

TRENCH 2, BARHAM RANCH,  
 TRENCH LOG LITHOLOGIC DESCRIPTIONS

SOIL UNITS

- S Chamise Series  
 The soils in the vicinity of trench site II are of the Chamise Series, specifically, Chamise shaly loam. The terrain is gently to moderately sloping (2 to 9 percent). The land is covered with scattered oak and annual grasses and is used for range. The soils develop on elevated terrace remnants consisting of stream-layed silts and sands with abundant rounded fragments of Monterey shale. The trench site includes a sag depression, which is at the bottom of a swale and void of vegetation.
- S5(A) Colluvium (or disturbed sag pond deposits?); Gray (10YR5/1) when dry and dark gray (10YR4/1) when moist, silty, fine-grained sand with some clay; easily friable; moist; sparse tubular pores, no bedding; fine roots but no vegetation on ground surface within sag pond; clear, wavy boundary.
- S4(A) Colluvium; light brownish gray (10YR6/2) when dry, gray (10YR5/1) when moist, silty, fine-grained sand with occasional small, rounded shale pebbles; fine and medium granular structure; easily friable; slightly moist; fine tubular pores from roots; very fine and fine roots; common worm borings and few filled gopher holes; abrupt, smooth basal boundary.
- S3(A) Colluvium; grayish brown (10YR5/2) when moist, fine-grained sandy silt with slight clay binder; slightly friable (when dry); slightly moist; numerous clay-lined tubular pores; occasional decomposed roots; mostly abrupt, but often clear wavy boundary.
- S2(B) B horizon; light olive gray (5Y6/2) when dry, olive gray (5Y4/2) when moist, very fine-grained sandy clay with few rounded pebbles to small cobbles of shale; weak, medium prismatic peds (1/2" to 1-1/2") with occasional platy ped structure at base; continuous, dark olive gray (5Y3/2) clay skins; moist; sticky and plastic; occasional very fine roots, clear to gradual, smooth to wavy boundary.
- S1(C) Weathered Paso Robles; pale brown (10YR 6/3) when moist, clayey silt; easily friable; well developed prismatic peds (1/2" to 1") which separate easily, many are lined with olive gray (5Y4/2) clay films, also, few white caliche linings on peds; moist; occasional very fine roots; clear to gradual boundary.

LITHOLOGIC UNITS

- 1 Organic Sand  
 The organic sand found in the trench is similar to those in Log 1, Log 2 and Log 3. It is composed of fine-grained sand and silt with occasional pebbles, but clay linings are not present.
- ID Olive yellow (5Y6/6) oxidized to various shades of red, pebbly, fine-grained sand; slightly friable, moderately cemented; dry to damp; abrupt boundaries.
- IC Light yellowish brown (10YR6/4) silty, fine-grained sand with occasional pebbles and cobbles; friable; moist; in some places vertical fractures almost prismatic in structure, which have clay coatings; some tubular pores; many fine roots; clear boundary.
- IC<sub>1</sub> Pale brown (10YR6/3) fine- to medium-grained sand.
- IC<sub>2</sub> Light yellow brown (10YR6/4) silty sand grading to sandy silt with occasional pebbles; massive.
- IB Brown (10YR5/3) to light brownish gray (10YR6/2) sandy and clayey silt with abundant pebbles and cobbles, often brown when clayey, occasional pockets of medium-grained sand; pebbles and cobbles consist of shale, chert, chalcedony and fresh to deeply weathered sand-stone; damp; vague horizontal imbrication of pebbles, some vertical fractures with clay linings; abrupt erosional boundary.
- IB<sub>1</sub> Medium-grained sand.
- IA Pale yellow (2.5Y7/4) silty, very fine-grained sand with few rounded pebbles to small cobbles; some pebbly sand beds; some vertical fractures with clay linings; easily friable; moist.

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

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LITHOLOGIC DESCRIPTIONS  
 BARHAM RANCH, TRENCH 2

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PLATE 3  
 SHEET 2