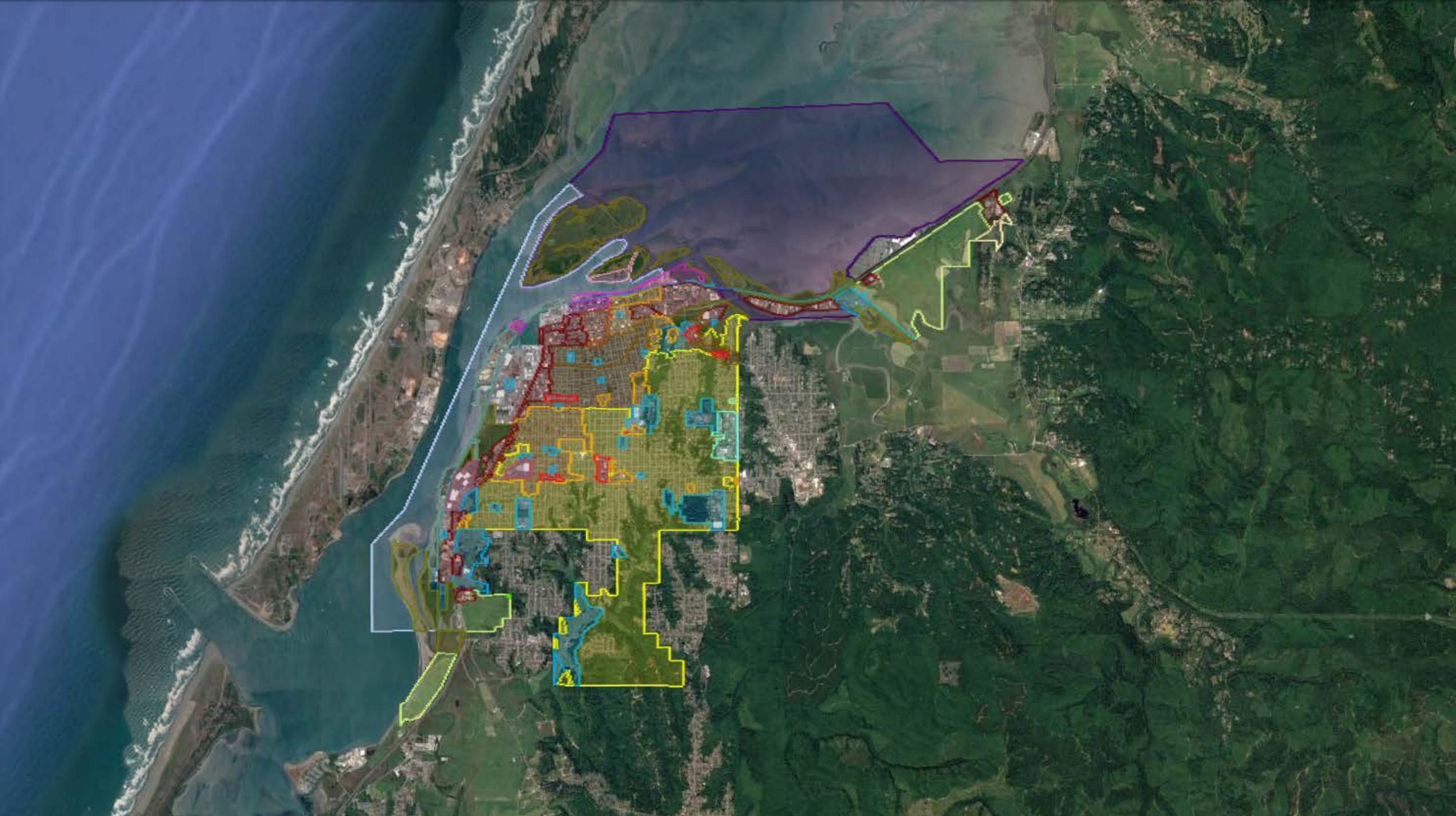


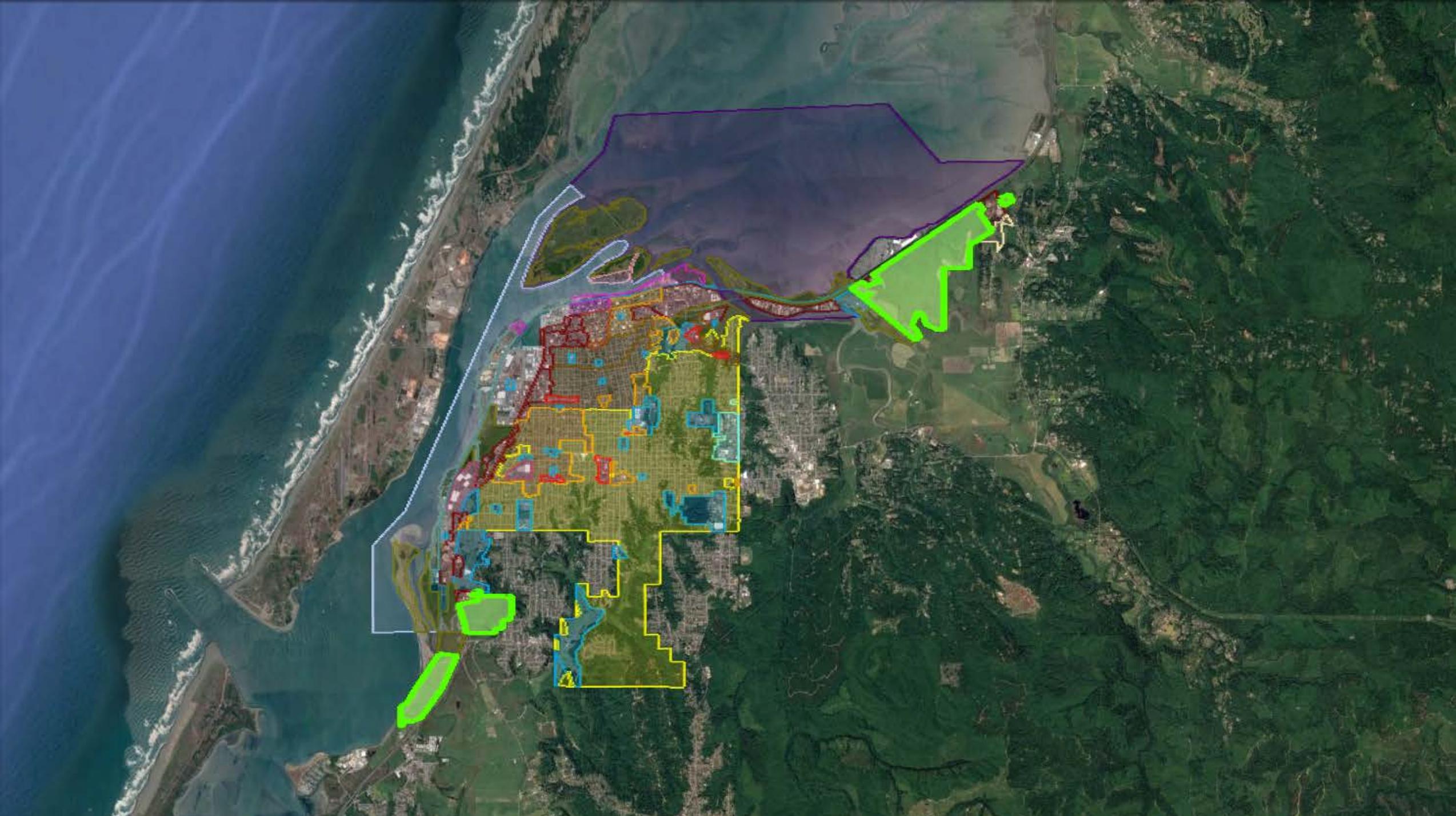
SLR in Eureka



