### Griffin Creek Pilot Project

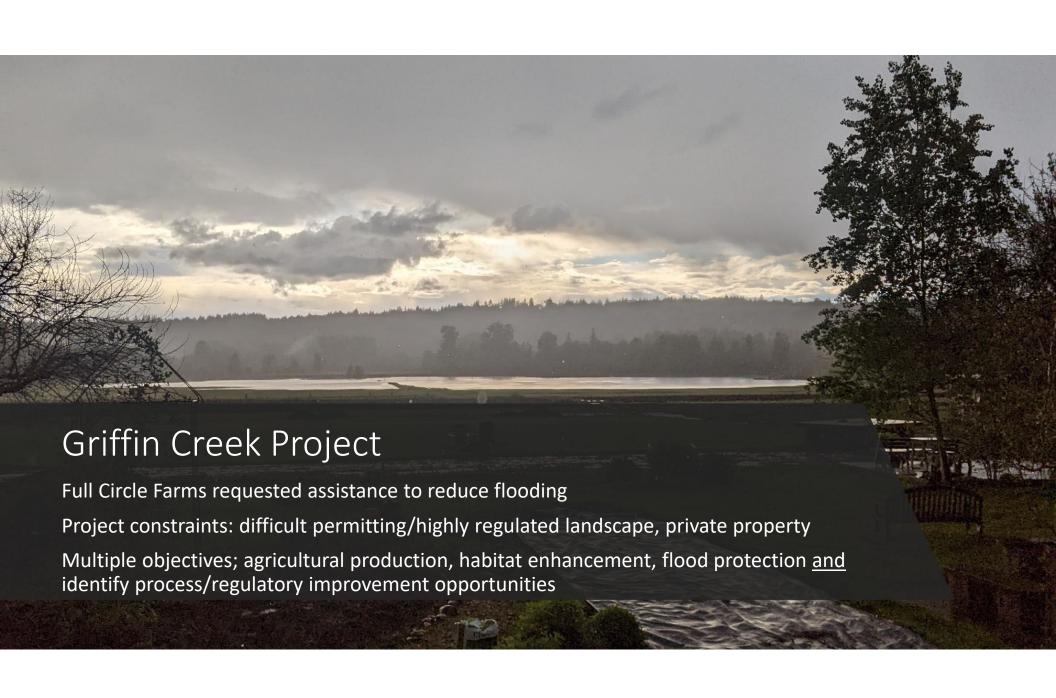


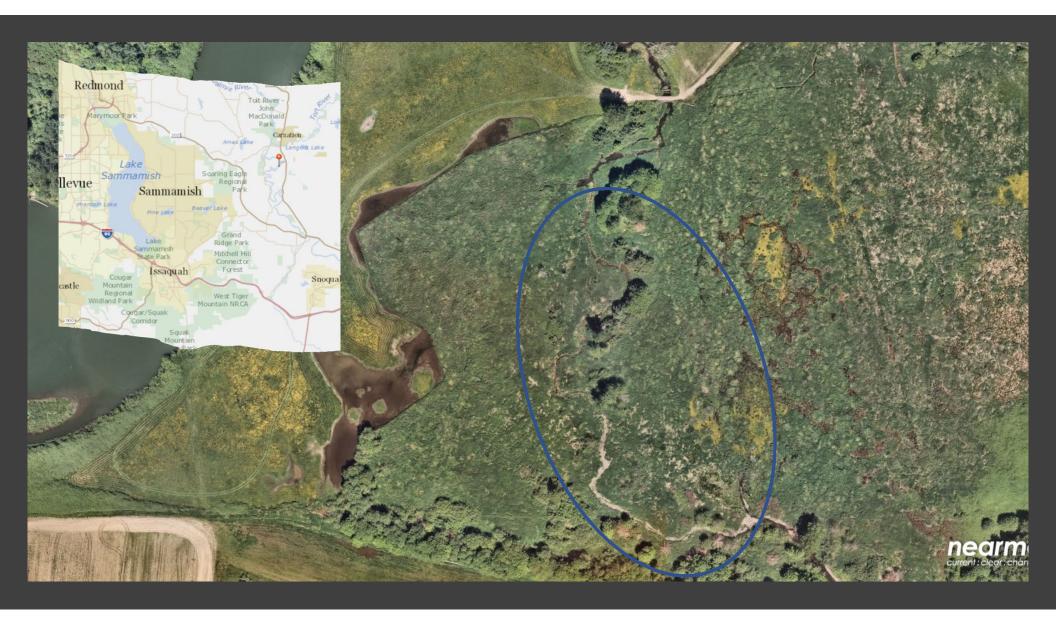
July 14, 2022



# Integrated Drainage Projects (IDP)

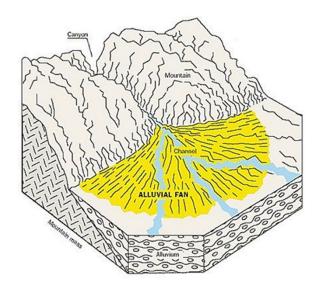
- Fish, Farm, Flood; farmers asked for drainage assistance beyond ADAP
- IDP is aimed at providing county wide drainage services, in larger systems &/or more complex projects than ADAP
- Focused on agricultural drainage; projects overlap with salmon recovery, flood hazard mitigation objectives
