

COASTAL SEISMIC HAZARD ASSESSMENT

Site Vulnerability Technical Log

Doc ID: CSHA-2024-001

LOCATION NAME

Sample Coastal Site A

COORDINATES

34.0522 N, 118.2437 W

ASSESSMENT DATE

October 24, 2023

GEOLOGIST

Dr. Aris Thorne

Hazard Parameter	Current Rating	Mitigation Requirements / Notes
Ground Motion (PGA)	High (>0.4g)	Reinforced concrete foundation mandatory; exceedance probability 10% in 50 years.
Liquefaction Potential	Moderate	Deep soil mixing or vibro-replacement recommended for sandy layers.
Tsunami Inundation	High Risk Zone	Elevation minimum +12m above MSL. Vertical evacuation plan required.
Slope Instability	Low	Minimal gradient; stable bedrock at -4m depth.

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Coseismic Subsidence	Potential (0.5m)	Account for relative sea-level rise in long-term structural integrity.

EXECUTIVE SUMMARY & RECOMMENDATIONS

Preliminary assessment indicates high seismic risk driven by proximity to the offshore fault system. Site-specific response spectra analysis is required before structural design phase.
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