

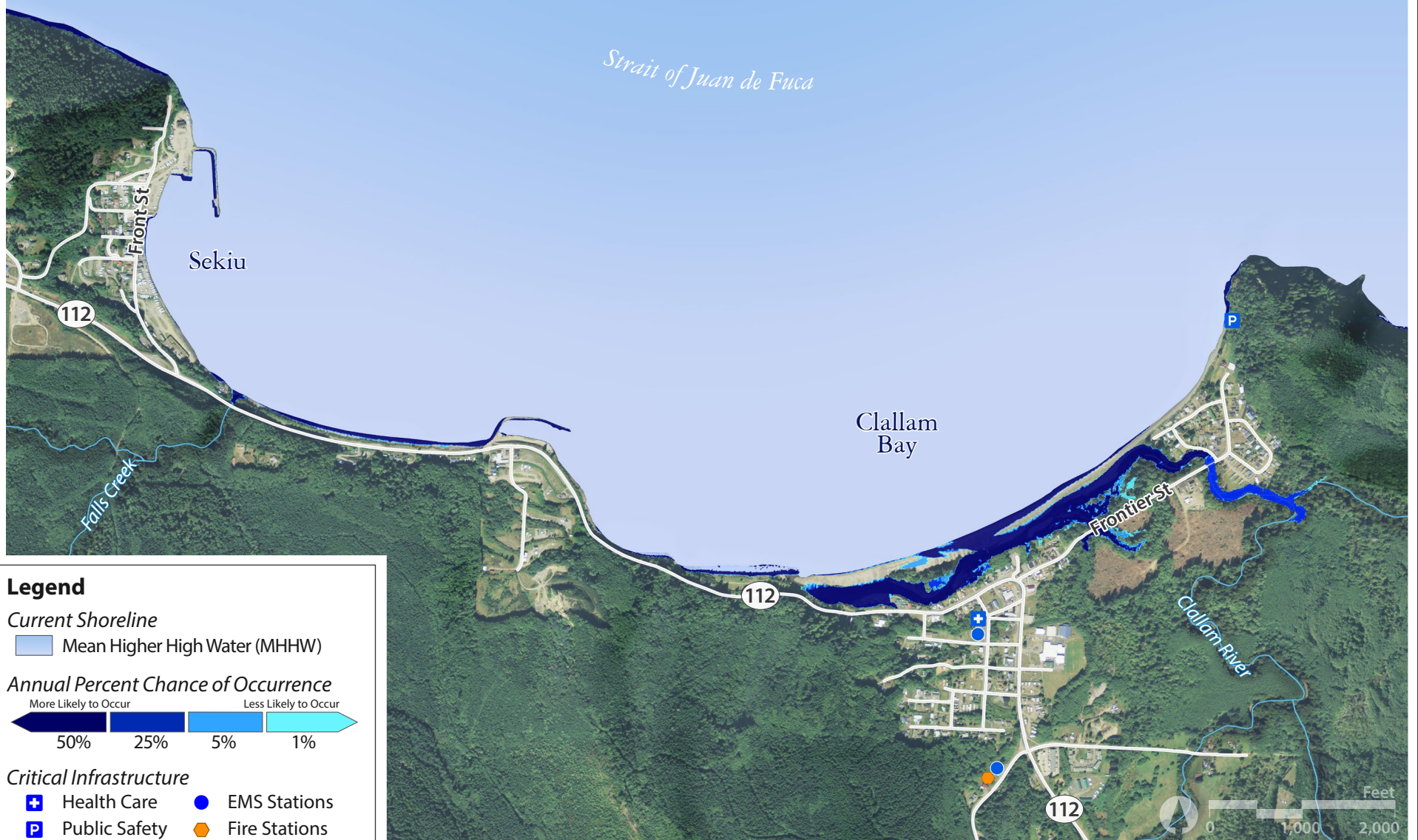
# Sea Level Rise Inundation Area in 2030, CLALLAM BAY and SEKIU

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



# Annual Extreme Storm Flooded Areas in 2030 with Sea Level Rise, CLALLAM BAY and SEKIU

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



**Notes**

- Sea-level rise projections based on Kopp et al., 2014 (Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites) for RCP 8.5, and adjusted for vertical land movement.
- The mapped "Current Shoreline" is the Mean Higher High Water datum, 1983-2001 epoch, as provided by the National Oceanic and Atmospheric Administration (NOAA).
- Maps use lidar-based elevation data from 2005 made available through the Puget Sound Lidar Consortium (PSLC). Accuracy of elevation data at individual sites has not been verified.
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- Maps do not reflect shoreline change or erosion.
- Maps do not reflect the additional flood risk associated with waves in elevating water level during storms (applies to the *Annual Extreme Storm Flooded Areas with Sea Level Rise* map only).
- Annual extreme flooding probabilities derived from historical data collected at nearby NOAA tide stations and do not take into account possible climate-related changes to storminess patterns (applies to the *Annual Extreme Storm Flooded Areas with Sea Level Rise* map only).

# Sea Level Rise Inundation Area in 2050, CLALLAM BAY and SEKIU

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



# Annual Extreme Storm Flooded Areas in 2050 with Sea Level Rise, CLALLAM BAY and SEKIU

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities

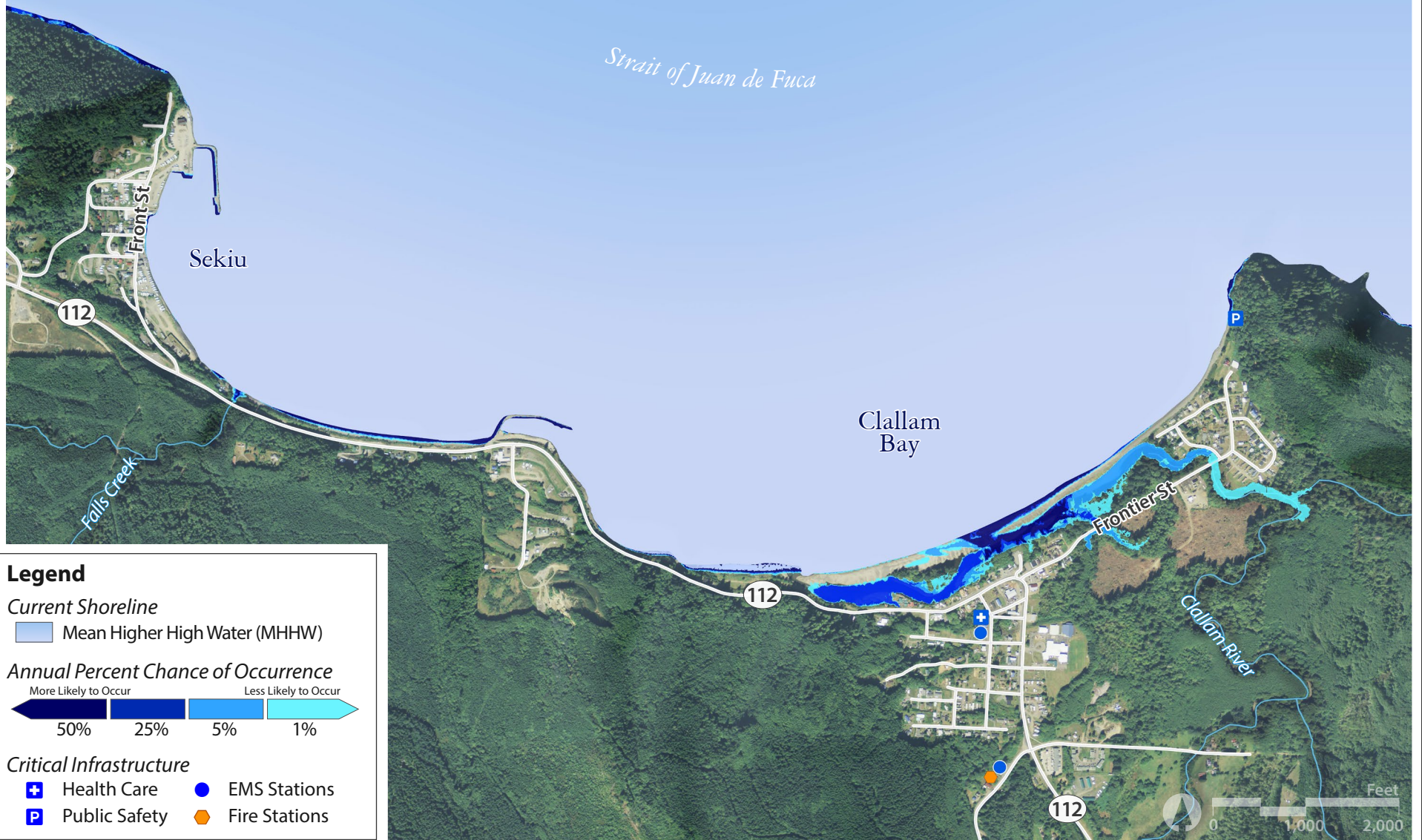


**Notes**

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# Sea Level Rise Inundation Area in 2100, CLALLAM BAY and SEKIU

