

Bank Protection Contract Updates

William Polk, US Army Corps of Engineers

AMERICAN RIVER WATERSHED COMMON FEATURES, WRDA16

Contract 1 (Site 2-1)

Contract 2 (Site 2-3, 2-2)

Contract 3A (Site 1-1)

Contract 3B (Site 3-1, 4-1, 4-2)

Contract 4A (Seg 1-17b)

Presented by William Polk
Sr. Project Manager

12 September 2023

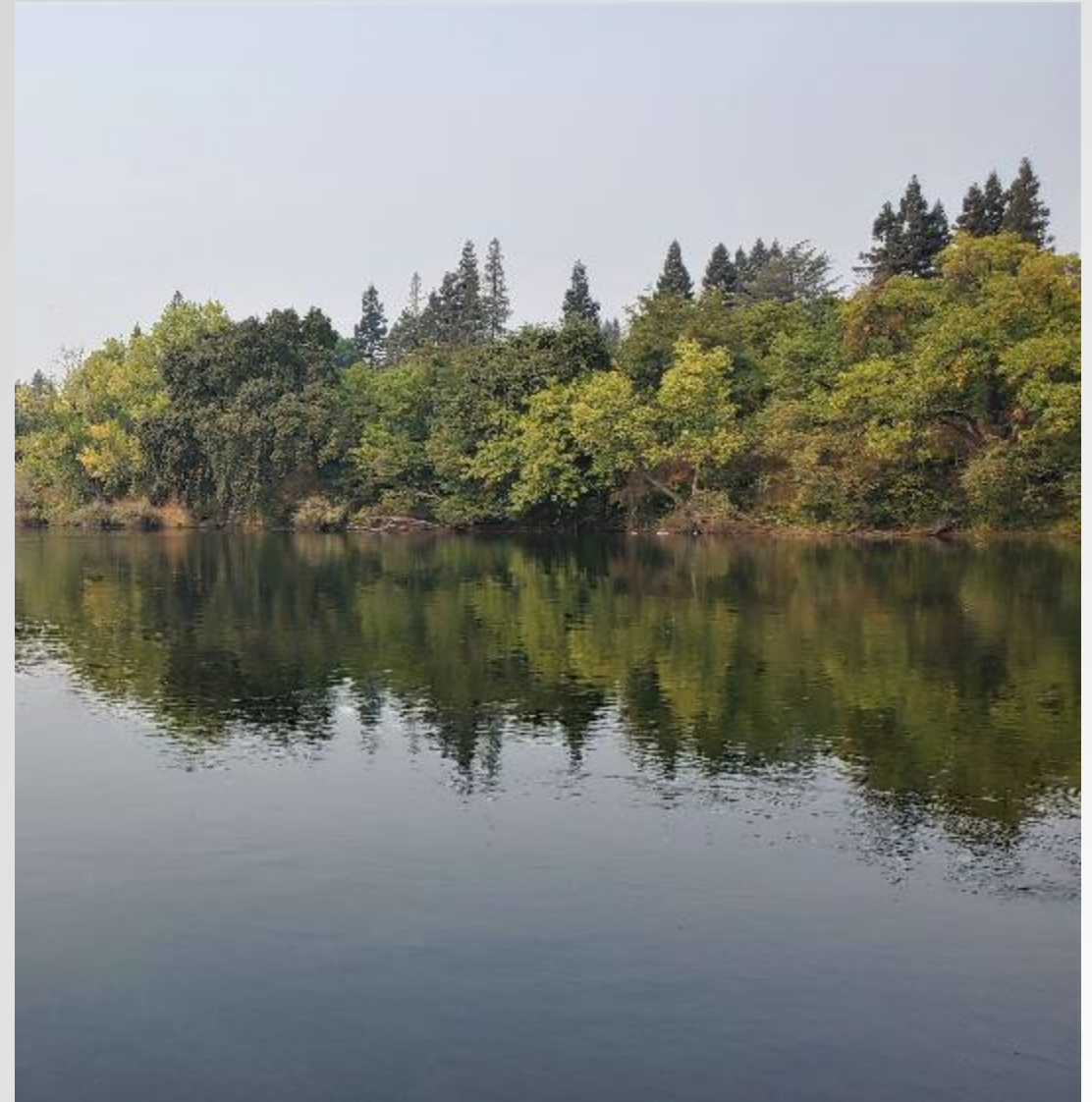


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AGENDA



- **Project Partners**
- **Status of Designs**
- **Contract C1**
- **Contract C2, Season 2**
- **Contract C3A**
- **Contract 3B N/S**
- **Contract C4A**





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3



PROJECT PARTNERS

Federal Government



**US Army Corps
of Engineers®**

State Government



Central Valley
Flood Protection
Board



Department of
Water
Resources

Local Government





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CURRENT HEADLINES HIGHLIGHT NEED FOR FLOOD RISK REDUCTION



4



11 March 2023 – Pajaro, CA

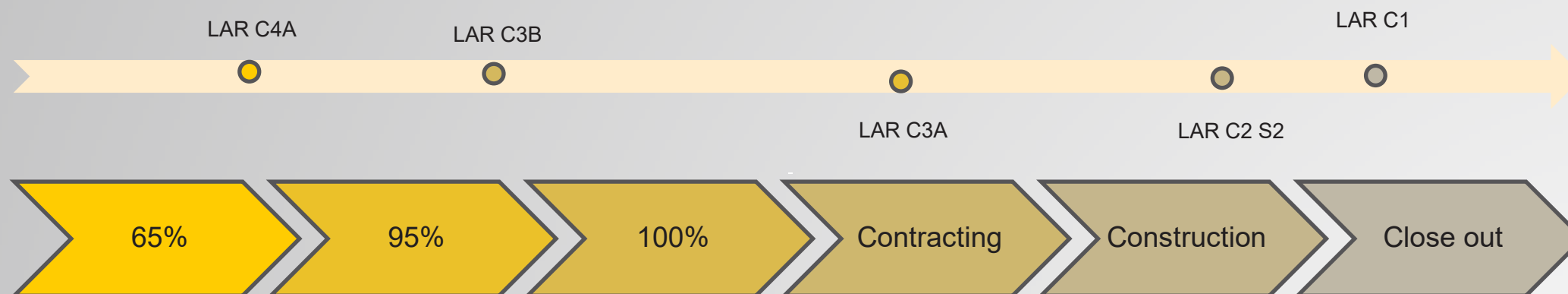


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STATUS OF DESIGNS LAR EROSION PROTECTION CONTRACTS



5





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CONTRACT 1 & 2 PROJECT AREA

6



- Extends between Paradise Bend and Howe Ave Bridge.
- Contains 2 contracts, 3 sites
 - C1, Site 2-1 - Complete
 - C2S1, Site 2-3 - Complete
 - C2S2 Site 2-3, 2-2 - 2023
- Banks generally consist of sandy deposits from late 1800's upstream gold mining.
- Velocities >10 ft/s through most of subreach during design event





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CONTRACT 1 (SITE 2-1)

7



- Construction is Complete
- The access road through Glenn Hall Park is now being controlled and used by the Caltrans I-80 project (Granite Construction)

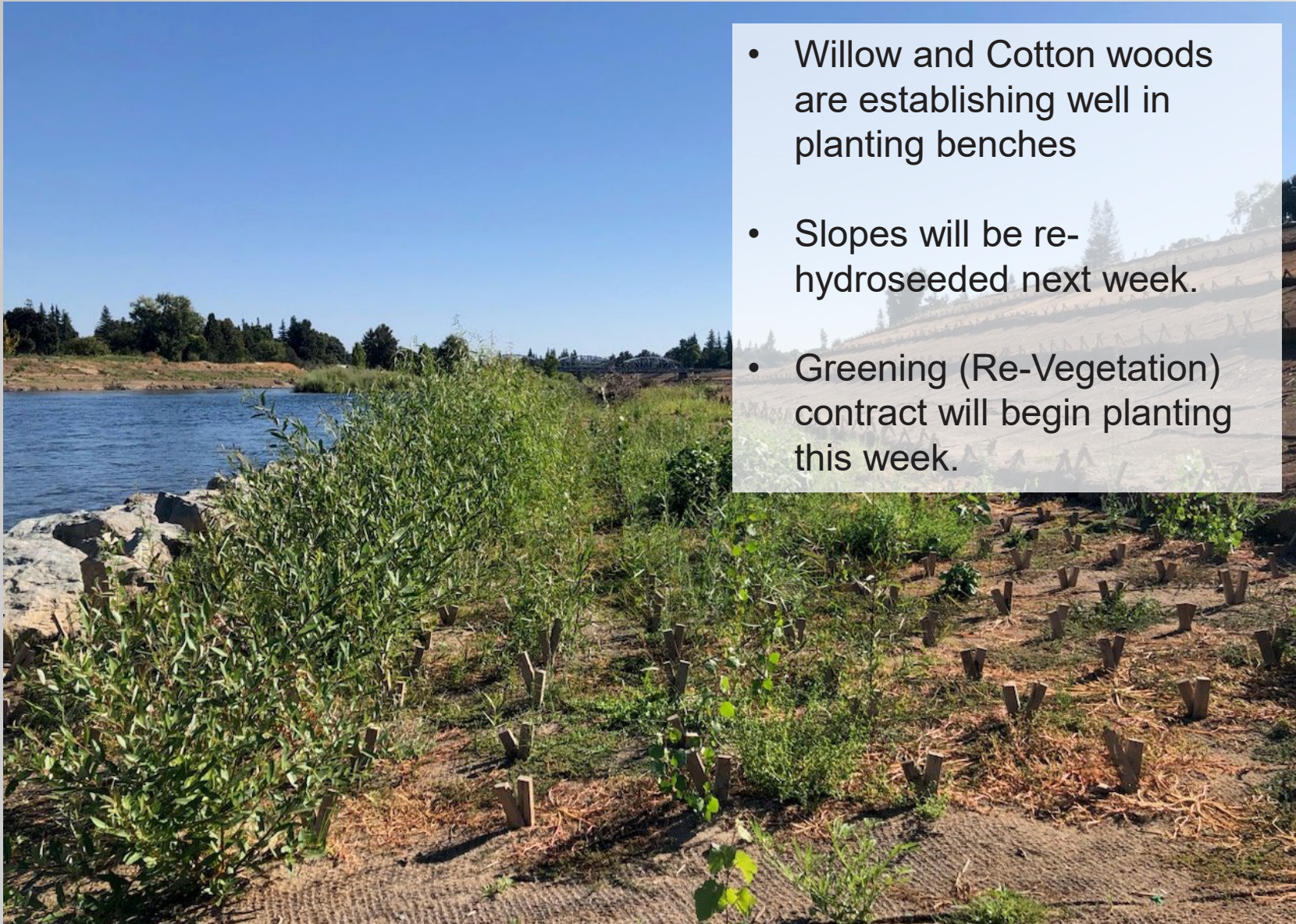




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CONTRACT 1 (SITE 2-1)