- Projects take place on private ownership; landowners have final say on what projects will take place





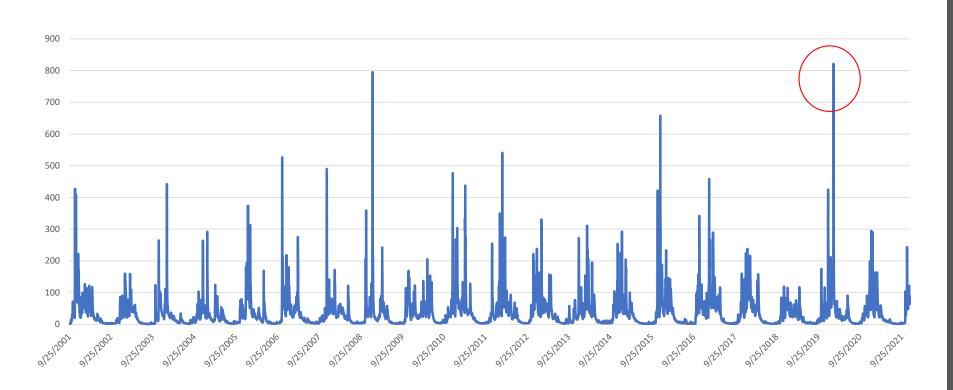


Alluvial Fans are Common in the Snoqualmie Valley & Contribute to Flooding of Agricultural Lands

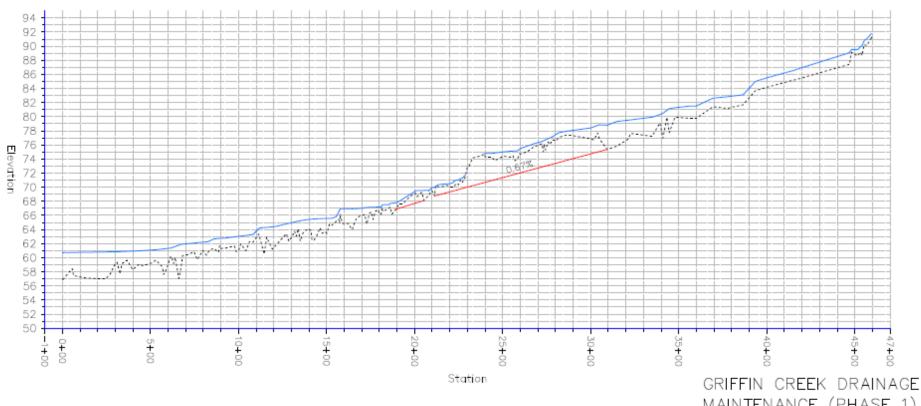












MAINTENANCE (PHASE 1)

DRAHI 🎞 🤅

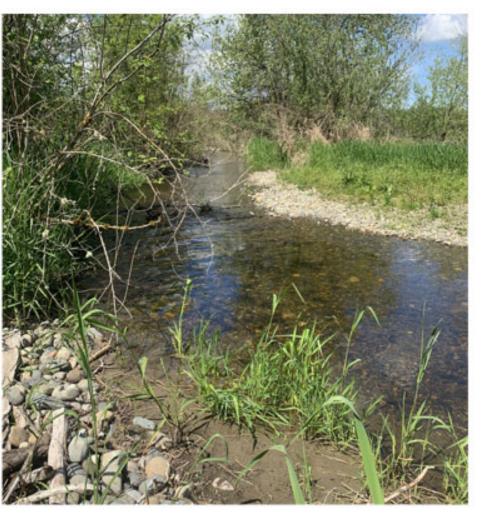
----- Existing Channel Bottom (at thalweg)
Approximate Excavation
Water Surface (Jan. 26, 28, Feb. 4)













