

AMERICAN RIVER COMMON FEATURES, WATER RESOURCES DEVELOPMENT ACT OF 2016

Public Meeting for
Sacramento River Erosion Contract 4
Draft Supplemental Environmental Assessment and
Supplemental Environmental Impact Report

Sacramento District,
US Army Corps of Engineers

March 22, 2023



US Army Corps
of Engineers®





AGENDA



- American River Watershed Common Features (ARCF) 2016 Project Overview
 - Partners
 - Sacramento/American River Systems
 - The Authorized Project
 - 2016 ARCF Final Environmental Impact Statement / Environmental Impact Report (FEIS/FEIR)
- Sacramento River Erosion Contract 4
 - 2023 Draft Supplemental Environmental Assessment and Supplemental Environmental Impact Report (Supplemental EA/EIR)
- How to provide comments
 - In writing through mail or email

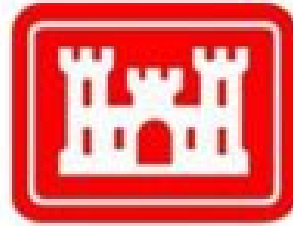


PROJECT PARTNERS



NEPA Lead Agency: USACE
CEQA Lead Agency: CVFPB

Federal Government



**US Army Corps
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State Government



Central Valley
Flood Protection
Board



Department of
Water
Resources

Local Government



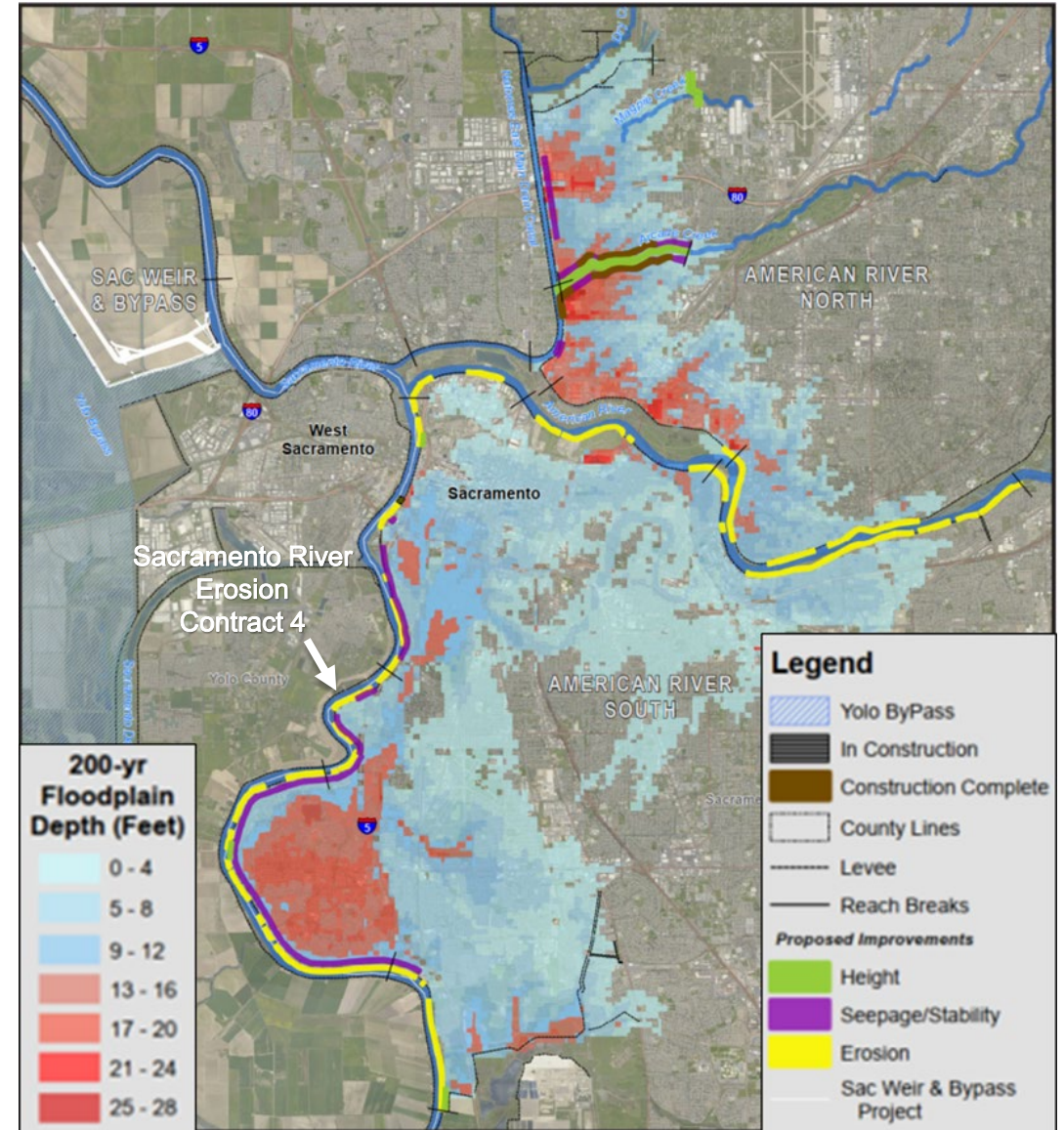


AMERICAN RIVER WATERSHED COMMON FEATURES 2016 PROJECT OVERVIEW



Authorization:
Water Resources Development Act of 2016 and
Emergency Supplemental Appropriations in the Bipartisan Budget Act of 2018

Authorized Plan	
Features	