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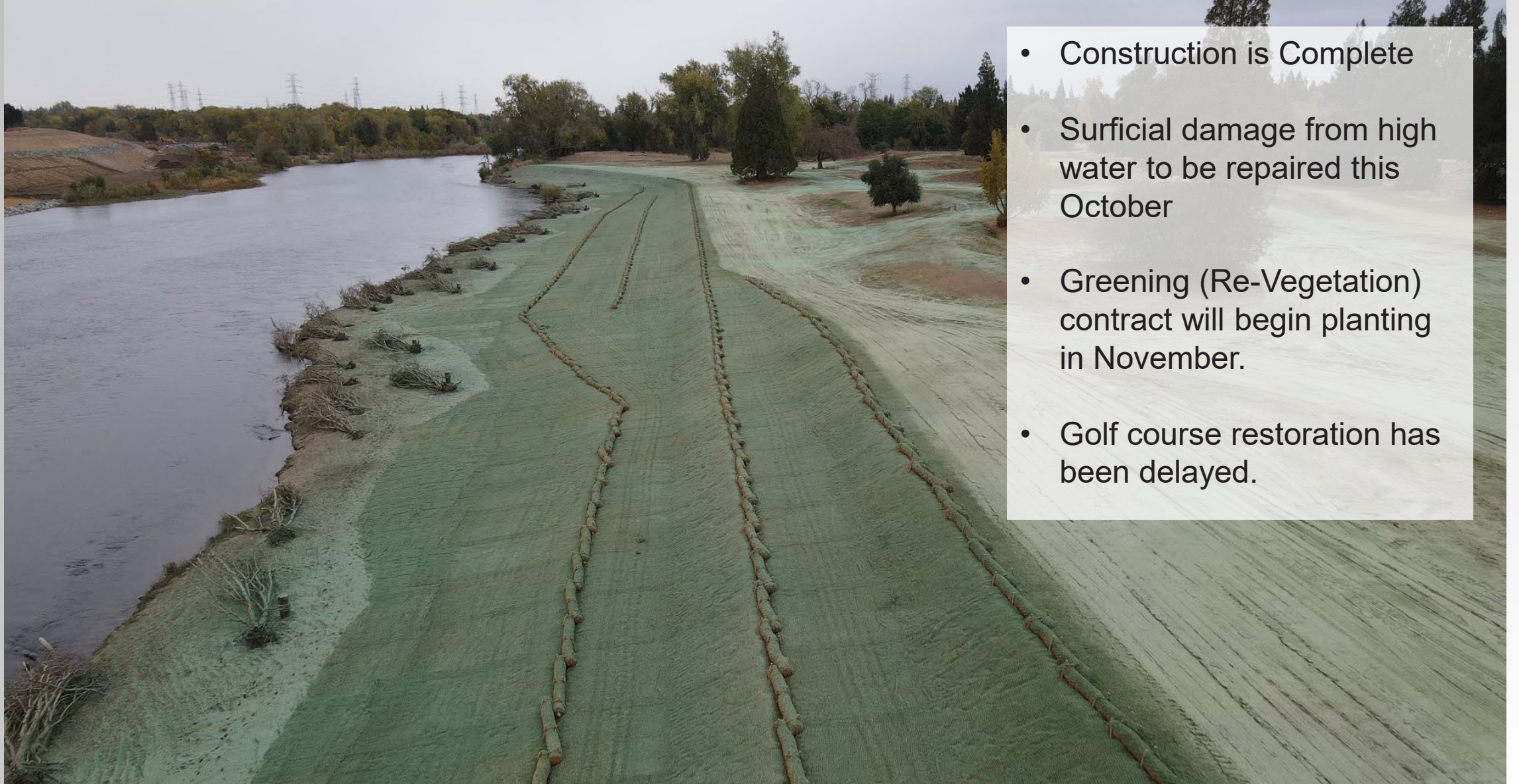
- Willow and Cotton woods are establishing well in planting benches
- Slopes will be re-hydroseeded next week.
- Greening (Re-Vegetation) contract will begin planting this week.



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CONTRACT 2 (SITE 2-3, SEASON 1)

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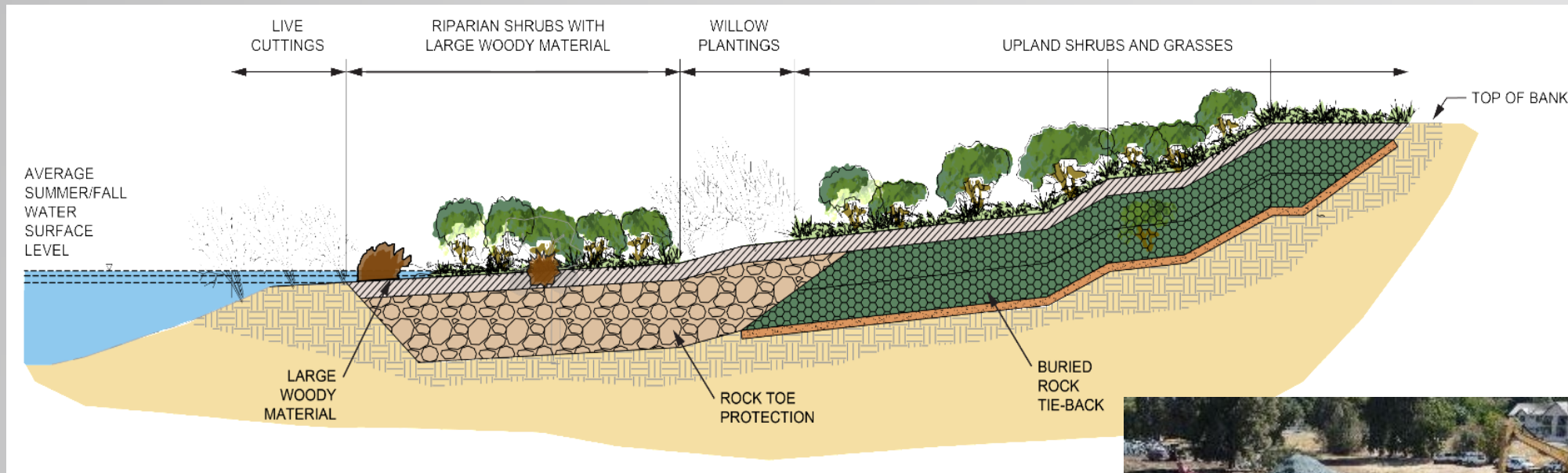
- Construction is Complete
- Surficial damage from high water to be repaired this October
- Greening (Re-Vegetation) contract will begin planting in November.
- Golf course restoration has been delayed.



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SITE 2-3 DESIGN

10



- Buried Rock Toe Protection & Tie-Backs
 - Limits extents of erosion
 - Setback from water's edge
 - Buried under 2'+ of soil





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CONTRACT 2 (SITE 2-3, SEASON 2)

11



Vegetation Clearing limited to construction footprint along bank line.

CONTRACT 2 (SITE 2-3, SEASON 2)



Cleaning the Parkway - Part 2





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CONTRACT 2 (SITE 2-3, SEASON 2)

13



Creating launchable Rock spurs and tie-backs





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CONTRACT 2 (SITE 2-3, SEASON 2)

14



Spurs and tie-backs soil filled
and covered with topsoil





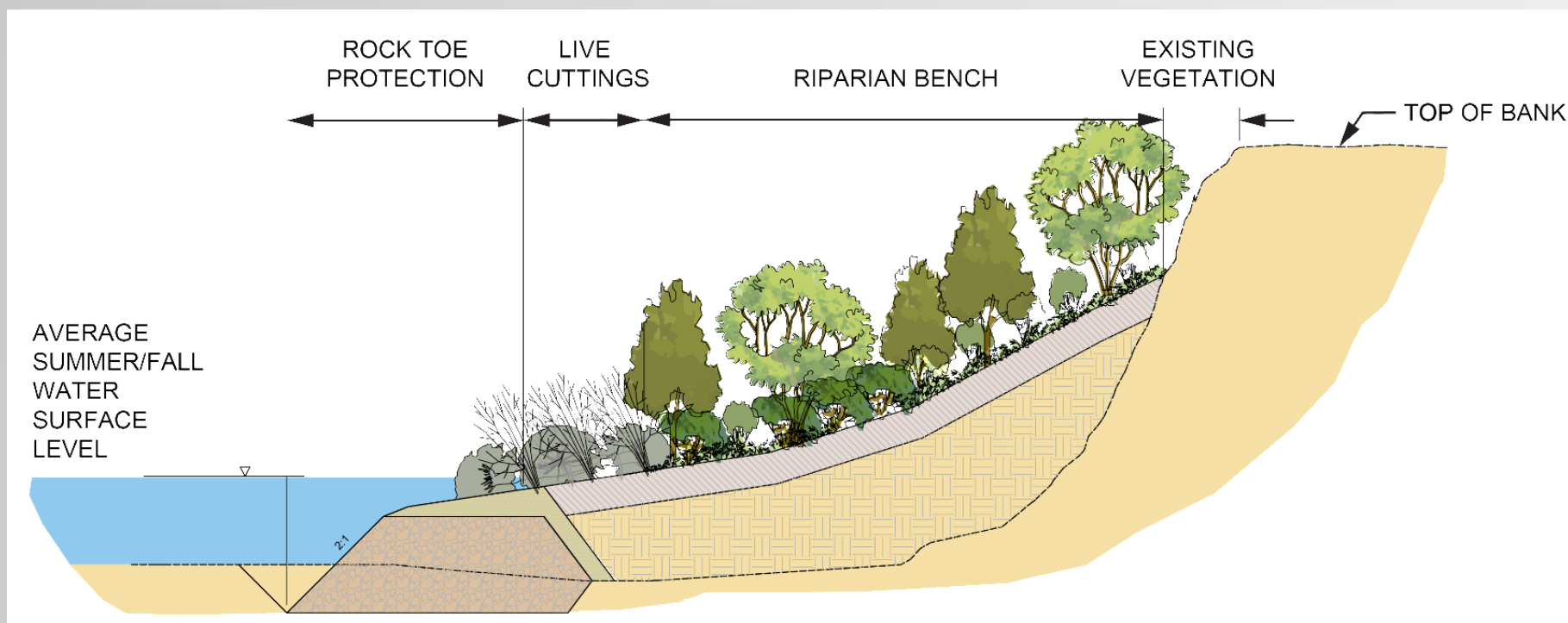
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SITE 2-2 DESIGN

