

George Davis Creek Fish Passage Improvements

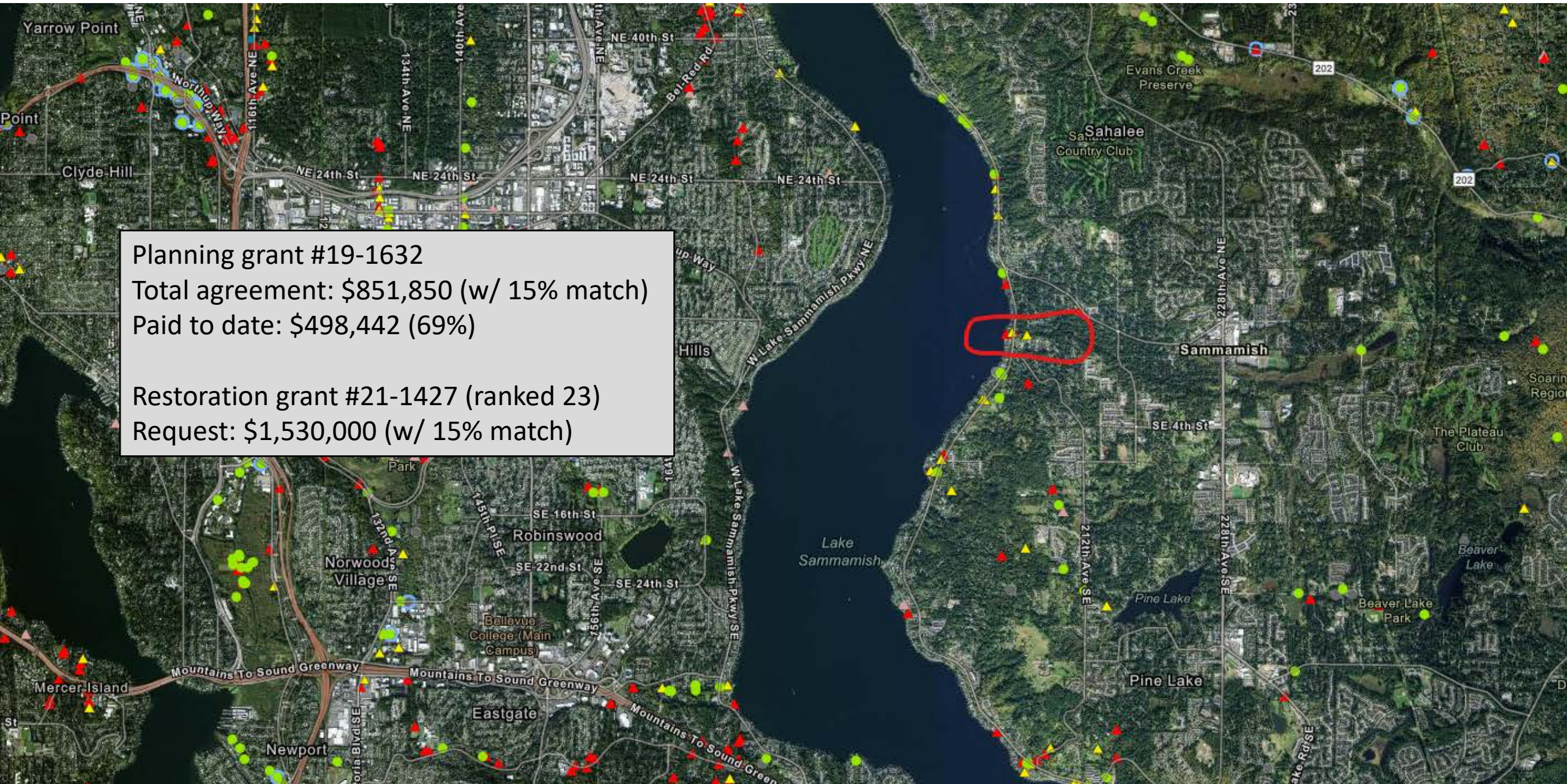
Planning grant #19-1632

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 ▲

920017- 0% passable
Private crossing ▲

920111- 0% passable
City crossing ▲

▲ 920112- 33% passable
City crossing

E Lake Sammamish Shore Ln NE

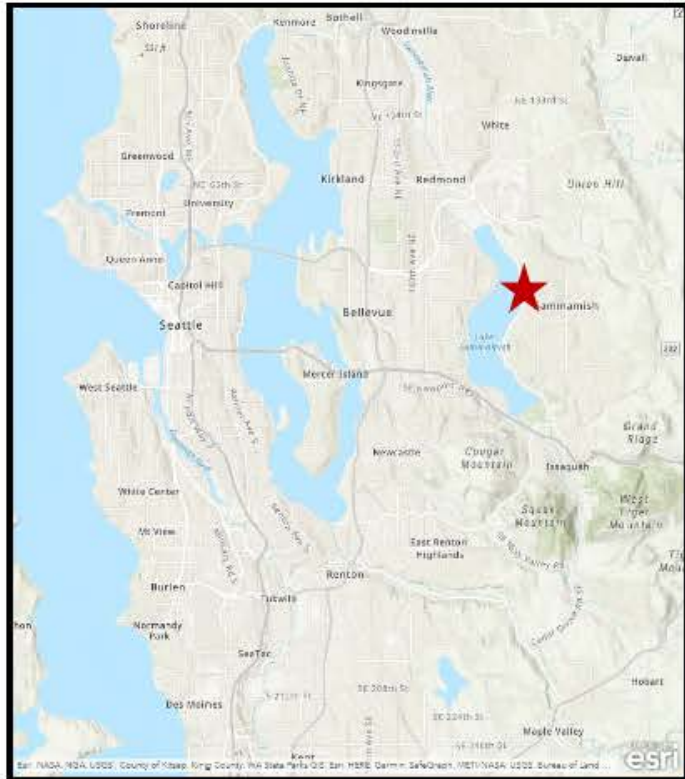
E Lake Sammamish Pkwy NE

E Lake

NE 7th Ct

NE 5

NE



Proposed
realignment (at
0777100040)

Existing creek
mouth (at
Linde Property)

0 30 60ft



East Lake Sammamish Lane

East Lake Sammamish Trail

East Lake Sammamish Parkway NE