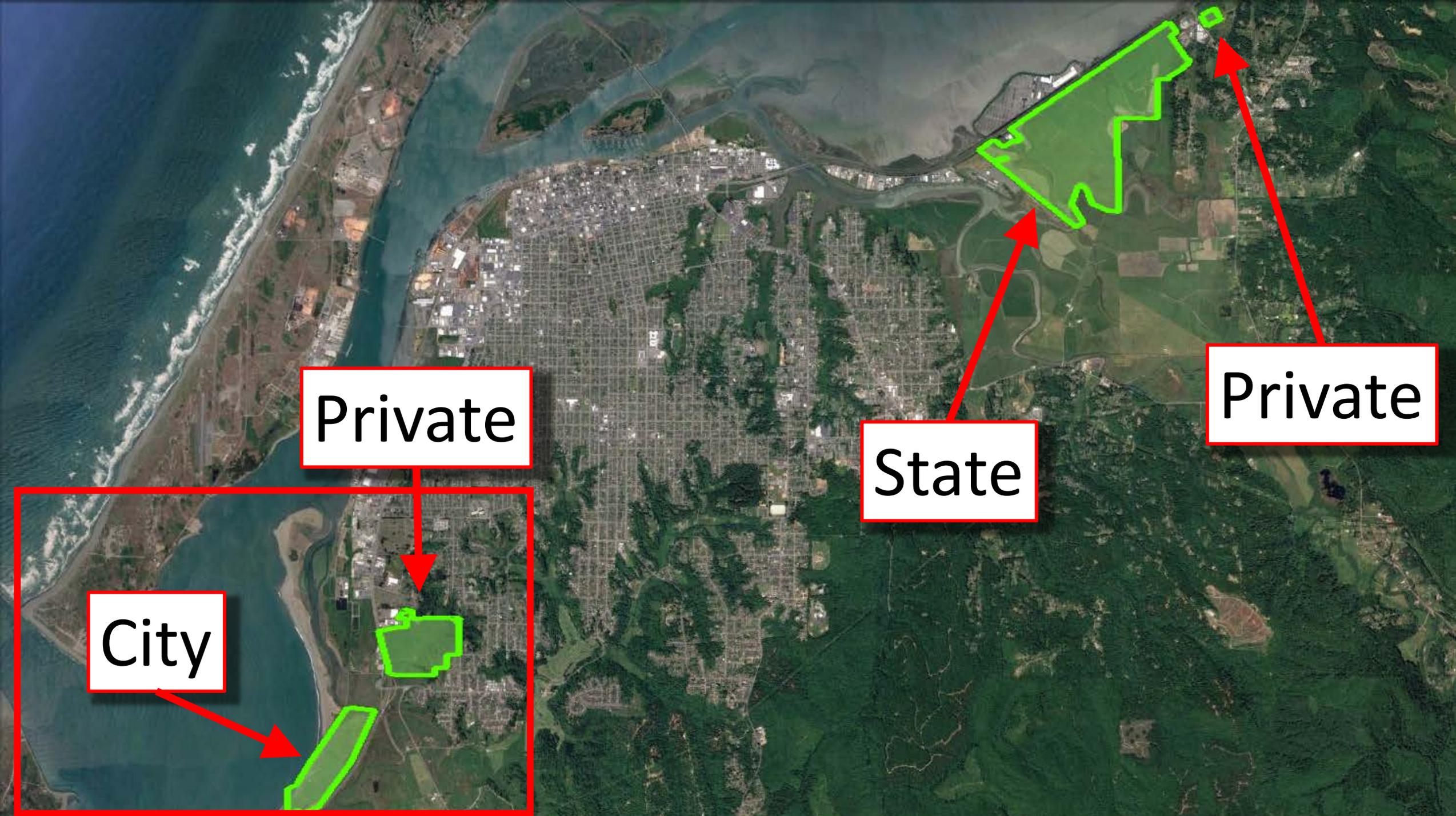
Presented by R. Holmlund

5/4/17







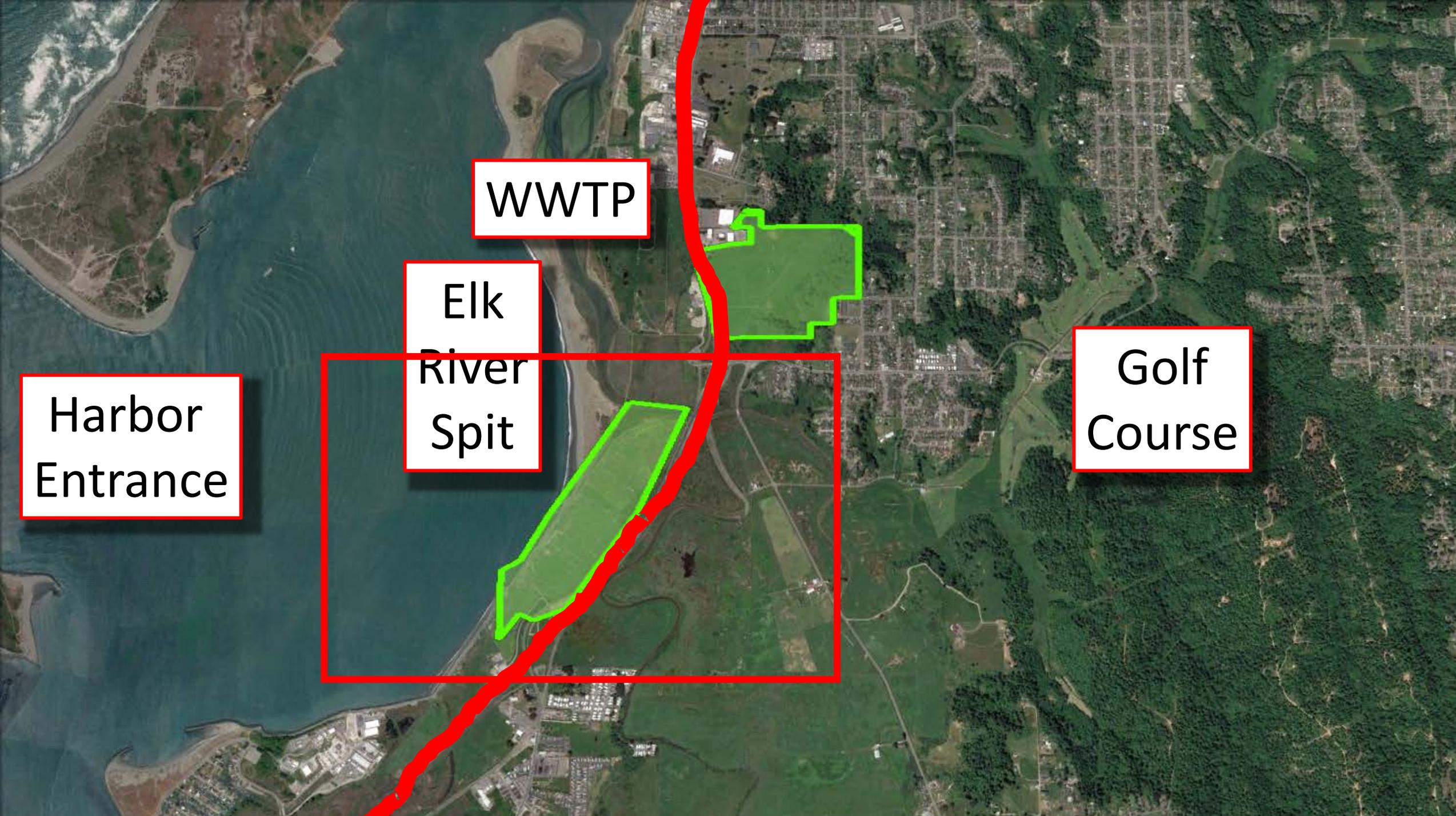


Private

State

Private

City



Harbor
Entrance

Elk
River
Spit

WWTP

Golf
Course





SLR?