North Area Streams Seepage	4 miles
Sacramento River Seepage	9 miles
American River Erosion	11 miles
Sacramento River Erosion	10 miles
Levee Stabilization	5 miles
Levee raises	5 miles
Widen Sacramento Weir and Bypass	1500 feet
Reduces Risk	500,000 people
	125,000 structures
	\$62 billion protection



200-year flood risk map and proposed/active levee improvements under the ARCF 2016 project.



SACRAMENTO RIVER EROSION CONTRACT 4 LOCATION



Contract 4 (red):
A 1700 ft section of the Sacramento River, located downstream of Contract 1 (orange, completed in 2022)





PROPOSED CONSTRUCTION SCHEDULE



- Tree Removal: 1NOV23 – 15FEB24
- Construction: 1JUL24 – 31OCT24
- Revegetation: Post Construction





BASIS FOR EROSION PROTECTION DESIGN



- Riprap placed in 1939
- Concrete rubble at other places
- Shallow riprap under water level
- Erosion at lower bank has progressed upstream



Survey on October 19, 2022
Old riprap present along bank



Survey on October 19, 2022
Photo taken looking up the bank slope.
Concrete rubble placed at toe of bank. Willows growing above concrete.



A tree slumped into the river since 2011. Length of toe erosion has been observed to extend upstream, 2013, 2015, and 2018

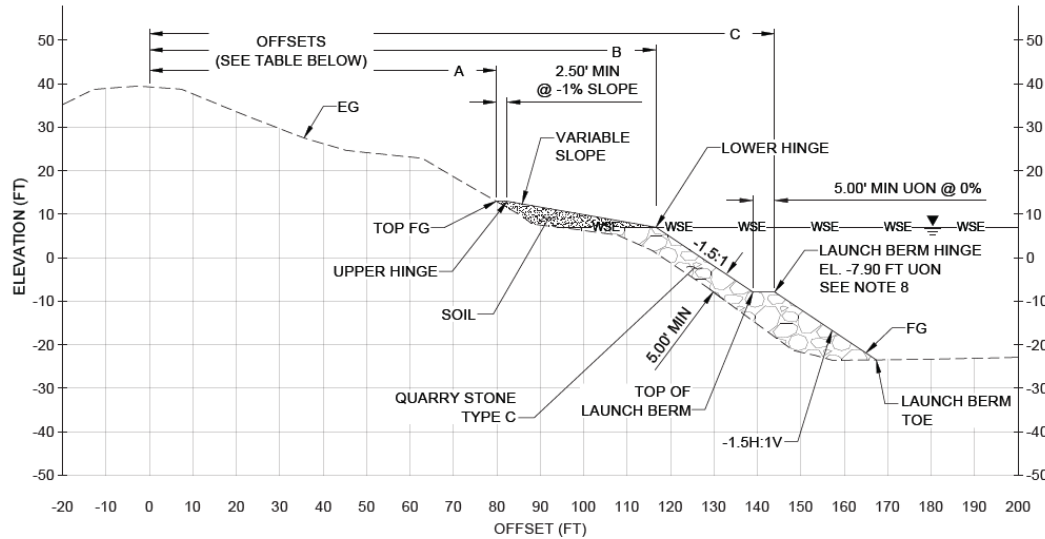
Survey on October 19, 2022
Photo taken looking upstream.
Concrete placed along bank.
Undercut below bank toe