Existing high flow
bypass (to be
decommissioned)

Culvert
Crossings (to
be replaced)

Existing sedimentation
basin (to be
decommissioned)

NE 7TH Court

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

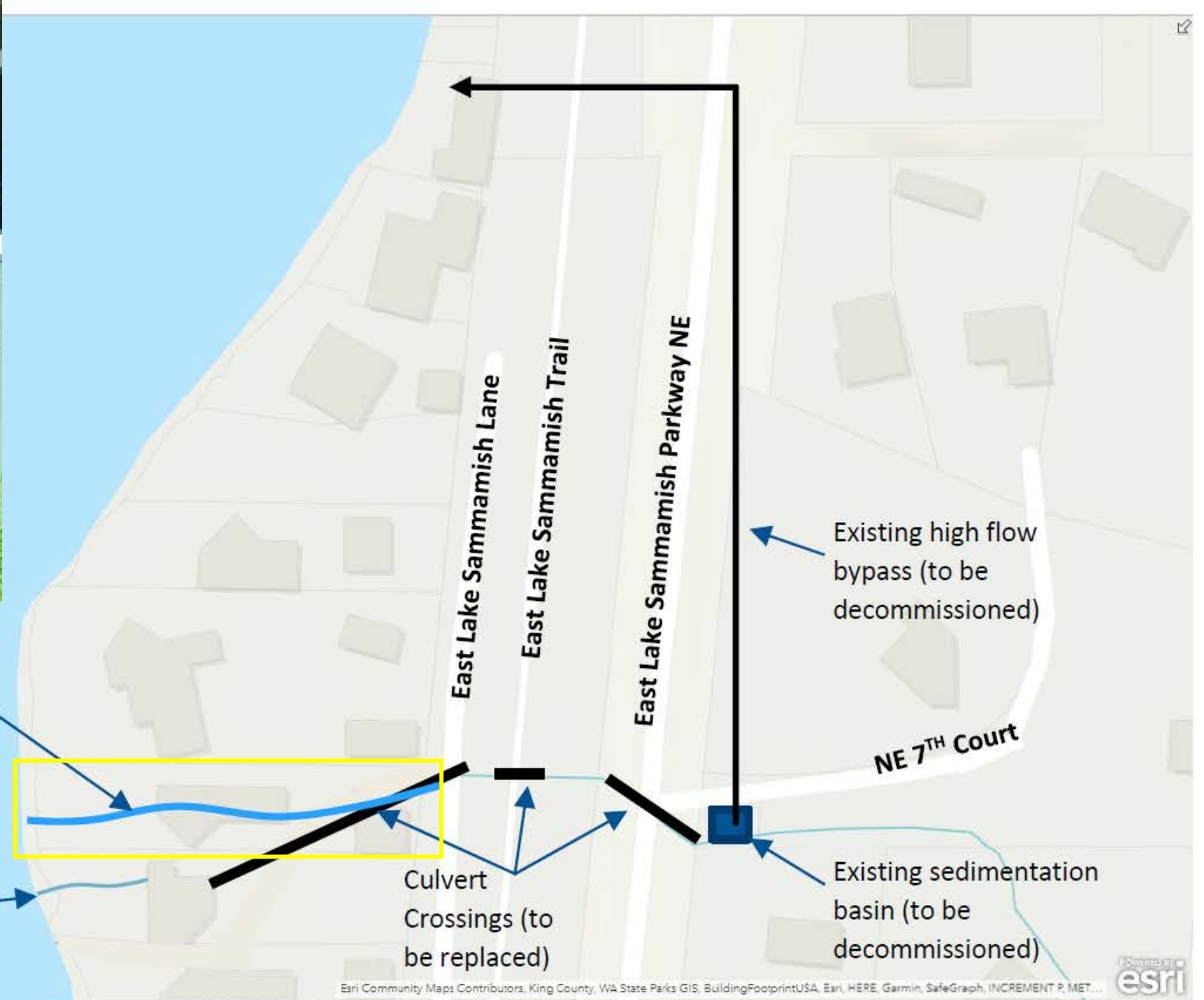


Inlet of King Co Trail
crossing



Inlet ELS Shore Ln & outlet under residence





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Existing sedimentation
basin (to be
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Culvert
Crossings (to
be replaced)

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