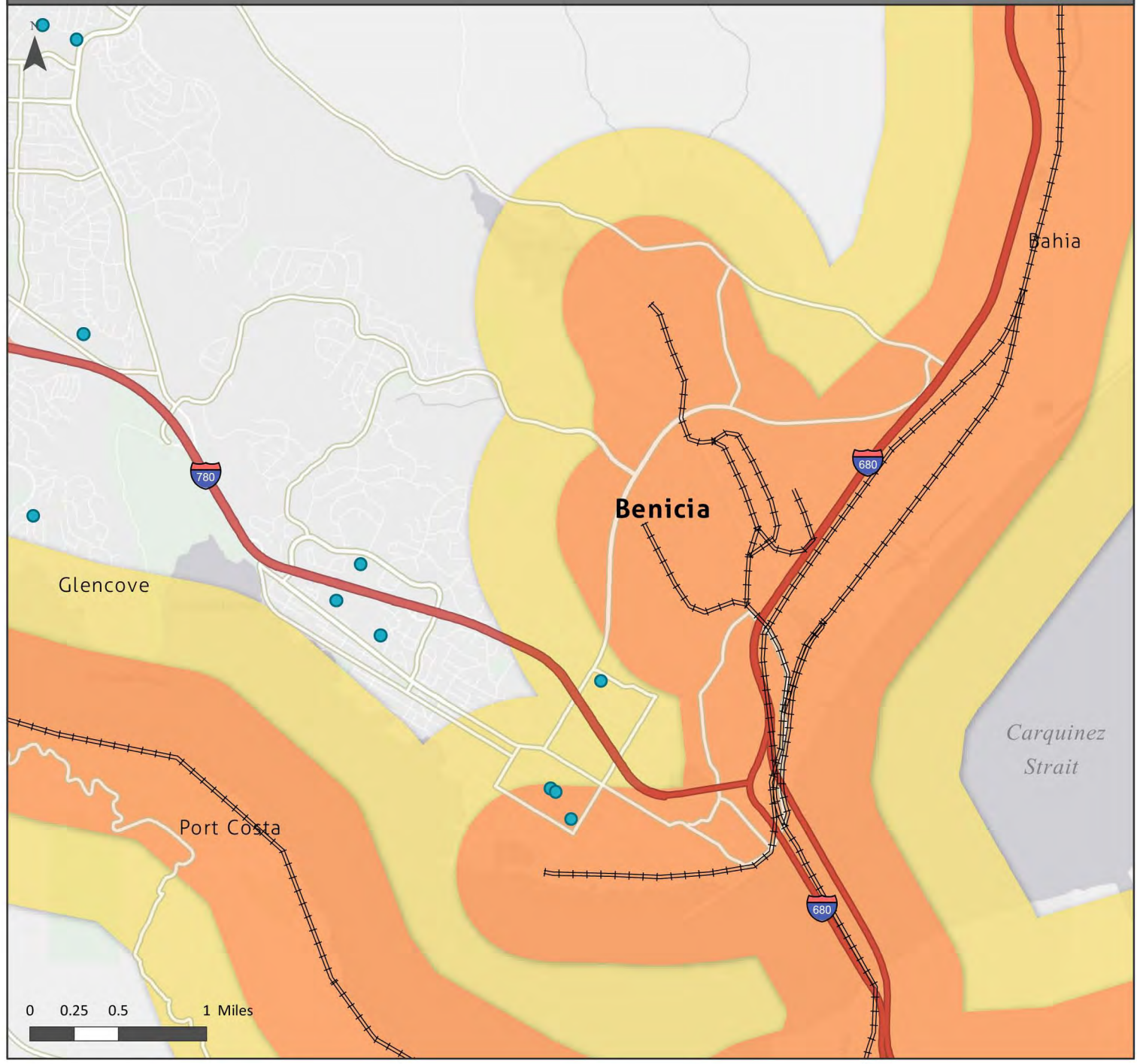


# Crude Oil Train Derailment Risk Zones in Benicia, CA

## Benicia Population at Risk\*

0.5 mile	5,308
1.0 mile	12,436

\*The number of residents of the City of Benicia living within these impact zones



## Legend

- Schools (K - 12)
- ⚡ Active rail lines
- 0.5 mile US DOT Evacuation Zone for Crude Oil Train Derailments
- 1.0 mile US DOT Potential Impact Zone in case of Crude Oil Train Fire

## Sources:

**Population (2010):** Estimates based on US Census 2010 Block Centroid Populations. Estimates were calculated within buffers located within US Census "Place" boundary (not shown).

**Schools:** <http://portal.gis.ca.gov/geoportal/catalog/main/home.page>

**NTAD Rail Lines:** 2013 National Transportation Atlas Database [http://www.rita.dot.gov/bts/sites/rita.dot.gov/bts/files/publications/national\\_transportation\\_atlas\\_database/2013/polyline.html](http://www.rita.dot.gov/bts/sites/rita.dot.gov/bts/files/publications/national_transportation_atlas_database/2013/polyline.html)

**Rail Line Buffers:** Zones indicating risks around rail lines in the event of crude oil tanker car derailments, based on the US Department of Transportation Emergency Response Guidebook used throughout North America. This guidebook recommends a standard evacuation zone of 800 meters (0.5 miles) for accidents involving railcars filled with flammable liquids and gases and an isolation zone of 1600 meters (1 mile) in all directions around any railcar filled with those materials if they are on fire. <http://phmsa.dot.gov/staticfiles/PHMSA/DownloadableFiles/Files/Hazmat/ERG2012.pdf>