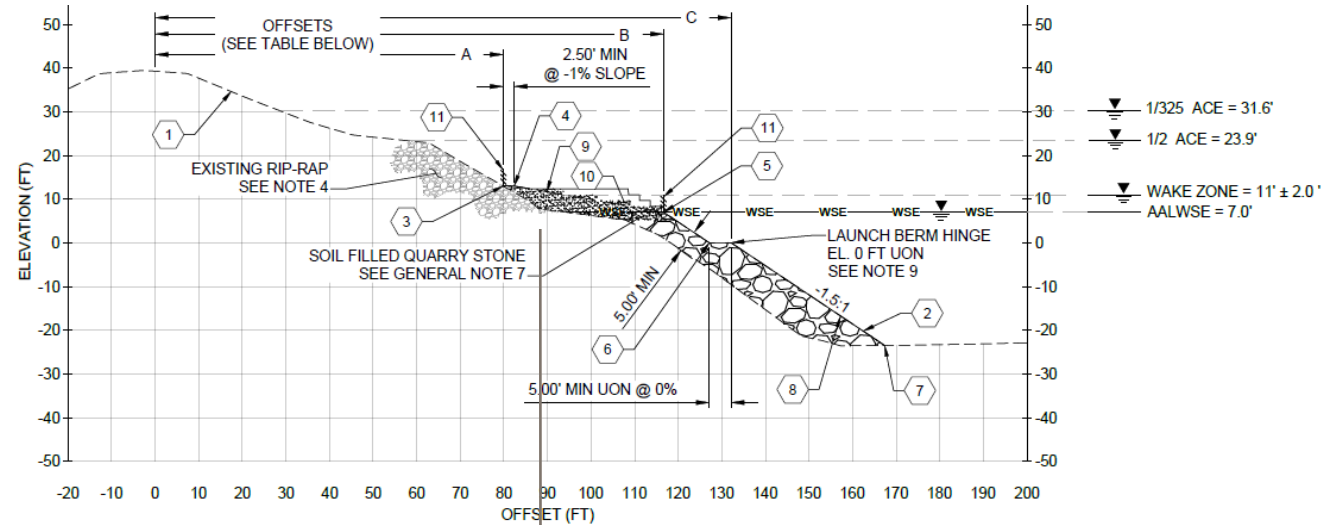
BASIS FOR EROSION PROTECTION DESIGN



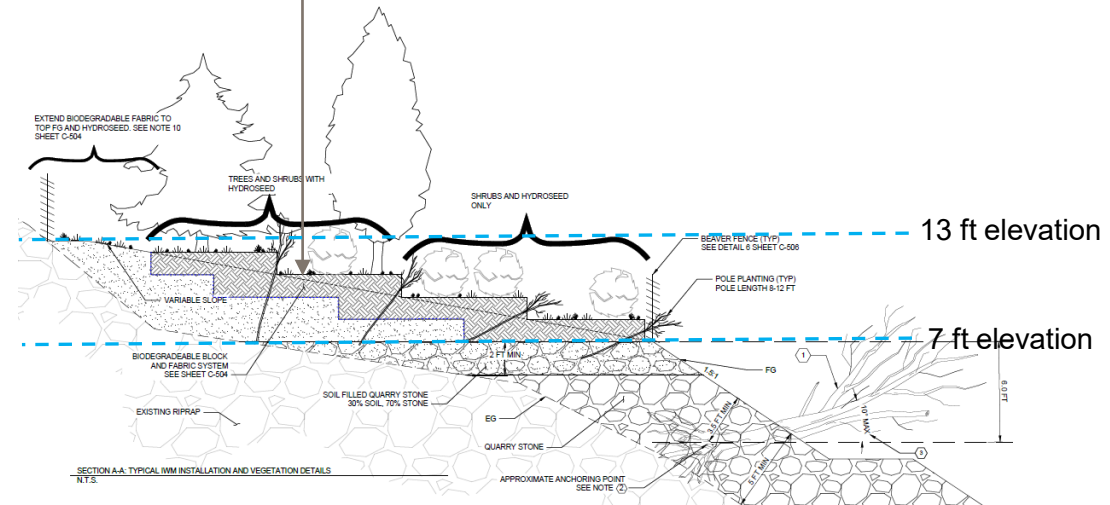
Rock revetment



Soil Bioengineering revetment

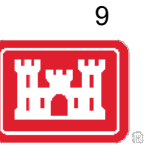


- Toe scour protection
- Bank protection below water level (7 ft)
- Bank protection above water level up to wake zone (13 ft)
- 6 rock tie-backs
- Length of project: approximately 1,700'