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



# Annual Extreme Storm Flooded Areas in 2100 with Sea Level Rise, CLALLAM BAY and SEKIU

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



**Notes**

- Sea-level rise projections based on Kopp et al., 2014 (Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites) for RCP 8.5, and adjusted for vertical land movement.
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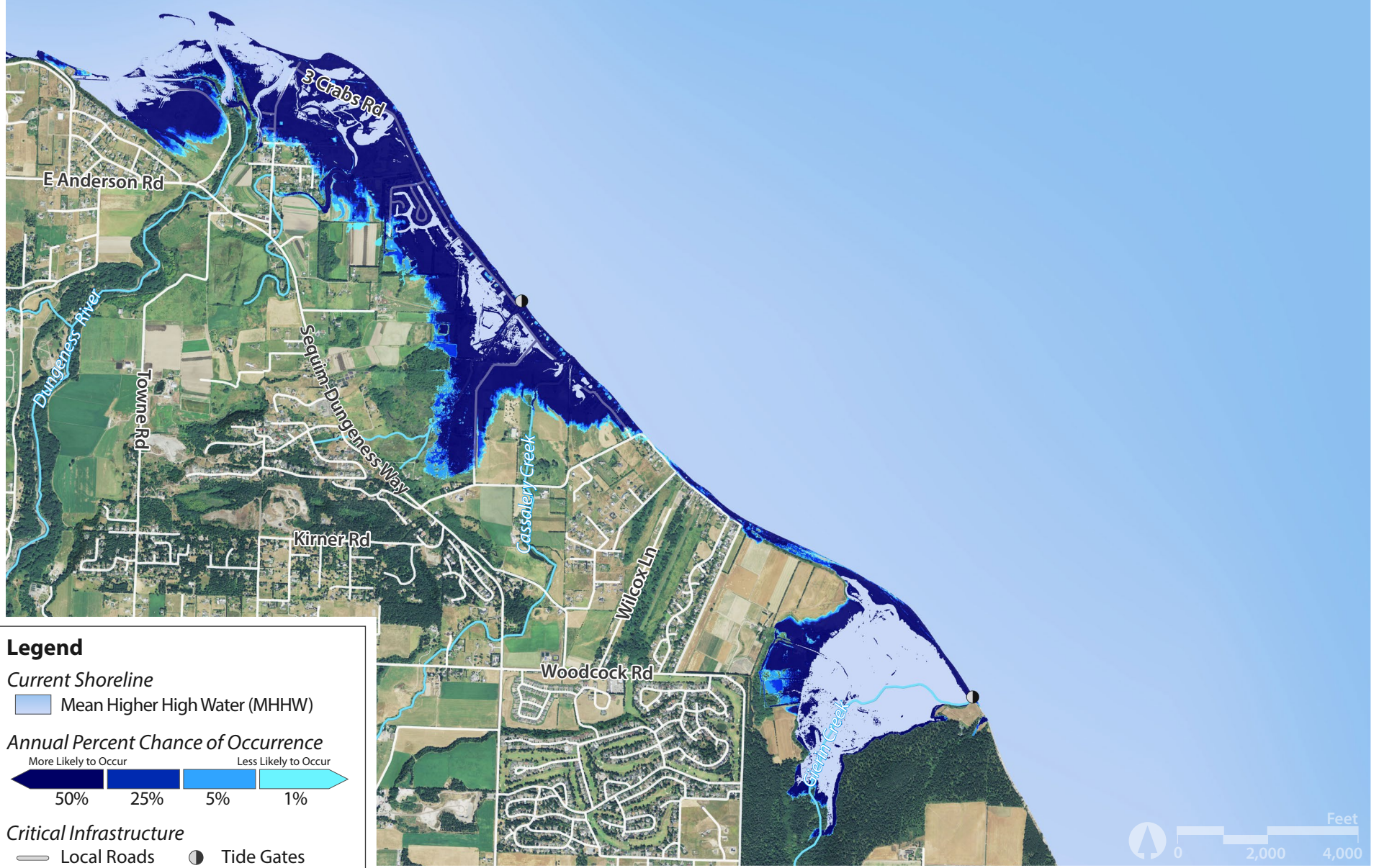
# Sea Level Rise Inundation Area in 2030, DUNGENESS RIVER DELTA

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



# Annual Extreme Storm Flooded Areas in 2030 with Sea Level Rise, DUNGENESS RIVER DELTA

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities

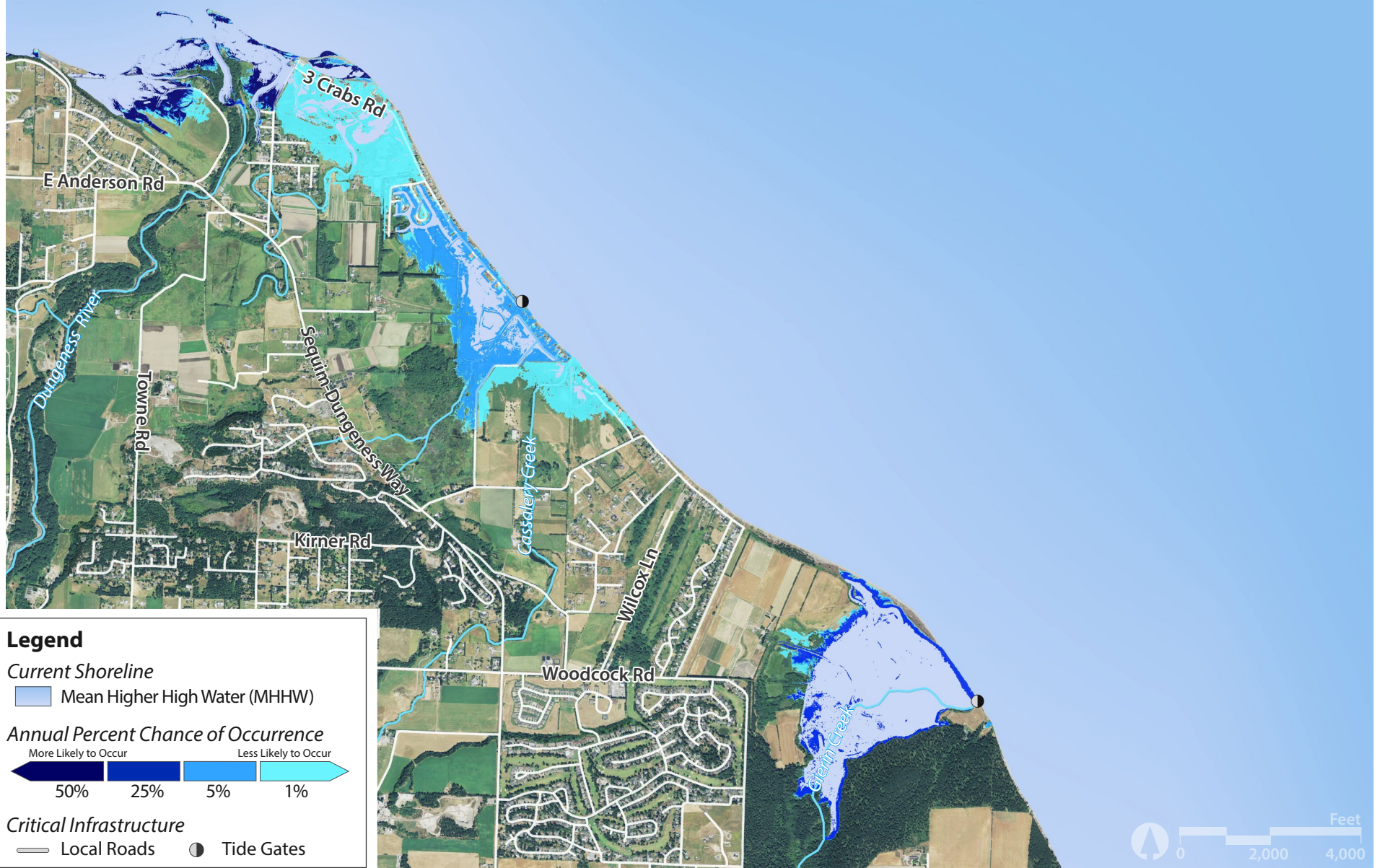


**Notes**

- Sea-level rise projections based on Kopp et al., 2014 (Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites) for RCP 8.5, and adjusted for vertical land movement.
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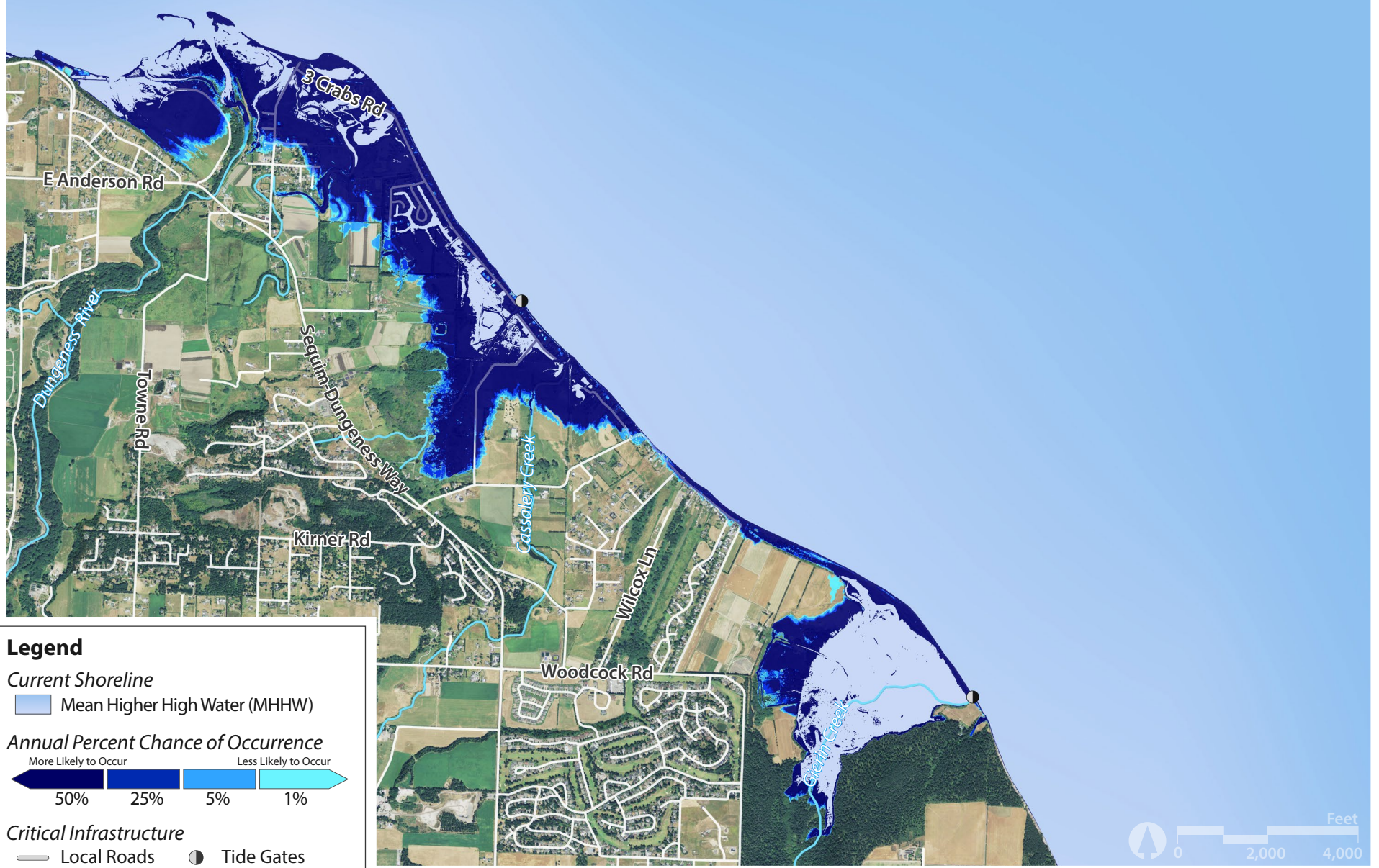
# Sea Level Rise Inundation Area in 2050, DUNGENESS RIVER DELTA