SLR!



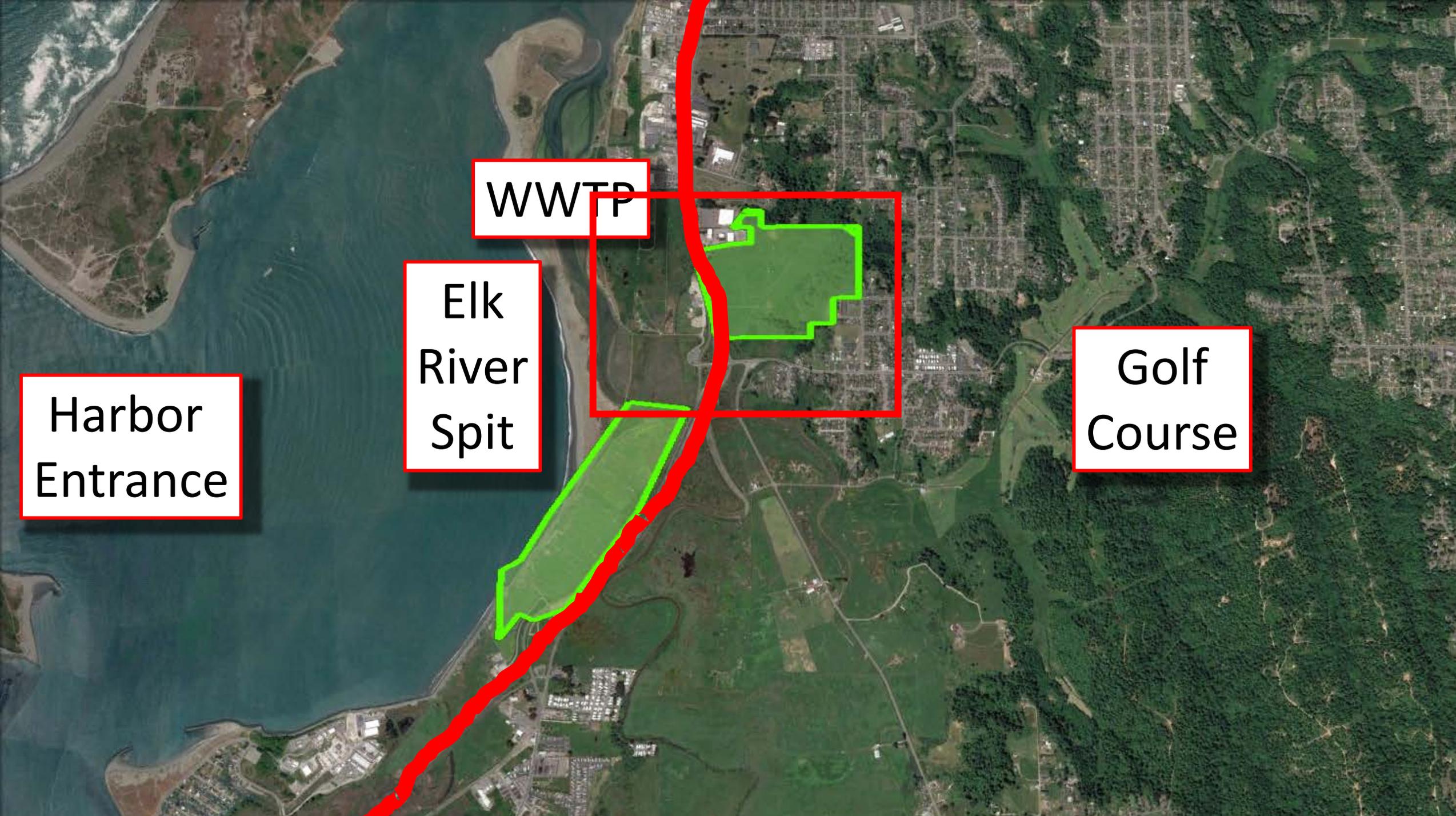
Harbor
Entrance



Elk River Eco Park

SLR! →



