



Lower Satsop Restoration & Protection Program

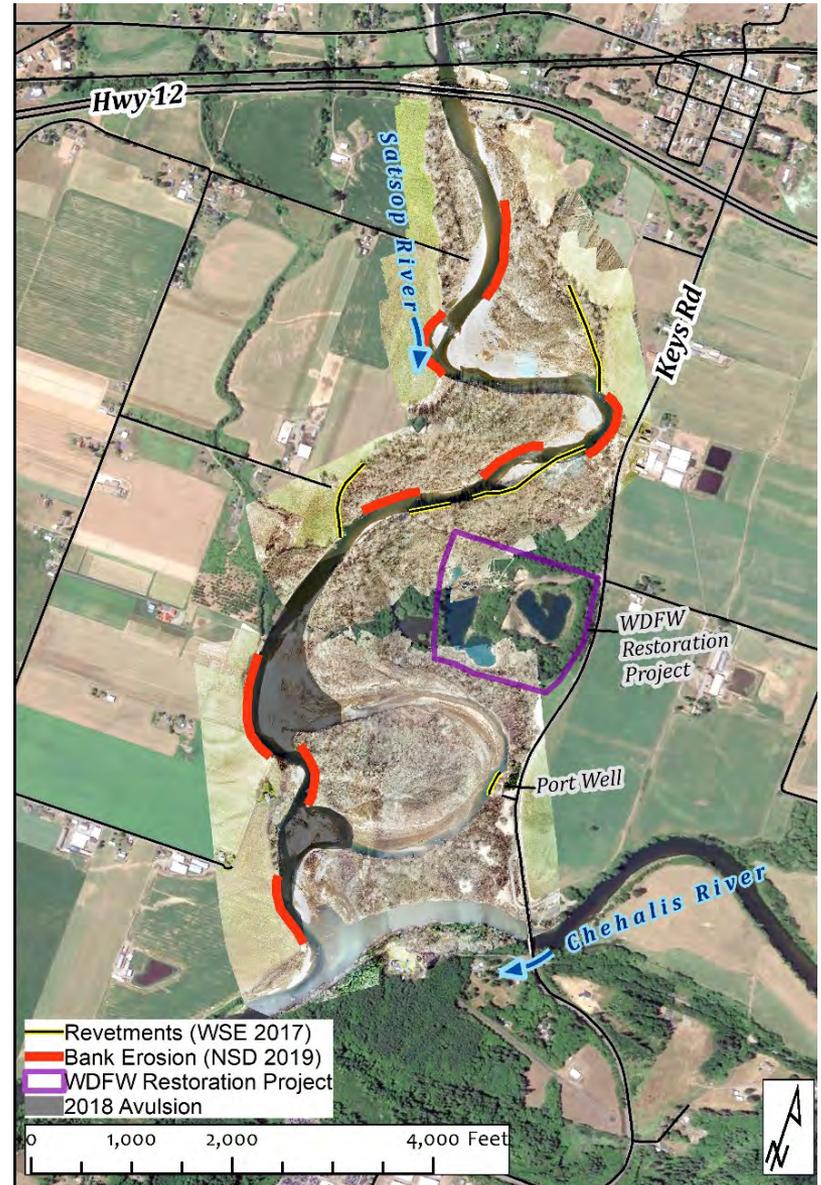
Phase I – Keys Road Corridor Flood Protection

May 26, 2020



Background

- Bank Erosion
- Revetments
- Keys Road
- Port Well
- WDFW Restoration Project
- 2018 Avulsion
- Habitat Loss
- Loss of Floodplain Access
- Community Frustration
- Lack of Momentum