15



- Rock Toe and Planting Bench (Site 2-2)
 - Builds out into channel
 - Rock toe below summer water level
 - Buttress existing bank with fill
 - Vegetation on upper slope protected in place



CONTRACT 2 (SITE 2-2)

Turbidity curtain installation

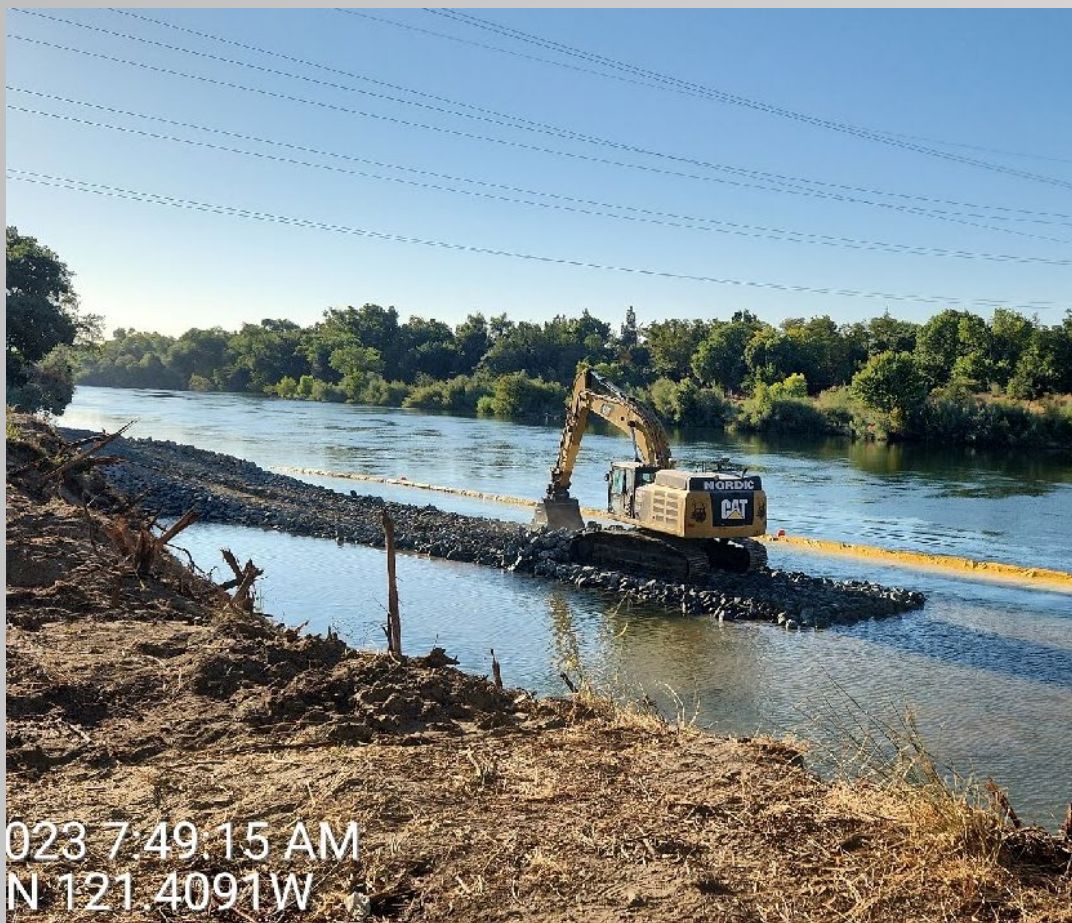




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CONTRACT 2 (SITE 2-2)

17





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CONTRACT 2 (SITE 2-2)

18





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CONTRACT 2 (SITE 2-2)

19





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CONTRACT 2 (SITE 2-2)

20





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CONTRACT 2 (SITE 2-2)

21





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CONTRACT 2, S2 – TEMPORARY CONSTRUCTION IMPACTS

22



Primary Haul Route

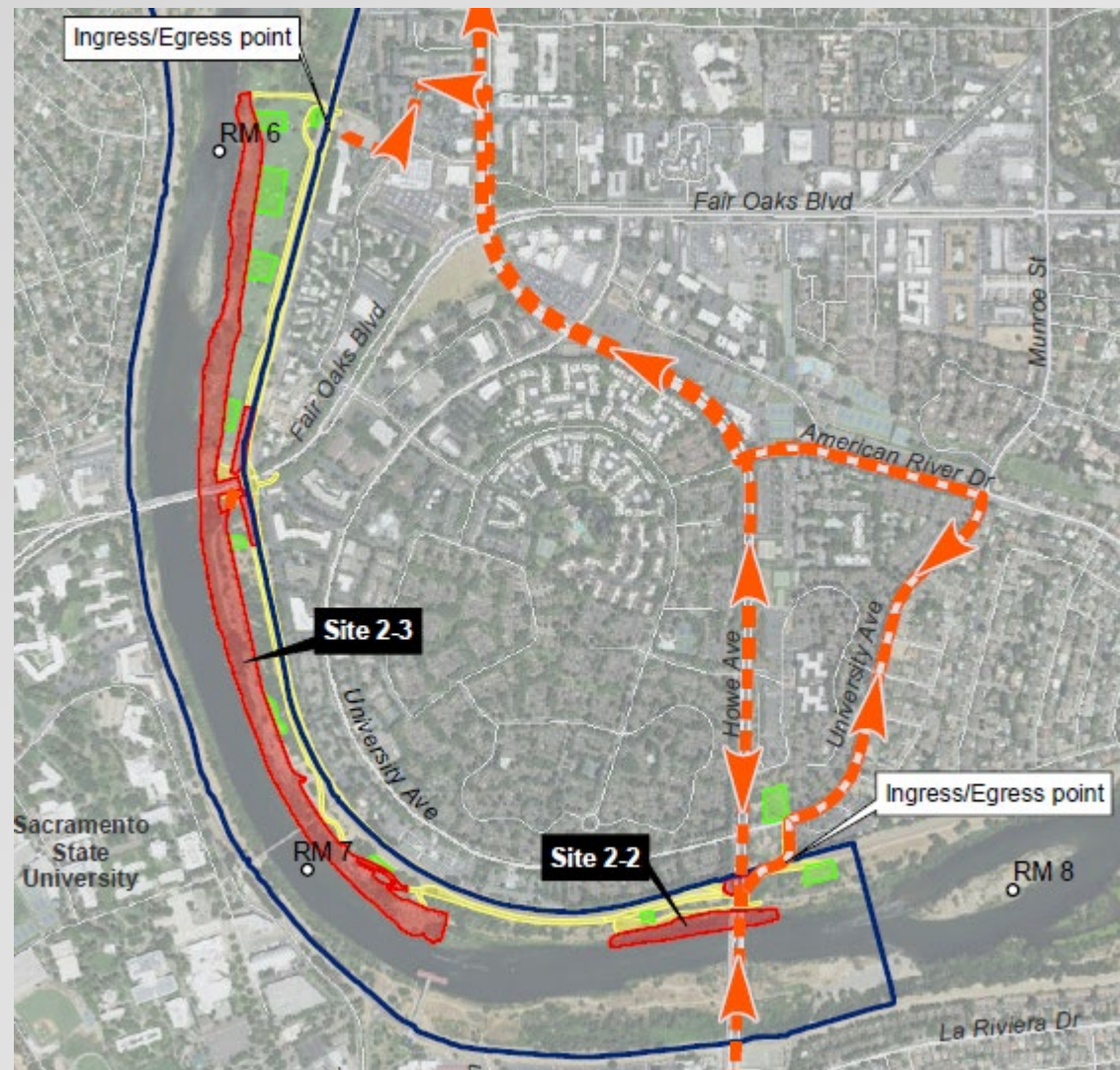
- Ingress/Egress at Campus Commons Golf Course and at University Park

Recreational impacts

- Construction footprint will extend from water's edge to levee toe and from Campus Commons golf course to Howe Ave.
- Pedestrian and Bike traffic will be detoured to top of levee from downstream of campus commons golf course to Howe Ave.