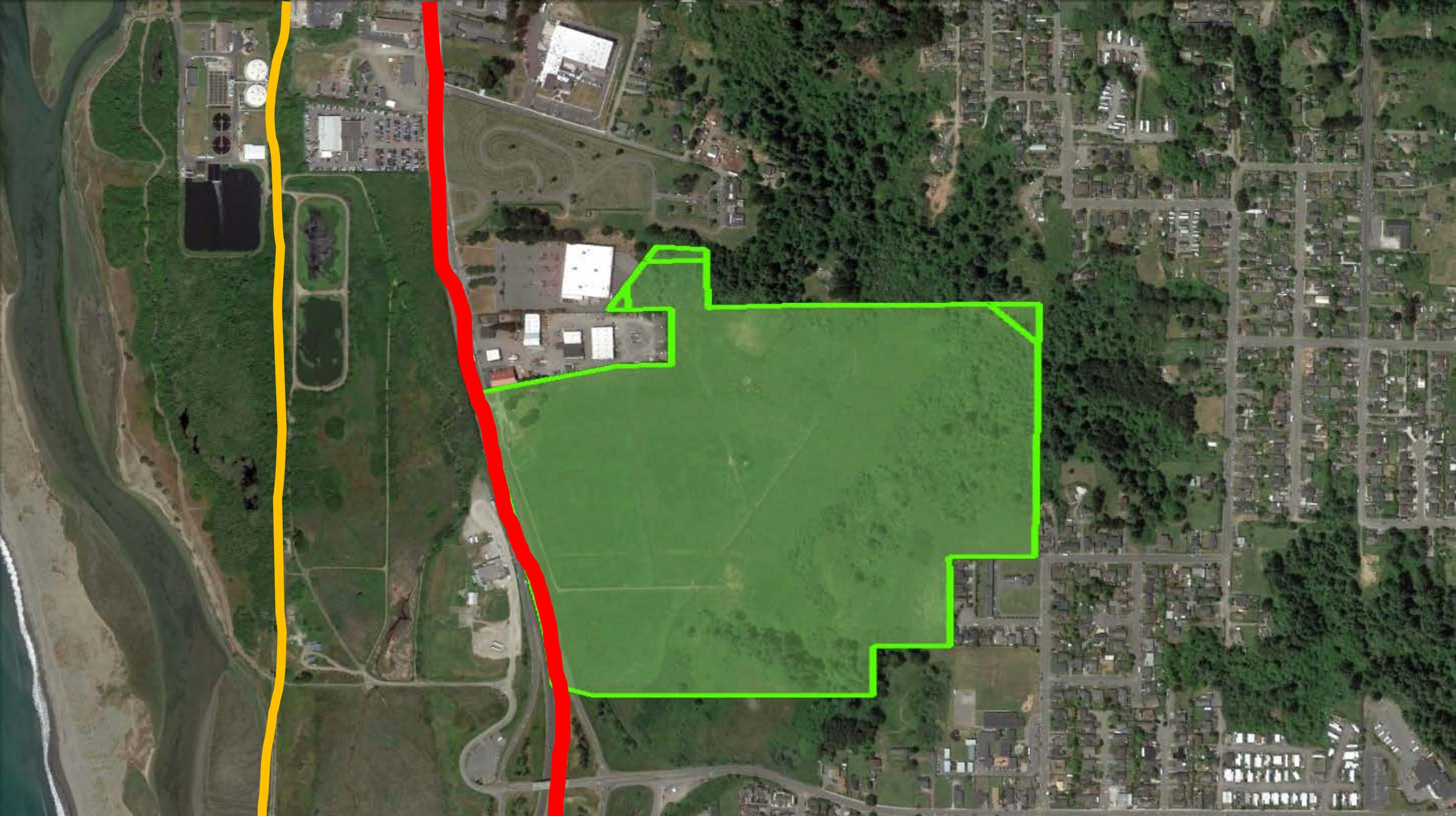


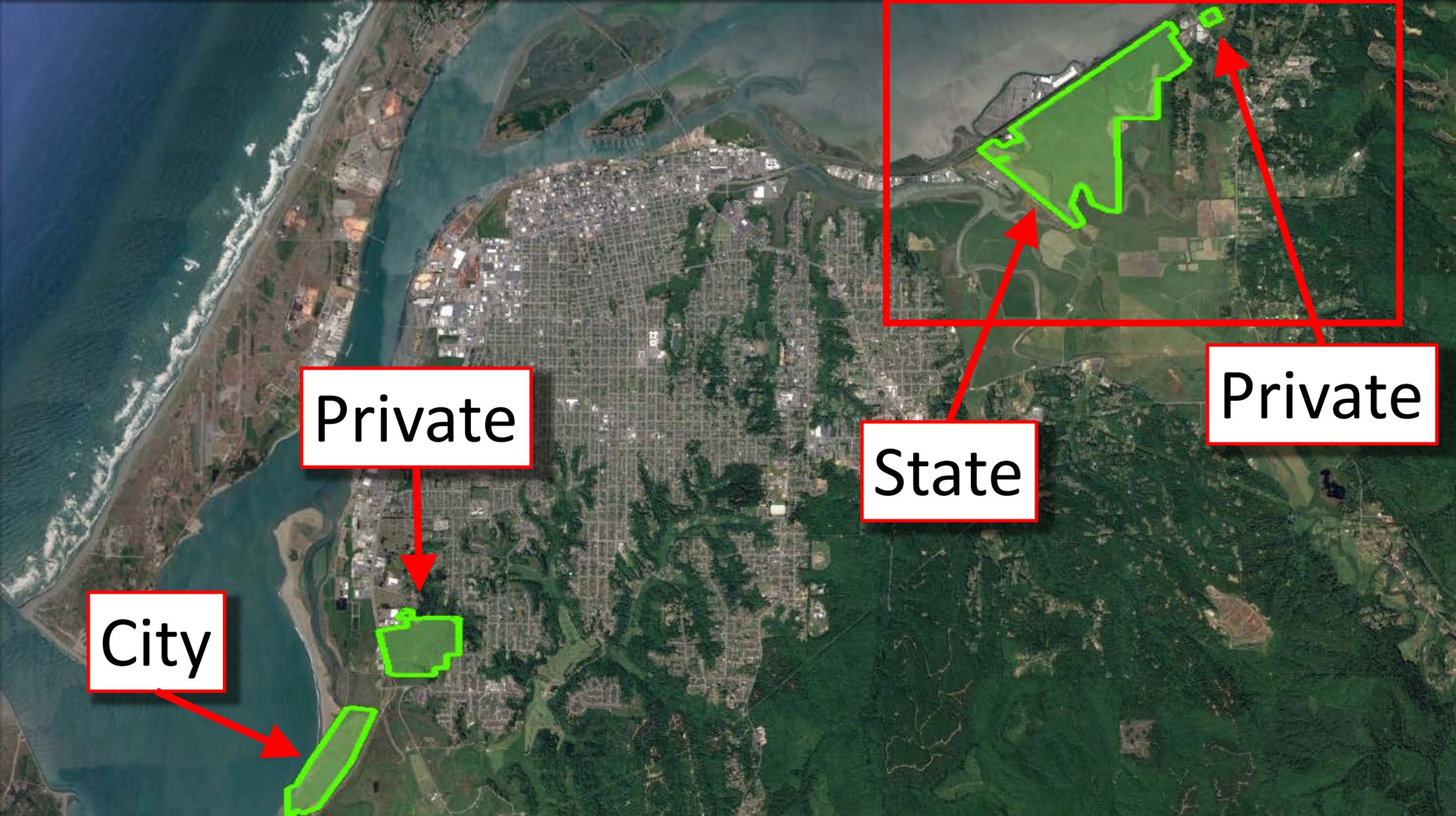