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



# Annual Extreme Storm Flooded Areas in 2050 with Sea Level Rise, DUNGENESS RIVER DELTA

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities

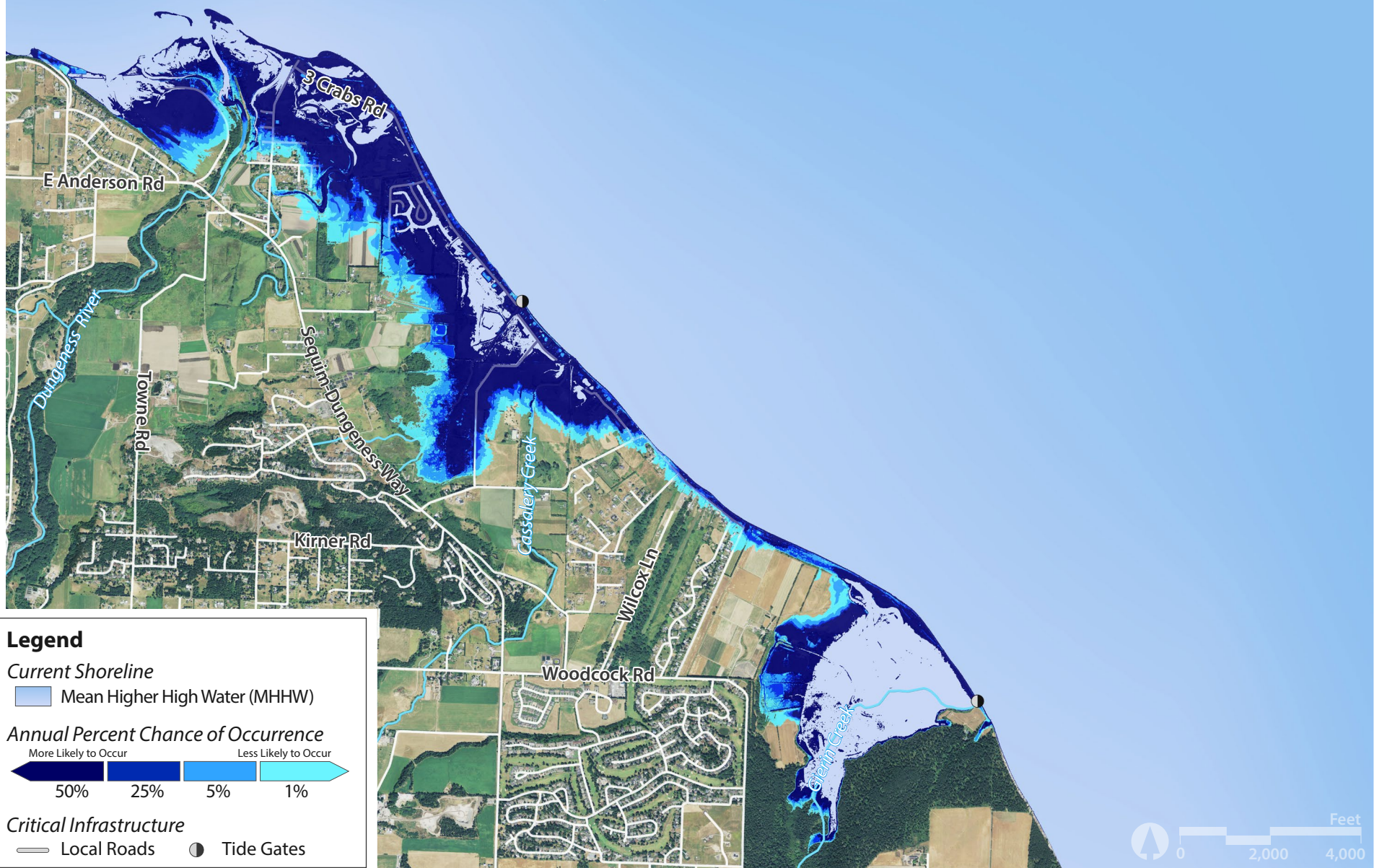


**Notes**

- Sea-level rise projections based on Kopp et al., 2014 (Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites) for RCP 8.5, and adjusted for vertical land movement.
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# Sea Level Rise Inundation Area in 2100, DUNGENESS RIVER DELTA

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



**Legend**

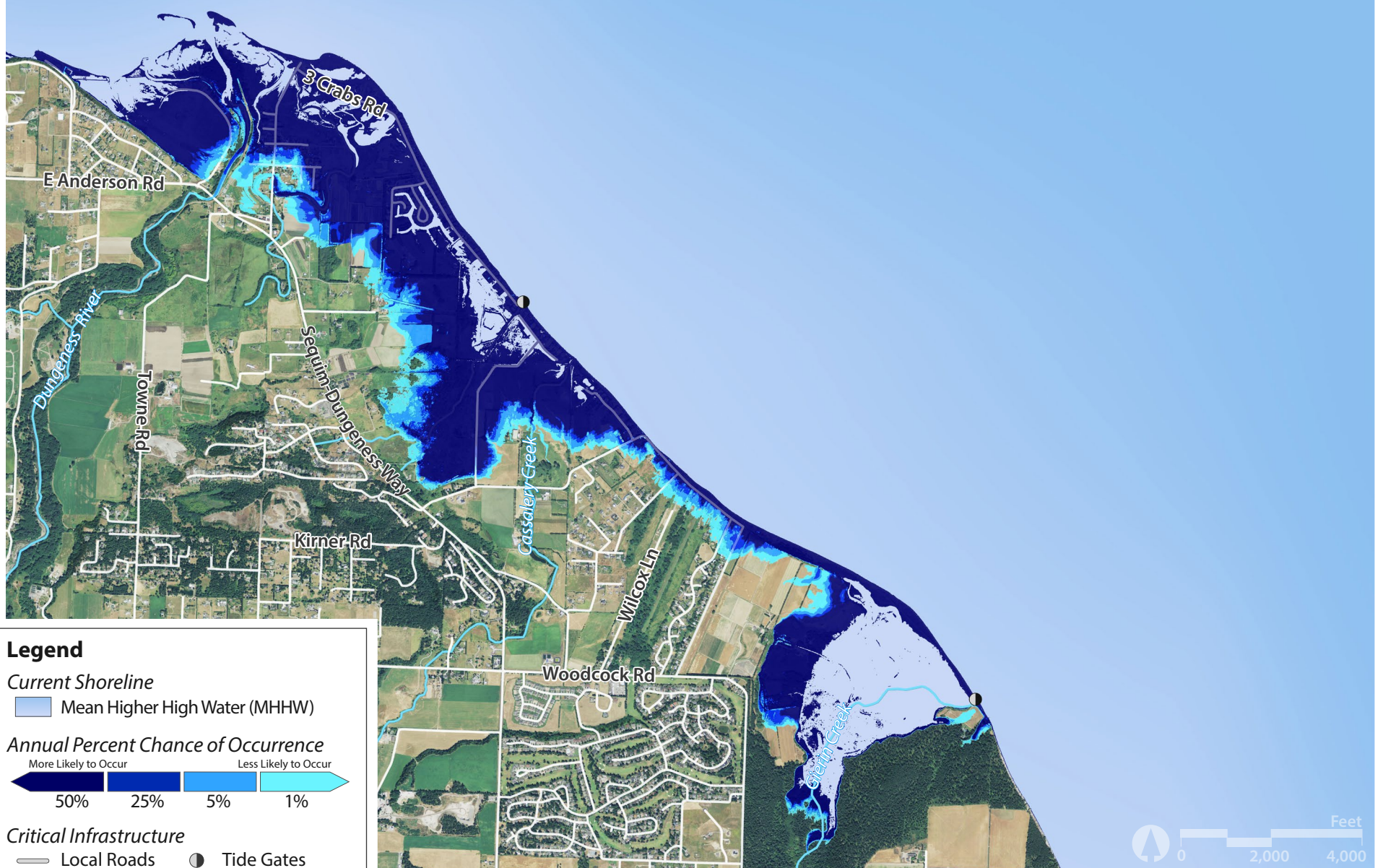
**Current Shoreline**  
 Mean Higher High Water (MHHW)

**Annual Percent Chance of Occurrence**  
 More Likely to Occur (50%) | 25% | 5% | 1% (Less Likely to Occur)

**Critical Infrastructure**  
 Local Roads | Tide Gates

# Annual Extreme Storm Flooded Areas in 2100 with Sea Level Rise, DUNGENESS RIVER DELTA

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



**Legend**

**Current Shoreline**  
 Mean Higher High Water (MHHW)

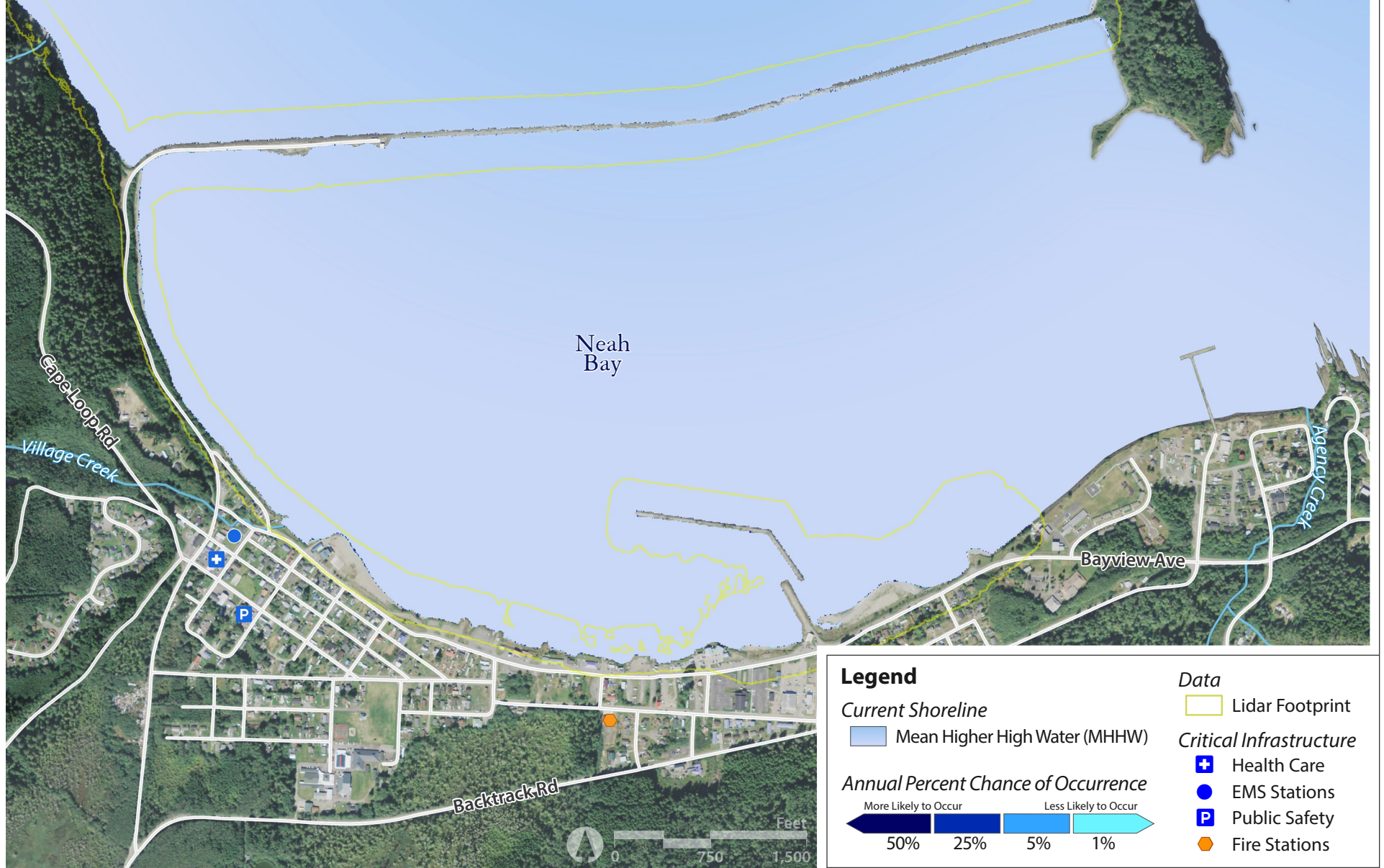
**Annual Percent Chance of Occurrence**  
 More Likely to Occur (50%) | 25% | 5% | 1% (Less Likely to Occur)