DIFFERENCES BETWEEN CONVENTIONAL AND BIOTECHNICAL DESIGN

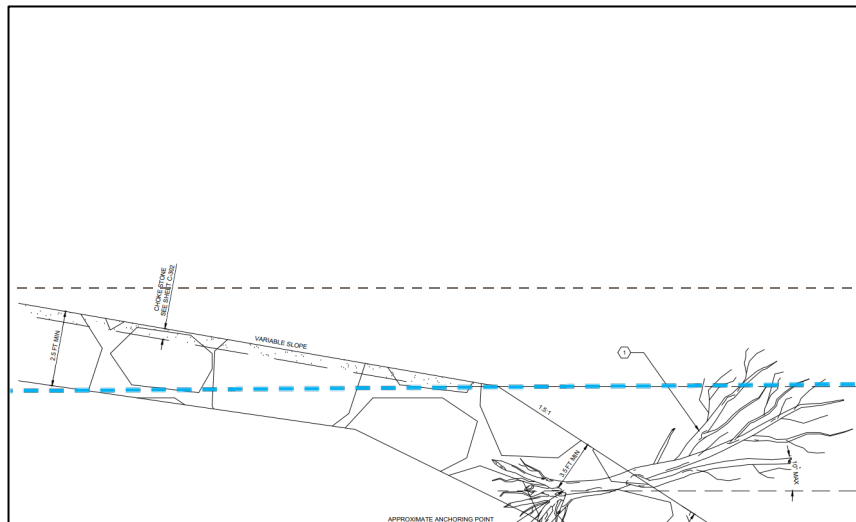


Conventional Rock Design

- Riprap above the summer water level
- Requires tree removal (approximately 31 trees)

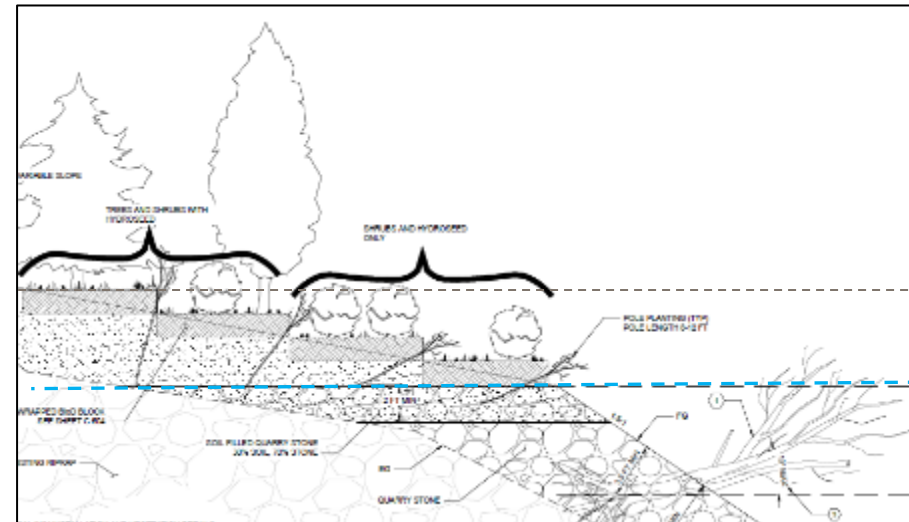
Biotechnical Design

- Shrub and tree plantings above summer water level, instead of riprap
- Existing trees would remain
- Creates riparian habitat through on-site shrub and tree plantings



13 ft elevation

Summer water level, 7 ft elevation





INSTREAM WOODY MATERIAL (IWM)



- IWM embedded into rock protection
- Provides shade and refuge for fish
- Per our Biological Opinions from USFWS and NMFS
- 50 ft buffer around boat dock pilings





SACRAMENTO RIVER EROSION CONTRACT 4



Construction personnel access in yellow

Levee top is the staging area

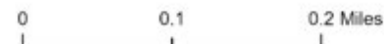
- construction offices
- personal vehicle parking
- tree removal and revegetation trucks