Background

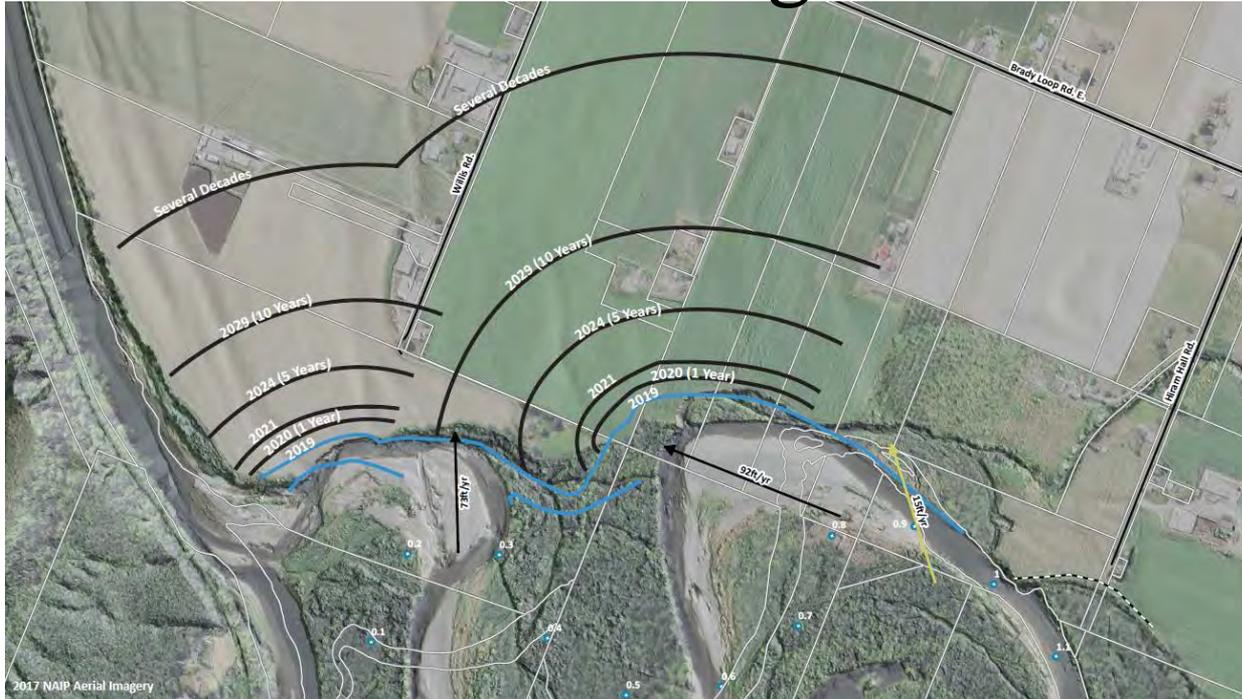


1953



2019

Background



Click below (and scroll to bottom of page)



12/04/2018 Drone Footage → Click [here](#).

01/06-09/2020 Flood (Webcam Video) → Click [here](#).

2/27/2020 WDFW Drone Footage:

→ Pictures -- Click [here](#).

→ Video1 -- Click [here](#).

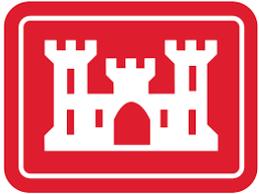
→ Video2 -- Click [here](#).

→ Video3 -- Click [here](#).

→ Video4 -- Click [here](#).

→ Video5 -- Click [here](#).

Background (Advisory Group)





Background

Lower Satsop Restoration & Protection Program



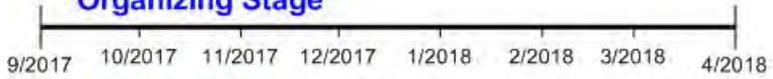
1953

2019

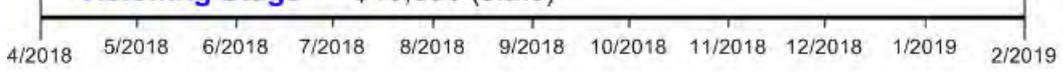
(Phase I)
Keys Road Corridor
Flood Protection
Project

(Phase II)
Habitat Connectivity
& Reach-Scale Aquatic,
Riparian and
Floodplain Restoration
Project

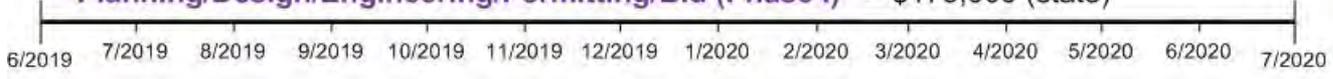
“Organizing Stage”



