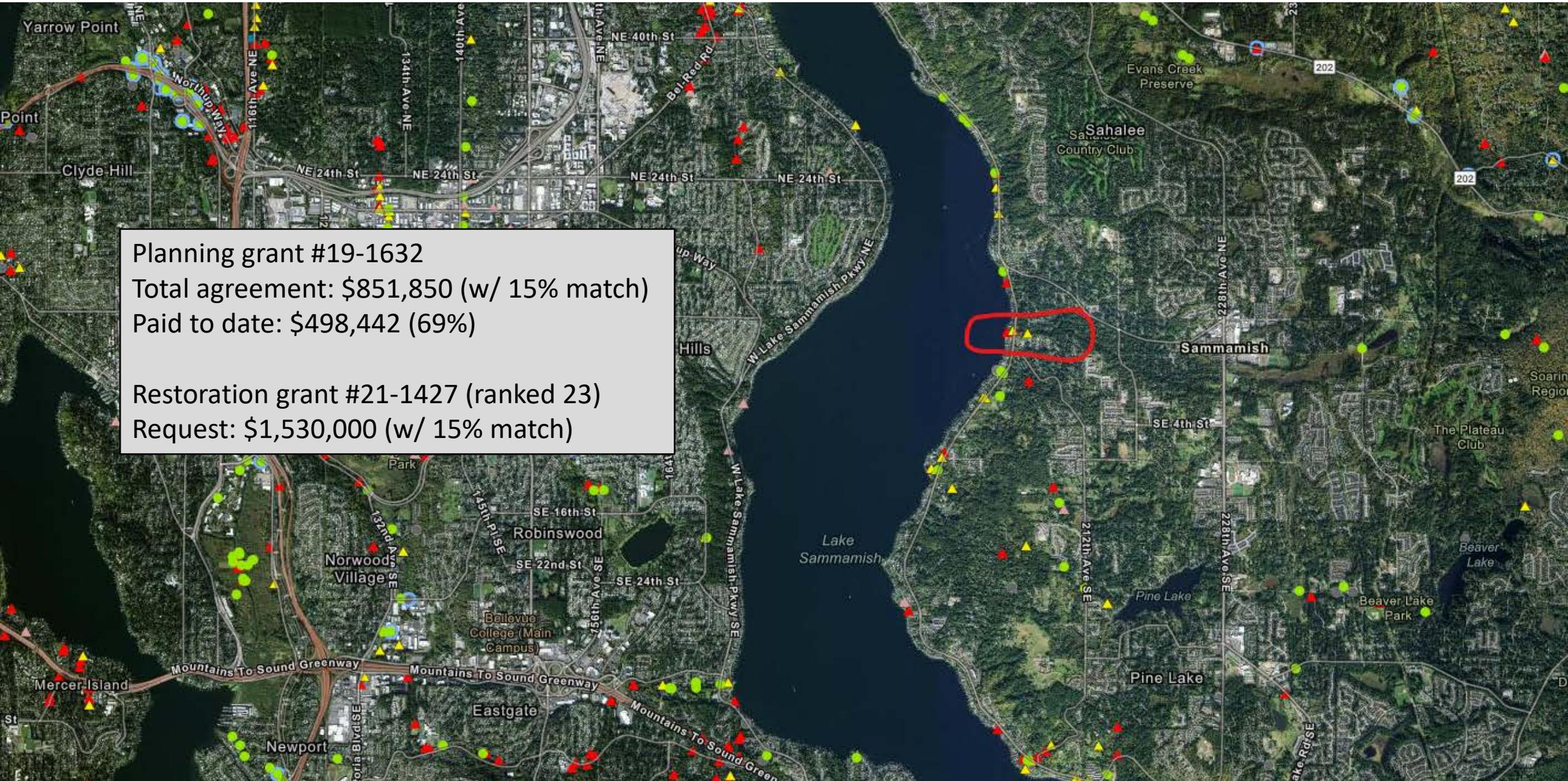


# George Davis Creek Fish Passage Improvements



Planning grant #19-1632  
Total agreement: \$851,850 (w/ 15% match)  
Paid to date: \$498,442 (69%)