Temporary closure of levee top extending down to river during construction



Sacramento River Erosion Contract 4 Project Location

- Staging Area
- Access Route
- Project Footprint
- - - Construction Limit



US Army Corps of Engineers
Sacramento District



CONSTRUCTION



- Tree removal (if any) to occur from the levee top
- Equipment will not drive off the levee top
- Underwater rock placement to occur from a barge
- Shoreline rock (or bioengineering) placement to occur from equipment leaving the barge
- Revegetation – after construction, from levee top



SUPPLEMENTAL EA/EIR

The Supplemental EA/EIR focuses on design refinements made since the 2016 ARCF Environmental Impact Statement / Environmental Impact Report

- Water Quality
- Vegetation and Wildlife
- Fisheries
- Special Status Species
- Cultural Resources
- Air Quality
- Climate Change
- Noise
- Recreation
- Aesthetics and Visual Resources
- Hazardous Wastes and Materials
- Geological Resources



AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES



Noise

- Will comply with city noise ordinance exemption for construction
Mon-Sat 7 am – 7 pm, Sun 9 am – 6 pm
- Majority of work will be from water side

Air Quality

- Work with air quality district (SMAQMD)
- Implement emission control practices

Water Quality

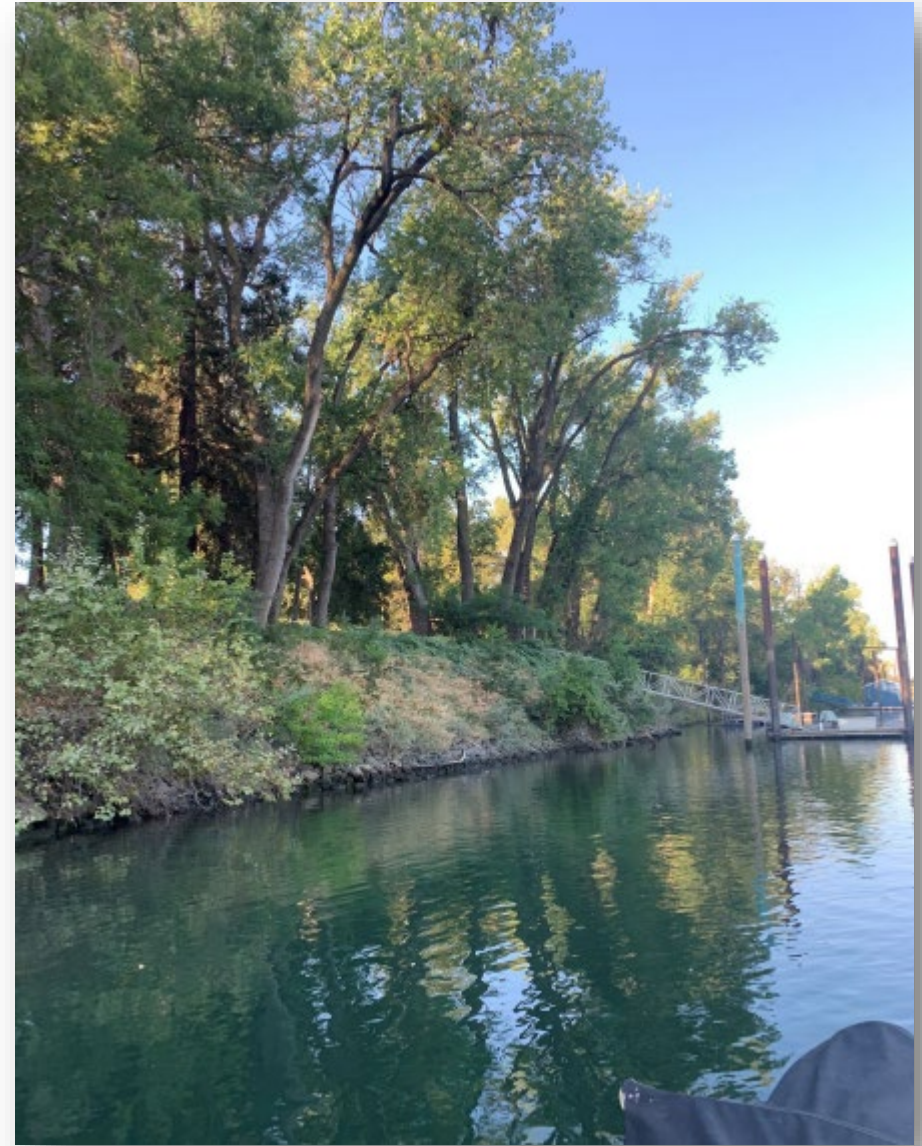
- Clean Water Act Section 401 Water Quality permit
- Implement stormwater pollution prevention plan
- Erosion control measures
- Water quality testing