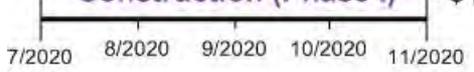
“Visioning Stage” -- \$40,000 (state)



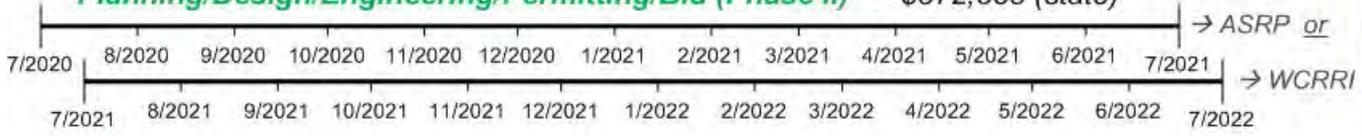
“Planning/Design/Engineering/Permitting/Bid (Phase I)” -- \$175,000 (state)



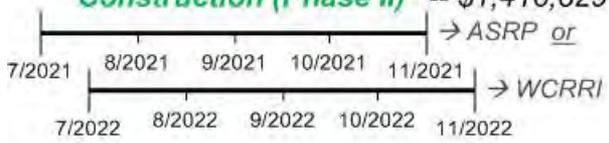
“Construction (Phase I)” -- \$1,725,024 (state), \$500K (local)



“Planning/Design/Engineering/Permitting/Bid (Phase II)” -- \$372,553 (state)