Restoration grant #21-1427 (ranked 23)  
Request: \$1,530,000 (w/ 15% match)

# Current Fish Passage Barriers

920268- 67% passable  
County crossing ▲

920111- 0% passable  
City crossing ▲

920017- 0% passable  
Private crossing ▲

▲ 920112- 33% passable  
City crossing

E Lake Sammamish Shore Ln NE

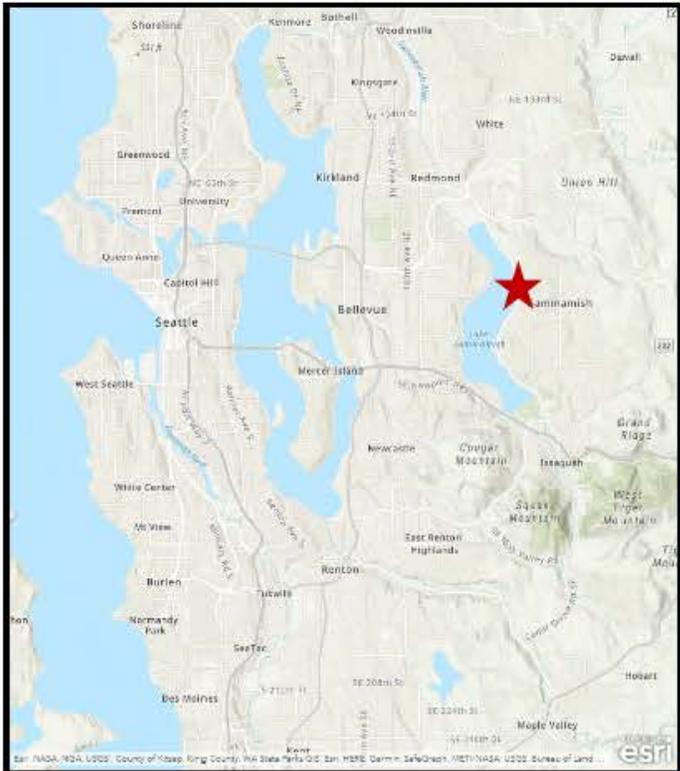
E Lake Sammamish Pkwy NE

E Lake

NE 7th Ct

NE 5

NE



Proposed realignment (at 0777100040)

Existing creek mouth (at Linde Property)

Culvert Crossings (to be replaced)

Existing high flow bypass (to be decommissioned)

Existing sedimentation basin (to be decommissioned)



# 920112- 33% passable- City diversion dam

**Upstream ravine- high quality spawning & rearing habitat (reference reach)**



**20 ft wide channel spanning weir with a 3.5 ft hydraulic drop**



# Between ravine and ELSP sediment basin

**Downstream of ravine, narrow, incised channel (adj. 520 ELSP residence)**



**Upstream of ELSP sediment basin- potential spawning habitat (adj. 520 ELSP residence)**



# Sediment basin at inlet of ELSP crossing

**September 2021**



**March 2022**



Outlet of ELSP  
crossing



Inlet of King Co Trail  
crossing



# Inlet ELS Shore Ln & outlet under residence





Proposed realignment (at 0777100040)

Existing creek mouth (at Linde Property)

Existing high flow bypass (to be decommissioned)

Culvert Crossings (to be replaced)

Existing sedimentation basin (to be decommissioned)

# Project Challenges:

- Purchased 4M property at 635 E. Lake Sammamish Ln NE to realign stream
  - (2M from King Co. & 2M from City)
- Major design changes from 30% to 60% plans
  - New TRT (area bio, scoping bio & engineer)
- Unwilling landowner (John Titcomb & Linde Behringer) = litigation
  - Resolved- City granted Public Use and Necessity (March 13, 2023)
- Design challenges
  - Structure size and type
  - Slope >6% = step-pool morphology
  - Narrow project areas
  - Sediment budget & proposed gradation
  - Delta formation