

California Geological Survey Earthquake Zones of Required Investigation San Gregorio and La Honda Quadrangles

This Map Shows Alquist-Priolo Earthquake Fault Zones
Seismic Hazard Zones Have Not Been Prepared For The San Gregorio and La Honda Quadrangles
Map Preparation By Rebecca Marvail

This map shows the location of Alquist-Priolo (AP) Earthquake Fault Zones, referred to here as Earthquake Zones of Required Investigation. The Geographic Information System (GIS) digital files of these regulatory zones released by the California Geological Survey (CGS) are the "Official Maps." GIS files are available at the CGS website <https://maps.conservation.ca.gov/gis/information/whouse/>. These zones will assist cities and counties in fulfilling their responsibilities for protecting the public from the effects of surface fault rupture and earthquake-triggered ground failure as required by the AP Earthquake Fault Zoning Act (Public Resources Code Sections 2621-2630) and the Seismic Hazards Mapping Act (Public Resources Code Sections 2699-2699.6). For information regarding the general approach and recommended methods for preparing these zones, see California Geological Survey (CGS) Special Publication 42, *Earthquake Fault Zones, a Guide for Government Agencies, Property Owners/Developers, and*

Geoscience Practitioners for Assessing Fault Rupture Hazards in California, Appendix C, and Special Publication 119, Recommended Criteria for Delineating Seismic Hazard Zones in California.

For information regarding the scope and recommended methods to be used in conducting required site investigations refer to CGS Special Publication 42, and CGS Special Publication 117A, *Guidelines for Evaluating and Mitigating Seismic Hazards in California.* For a general description of the AP and Seismic Hazards Mapping Acts, the zoning programs, and related information, please refer to the website at <https://www.conservation.ca.gov/cgs/shp/>.

MAP EXPLANATION EARTHQUAKE FAULT ZONES

- Earthquake Fault Zones**
Zone boundaries define the zone encompassing active faults that constitute a potential hazard to structures from surface faulting or fault creep such that avoidance as described in Public Resources Code Section 2621.5(a) would be required.
- Active Fault Traces**
Faults considered to have been active during Holocene time and to have potential for surface rupture. Solid Line in Black where Accurately Located; Long Dash in Black where Approximately Located; Short Dash in Black where Inferred; Dotted Line in Black where Concealed; Query (?) indicates additional uncertainty.

ADDITIONAL INFORMATION

For additional information on the zones of required investigation presented on this map, the data and methodology used to prepare them, and additional references consulted, please refer to the following:
The San Gregorio Fault Zone in the Montara Mountain, Half Moon Bay, San Gregorio, La Honda, Pigeon Point, Franklin Point, and Point Año Nuevo 7.5-Minute Quadrangles, San Mateo and Santa Cruz counties, California. California Geological Survey, Fault Evaluation Report FER-275. https://www.conservation.ca.gov/gis/Documents/Publications/FER_FER_275_SAN_GREGORIO_a11y.pdf
For more information on the Alquist-Priolo Earthquake Fault Zoning Act please refer to: <https://www.conservation.ca.gov/cgs/alquist-priolo/>

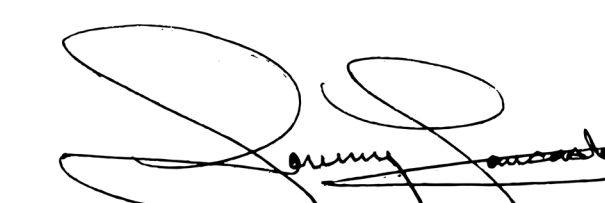
SAN GREGORIO AND LA HONDA QUADRANGLES

EARTHQUAKE FAULT ZONES

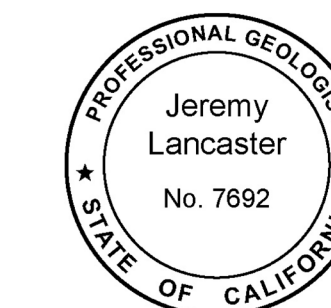
Delineated in compliance with Chapter 7.5,
Division 2 of the California Public Resources Code
(Alquist-Priolo Earthquake Fault Zoning Act)