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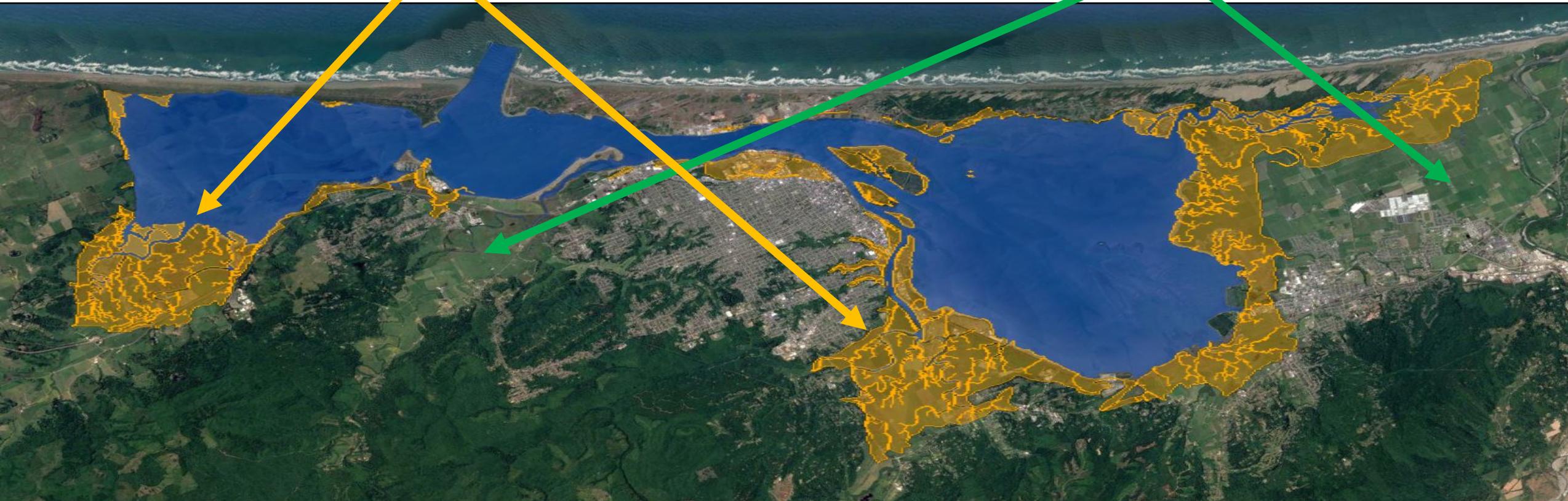
SLR on Eureka's Ag Lands...