**Critical Infrastructure**  
 Local Roads | Tide Gates

- Notes**
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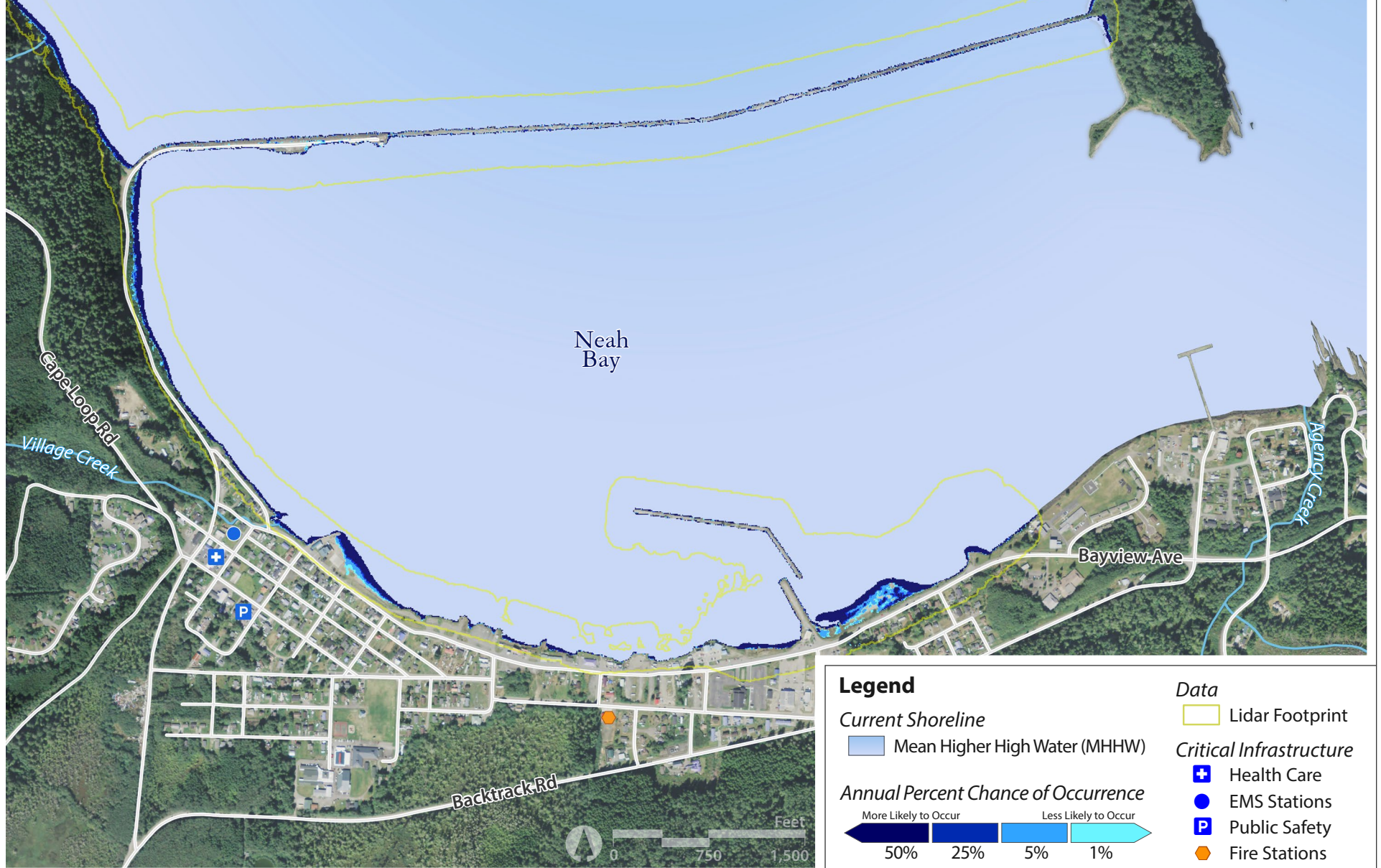
# Sea Level Rise Inundation Area in 2030, NEAH BAY

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



# Annual Extreme Storm Flooded Areas in 2030 with Sea Level Rise, NEAH BAY

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



## Notes

- Sea-level rise projections based on Kopp et al., 2014 (Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites) for RCP 8.5, and adjusted for vertical land movement.
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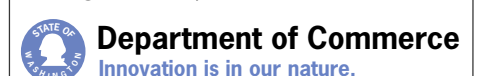
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NORTH OLYMPIC PENINSULA  
 RESOURCE CONSERVATION & DEVELOPMENT **NOP RC&D**

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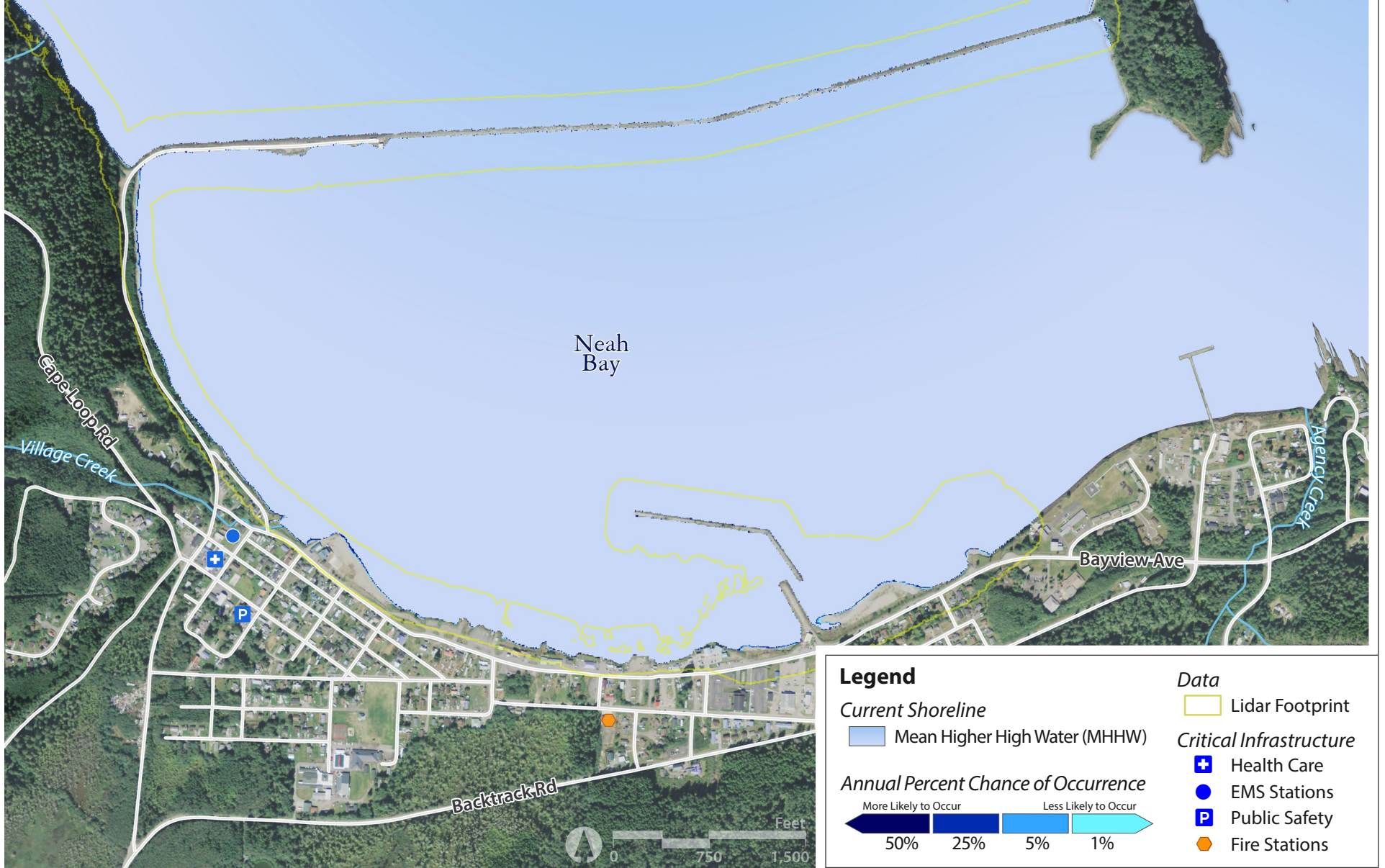