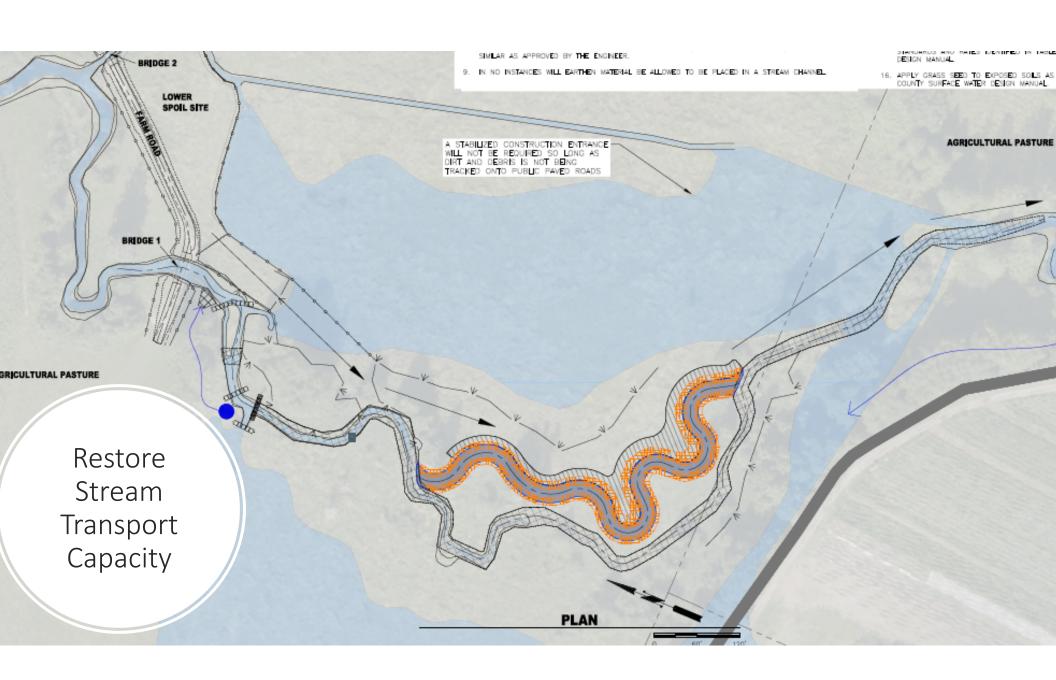
## Restore stream transport capacity

- Remove gravel from portion of Griffin Creek with single thread channel
- Repair degraded streambank
- Reestablish consistent channel gradient
- Decrease flooding up to 1.5 yr. events
- Reestablish habitat forming processes: transport of wood water and sediment
- Provide for fish passage at usual stream flows