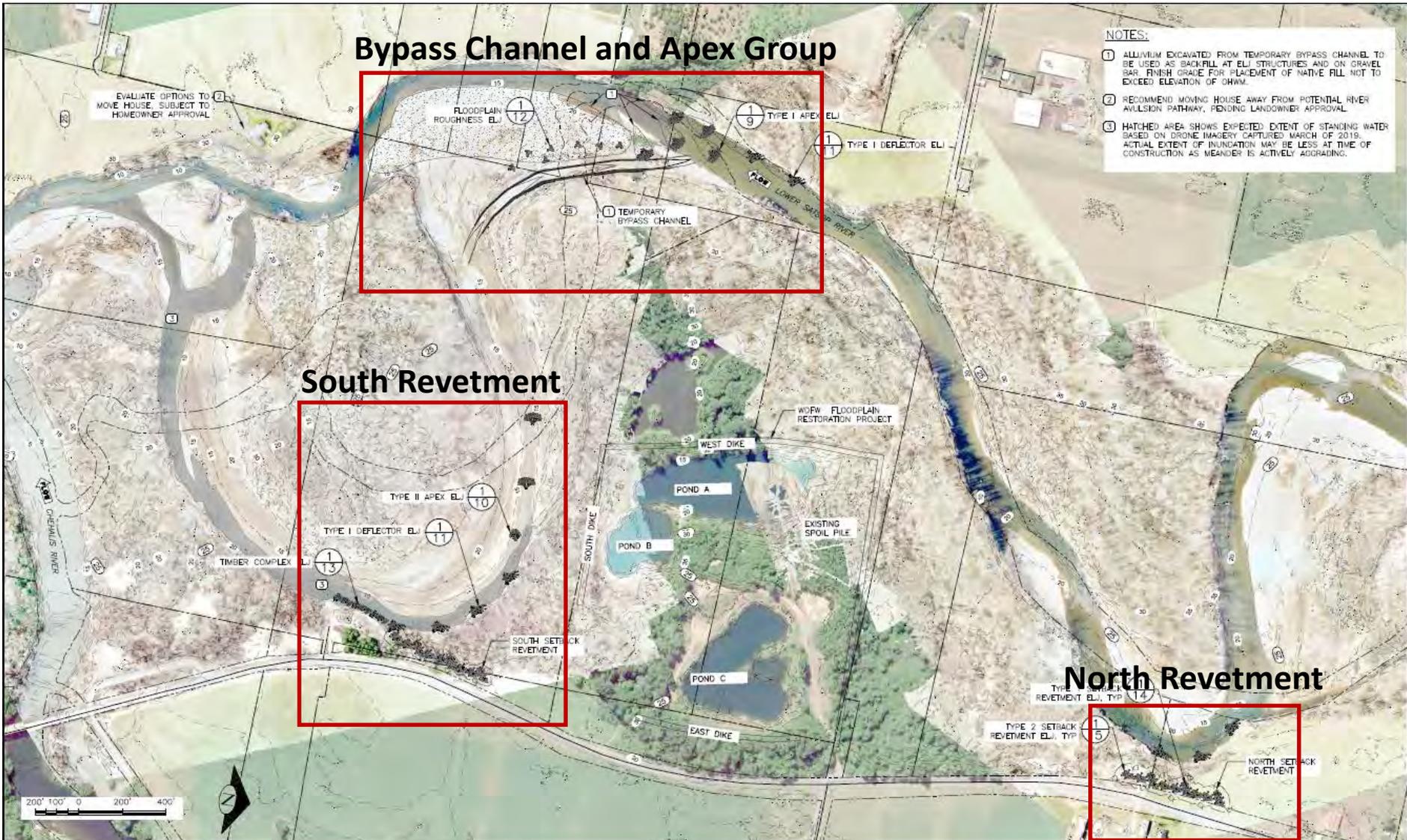


“Construction (Phase II)” -- \$1,416,829 (state)