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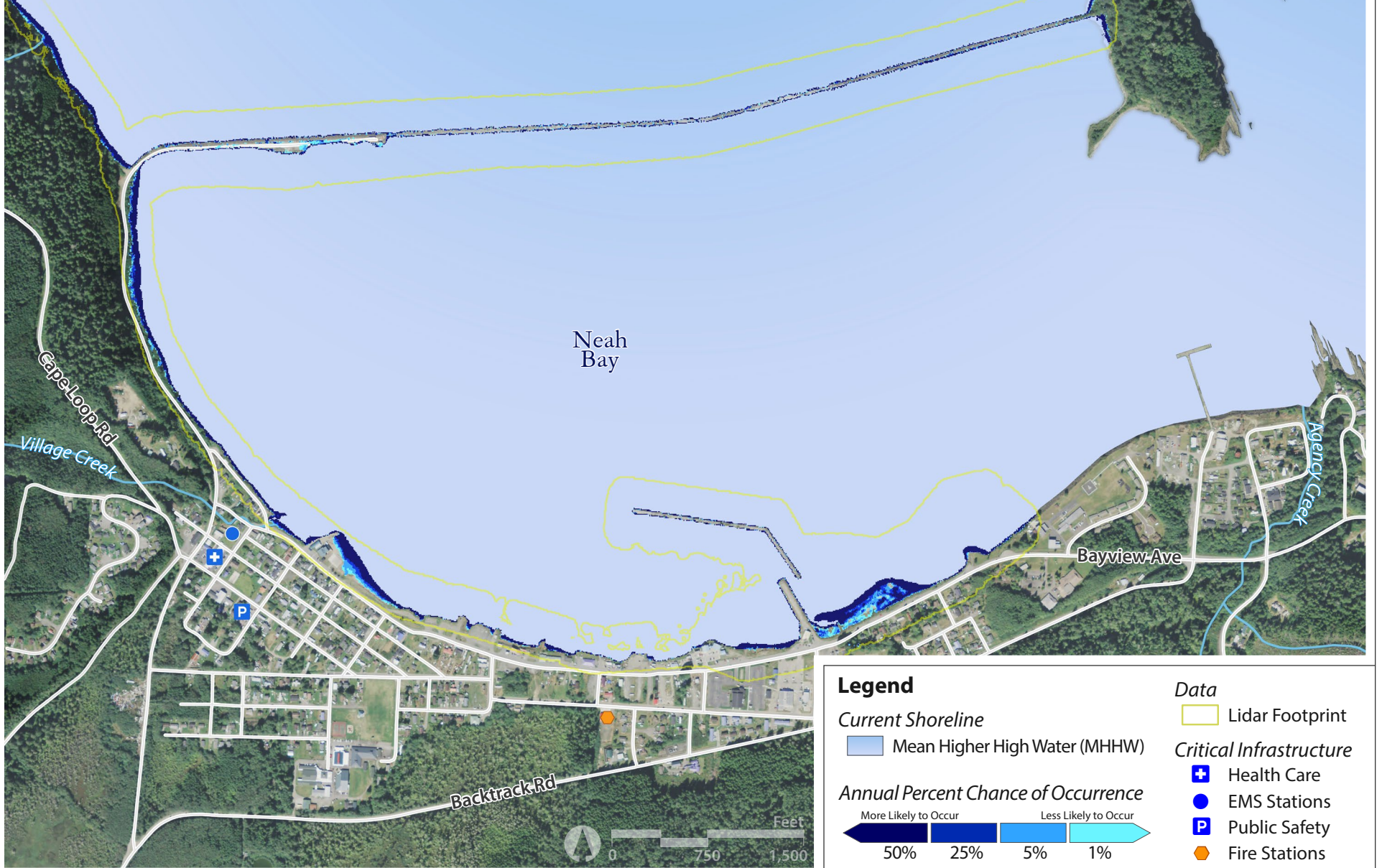
# Sea Level Rise Inundation Area in 2050, NEAH BAY

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



# Annual Extreme Storm Flooded Areas in 2050 with Sea Level Rise, NEAH BAY

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



## Notes

- Sea-level rise projections based on Kopp et al., 2014 (Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites) for RCP 8.5, and adjusted for vertical land movement.
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RESOURCE CONSERVATION & DEVELOPMENT **NOP RC&D**

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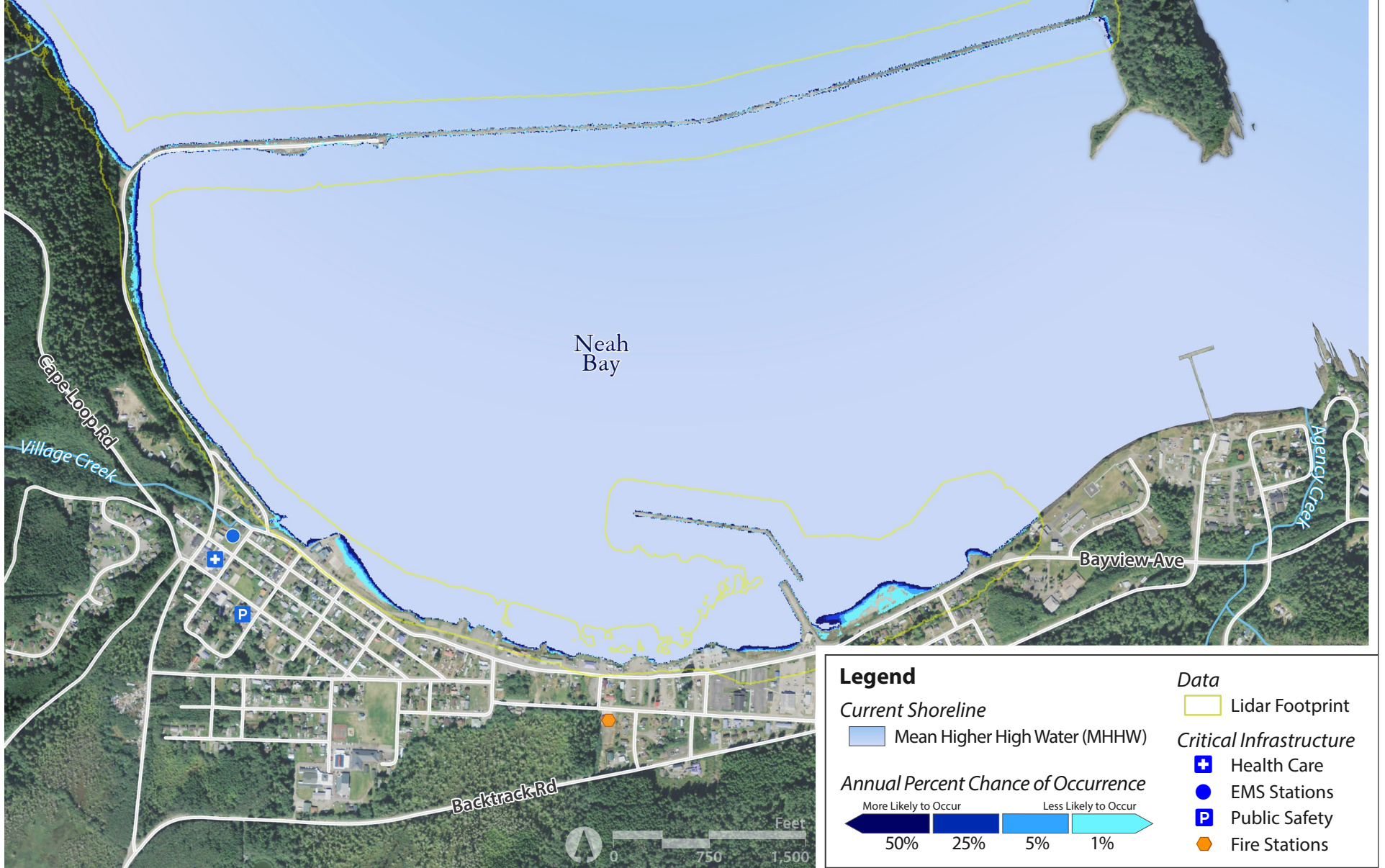
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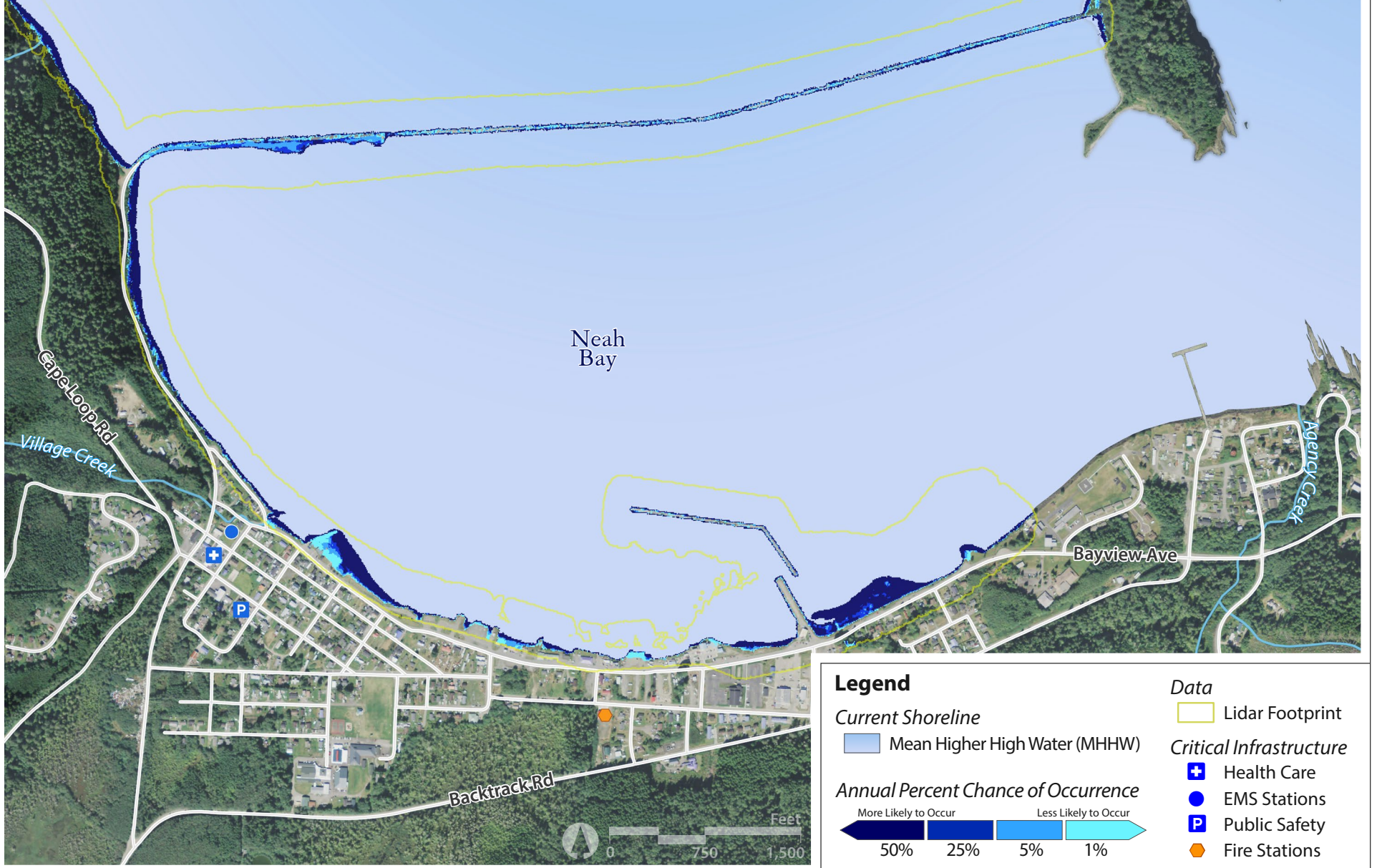
# Sea Level Rise Inundation Area in 2100, NEAH BAY

