## Site Resilience Planning Map

## Providence Seaside Hospital Seaside, Oregon

This resilience planning map shows the location of Providence Seaside Hospital and highlights critical facilities in its immediate surroundings. It can be used for Cascadia earthquake and tsunami planning **before** the earthquake occurs and for other disaster planning purposes. Due to the hospital's proximity to the Cascadia fault, the hospital is in a high seismic hazard region and is expected to experience prolonged strong shaking. The hospital is in the Medium, Large, Extra Large, and Extra Extra Large (XXL) tsunami zones. The worst-case scenario is the XXL zone, which defines the tsunami evacuation zone.

For life safety purposes, all people located in the tsunami evacuation zone are urged to move quickly to high ground above the tsunami evacuation zone. Based on the worst-case scenario, the tsunami is expected to arrive at the hospital approximately 30 minutes after the onset of earthquake shaking. The lowest elevation of the main hospital is on the west side closest to the Pacific Ocean and is approximately 28 ft. The maximum tsunami flow depth is approximately 60 ft on the west side of the hospital, and about 40 ft on the east side. The maximum tsunami runup elevation behind the hospital is approximately 85 ft.

In 2017, Seaside School District commissioned a site-specific tsunami analysis based on the DOGAMI-generated worst-case scenario (XXL) (Y. Joseph Zhang, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, Va., unpublished report to Seaside School District, Feb. 2017, Site specific simulation for Seaside, OR). Seaside School District granted DOGAMI permission to use data from the report for this map; the data are labeled on the map as the "landscape friction XXL line." This line is considered to be the most accurate worst-case tsunami scenario.

Providence Seaside should *not* evacuate from a "distant tsunami," which is generated from an earthquake far away from the Oregon coast, such as Alaska or Japan.





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