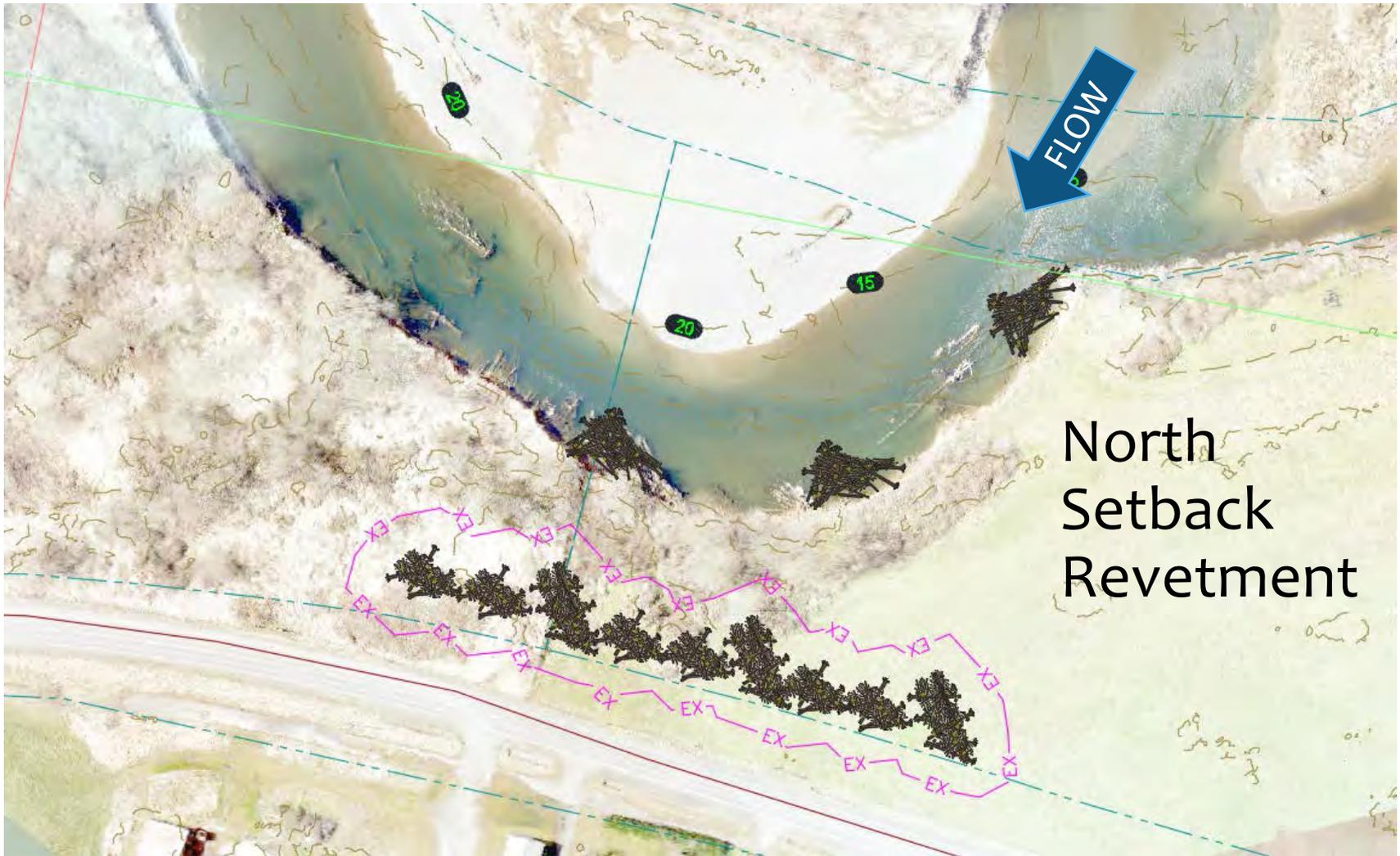


- ✓ Many Community Meetings.
- ✓ Many Individual Meetings/Presentations/Tours.
- ✓ Many Multi-Agency Advisory Group Meetings.

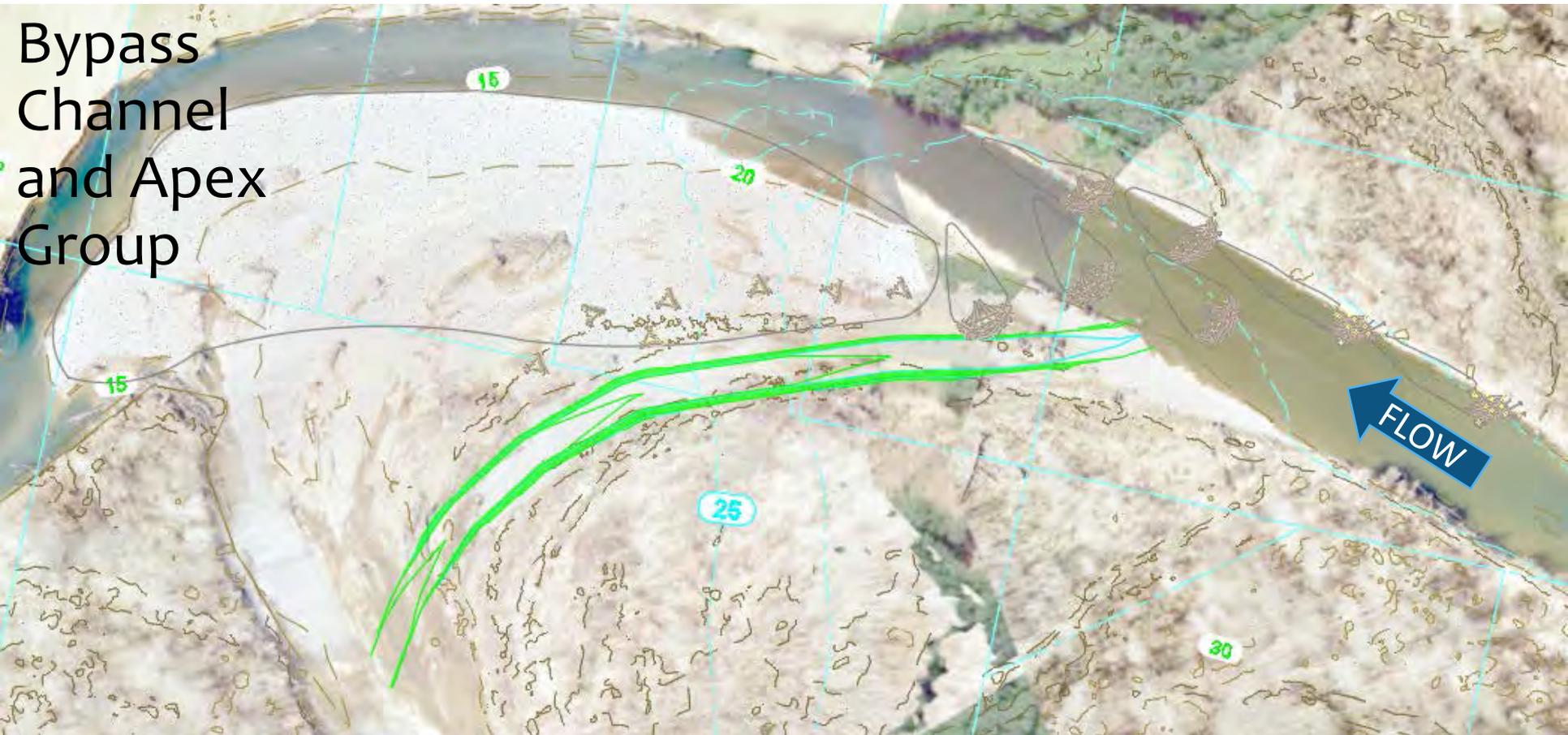
Phase I (2020), Keys Road Corridor Flood Protection