REVISED OFFICIAL MAP

Released: November 20, 2025



STATE GEOLOGIST



IMPORTANT

PLEASE NOTE THE FOLLOWING FOR ZONES SHOWN ON THIS MAP

- This map may not show all faults that have the potential for surface fault rupture, either within the Earthquake Fault Zones or outside their boundaries. Additionally, this map may not show all areas that have the potential for liquefaction, landsliding, strong earthquake ground shaking or other earthquake and geologic hazards. Also, a single earthquake capable of causing liquefaction or triggering landslides will not uniformly affect the entire area zoned.
- Boundaries of Earthquake Fault Zones, if included on this map, are based on interpreted Holocene-active fault traces.
- The identification and location of these faults are based on the best available data. However, the quality of data used is varied. Traces have been depicted as accurately as possible at a map scale of 1:24,000.
- Liquefaction zones may also contain areas susceptible to the effects of earthquake-induced landslides. This situation typically exists at or near the toes of existing landslides, downslope from rockfall or debris flow source areas, or adjacent to steep stream banks.
- Landslide zones on this map were determined, in part, by adapting methods first developed by the U.S. Geological Survey (USGS). Landslide hazard maps prepared by the USGS typically use experimental approaches to assess earthquake-induced and other types of landslide hazards. Although aspects of these new methodologies may be incorporated in future CGS seismic hazard zone maps, USGS maps should not be used as substitutes for these Official Seismic Hazard Zones maps.
- CGS base map standards provide that 90 percent of cultural features be located within 40 feet (horizontal accuracy) at the scale of this map. The identification and location of liquefaction and earthquake-induced landslides zones are based on available data. However, the quality of data used is varied. The zone boundaries depicted have been drawn as accurately as possible at this scale.
- Information on this map is not sufficient to serve as a substitute for the geologic and geotechnical site investigations required under Chapters 7.5 and 7.8 of Division 2 of the California Public Resources Code.
- Seismic Hazard Zones identified on this map may include developed land where delineated hazards have already been mitigated to city or county standards. Check with your local building/planning department for information regarding the location of such mitigated areas.
- DISCLAIMER:** The State of California and the Department of Conservation make no representations or warranties regarding the accuracy of the data from which these maps were derived. Neither the State nor the Department shall be liable under any circumstances for any direct, indirect, special, incidental or consequential damages with respect to any claim by any user or any third party on account of or arising from the use of this map.

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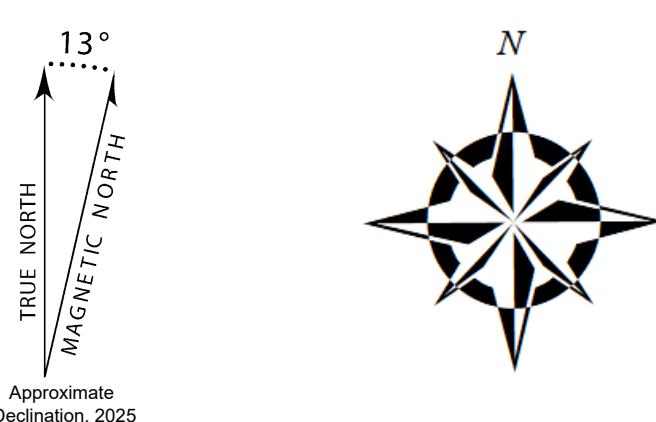
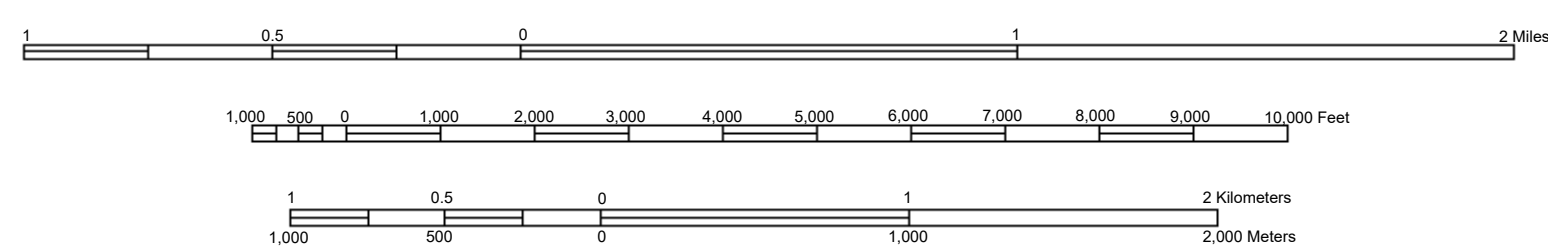
AREA NOT EVALUATED FOR
LIQUEFACTION OR LANDSLIDES