- No SLR projections shown.
- Where will SLR occur on Eureka's ag lands?
- Does it matter? Is that the right question to ask?
- When will SLR occur on Eureka's ag lands?
- Does it matter? Is that the right question to ask?

HUMBOLDT BAY'S AGRICULTURAL LANDS

Diked Former Tidelands

Alluvial Soils

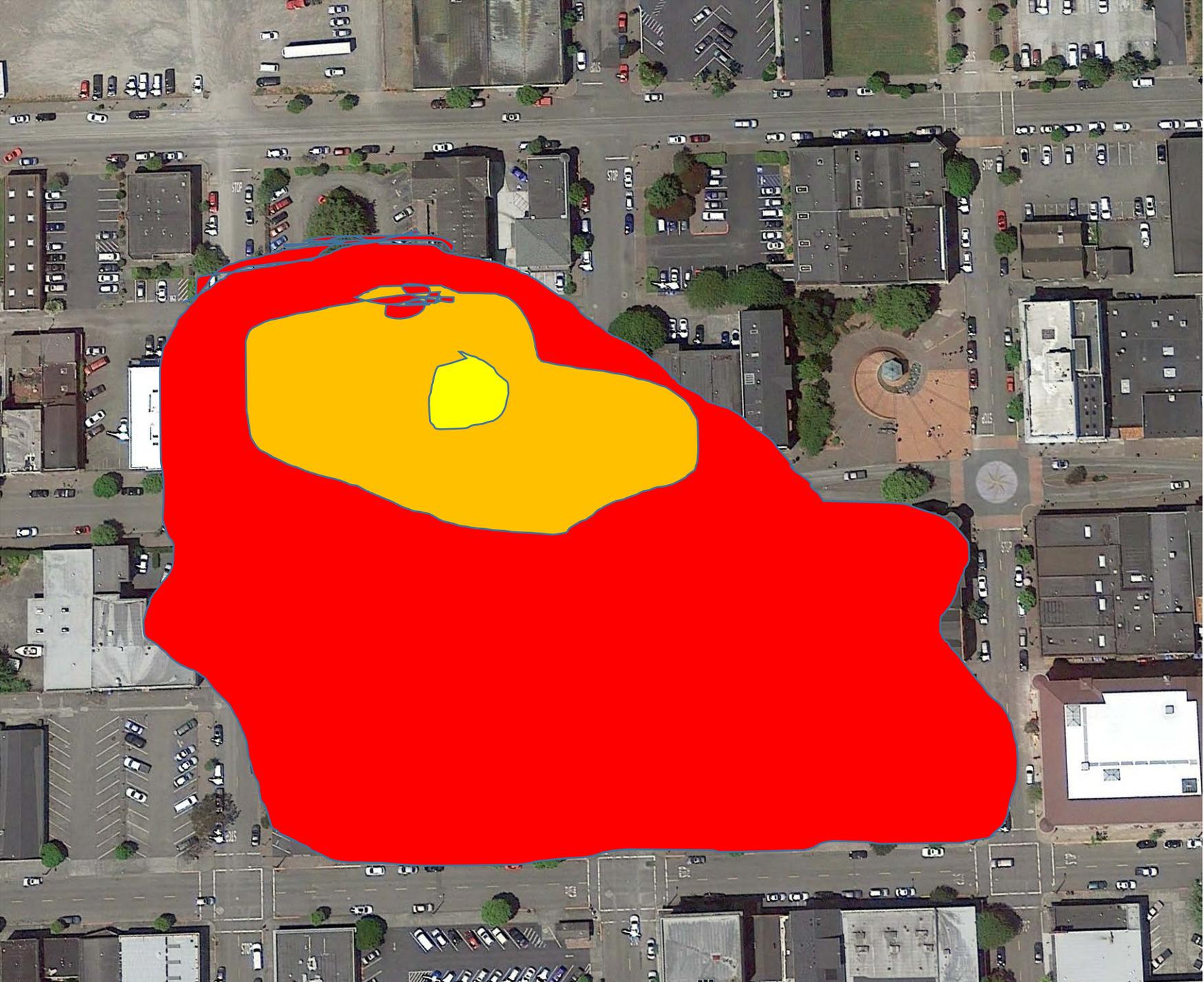


Why (to some degree) SLR doesn't matter...

- These are “diked former tidelands.” They are “artificial.”
- They are currently protected against tidal inundation by aging infrastructure.
- They are already very vulnerable to tidal inundation.
- Even with “Sea Level Fall,” our Ag Lands would still be vulnerable.
- SLR will only inundate Ag Lands if we allow this to happen.

The flaw of SLR Projection Maps...

- SLR Projection Maps assume that we will allow SLR to inundate the areas shown.
- Imagine a “Catastrophic Downtown Fire Projection Map.”



The flaw of SLR Projection Maps...