Additional Impacts

- Noise complies with city ordinance
 - Work hours: Mon-Sat 7-6, Sun 9-6
- Dust Suppression will be provided
- Vibration levels will be monitored





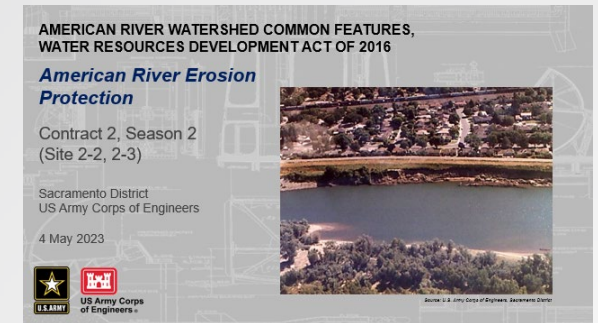
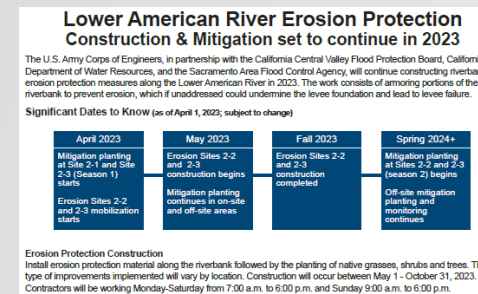
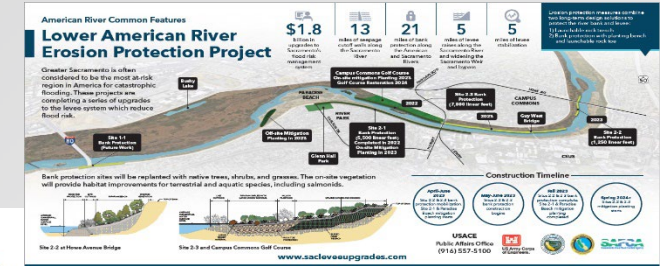
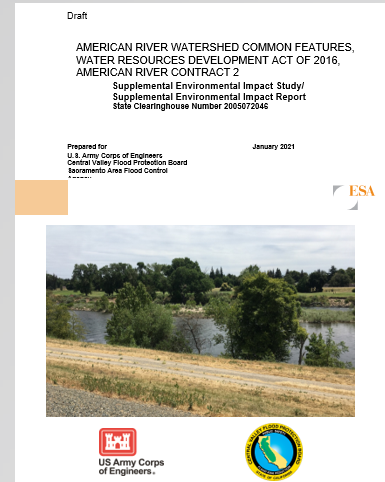
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CONTRACT 2, S2 - PUBLIC ENGAGEMENT

23



- Environmental document public comment period and Public meeting
- Bank Protection Working Group
- LAR Task Force
- Preconstruction Mailers
- Virtual meeting invitations
- Preconstruction Virtual Public Meeting (~65 attendance)
- Onsite Signage
- Sacleveeupgrades.com
- Monthly LAR Newsletter
- PAO direct communication



Highlights (last 30+ days)

The 2023 construction season has begun with efforts at site 2-3 on the right bank near campus commons. Higher than average flows are anticipated through June. Please be cautious around the river.

Contract 1 (Site 2-1)

All construction work is complete.

Contract 2 (Site 2-3 & 2-2, Season 2, H.St. bridge to Howe Ave)

Information Resources:

Project Webpage:
www.sacleveeupgrades.com





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CONTRACT 2, S2 - PUBLIC ENGAGEMENT

24



15 July 2023

Great American Triathlon (GAT)

Within work limits



SCHEDULE CONTRACT 2 (SEASON 2)

Pre-construction (Dec 2022 - May 2023)

- Site prep, elderberry shrub transplant, cut and trim trees



Site Construction (May 2023 - Fall 2023)

- Excavate excess material, Install erosion protection, backfill and preliminary revegetation

Post-Construction Planting (Spring+ 2024)

- Install mixture of native vegetation (grasses, shrubs, trees) on-site and within mitigation sites

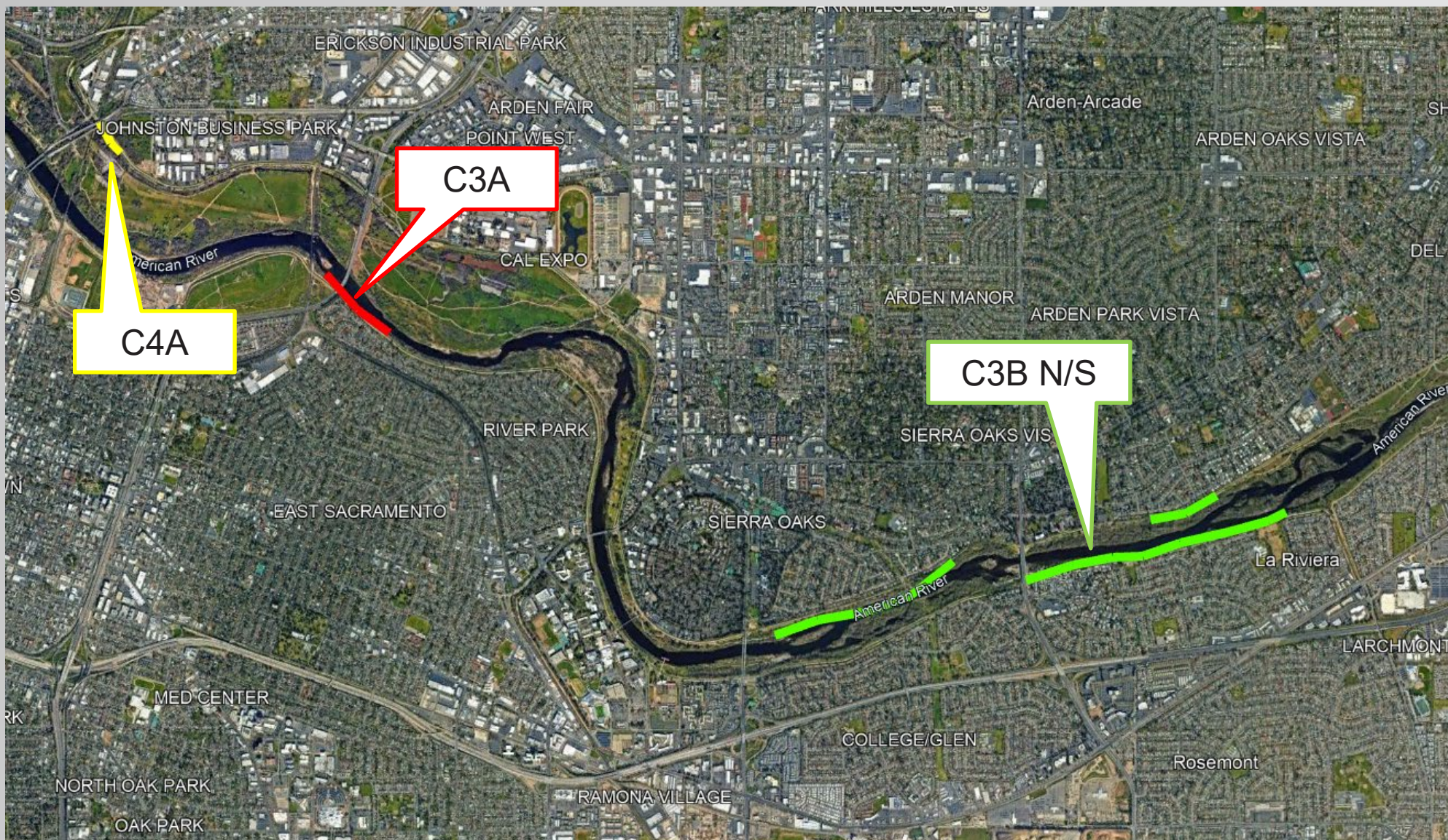




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FUTURE WORK – C3A

26





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CONTRACT 3A (SITE 1-1)

27



- Left Bank @ I-80 Bridge
- Approximately 2,400 linear feet of bank protection measures will be constructed
- Construction Scheduled for Summer 2024

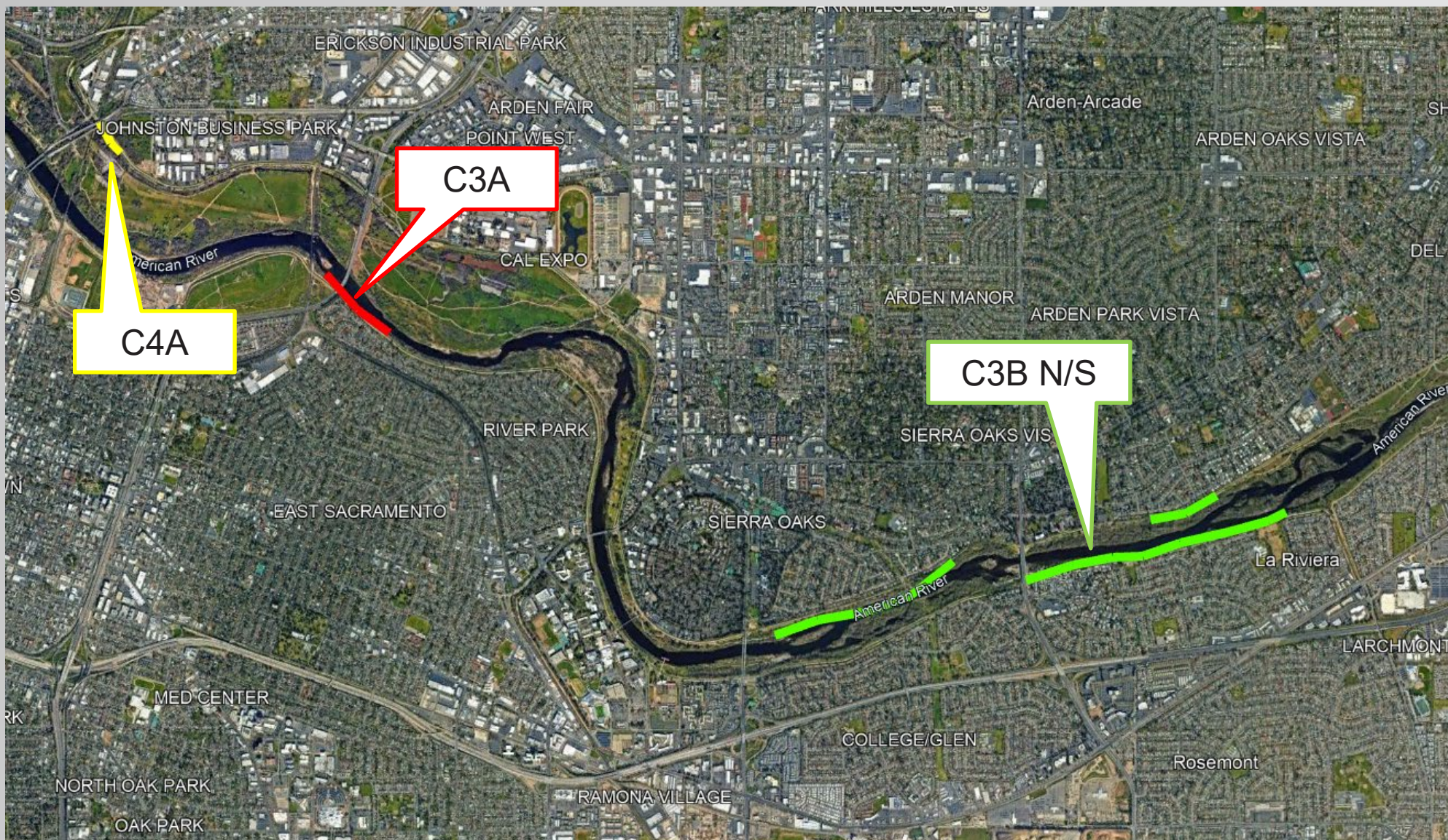
On-site mitigation integrated into Project Design