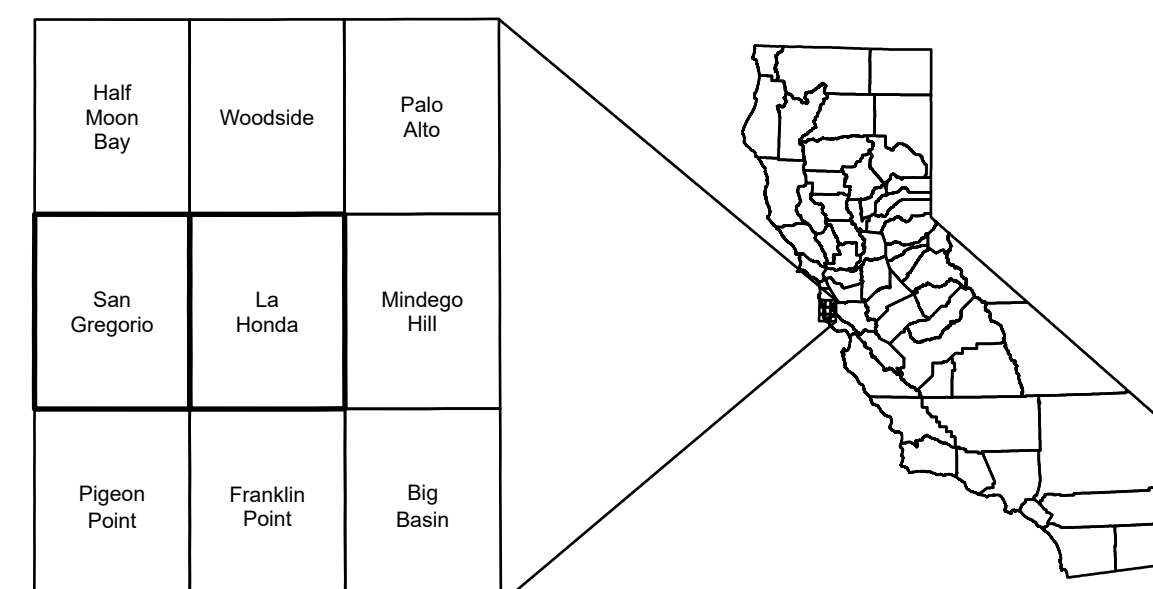
Study area defined by USGS quadrangle boundaries using NAD 27, represented by the visible map extent. Data are maintained and distributed in California Albers (meters), NAD 83, [EPSG:3310] as shown by tics and coordinates.

Base Map: ESRI World Topographic, 2021.

Scale 1:24,000



Citation for this Map: California Geological Survey, Earthquake Fault Zones (2025), San Gregorio and La Honda 7.5-minute Quadrangles: Map of Earthquake Zones of Required Investigation, scale 1:24,000; <https://maps.conservation.ca.gov/cgs/information/whouse/>. Accessed [day] [month] [year]



AUTHORSHIP CREDITS

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Lead Author – Tyler Ladinsky, Engineering Geologist



Date: November 20, 2025

Work in Responsible Charge: Data acquisition and modeling, high-resolution (lidar) elevation analysis and aerial imagery interpretation, compilation and review of previously mapped faults and site investigations, field verification, and recommendations for earthquake fault zones.

Project Manager – Judith Zachariasen, Senior Engineering Geologist



Date: November 20, 2025

Work in Responsible Charge: Validation of mapping process and pre-release fault hazard zone map review.

Program Manager – Timothy Dawson, Supervising Engineering Geologist



Date: November 20, 2025

Work in Responsible Charge: Technical review and approval.



State Geologist – Jeremy Lancaster, Professional Geologist



Date: November 20, 2025

Work in Responsible Charge: Technical review and approval.