

# Flood Retention Facility – Expandable (FRE)



FRE Maximum Inundation Extent

## The project would also include:

- Spillway, flip bucket, and stilling basin for the flood retention facility
- Bypass road for Forest Road 1000
- On-site or nearby rock quarry, concrete batch plant, and aggregate mining
- Tree and vegetation removal
- New power line

The project includes a proposed flood retention facility and associated temporary reservoir near Pe Ell. The facility would only store floodwater during major floods and then slowly release retained floodwater when it is safe to do so and over a period of time.

Most of the time, the Chehalis River would flow through the structure's low-level outlet works at its normal rate of flow and volume—and allow fish to pass both upstream and downstream.

The proposed flood retention facility is considered to be expandable because it would be built with a foundation and hydraulic structure extents capable of supporting the future construction of a larger structure and reservoir that could expand the water storage from 65,000 acre-feet to up to 130,000 acre-feet. This expansion may or may not occur, but if pursued would be subject to a separate environmental review and permitting process.

<i>Facility Length</i>	1,220 ft
<i>Facility Height</i>	254 ft
<i>Capacity</i>	65,000 acre-ft
<i>River Inundation Length</i>	6.2 miles for a 100-year flood