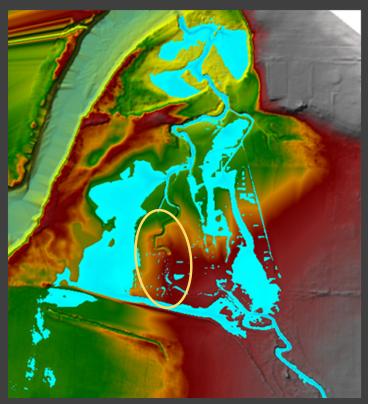




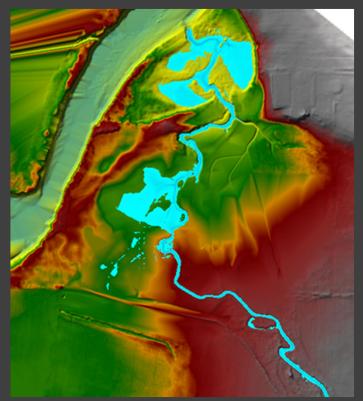


## Restoring channel transport capacity HEC RAS 2D model output @100 cfs

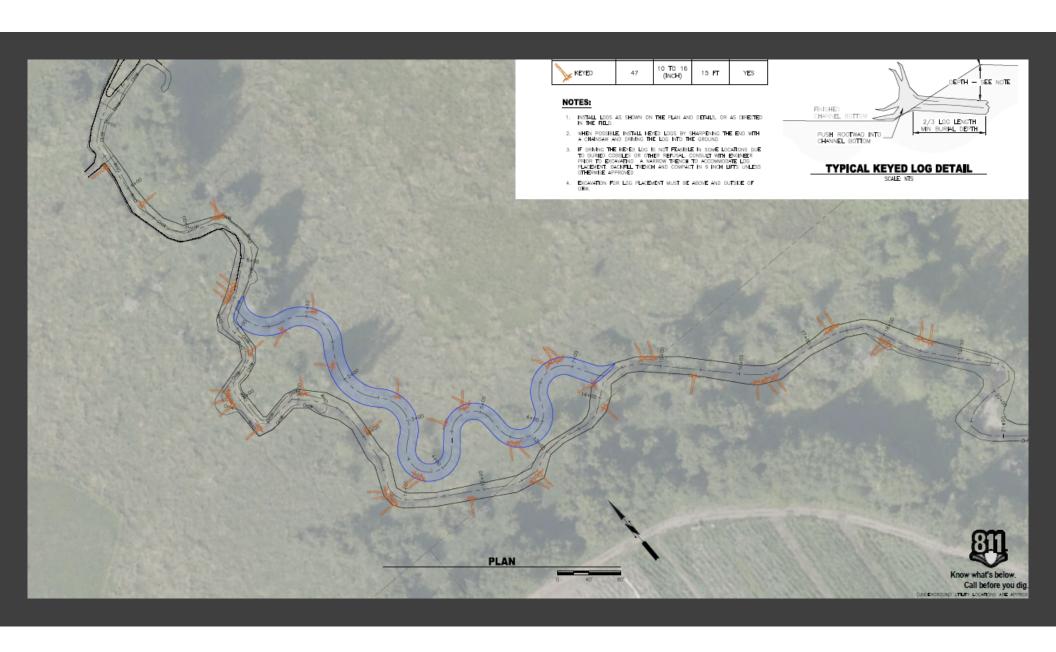
**Current Conditions** 



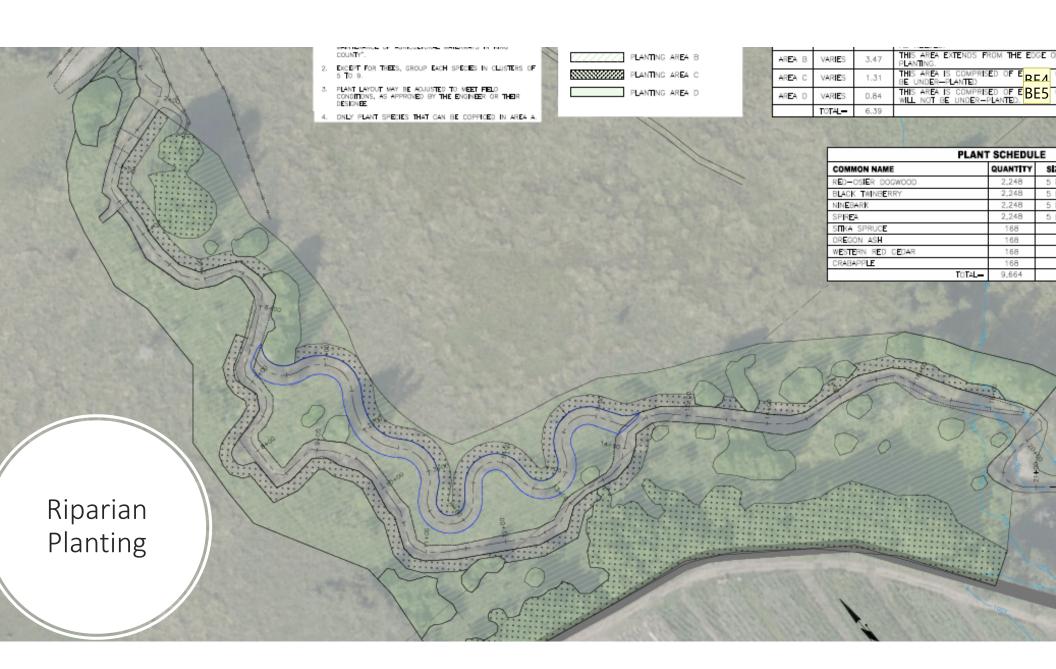
With Gravel Removal













Project Timeline

Summer 2022: Complete Design, State and Local Permitting

Fall 2022: Sediment removal, Wood placement, Bridge Replacement

Spring 2023: Riparian planting

Fall 2023: Side channel construction

#### Learnings & Opportunities

- County response to landowners with flooding from tributary streams
  - Needs to be timely
    - Will require an emergency action permit pathway
    - Internal county process needs to be resolved, ideally truncated
  - Currently a gap in service provision
    - Flood Control District focus is on existing facilities
    - Is IDP the right approach? Requires funding and staff
- Partnering with Service Districts, Tribes and Conservation Groups, may be the best approach
  - Allows work to proceed without the onerous KC procurement process
  - Can draw on resource professionals from the different organizations
  - · Gets buy-in on the project from the various stakeholder during design