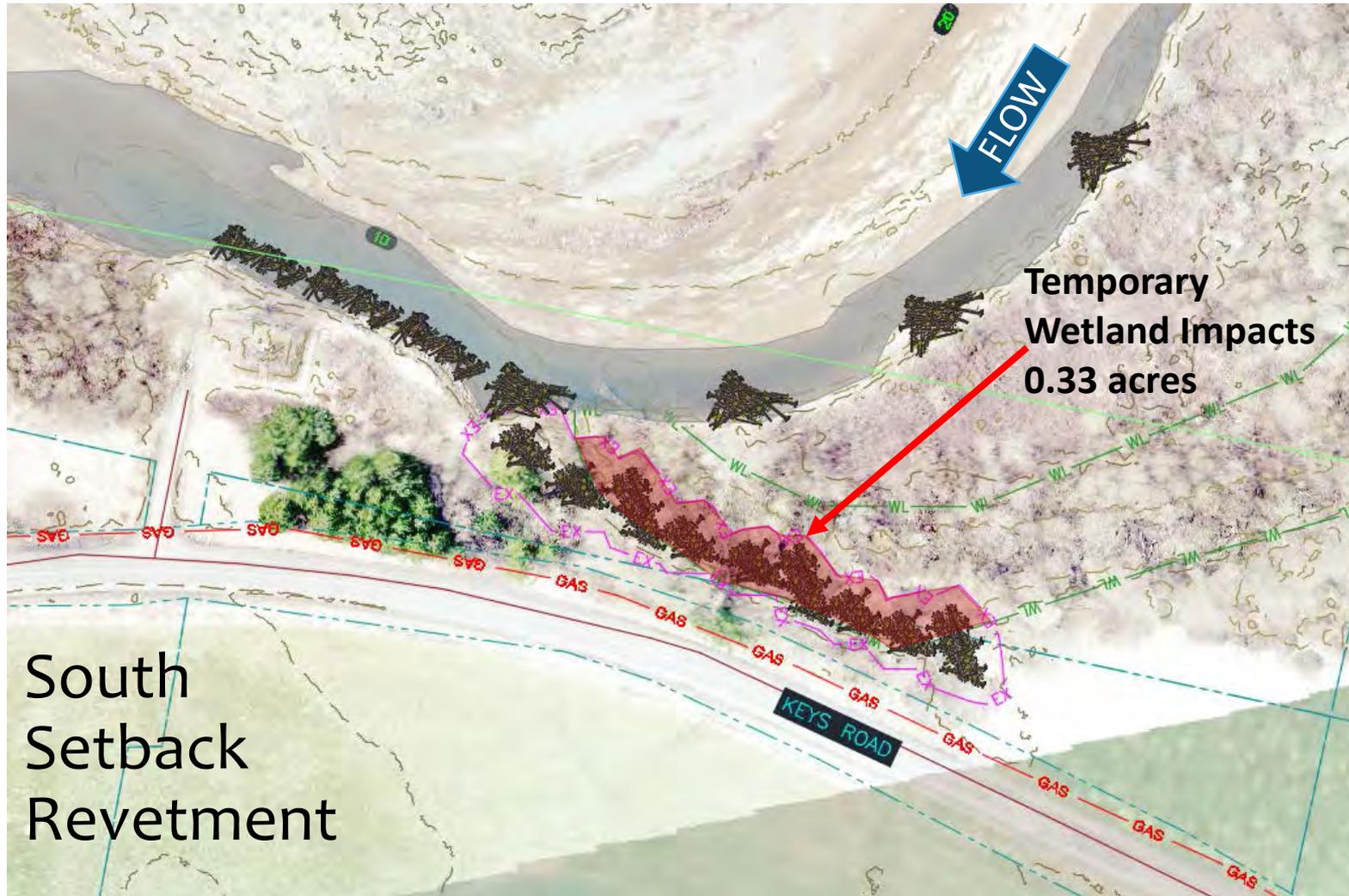
Phase I (2020), Keys Road Corridor Flood Protection



