



Geologic Units

af	Artificial fill
Qs	Marine sediments, offshore; includes unconsolidated marine sands and silts on the continental shelf
Qsw	Sand wave deposits, offshore dune-like sand deposits typically less than 50 cm thick mobilized by large storm surges
Qal	Alluvium; unconsolidated gravel, sand, silt, and clay
Qc	Colluvium; unconsolidated poorly sorted gravel, sand, silt, and clay produced by hillside processes
Qls	Landslide deposits; arrows show direction of inferred movement
Qe	Eolian deposits; active and inactive sand dunes
Qf	Fluvial terrace deposits; unconsolidated gravel, sand, silt, and clay deposited in stream valleys
Qcs	Fluvial channel deposits, offshore; generally overlain by transgressive marine sand and silt
Qm	Marine terrace deposits; unconsolidated gravel, sand, silt, and clay commonly overlain by alluvial fan and colluvial deposits
Qoa	Older alluvium; poorly consolidated silts, claystone, and conglomerate

Geologic Units (continued)

Unconformity	Edna Member of the Piapo Formation; fine- to coarse-grained sandstone, locally siltstone
Unconformity	Miguilto Member of the Piapo Formation; brown claystone and siltstone
Unconformity	Monterey Formation; chert with siliceous and dolomitic siltstone, silty sandstone, diatomite, and opaline and porcellaneous shale
Progressive unconformity	Obispo Formation, undifferentiated
Unconformity	Obispo Formation; lufuaceous and diatomaceous sandstone and silty sandstone
Unconformity	Obispo Formation; diabase
Unconformity	Obispo Formation; resistant zirconitized silt
Unconformity	Rincon Formation; dark brown siltstone, and silty claystone
Unconformity	Vaqueros Sandstone; conglomerate and sandstone, with local coquina horizon
Unconformity	Undifferentiated well bedded brown fine- to coarse-grained arkosic to lithic sandstone with shale
Faulted	Franciscan Complex, undifferentiated
Faulted	Franciscan Complex rocks, melange; sheared shale, mudstone and siltstone with nodules of graywacke, schist, conglomerate, metavolcanic rocks, and green, white, or red chert
Faulted	Franciscan Complex, meta-volcanic rocks
Faulted	Franciscan Complex, ophiolite
Faulted	Serpentine

Symbols

- Contact: solid where well located, dashed where approximate, dotted where concealed, queried where inferred
- Syncline: solid where well located, dashed where approximate, dotted where concealed, queried where inferred
- Anticline: solid where well located, dashed where approximate, dotted where concealed, queried where inferred
- Fault: Tertiary age or older (inactive); solid where well located, dashed where approximate, dotted where concealed, queried where inferred
- Fault: slip rate < 1 mm/yr; solid where well located, dashed where approximate, dotted where concealed, queried where inferred
- Fault: slip rate ≥ 1 mm/yr; generally covered but shown as solid where well located, dashed where approximate, queried where inferred
- Lineament: solid where well expressed, dashed where moderately expressed
- Measured bedding orientation
- Picks of faults and fold axes interpreted from shallow seismic survey lines

**PLATE 1
GEOLOGIC MAP OF THE SHORELINE
FAULT ZONE STUDY AREA**

DATA SOURCES AND NOTES:
 - 2010 Project DEM image is shown. This DEM includes 1 m multi-beam bathymetry data (PG&E, 2010), 1 m near-shore LIDAR topography data (PG&E, 2010) and 5 m SLO County InSAR data (SLO County, 2008)
 - Map Projection: UTM Zone 10N, NAD 1983, Map Scale: 1:35,000

Seismicity 1987 to 2008 (Hawbeck, 2010)

Depth (km)	Magnitude
0.0 to 1.9	0.0 to 0.9
2.0 to 3.9	1.0 to 1.9
4.0 to 5.9	2.0 to 2.9
6.0 to 7.9	3.0 to 3.5
8.0 to 9.9	
10.0 to 11.9	
12.0 to 13.9	
14.0 +	

Scale:
 0 0.25 0.5 1 Miles
 0 0.25 0.5 1 Kilometers

Pacific Gas and Electric Company