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



# Annual Extreme Storm Flooded Areas in 2100 with Sea Level Rise, NEAH BAY

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



## Notes

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Produced for:

NORTH OLYMPIC PENINSULA  
 RESOURCE CONSERVATION & DEVELOPMENT **NOP RC&D**

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# Sea Level Rise Inundation Area in 2030, PORT ANGELES

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



**Legend**

**Current Shoreline**  
 Mean Higher High Water (MHHW)

**Annual Percent Chance of Occurrence**  
 More Likely to Occur (50%) to Less Likely to Occur (1%)

**Transportation**  
 Major Roads (thick red line), Local Roads (thin grey line)

**Critical Infrastructure**  
 Hospital (H icon), Health Care (+ icon), EMS Stations (blue circle icon), Fire Stations (orange circle icon), Public Safety (P icon), Water Treatment (purple circle icon)

# Annual Extreme Storm Flooded Areas in 2030 with Sea Level Rise, PORT ANGELES

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



**Legend**

**Current Shoreline**  
 Mean Higher High Water (MHHW)

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# Sea Level Rise Inundation Area in 2050, PORT ANGELES

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



## Legend

- Current Shoreline**  
 Mean Higher High Water (MHHW)
- Annual Percent Chance of Occurrence**  
 More Likely to Occur (50%) to Less Likely to Occur (1%)
- Transportation**  
 Major Roads (thick red line), Local Roads (thin grey line)
- Critical Infrastructure**  
 Hospital (H), Health Care (+), EMS Stations (blue dot), Fire Stations (orange dot), Public Safety (P), Water Treatment (purple dot)

# Annual Extreme Storm Flooded Areas in 2050 with Sea Level Rise, PORT ANGELES

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



## Legend

- Current Shoreline**  
 Mean Higher High Water (MHHW)
- Annual Percent Chance of Occurrence**  
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# Sea Level Rise Inundation Area in 2100, PORT ANGELES

Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise



## Legend

- Current Shoreline**  
 Mean Higher High Water (MHHW)
- Annual Percent Chance of Occurrence**  
 More Likely to Occur (50%) to Less Likely to Occur (1%)
- Transportation**  
 Major Roads (red line), Local Roads (grey line)
- Critical Infrastructure**  
 Hospital (H), Health Care (+), EMS Stations (blue dot), Fire Stations (orange dot), Public Safety (P), Water Treatment (purple dot)

# Annual Extreme Storm Flooded Areas in 2100 with Sea Level Rise, PORT ANGELES

Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



## Legend

- Current Shoreline**  
 Mean Higher High Water (MHHW)
- Annual Percent Chance of Occurrence**  
 More Likely to Occur (50%) to Less Likely to Occur (1%)
- Transportation**  
 Major Roads (red line), Local Roads (grey line)
- Critical Infrastructure**  
 Hospital (H), Health Care (+), EMS Stations (blue dot), Fire Stations (orange dot), Public Safety (P), Water Treatment (purple dot)

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Produced for:

NORTH OLYMPIC PENINSULA RESOURCE CONSERVATION & DEVELOPMENT **NOP RC&D**

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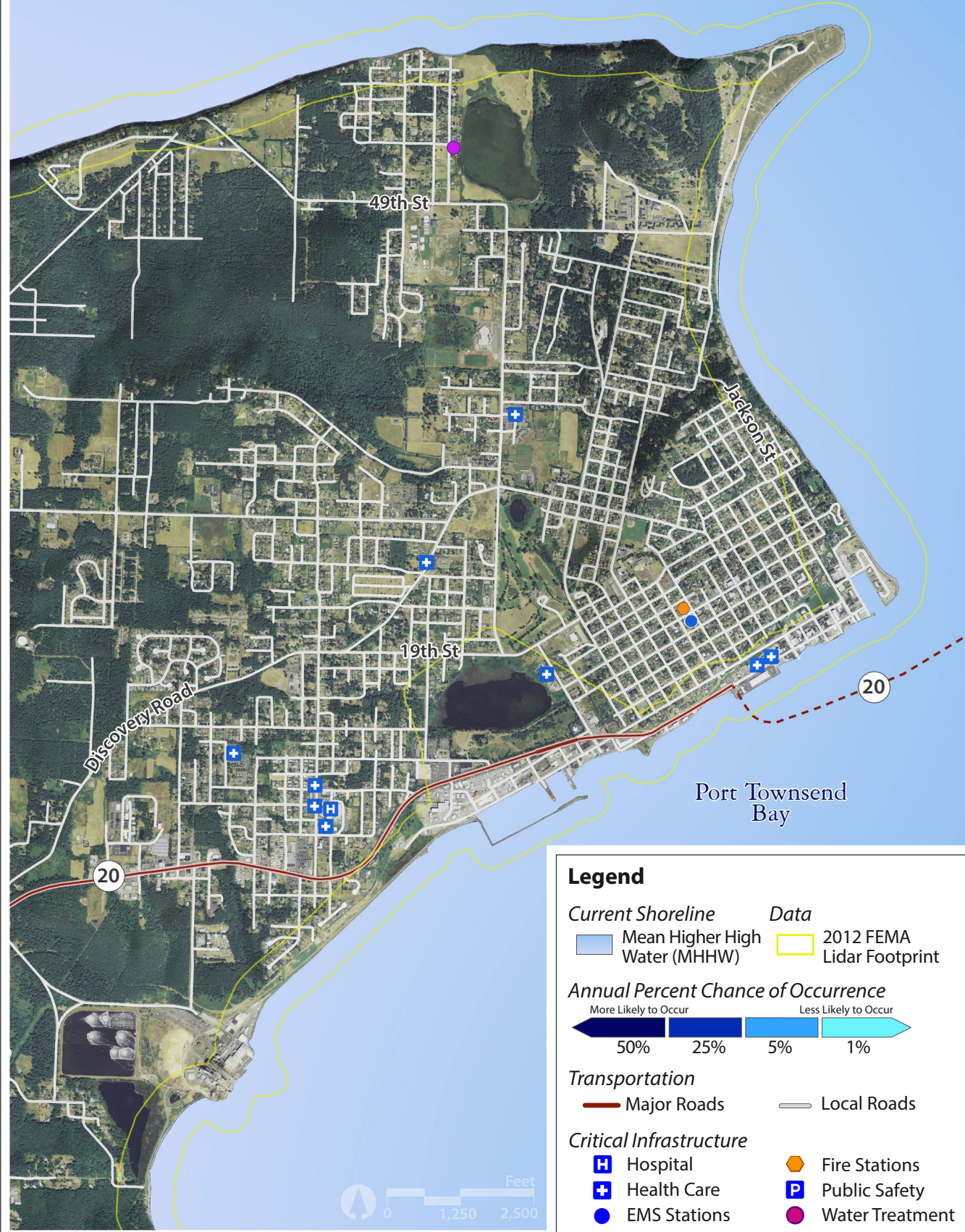


Funding Provided by:



# Sea Level Rise Inundation Area in 2030, PORT TOWNSEND

## Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise

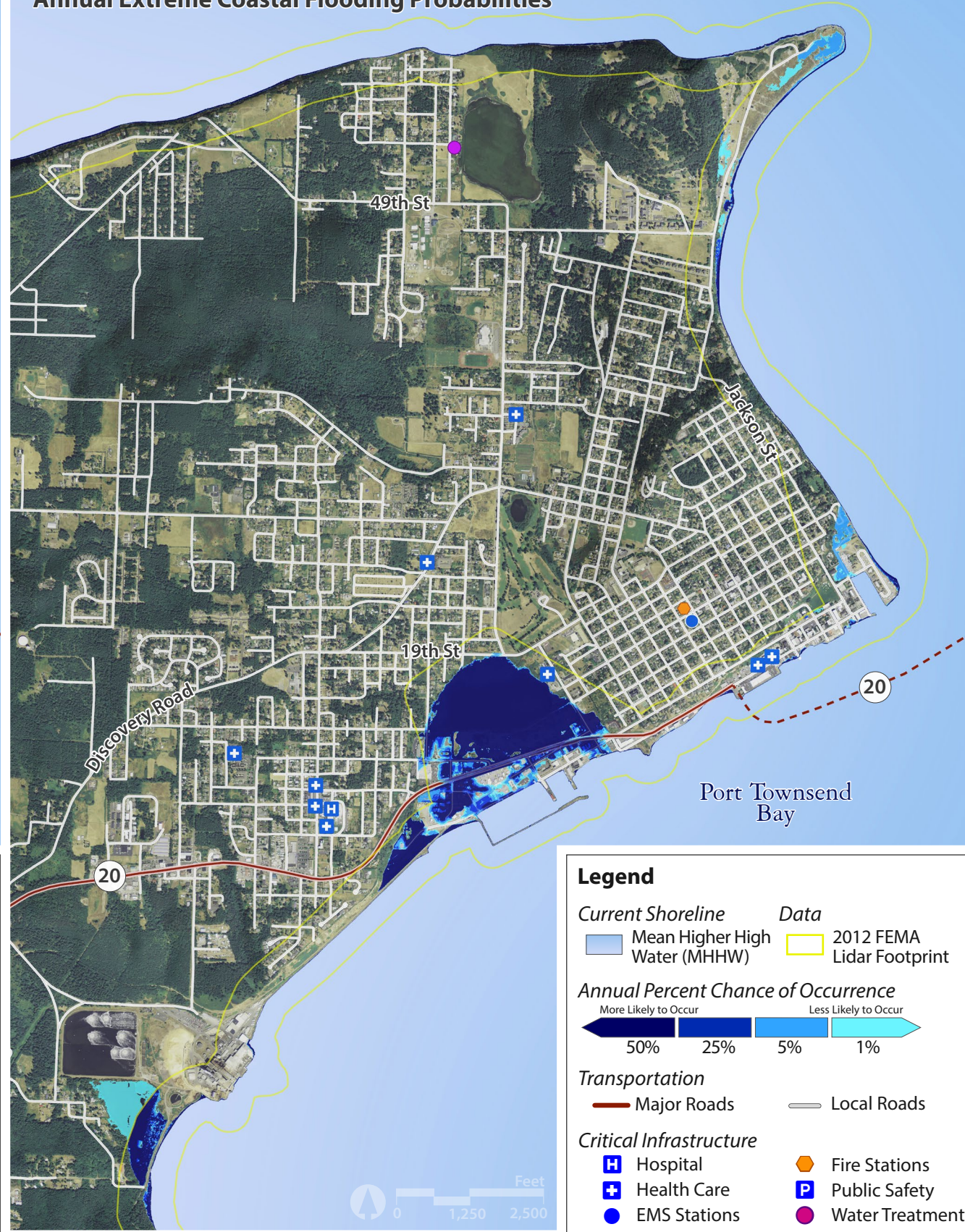


**Legend**

<b>Current Shoreline</b>	<b>Data</b>
Mean Higher High Water (MHHW)	2012 FEMA Lidar Footprint
<b>Annual Percent Chance of Occurrence</b>	
More Likely to Occur <span style="float: right;">Less Likely to Occur</span>	
50% 25% 5% 1%	
<b>Transportation</b>	
Major Roads	Local Roads
<b>Critical Infrastructure</b>	
Hospital	Fire Stations
Health Care	Public Safety
EMS Stations	Water Treatment