Phase I (2020), Keys Road Corridor Flood Protection



Phase I (2020), Keys Road Corridor Flood Protection



Phase I (2020), Keys Road Corridor Flood Protection

- Permitting may affect timeline
- Put out to bid late-May, early-June
- Construction to begin mid-July, late-July
- In-water work window August 1 -31
- Setback Revetment could be constructed outside of fish window
- Will require close coordination with WDFW as they finish Phase II of their Lower Satsop Floodplain Restoration Project.

Construction Timeline

Phase II (2021), Habitat Connectivity & Reach-Scale Aquatic, Riparian, and Floodplain Restoration

- Build on investment in East Fork Satsop (Early-Action ASRP) by improving connectivity between critical habitats.

- Achieve reach-scale effect on sediment and flow dynamics.
 - ▶ 35 in-channel structures
 - ▶ 130 acres of riparian planting

- Reduce invasive species (~10 acres invasive plant control).

Phase II (2021), Habitat Connectivity & Reach-Scale Aquatic, Riparian, and Floodplain Restoration



Red Outline = Phase I (2020)

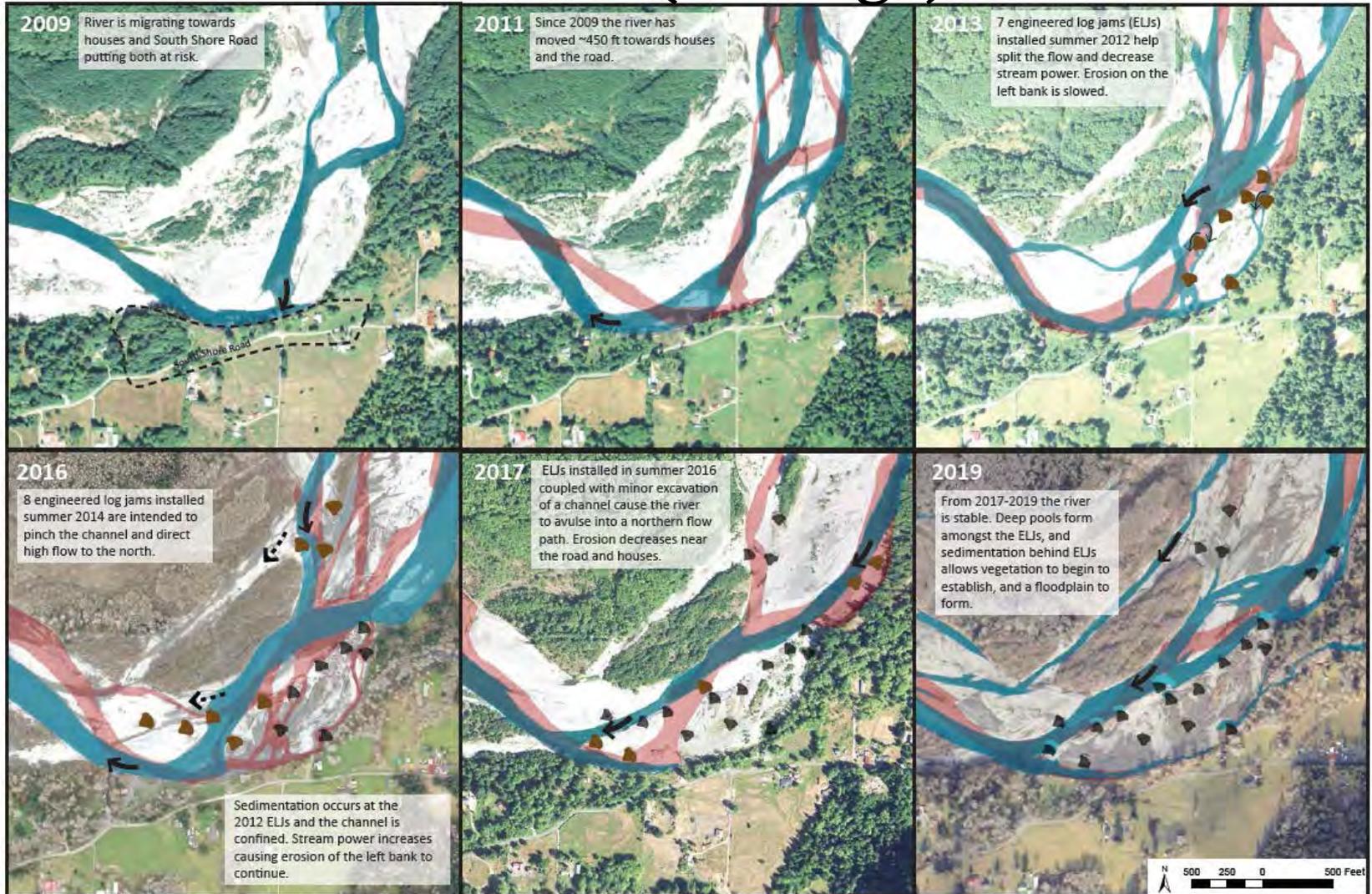
Phase II (2021), Habitat Connectivity & Reach-Scale Aquatic, Riparian, and Floodplain Restoration



