

Black River Pump Station Improvements

King County Flood Control District Executive Committee Meeting

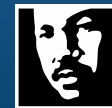
Mark Ruebel PE
Supervisor - Capital Strike Team
September 16, 2020

Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section

Service provider to the King County Flood Control District

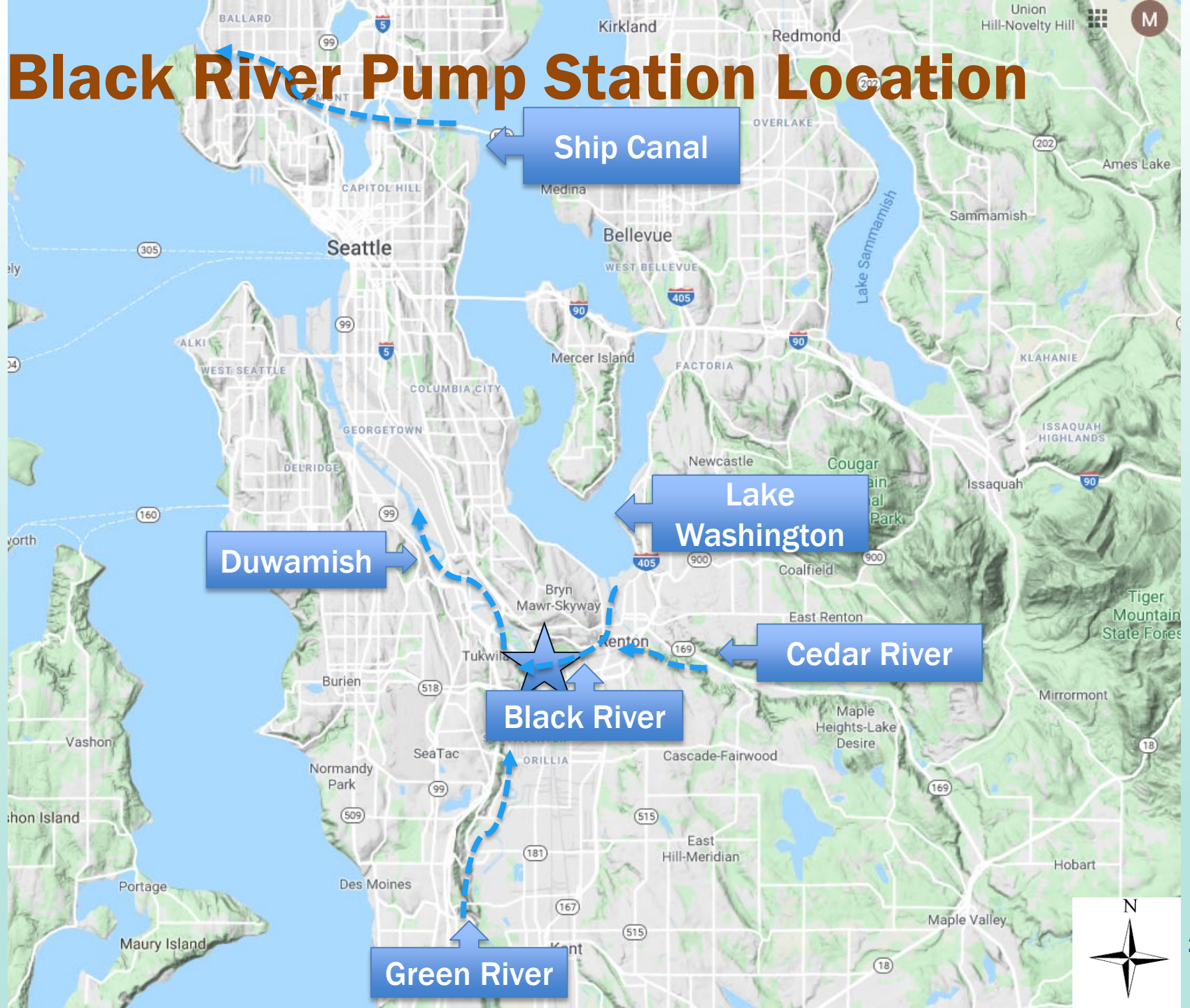


**KING COUNTY
FLOOD CONTROL
DISTRICT**