# Annual Extreme Storm Flooded Areas in 2030 with Sea Level Rise, PORT TOWNSEND

## Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



**Legend**

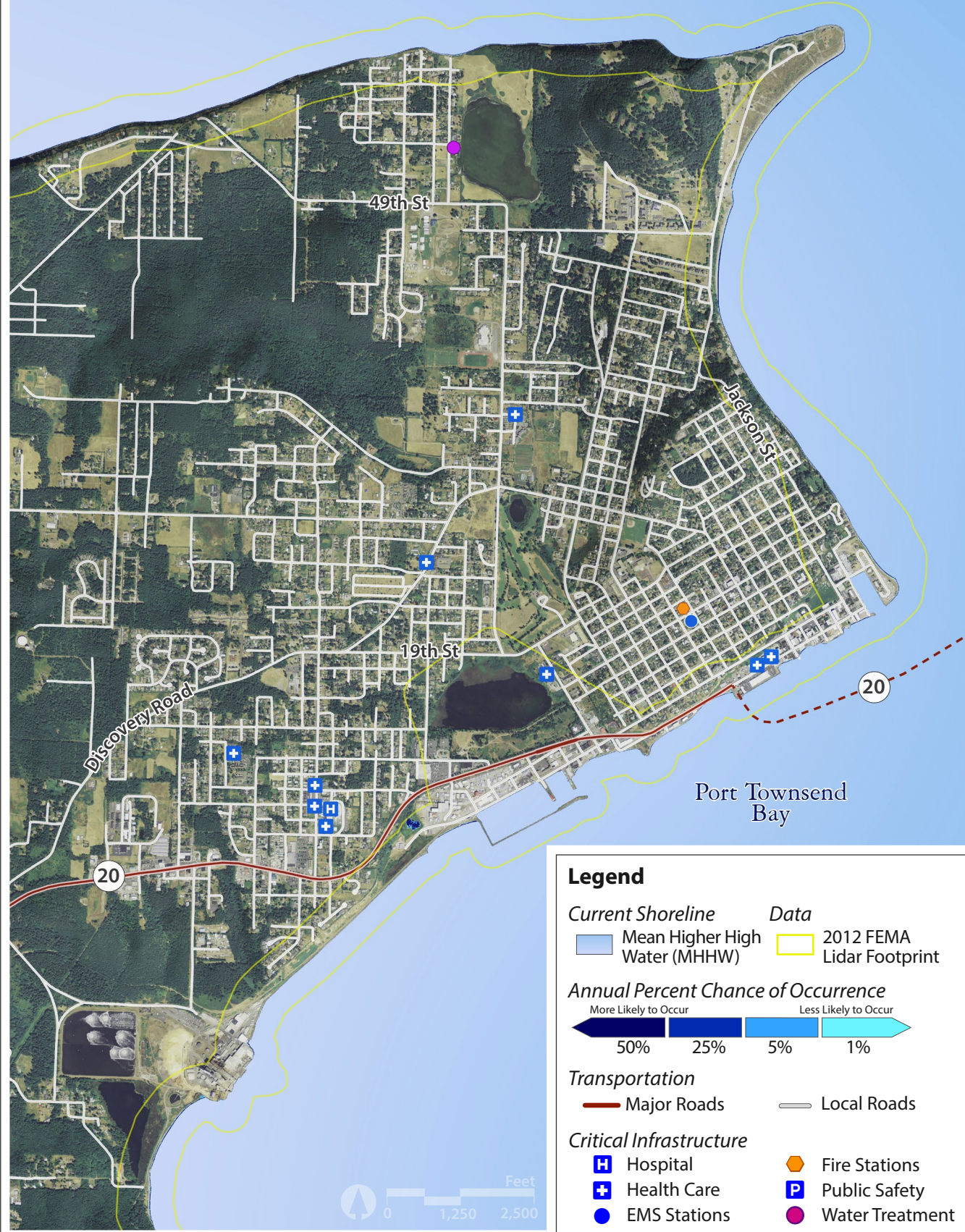
<b>Current Shoreline</b>	<b>Data</b>
Mean Higher High Water (MHHW)	2012 FEMA Lidar Footprint
<b>Annual Percent Chance of Occurrence</b>	
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<b>Transportation</b>	
Major Roads	Local Roads
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Hospital	Fire Stations
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**Notes**

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- Maps use lidar-based elevation data from 2012 (FEMA; shown in maps as yellow outline) and 2001-02 (all elevation data outside of the FEMA 2012 outline) made available through the Puget Sound Lidar Consortium (PSLC). Accuracy of elevation data at individual sites has not been verified.
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# Sea Level Rise Inundation Area in 2050, PORT TOWNSEND

## Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise

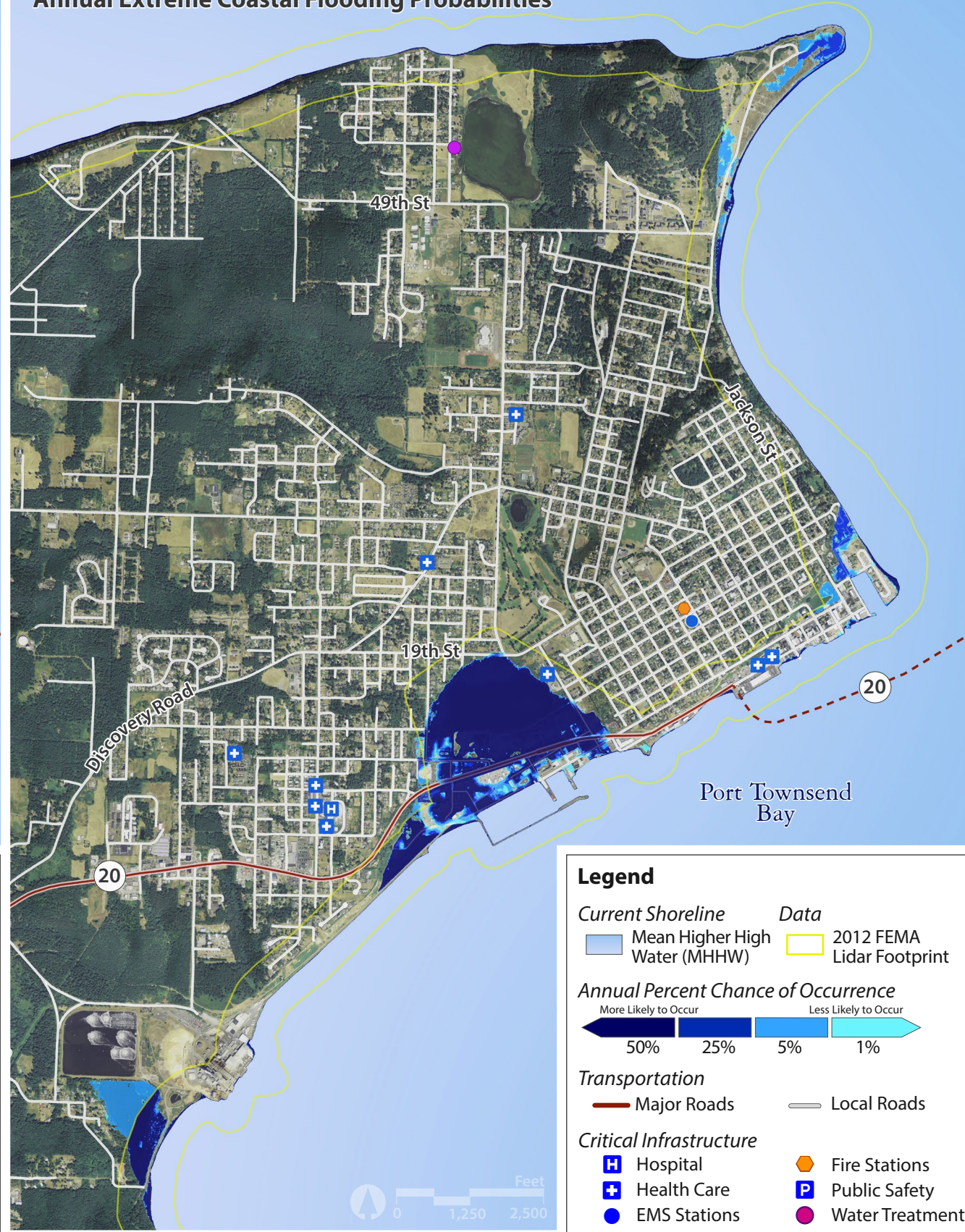


**Legend**

<b>Current Shoreline</b>	<b>Data</b>
Mean Higher High Water (MHHW)	2012 FEMA Lidar Footprint
<b>Annual Percent Chance of Occurrence</b>	
More Likely to Occur <span style="float:right">Less Likely to Occur</span>	
50% 25% 5% 1%	
<b>Transportation</b>	
Major Roads	Local Roads
<b>Critical Infrastructure</b>	
Hospital	Fire Stations
Health Care	Public Safety
EMS Stations	Water Treatment

