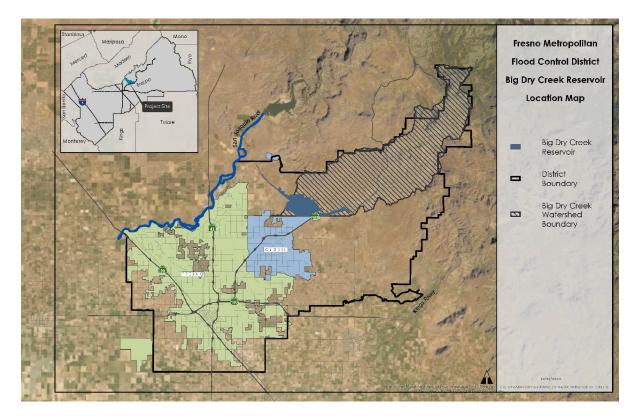


REDBANK AND FANCHER CREEK, **CALIFORNIA- FEASIBILITY STUDY**







Sacramento District 23 April 2024





TOPICS FOR DISCUSSION



- What is a Feasibility Study?
- Who is working on the Feasibility Study?
- When would the Study be completed?
- Where would actions be taken?
- Known biological resources
- Upcoming opportunities for involvement
- How to stay in the loop
- Discussion- What is important to you? What would you like the study team to know?





WHAT IS A FEASIBILITY STUDY?

A feasibility study is a planning process that:

- Identifies water resource <u>problems</u> and <u>opportunities</u>
- Develops potential solutions to those problems while maximizing opportunities
- Compares solutions to each other
- Recommends the solution that makes the most sense



WHEN WILL THE STUDY BE COMPLETED?



| Milestone | Schedule |
|--------------------------------------------------------------------|------------------------------------------------|
| Study Began | February 7, 2024 |
| Decision on Alternatives | August 30, 2024 |
| Release National Environmental Policy Act (NEPA) for Public Review | 30 days for public to review and make comments |
| Agency makes decision | Late 2026 |
| Study sent to Congress for Approval and Authorization | Early 2027 |
| Project Construction | ? Dependent on congressional funding |





WHAT IS THE FOCUS OF THIS FEASIBILITY STUDY?



A study to determine cost effective measures of increasing water supply and conservation

- Capturing more storm water
- Drought resiliency
- Groundwater recharge
- Life safety- residual flood risk
- Nature-based water storage solutions
- Resilience for existing infrastructure
- Storing more water
- Benefits to the environment
- Benefits to human health
- Benefits for recreation, scenery, and greenspace



WHEN WILL THE STUDY BE COMPLETED?



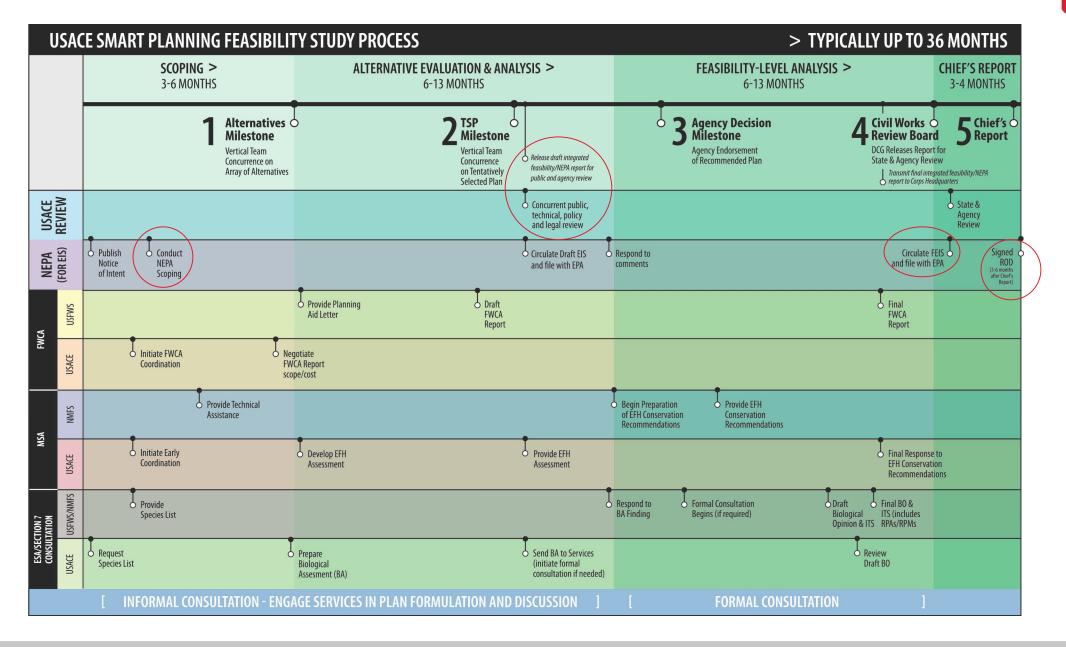
| Milestone | Schedule |
|--------------------------------------------------------------------|------------------------------------------------|
| Study Began | February 21, 2024 |
| Decision on Alternatives | August 30, 2024 |
| Release National Environmental Policy Act (NEPA) for Public Review | 30 days for public to review and make comments |
| Agency makes decision | Late 2026 |
| Study sent to Congress for Approval and Authorization | Early 2027 |
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THE FEASIBILITY STUDY PROCESS AND NEPA/CEQA