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FUTURE WORK – C3B

28

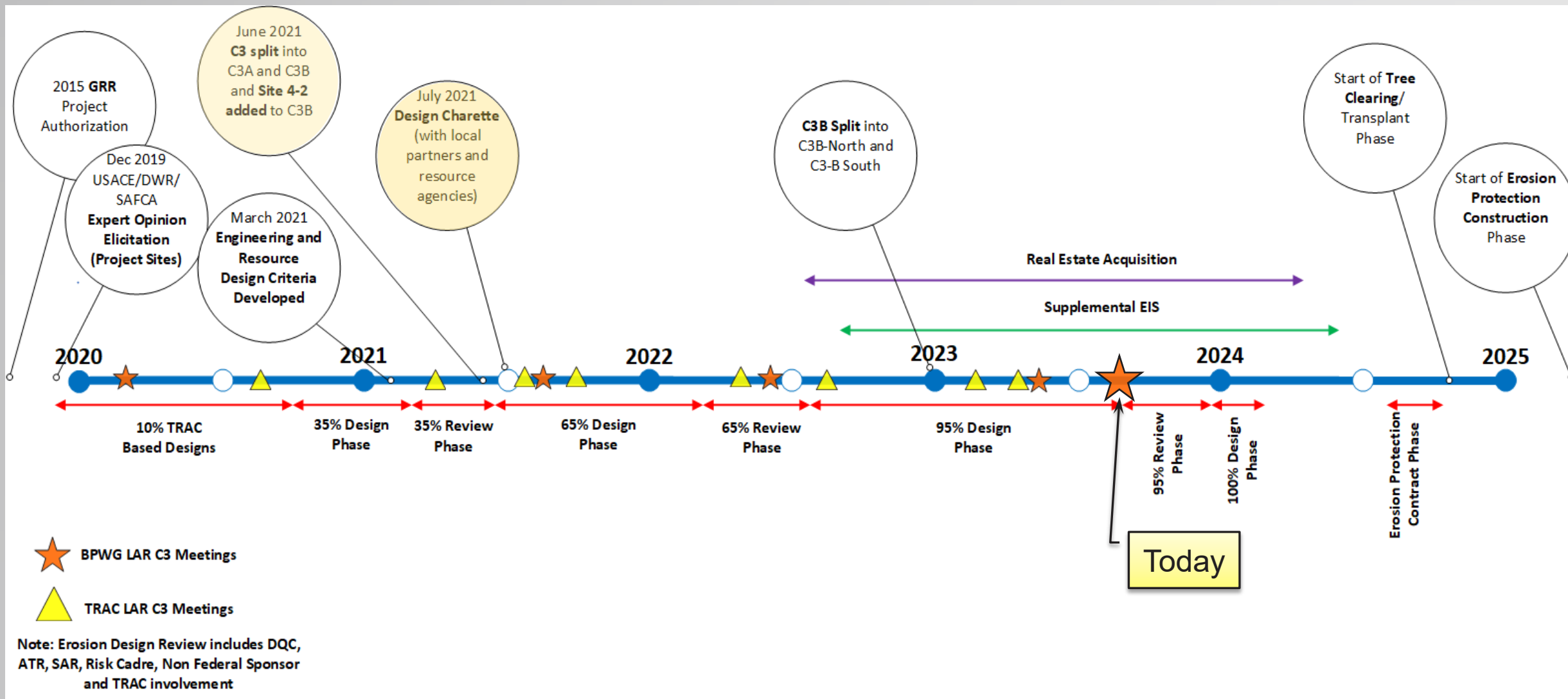




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C3B DESIGN DEVELOPMENT IN REVIEW

29





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C3B 95% UPDATE - NORTH VS SOUTH SPLIT

30



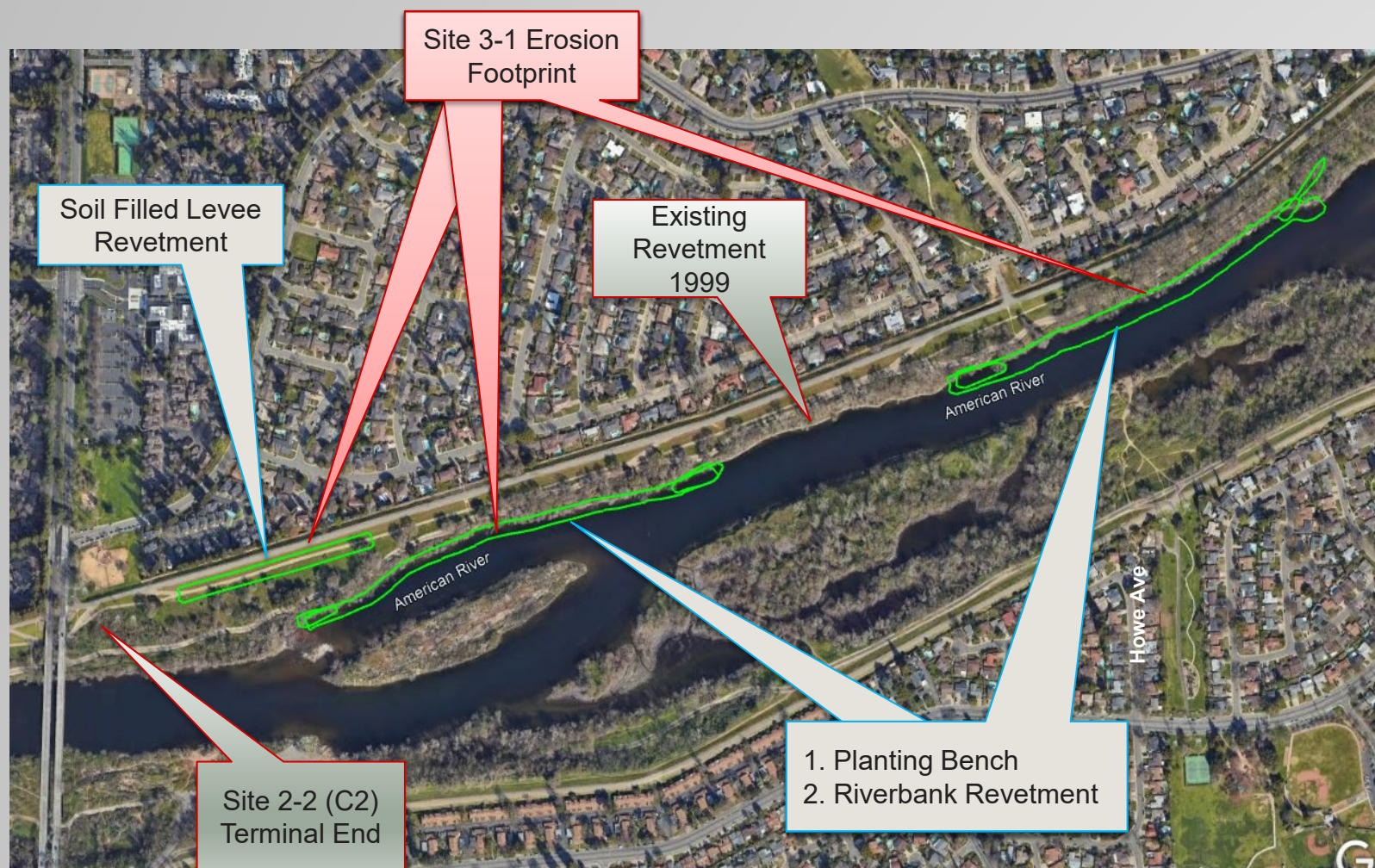
- C3B has been separated into 2 Contracts
 - C3B-North (Site 3-1 and 4-2)
 - C3B-South (Site 4-1)
- Sequencing over 2 Seasons
 - Season 1 – Summer 2025
 - Season 2 – Summer 2026



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C3B NORTH 95% DESIGN UPDATE

31



- Launchable rock with planting benches
- Soil-Filled Bank revetment
- Soil-Filled Levee revetment
- Balance impacts to fish, riparian, upland woodlands and recreation
- Cut off wall protection added
- Adjust footprint, geometry & transitions
- Onsite Greening
- Mitigation at Rossmore West