# Annual Extreme Storm Flooded Areas in 2050 with Sea Level Rise, PORT TOWNSEND

## Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



**Legend**

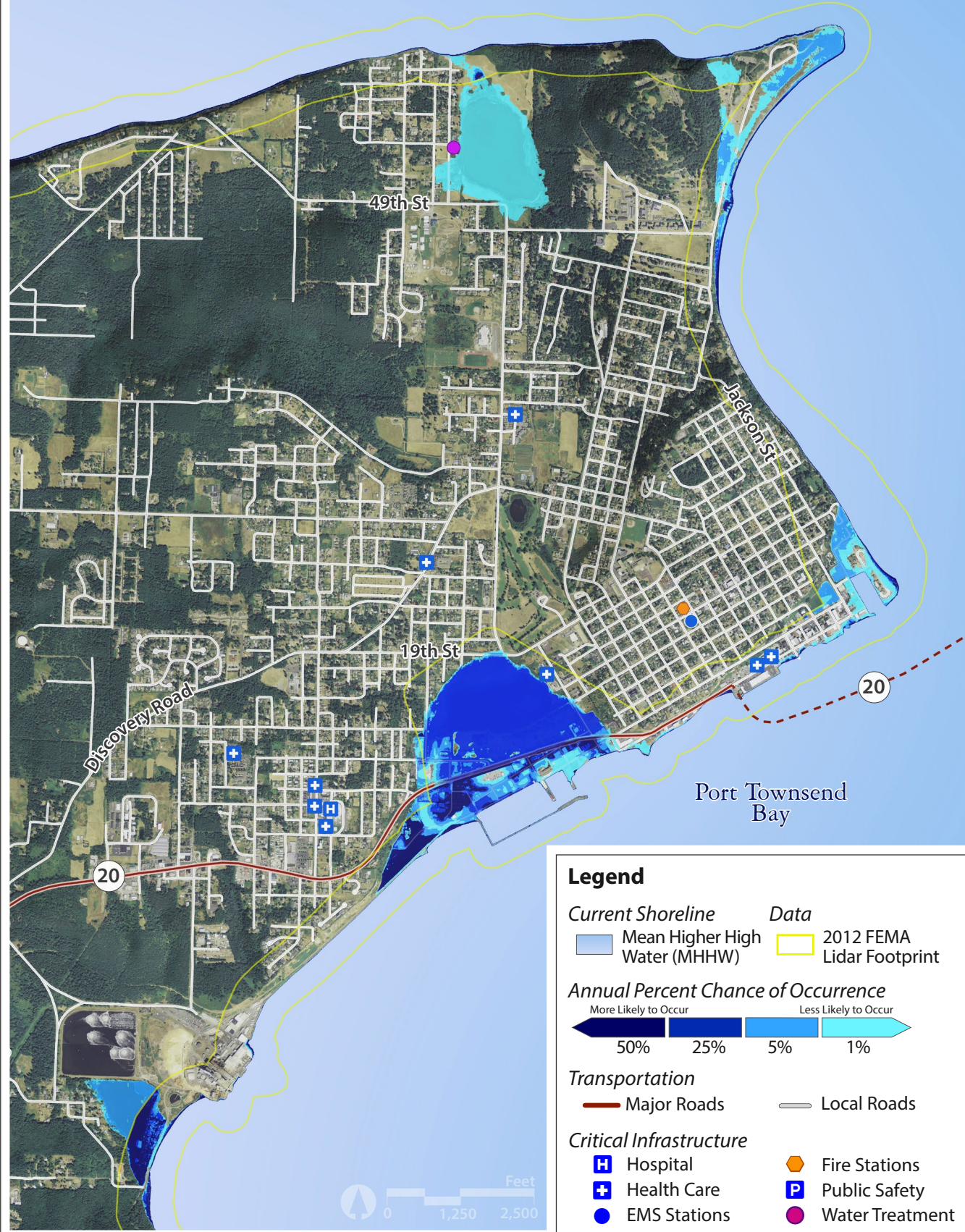
<b>Current Shoreline</b>	<b>Data</b>
Mean Higher High Water (MHHW)	2012 FEMA Lidar Footprint
<b>Annual Percent Chance of Occurrence</b>	
More Likely to Occur <span style="float:right">Less Likely to Occur</span>	
50% 25% 5% 1%	
<b>Transportation</b>	
Major Roads	Local Roads
<b>Critical Infrastructure</b>	
Hospital	Fire Stations
Health Care	Public Safety
EMS Stations	Water Treatment

**Notes**

- Sea-level rise projections based on Kopp et al., 2014 (Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites) for RCP 8.5, and adjusted for vertical land movement.
- The mapped "Current Shoreline" is the Mean Higher High Water datum, 1983-2001 epoch, as provided by the National Oceanic and Atmospheric Administration (NOAA).
- Maps use lidar-based elevation data from 2012 (FEMA; shown in maps as yellow outline) and 2001-02 (all elevation data outside of the FEMA 2012 outline) made available through the Puget Sound Lidar Consortium (PSLC). Accuracy of elevation data at individual sites has not been verified.
- Maps use only elevation data, do not model hydrology, and do not reflect the influence of engineered shoreline structures, i.e. tide gates.
- Maps do not reflect shoreline change or erosion.
- Maps do not reflect the additional flood risk associated with waves in elevating water level during storms (applies to the Annual Extreme Storm Flooded Areas with Sea Level Rise map only).
- Annual extreme flooding probabilities derived from historical data collected at nearby NOAA tide stations and do not take into account possible climate-related changes to storminess patterns (applies to the Annual Extreme Storm Flooded Areas with Sea Level Rise map only).

# Sea Level Rise Inundation Area in 2100, PORT TOWNSEND

## Probabilistic Projections of Changes to Average Daily High Tide Inundation Due to Sea Level Rise

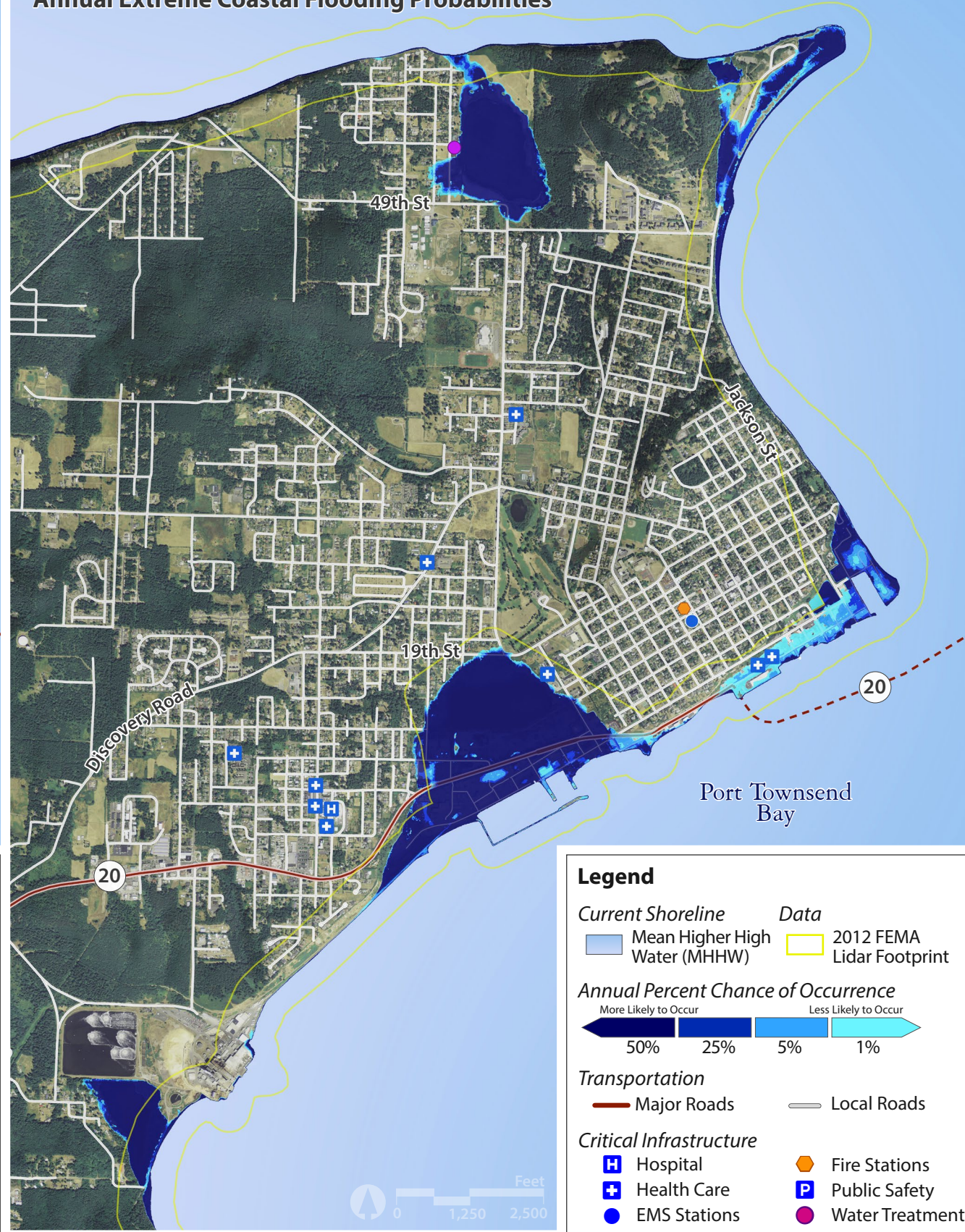


**Legend**

<b>Current Shoreline</b>	<b>Data</b>
Mean Higher High Water (MHHW)	2012 FEMA Lidar Footprint
<b>Annual Percent Chance of Occurrence</b>	
More Likely to Occur <span style="float: right;">Less Likely to Occur</span>	
50% 25% 5% 1%	
<b>Transportation</b>	
Major Roads	Local Roads
<b>Critical Infrastructure</b>	
Hospital	Fire Stations
Health Care	Public Safety
EMS Stations	Water Treatment

# Annual Extreme Storm Flooded Areas in 2100 with Sea Level Rise, PORT TOWNSEND

## Combined Probabilistic Sea Level Rise Projections and Annual Extreme Coastal Flooding Probabilities



**Legend**

<b>Current Shoreline</b>	<b>Data</b>
Mean Higher High Water (MHHW)	2012 FEMA Lidar Footprint
<b>Annual Percent Chance of Occurrence</b>	
More Likely to Occur <span style="float: right;">Less Likely to Occur</span>	
50% 25% 5% 1%	
<b>Transportation</b>	
Major Roads	Local Roads
<b>Critical Infrastructure</b>	
Hospital	Fire Stations
Health Care	Public Safety
EMS Stations	Water Treatment

**Notes**

- Sea-level rise projections based on Kopp et al., 2014 (Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites) for RCP 8.5, and adjusted for vertical land movement.
- The mapped "Current Shoreline" is the Mean Higher High Water datum, 1983-2001 epoch, as provided by the National Oceanic and Atmospheric Administration (NOAA).
- Maps use lidar-based elevation data from 2012 (FEMA; shown in maps as yellow outline) and 2001-02 (all elevation data outside of the FEMA 2012 outline) made available through the Puget Sound Lidar Consortium (PSLC). Accuracy of elevation data at individual sites has not been verified.
- Maps use only elevation data, do not model hydrology, and do not reflect the influence of engineered shoreline structures, i.e. tide gates.
- Maps do not reflect shoreline change or erosion.
- Maps do not reflect the additional flood risk associated with waves in elevating water level during storms (applies to the Annual Extreme Storm Flooded Areas with Sea Level Rise map only).
- Annual extreme flooding probabilities derived from historical data collected at nearby NOAA tide stations and do not take into account possible climate-related changes to storminess patterns (applies to the Annual Extreme Storm Flooded Areas with Sea Level Rise map only).