Mar 12, 2020

Red Outline = Phase I (2020)

Photos (Analog)



- Key:**
- Existing Channel Location
 - Previous Channel Location
 - Design Intent
 - Actual Flow Path
 - Most Recently Built ELJs
 - Past Built ELJs
- 14 of 17

Photos (Analog)



Timber complex →



← Upper
Quinault,
South
Shore Road

Deflector
structures,
Apex jam →



Questions/More Information

Browser address bar: <https://www.ezview.wa.gov/>

Key Links

Lower Satsop Restoration & Protection Program



(Keys Road Flooding, 1-07-2020, Port of Grays Harbor Photo)

-- PHASE I --

- [JARPA \(submittal 3-27-2020, supplement 4-23-2020\)](#) → Click [here](#).
- [Lower Satsop Advisory Group Meeting \(3-31-2020\)](#) → Click [here](#).
- [Lower Satsop Community Meeting \(4-06-2020\)](#) → Click [here](#).
- [2020 Legislative Funding Request](#) → FUNDED! See [here](#) (pg. 77).
 - . [Rep. Brian Blake & Rep. Jim Walsh \(11-12-2019\)](#) → Click [here](#).
 - . [Sen. Dean Takko & Sen. Van De Wege \(12-26-2019\)](#) → Click [here](#).
 - . Letter of Support:
 - . [Washington State Dairy Federation \(2-04-2020\)](#) → Click [here](#).
 - . [Grays Harbor Voluntary Stewardship Program \(2-14-2020\)](#) → Click [here](#).
 - . [Grays Harbor/Pacific County Farm Bureau \(2-20-2020\)](#) → Click [here](#).
- [Overview/FAQ \(12-16-2019\)](#) → Click [here](#).
- [Map](#) → Click [here](#) (12-13-2019, All Phases), [here](#) (12-27-2019, Phase I)
- [Presentation \(12-16-2019\)](#) → Click [here](#).

-- PHASE II --

2020-21 ASRP Funding Request:

- . [Request For Proposals \(issued 11-15-2019\)](#) → Click [here](#).
- . [Funding Proposal \(submitted 2-05-2020\)](#) → Click [here](#).

Organization	Contact
Grays Harbor County	Rob Wilson 360/249-4222 RWilson@co.grays-harbor.wa.us
Natural Systems Design	Matt Tiedemann (through Aug) matt@naturaldes.com 206/462-1245
	Miranda Smith (after Aug) 206/480-1127 miranda@naturaldes.com
Chehalis River Basin Flood Authority	Scott Boettcher 360/480-6600 scottb@sbgh-partners.com

https://www.ezview.wa.gov/site/alias_1492/37609/lower_satsop_restoration_and_protection_program.aspx

