

PEDON 18

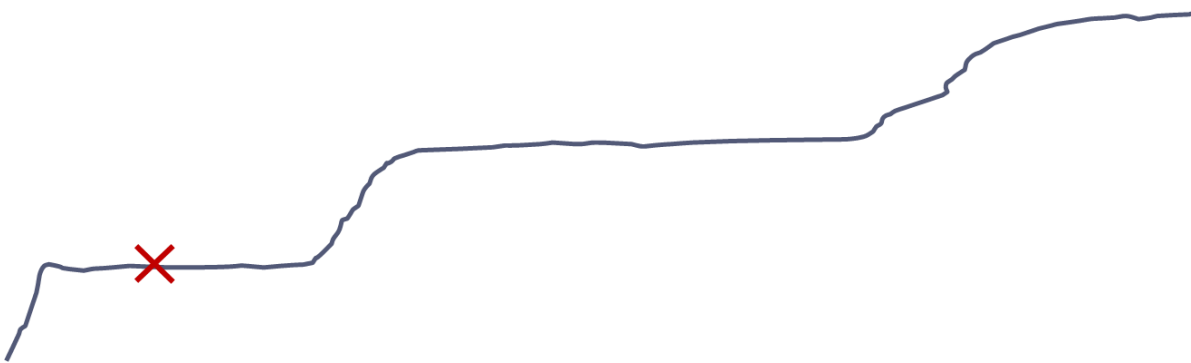
SITE INFORMATION

This soil is found about 100 m inland from the Pacific Ocean just northwest of Santa Cruz, California. It is currently in pasture but has been used for intensive agriculture (tilled vegetable crops) in the last decade. Slope is 0.5% and vegetation is mainly annual grasses, with good vegetative cover. This site has no ponding or flooding.

LANDFORM

This soil has formed on an uplifted marine terrace. This terrace is the first above current sea level and is about 60,000 years old. Parent material is sandy marine deposits.

HILLSLOPE POSITION



SOIL MOISTURE AND TEMPERATURE REGIMES

The site has xeric soil moisture regime and mesic soil temperature regime.

SOIL PIT INFORMATION

Oriented clay bridging of sand grains is visible in horizons 4 and 5. Clay is low plasticity. Sand is dominantly medium throughout. The 3rd horizon is a transitional horizon. The 4th and 5th horizons have pedogenic sodium.

CHARACTERIZATION DATA

Horizon	BS %	Organic C %	Ex Na % (ESP)
1	88	2.1	2
2	92	2.0	4
3	97	1.6	7
4	100	0.7	17
5	100	0.6	15

PEDON 18

SITE IMAGE



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PROFILE IMAGE



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SCORECARD

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

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

Contestant: _____
 School: _____
 Pedon Number: PRACTICE 18

1. Soil Morphology

Horizonation				Boundary		Texture				Color			Structure		Cons.	Soil Features		Score (35)			
Master Pre. (5)	Master Let. (5)	Sub. (5)	No. (5)	Dep. (cm)	Dist.	Sand (%)	Silt (%)	Clay (%) (5)	CF (%) (5)	CF mod (5)	Class (5)	Hue	Value	Chr.	Grade	Shape	Moist Strength		Redox Depl.	Redox Conc.	Eff.
				24	C	88	5	0	0			10YR	3	3	1	GR	VCR	-	-	-	-
				58	G	82	7	0	0			10YR	4	3	1	SRL	VCR	-	-	-	-
				108	C	76	8	0	0			10YR	5	3	1	SRL	FR	-	-	-	-
				127	G	72	6	0	0			7.5YR	4	4	1	SOL	F1	-	-	-	-
				145+	-	78	8	0	0			7.5YR	4	6	1	SRL	FR	-	-	-	-

Score:

PEDON 18

2. Soil Profile Characteristics

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

Score: _____

3. Site Characteristics

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
UNCONSOLIDATED MARINE SEDIMENTS	MARINE TERRACE	0.5%	<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

Score: _____

4. Soil Classification

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

Score: _____

5. Interpretations

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	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe
Reason # (2): _____	Reason # (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____

Score: _____