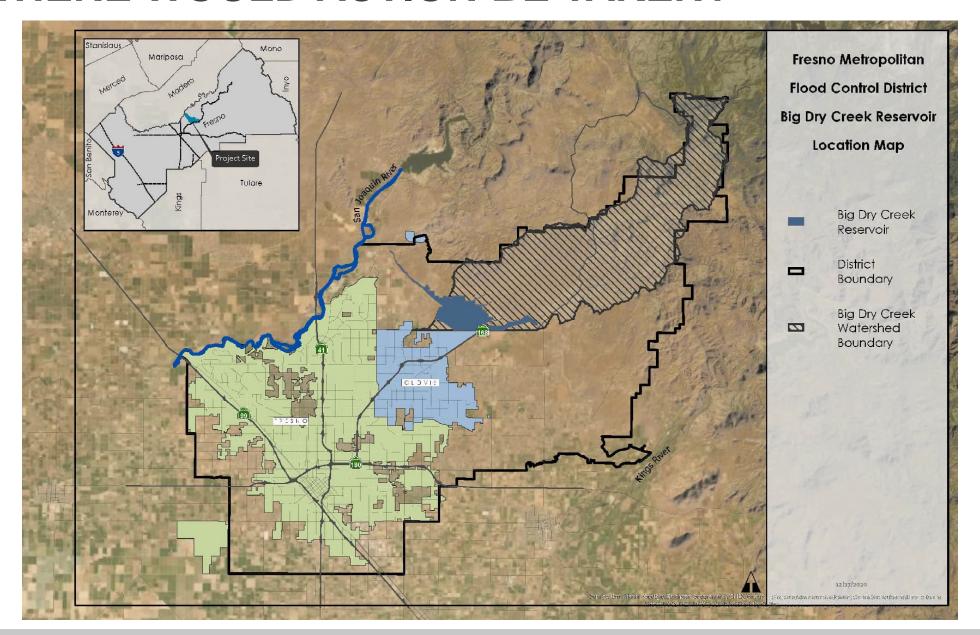






WHERE WOULD ACTION BE TAKEN?

