

* Apparent texture of duplicate not required
* No AWC below horizon

Attachment 3 – NACTA SOILS CONTEST SITE CARD (2-Year Division)

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SITE NO. 2-3

Describe 5 horizons to a depth of 152 cm.

Red marker is in the third horizon at 67 cm.

This site floods 0 times within 100 years.

Dusty Lane

Part II – Site and Soil Characteristics

1) Local Landform (5)

- Upland
- Upland depression
- Alluvial fan
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- Floodplain
- Footslope
- Paleoterrace
- Dunes/Interdunes

2) Parent Material (5 pts each correct)

- Alluvium
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3) Slope (5)

- Concave
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4) Hillslope Profile Position (5)

- Summit
- Shoulder
- Backslope
- Footslope
- Toeslope
- None (slope < 2%)

5) Surface Ruoff (5)

- Negligible
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- Moderate
- Rapid
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Tie Breaker (Surface)

% clay 16 % Sand 55

Part II and III Score _____

Total Score _____