

Portland to Milwaukie Light Rail  
Willamette River Bridge Study

Screening “Many to Some”

**Screening Criteria Category: Engineering-Fundamentals**

**Screening Criteria Name: Seismic Performance**

*Brief Description of Importance:*

All bridge options considered for this study will be design to withstand the earthquake without jeopardizing their functionality. However, different bridge alternatives considered, have different level of seismic performance, which will impact their cost. For example, the stiffest and heaviest bridge would have the worst seismic performance. The lightest and most flexible bridge, will have the best seismic performance. If all other factors were considered equal, the bridge with the best seismic performance would be considered the best.

**Metrics:**

Seismic Performance

**Evaluation Methodology:**

Best Score = Best seismic performance

**Scoring:**

Blended numeric score from 1-15. 15= best, 1= worst