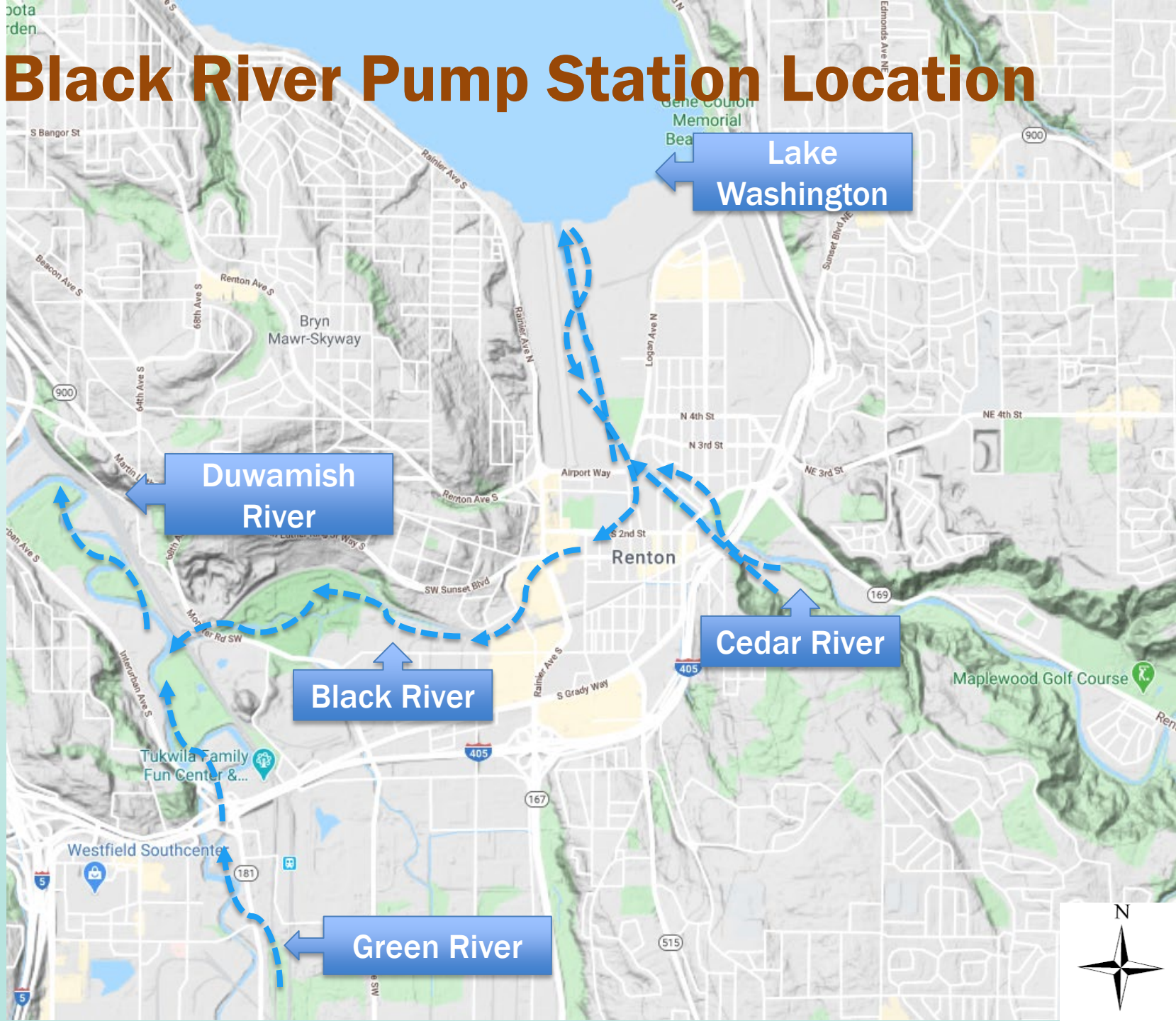


King County

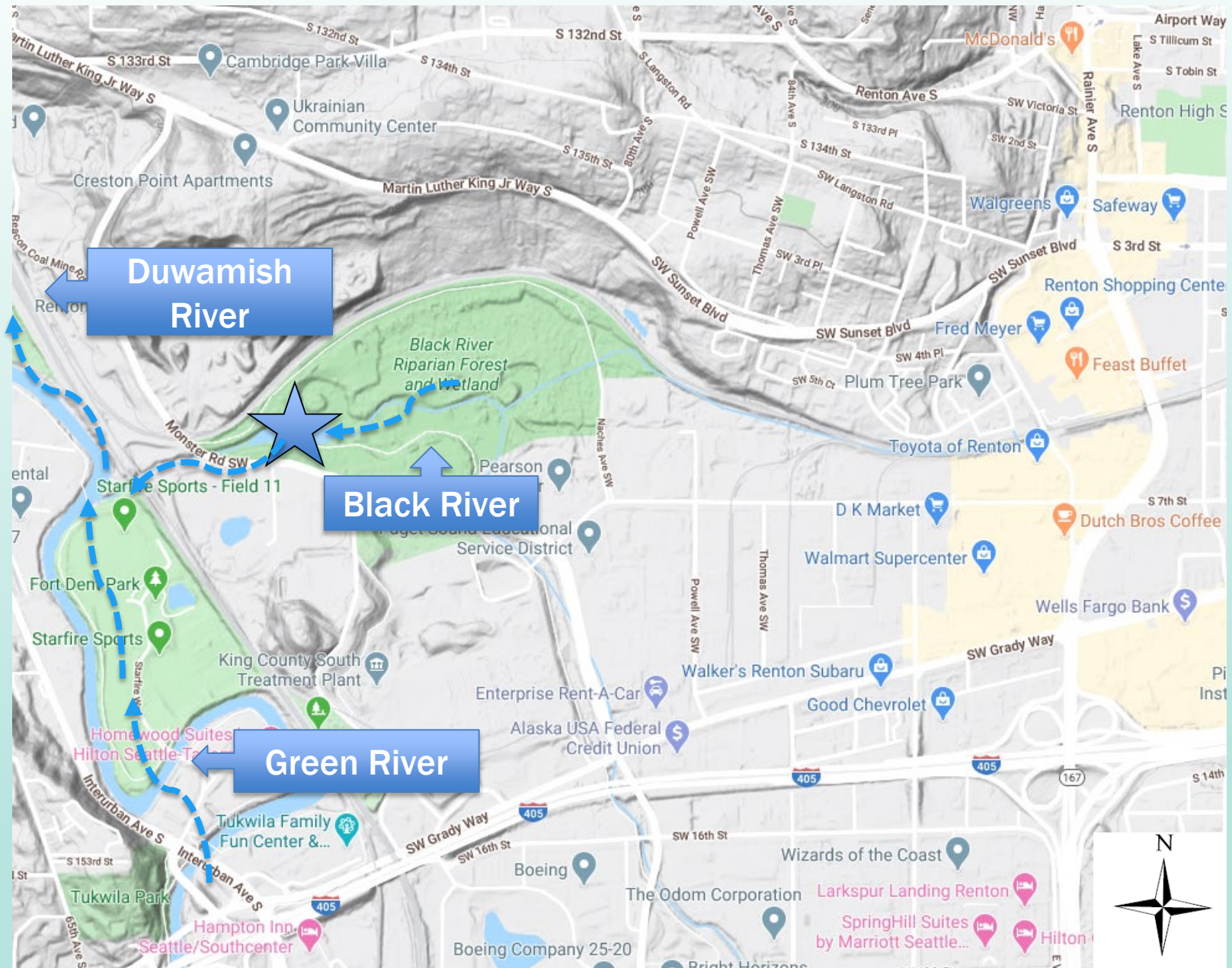
Black River Pump Station Location



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Black River Pump Station Location