- SLR Projection Maps assume that we will allow SLR to inundate the areas shown.
- Imagine a “Catastrophic Downtown Fire Projection Map.”
- The City invests millions of dollars annually to prevent catastrophic fires. We **choose** to stop that type of impact from occurring.
- We need to stop studying “**where**” SLR will occur and start asking ourselves where we will “**allow**” SLR to occur.

HUMBOLDT BAY-HYDROLOGIC UNITS

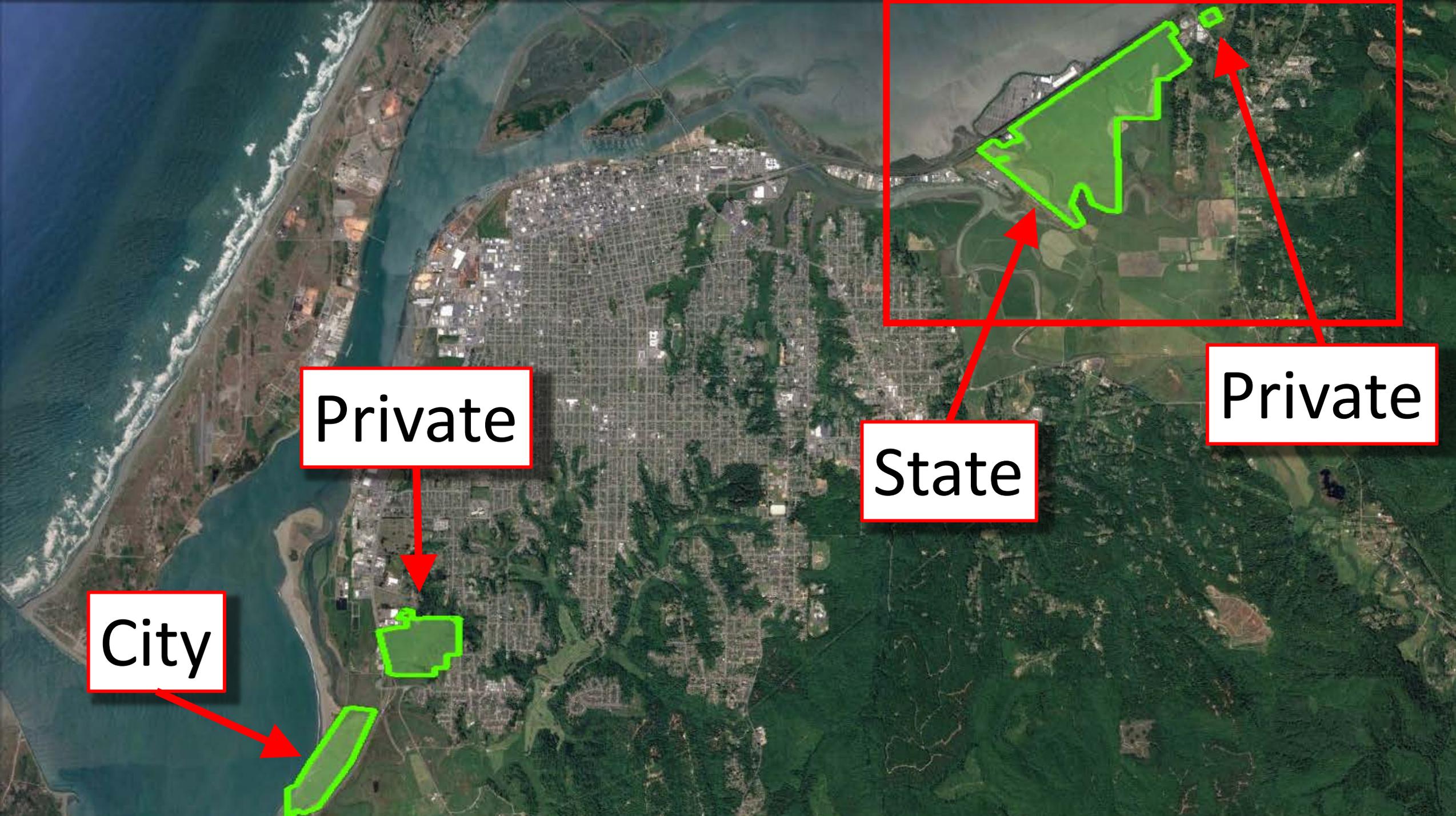
2.0 Meters (6.6') of Sea Level Rise ~ 14 feet NAVD88



- Time

- Money

- Priorities



Private

State

Private

City

Eureka: SLR and Ag Lands

- At all four sites – NCRA RR is first line of defense
- Three of four sites – US 101 is first line of defense
- The vast majority of Eureka's shoreline is artificial; Eureka has been holding back the bay since 1858
- For SLR in general – Eureka's stance is "**DEFENSE!**"
- Eureka's focus is "What are we going to do?" Not "when is it going to happen?"











Eureka: SLR and Ag Lands

- Multigenerational Planning – 20 years vs. 100 years
- 1950 Community Development Director
- What matters most and how hard are we willing to work to protect it?
- For SLR in general – Eureka’s stance is “**DEFENSE!**”
- Eureka’s focus is “What are we going to do?” Not “when is it going to happen?”