IMPACTS TO WILDLIFE AND HABITAT



- Endangered Species Act Listed Species
 - Sacramento River Winter run Chinook Salmon
 - Central Valley Spring run Chinook Salmon
 - Central Valley Steelhead
 - Green Sturgeon
 - Delta Smelt
 - Western Yellow-billed Cuckoo
- State Listed Species
 - Swainson's Hawk
 - White-tailed Kite
 - Purple Martin
 - Western Pond Turtle
 - Variety of bat species
- Habitats affected:
 - In-water, benthic
 - Riparian forest, riparian shrub-scrub





AVOIDANCE, MINIMIZATION, AND MITIGATION FOR WILDLIFE AND HABITAT



Preconstruction surveys

- Nesting birds
- Bat surveys
- Western Pond Turtle
- Rare plants

July – October work window

Waterside construction


Will follow environmental commitments listed in

- Biological Opinions (NMFS, USFWS)
- 2016 ARCF EIS/EIR
- Supplemental EA/EIR
- Water Quality Certification (Water Board)





WHERE TO ACCESS DRAFT SUPPLEMENTAL EA AND SUPPLEMENTAL EIR

Project Overview

- American River Levees
- Sacramento River Levees
- Sacramento Weir
- Mitigation

Subscribe for Construction & Traffic email updates

Project Information Tri-fold

Construction Work Inquiry & Concern Submission Form

Sacramento Levee Upgrades Aerials (SREL C3)

Sacramento Levee Upgrades Overview

American River Comm...

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.

Current Project Activities

American River Common Features (ARCF) SEIS/SEIR

USACE is preparing to draft a Supplemental Environmental Impact Statement/Subsequent Environmental Impact Review (SEIS/SEIR) to analyze changes made during final preliminary design of multiple contract actions within the American River Common Features (ARCF) project that could result in potentially significant environmental effects. This supplemental document will centralize where the public and agencies can look for the most current project information and will bring environmental considerations up to date. The SEIS/SEIR will focus on new or different features of project designs that have evolved since the original 2016 ARCF General Reevaluation Report (GRR) Final Environmental Impact Statement/Final Environmental Impact Report (FEIS/FEIR) was completed, while analyzing the potential environmental impacts of these changes.

The Notice of Intent (NOI) to prepare the draft SEIS/SEIR can be found [HERE](#). The NOI incorrectly states that the public comment period closes on November 31, 2022. A correction was made to accurately reflect the correct public comment period closing date of December 1, 2022. The correction can be found [HERE](#). The public scoping period has been extended to December 31, 2022.

Virtual public meetings were held November 2 and November 30, 2022, to discuss the development of the Draft SEIS/SEIR. Public comments will be accepted until December 31, 2022, and can be submitted to ARCF_SEIS@usace.army.mil.

[Virtual Scoping Meeting Presentation Slides](#) (Updated November 30)
[Virtual Scoping Meeting Recording](#)

- Sacramento River East Levee Contract 3 Construction
- Sacramento River East Levee Contract 4 Construction
- Sacramento River Erosion Contract 1
- Sacramento River Erosion Contract 2
- American River Contract 1
- American River Contract 2
- American River Contract 3A
- Sacramento Weir Design
- Manning Channel Design
- Sacramento River Erosion Contract 4**

Draft Supplemental EA and Supplemental EIR are available at:

www.sacleveeupgrades.com

www.cvfpb.ca.gov/public-notice

Sacramento Central Library

Public Comment Period (45 days):

March 1 – April 14, 2023

Final Document: September 2023



HOW TO PROVIDE COMMENTS



1. Write to

Flood Projects Branch
Department of Water Resources
3464 El Camino Ave, Room 150
Sacramento CA 95821

OR

Public Affairs Office
U.S. Army Corps of Engineers
1325 J Street, Room 1513
Sacramento CA 95814

2. Email

PublicCommentARCF16@water.ca.gov

ARCF_SREroC4@usace.army.mil

Please use “SR Erosion Contract 4 SEA/EIR” in the subject line



THANK YOU!