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C3B SOUTH 95% DESIGN UPDATE

32



C3B South

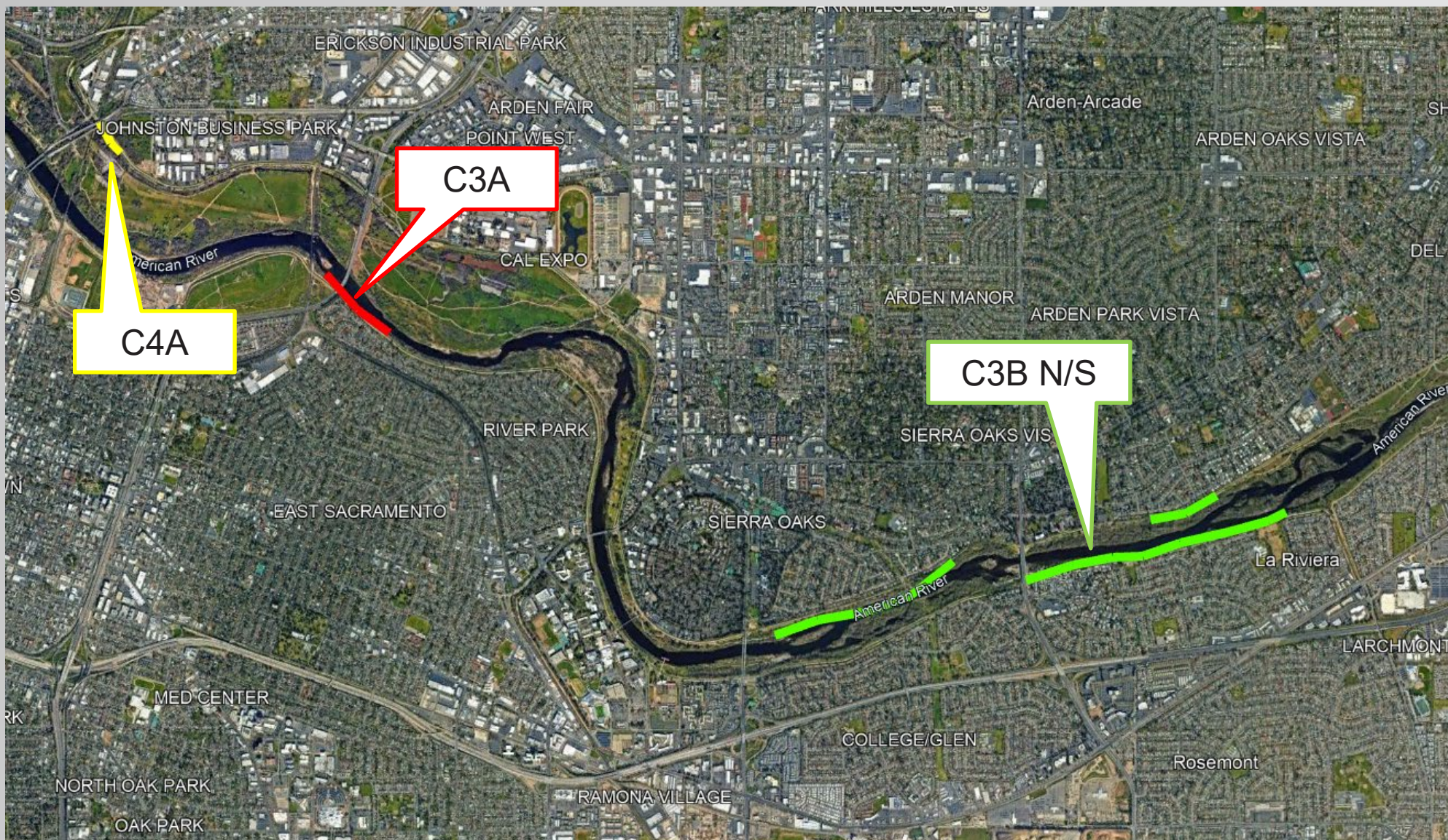
- Left bank from Watt Ave upstream to Mayhew drain
- Approximately 8,000 ft lineal feet of bank protection
- Launchable rock with planting benches
- Soil Filled Bank revetment
- Soil Filled Levee revetment
- Balance impacts to fish, riparian, upland woodlands and recreation
- Onsite Greening
- Mitigation at Rossmore West



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FUTURE WORK – C4A

33

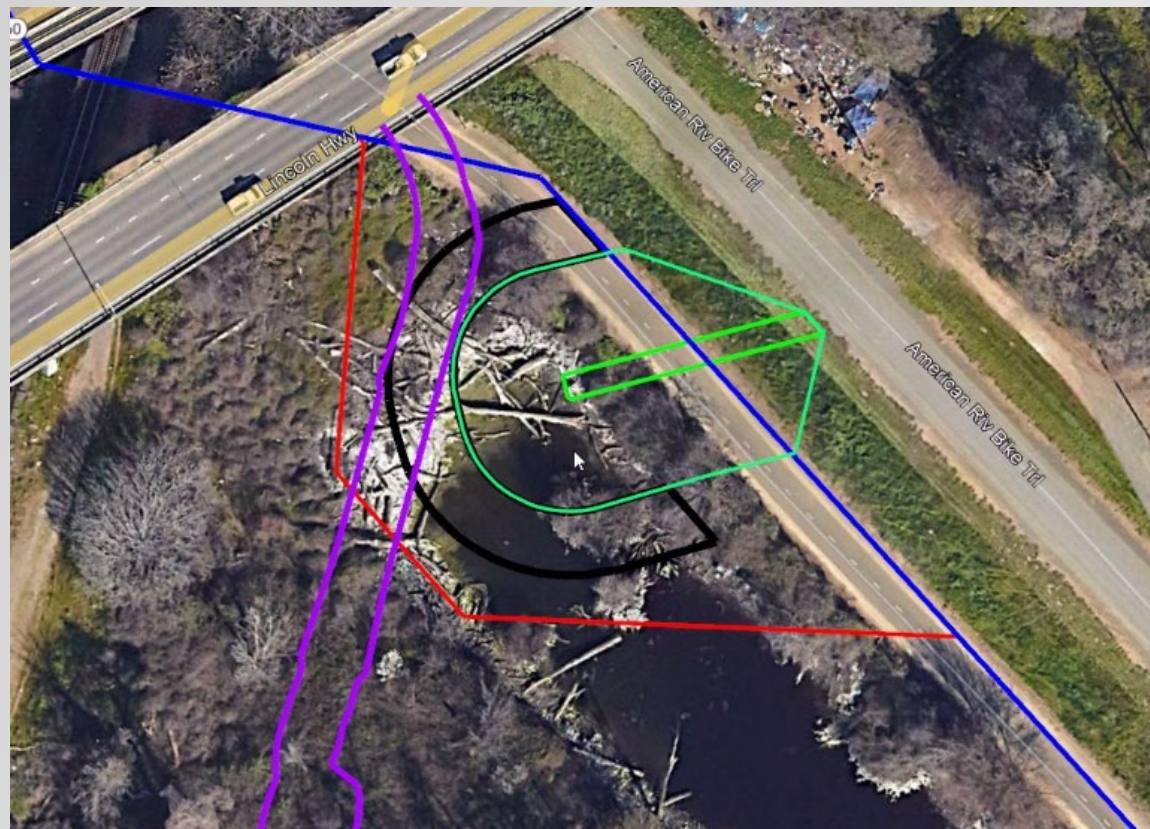




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C4A STATUS UPDATE

- Right bank at the Highway 160 bridge
- Complex site with highway bridge piers, RR bridge, & multiple utilities
- Design – Berm to reduce velocities against levee, beneath and around bridges
- 65% Designs complete
- Advancing 95% designs





C4A STATUS UPDATE – BIKE PATH



- Preferred path by stakeholders
- Old Bike Path will be returned to gravel for maintenance purposes





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ARCF LAR 4A SCHEDULE





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ENVIRONMENTAL COMPLIANCE - SEIS/SEIR

CUI

37



Areas of Analysis

- Visual Resources
- Hydrology and Water Quality
- Vegetation and Wildlife
- Fisheries
- Special Status Species
- Cultural Resources
- Transportation and Circulation
- Air Quality
- Greenhouse Gas Emissions and Energy Consumption
- Noise
- Recreation
- Public Utilities and Service Systems
- Hazards and Hazardous Materials

SEIS/SEIR

- Development & Internal Reviews: Sep – Nov 23
- Public comment period: Dec23 – Jan24
- Public meeting: Dec 23
- ROD/CEQA Cert: Jun 24

CUI



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HOW TO STAY INFORMED

38



Project Overview

American River Levees

Sacramento River Levees

Sacramento Weir

Reducing flood risk in Sacramento

Greater Sacramento, California, is often considered to be the most at-risk region in America for catastrophic flooding, relying on an aging system of levees, weirs and bypasses and Folsom Dam to reduce its flood risk. But that system, just like a chain, is only as strong as its weakest link. Together, the U.S. Army Corps of Engineers, California's Central Valley Flood Protection Board, California Department of Water Resources, and the Sacramento Area Flood Control Agency have made tremendous progress in reducing the flood risk, but more work remains. Through the Bipartisan Budget Act, the Corps has received full upfront funding to modernize Sacramento's aging flood infrastructure. This allows us to more efficiently implement nearly \$1.8 billion in upgrades to Sacramento's flood risk management system. The authorized work includes up to: 13 miles of seepage cutoff walls, 21 miles of bank protection, 5 miles of levee stabilization, 5 miles of levee raises and widening the Sacramento Weir and bypass.

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Questions? Comments? Concerns?

Sacramento District Public Affairs Office

Phone: 916-557-5100

E-mail: spk-pao@usace.army.mil



QUESTIONS





Q&A: Middle Reach Updates

Opportunity for Task Force questions and discussion

Two Rivers Bike Trail

Adam Randolph, City of Sacramento



Adam Randolph

Date 9/11/2023

A dark blue silhouette of the Sacramento skyline, including various buildings and the two towers of the Sacramento-San Joaquin River Delta Bridge, set against a light blue background.