Historic flooding



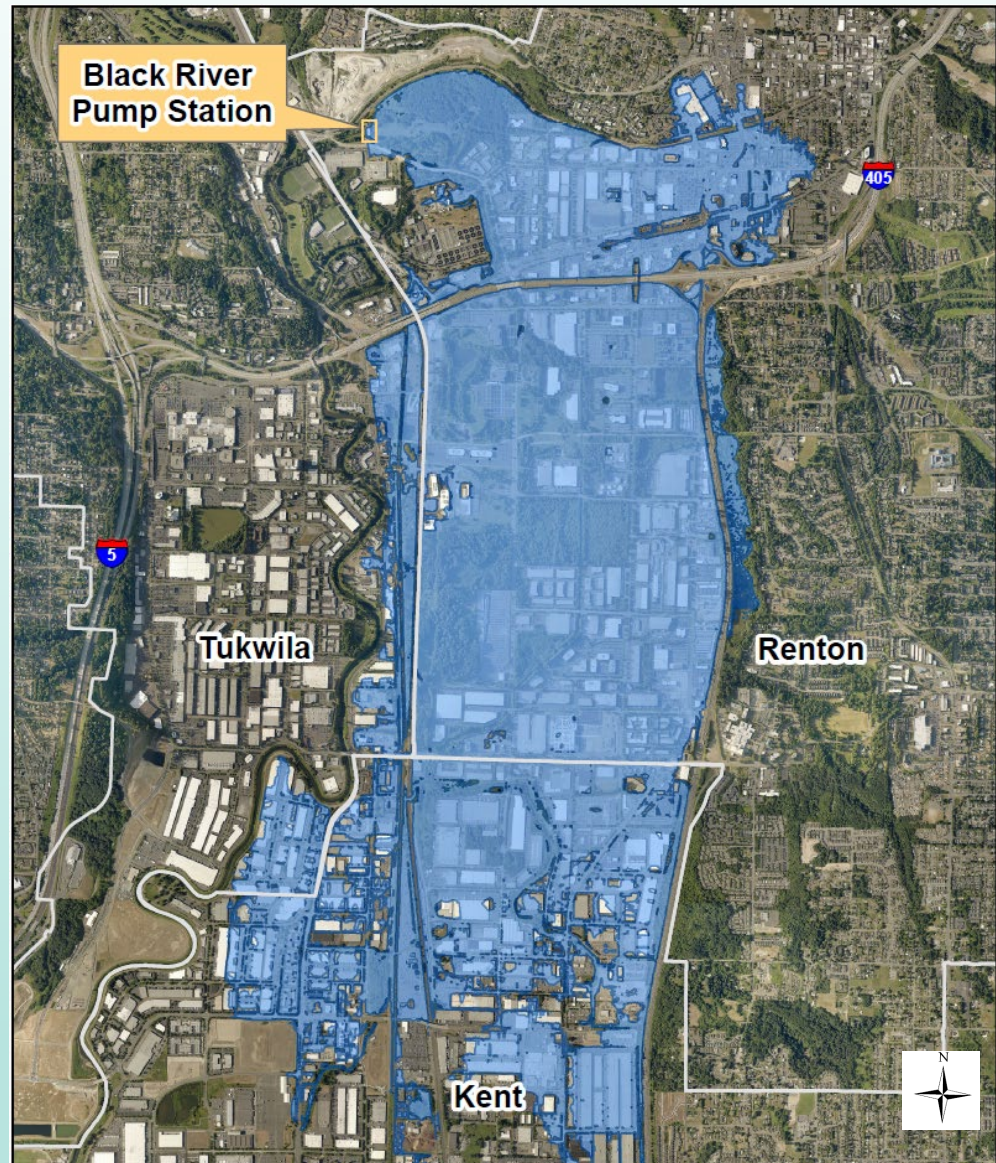
WINTER 1964 - 65 SOUTH OF RENTON

Land use change



Protection from Flood Inundation

- **0.2% Annual Exceedance Probability (aka 500-year flood)**
 - Results in WSE of 27.5 feet (NAVD 88)
- **\$4.4 billion improvements inundated including:**
 - 2,800 acres
 - 640 buildings
 - FAA, KC Elections Boeing, Ikea, Fred Meyer, Walmart
 - Portions of Renton Kent and Tukwila



Capital Needs

- Replace High-Use Pump Engines
- Replace Control Building
- Mechanical System Upgrades
- Fish Passage and Exclusion Improvements
- Seismic and Structural Retrofits
- Replace Large Pump Engines
- Implementation 2020-2027

Replace High-Use Pump Engines



Replace Control Building



Fish Passage and Exclusion Improvements

**Denil (Alaska Steeppass)
for Upstream Passage**



**Airlift for Downstream
Passage**



Seismic and Structural Retrofits



Replace Large Pump Engines




Questions?



Q



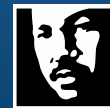
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