### TRENCH 1, BARHAM RANCH,
TRENCH LOG LITHOLOGIC DESCRIPTIONS

#### LITHOLOGIC UNITS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>11.1</td>
<td>Older Terrace Deposits</td>
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<tr>
<td>11G</td>
<td>Olive gray (5Y6/1) to very dark gray (5Y3/1) mottled with light olive gray (5Y6/2), sandy grayish brown (7.5YR 3/3), and gray (7.5Y 3/1) with lenses of pebbles consisting of rounded yellow-brown and red-brown clasts, some chert and chalcedony clasts; occasional stringers of white calcite (10W/16 to 10W/1); stiff but will crumble between fingers; damp to slightly moist; massive; breaks into irregular, hasty fragments; rare fine roots are decomposed and tubules sometimes lived with calcite.</td>
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<tr>
<td>11F</td>
<td>Olive gray (5Y6/4) with 5Y5/3 when moist, interbedded fine to medium-grained sand and pebbles (7.5YR 3/3 to 7.5YR 3/4) with lenses of pebbles consisting of angular yellow-brown clasts and red-brown chert clasts; slightly cemented, slightly friable; moist; subhorizontal bedding with lateral variations in sand and gravel content.</td>
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<tr>
<td>11E</td>
<td>Grayish brown (2.5Y5/2) clayey silt; stiff but will crumble between fingers. Moist, massive.</td>
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<td>11D</td>
<td>Pale brown (5YR 3/3) medium-to-coarse-grained sandy gravel with red (10YR 4/4) clay coating on sand grains and clasts that act as a binder, some small pockets and lenses of clean gravels with good bedding and pebble fabrics (similar lithology to 1C).</td>
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<tr>
<td>11C</td>
<td>Good bedding within clean gravels, some fluctuation of pebbles.</td>
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<tr>
<td>11B</td>
<td>Brownish yellow (10YR 5/4) clayey silt and fine to medium-grained sand with occasional gravel clasts; moderately stiff; moist; irregular, near vertical fractures stained with manganese and iron, scattered very fine and fine roots (similar lithology to 1C).</td>
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<tr>
<td>11A</td>
<td>Brownish yellow (10YR 4/4) mottled with brown (5YR 3/3), clayey silt and fine-to-medium-grained sandy gravel with occasional gravel clasts; moderately stiff; moist; irregular near vertical fractures stained with manganese and iron, scattered very fine and fine roots.</td>
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#### Pass Robles Formation

The Pass Robles Formation found in the trench is similar in lithology to the Pass Robles mapped in the vicinity of the trench. It primarily consists of fine-grained sand and silt which are often clayey, but also includes beds of gravel derived from Monterey shale. Weave deeply weathered, clastic, coarse gravelly pale brown clasts are common. Large blocks and pebbles of Monterey shale are also present in the trench fill.

**SOIL UNITS**

5 Chama Series

The soils in the vicinity of trench site one are of the Chama Series, specifically, Chama black and Chama black clay loams. The terrain is gently to moderately sloping (12 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-laid sediments and sands with abundant rounded fragments of Monterey shale.

5(A) Colluvium; brown (7.5YR 3/2) siltly sand with abundant pebbles (10YR 4/7) consisting of silicious shale and chert; no cementation, easily friable; slightly moist at top becoming moist toward bottom; abundant worn borings in gopher holes, numerous very fine and fine roots; diffuse, irregular boundary.

5(A) Colluvium; reddish brown (5Y4/4); as in 5G; abrupt wavy boundary.

5(A) Colluvium; brown (7.5YR 3/2) gravely medium-grained sand with some silt 5Y; moist to wet; similar to 5G, but without bioturbation.

5(A) Colluvium, very pale brown (10YR 4/2) colluvium with reddish gray (7.5YR 2/1) silt with numerous pebbles; very porous with vascular pores; dry to slightly damp; abrupt to clear, slightly to wavy boundary.

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