Two Rivers Trail

Update

Two Rivers Trail Network

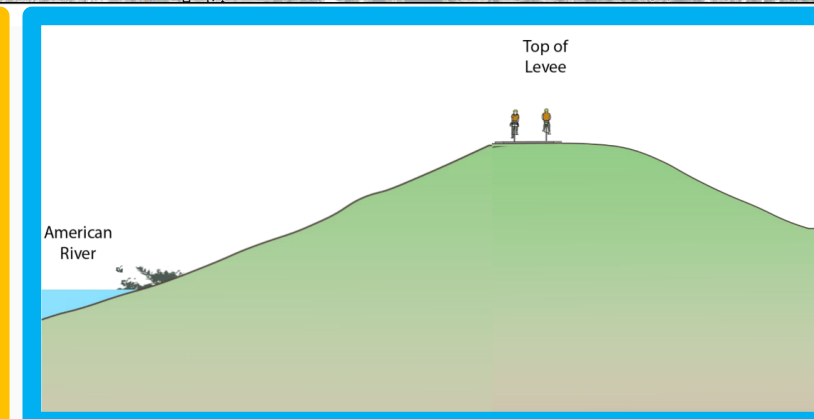
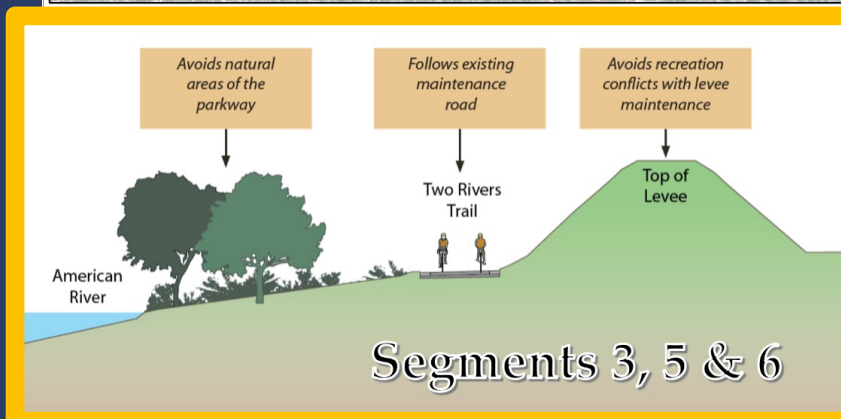
City of
SACRAMENTO



Background – Phase II

Phase II

- Trail Primarily at base of Levee
- Segment 4 at Top of Levee

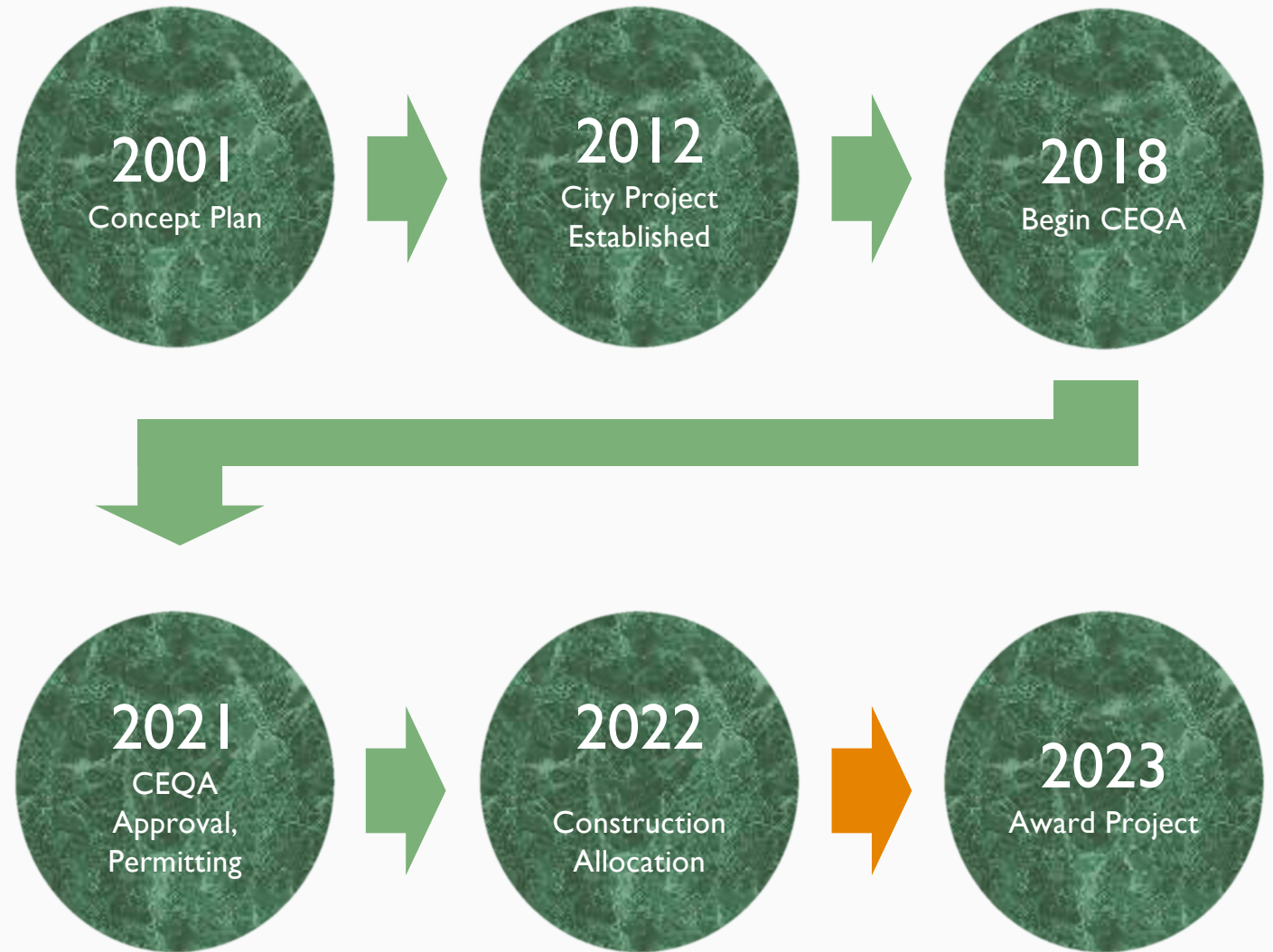


Construction Timeline

Phase II

Adjacent Projects:

- USACE C1 – 2022
- USACE C1 Greening – 2023
- USACE C3A – 2024
- USACE C3A Greening – 2025
- USACE VELB Site – 2023
- Caltrans SR51 (Business 80) – 2022-25
- Sump 155 Rehab – 2024?



Park Activities

Phase III



Phase III Project
Area

Thanks!

Contact us:

Adam Randolph

arandolph@cityofsacramento.org

cityofsacramento.org

City of
SACRAMENTO





Q&A: Lower Reach Updates

Opportunity for Task Force questions and discussion

Community Spotlight: Lower American River Conservancy Program (LARCP)

Cara Allen, Wildlife Conservation Board

Lower American River Conservancy Program Update

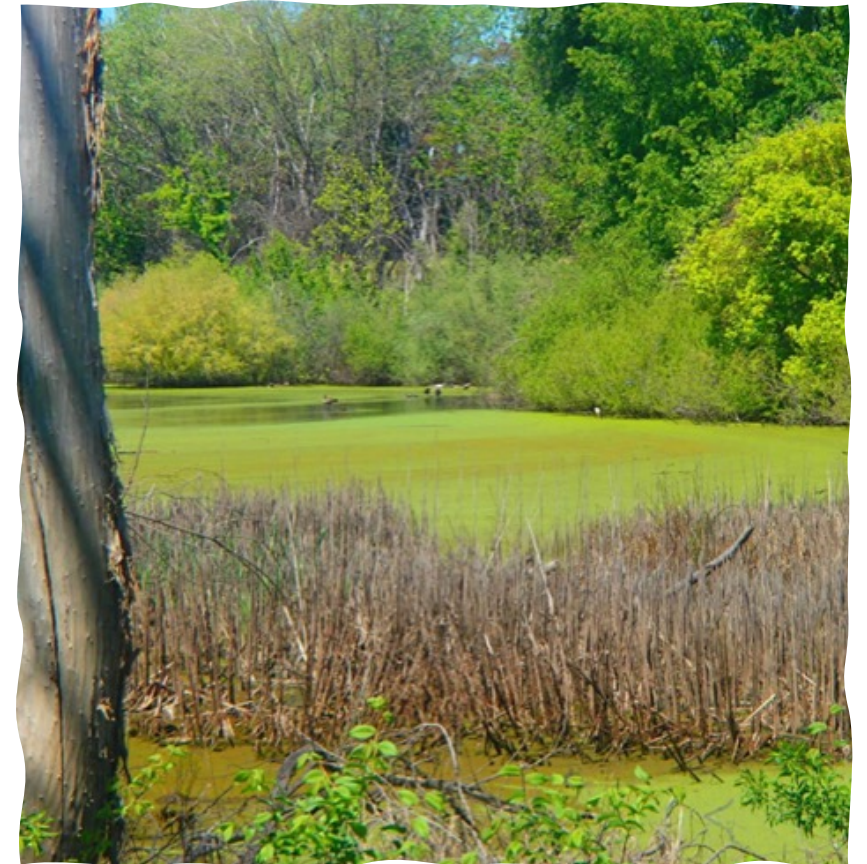
September 2023

Cara Allen
Senior Environmental Scientist
Wildlife Conservation Board
cara.allen@wildlife.ca.gov
916-926-9584



LARCP OVERVIEW

- Lower American River Conservancy Program was created by legislation in 2016 (AB 1716).
- Brought a state partner (WCB) to the Parkway to work with the County, cities, and non-profits to protect, enhance and expand the **natural, cultural, educational, and recreational** values of the American River Parkway.
- Four goals of LARCP (i.e., what we can spend funds on):
 - Habitat
 - Public Access
 - Education/Interpretation
 - Water Quality
- \$11 million dedicated thus far through state's general fund (\$1M) and Proposition 68 (\$10M).



LARCP PROJECTS

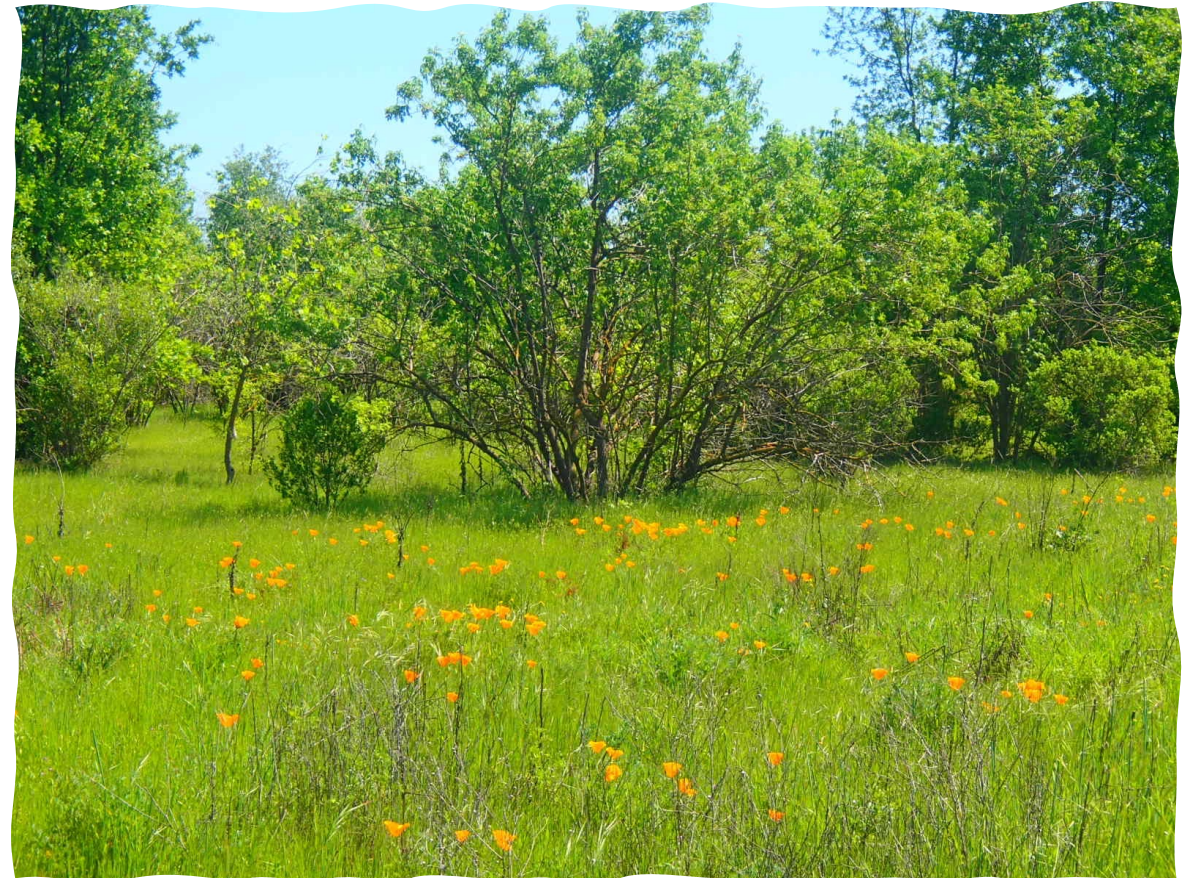
12 projects funded to-date totaling \$5.8M

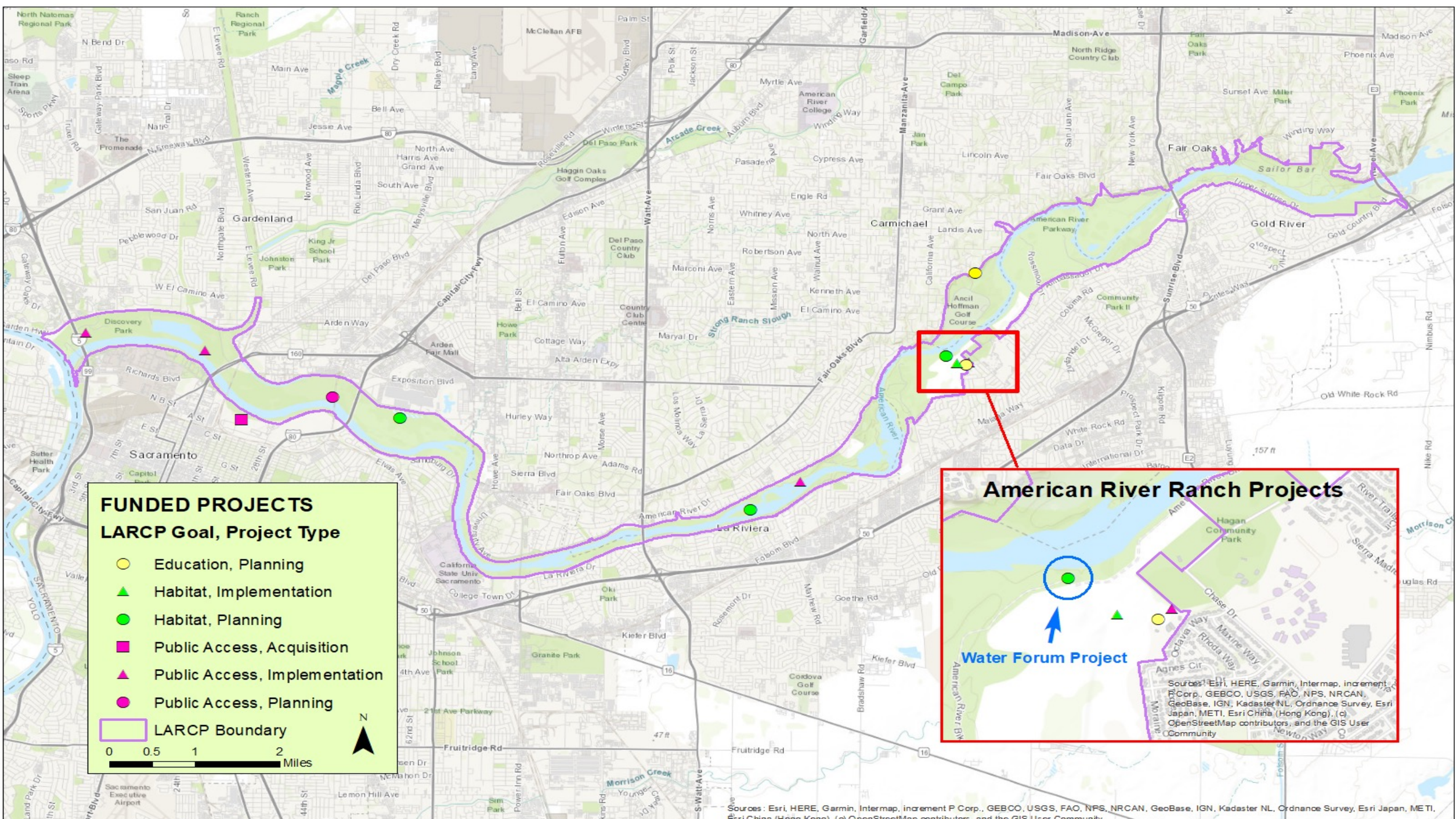
- Planning grants = \$1,640,325
- Implementation grants = \$2,553,055
- Acquisition grant = \$1,660,000

5 projects completed, 4 more will be completed by June 2024.

Investment per LARCP goal:

- Habitat = \$1,534,329
- Public Access = \$4,064,506
- Education/Interpretation = \$254,545
- Water Quality = \$0





FUNDED PROJECTS

LARCP Goal, Project Type

- Education, Planning
- Habitat, Implementation
- Habitat, Planning
- Public Access, Acquisition
- Public Access, Implementation
- Public Access, Planning
- LARCP Boundary

0 0.5 1 2 Miles



American River Ranch Projects

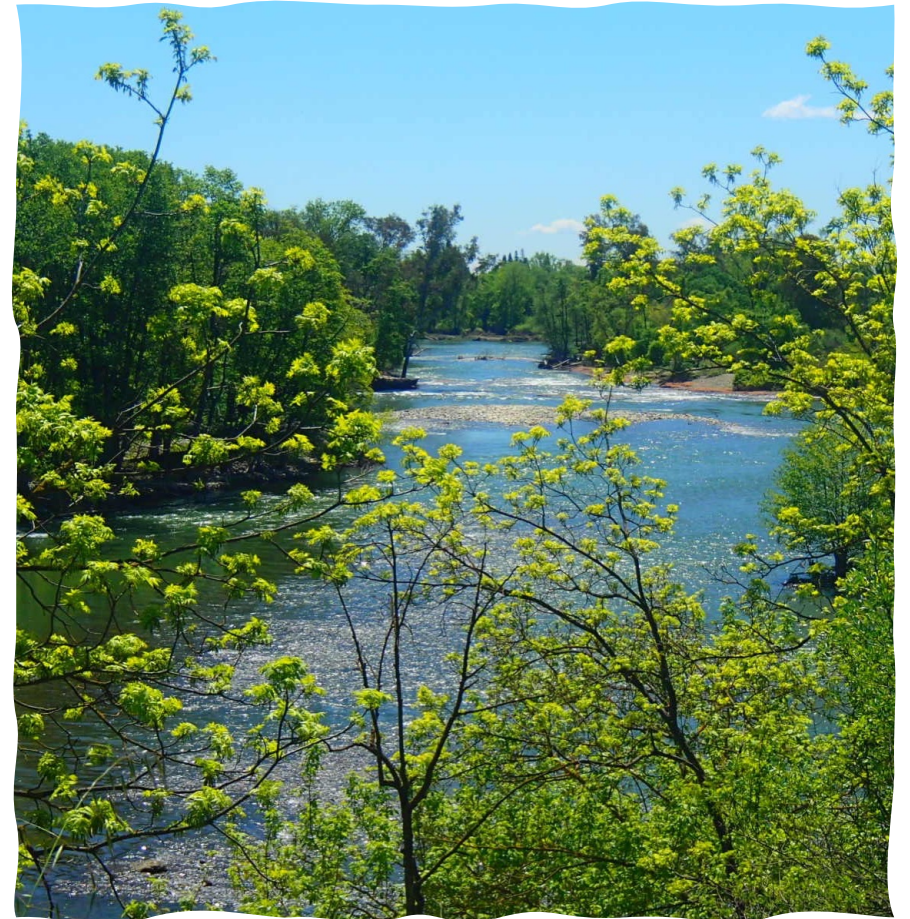
Water Forum Project

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

LARCP CURRENT NEWS



- \$3.9M remaining of Prop 68 funds
- Application process = WCB's new streamlined process
- Eligible applicants include governmental agencies, non-profits, and tribes
- Next Advisory Committee Meeting on October 12, 2023
- Fourth Parkway Tour on November 30, 2023
- LARCP-specific mailing list
- New funding in the works



THANK YOU!

Questions?

Cara Allen
Senior Environmental Scientist (Specialist)
Lower American River Conservancy Program
California Riparian Habitat Conservation Program
Wildlife Conservation Board

(916) 926-9584

cara.allen@wildlife.ca.gov

www.wcb.ca.gov

www.wcb.ca.gov/Programs/Lower-American-River






LARTF Member Updates

- Announcements & Disclosures

Wrap Up & Next Steps

- Future Agenda Items for 2023
 - Next Member/Community Spotlight
 - Next meeting: December 12 – Online & In Person
- 



Thank you!

<https://waterforum.org/lartf>