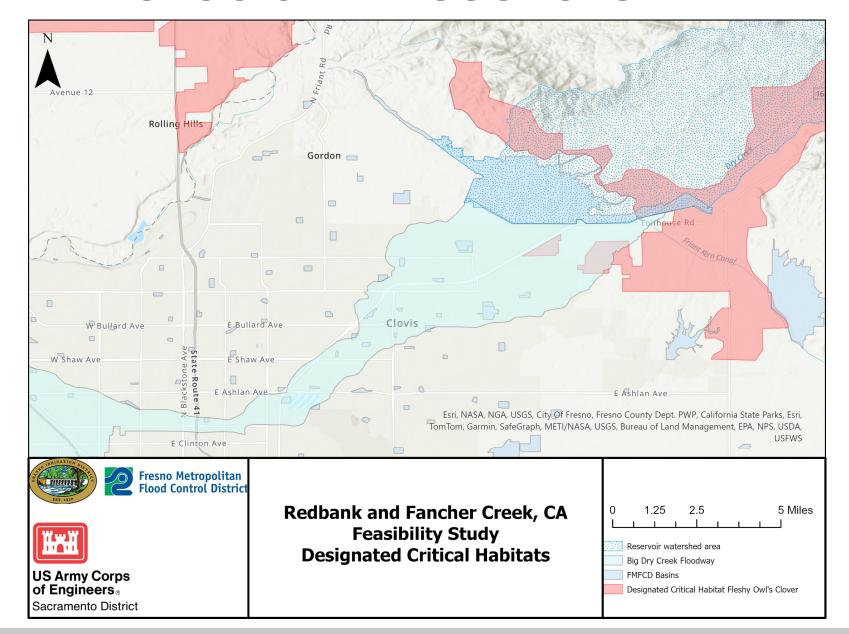






KNOWN BIOLOGICAL RESOURCES

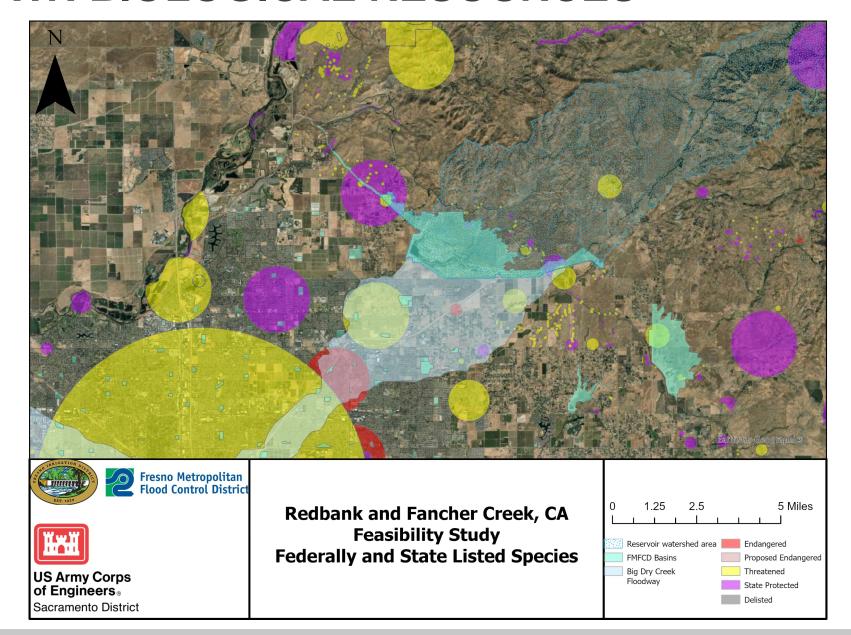






KNOWN BIOLOGICAL RESOURCES







EXISTING CONDITIONS - SPECIES



Federally Listed Species-USFWS

Fisher

Fresno Kangaroo Rat

San Joaquin Kit Fox

California Condor

Yellow-billed cuckoo

Blunt-nosed Leopard Lizard

Northwestern Pond Turtle

California Tiger Salamander

Foothill Yellow-legged Frog

Western spadefoot

Monarch Butterfly

Conservancy Fairy Shrimp

Vernal Pool Fairy Shrimp

Vernal Pool Tadpole Shrimp

Fleshy Owl's-clover

Greene's Tuctoria

Hartweg's Golden Sunburst

San Joaquin adobe sunburst

San Joaquin Valley Orcutt Grass

Federally Listed Species-NMFS

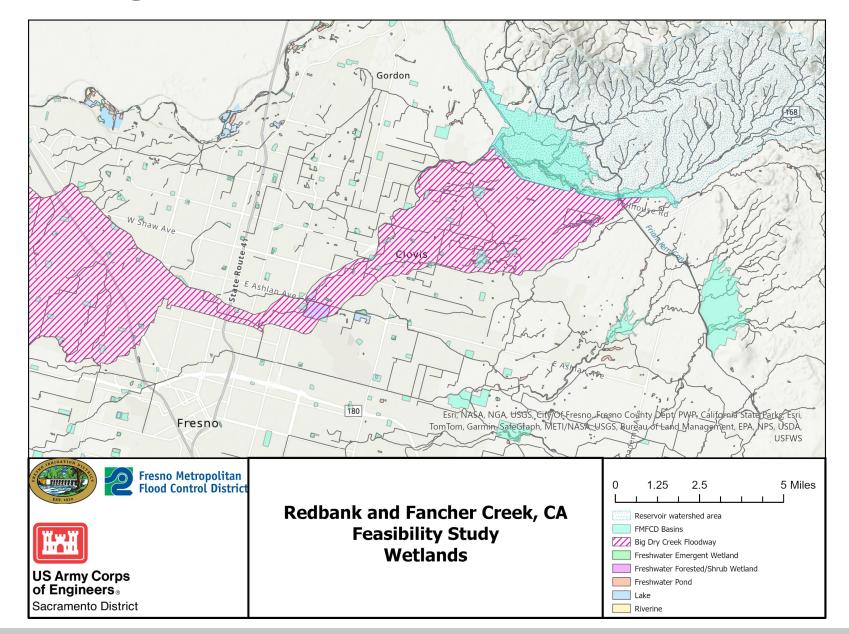
None

| State Listed Species- CDFW |
|-------------------------------|
| Tricolored blackbird |
| Western Spadefoot |
| Spiny sepaled button celery |
| Northern legless lizard |
| Crotch's Bumblebee |
| Swainson's Hawk |
| Tompkins sedge |
| Molestan blister beetle |
| California Jewelflower |
| Palmate bracted birds beak |
| San Joaquin pocket mouse |
| Coast horned lizard |
| California satintail |
| Antioch efferian robberfly |
| Sanford's arrowhead |
| Willow flycatcher |
| California linderiella |
| Midvalley fairy shrimp |
| Western mastiff bat |
| Black crowned night heron |

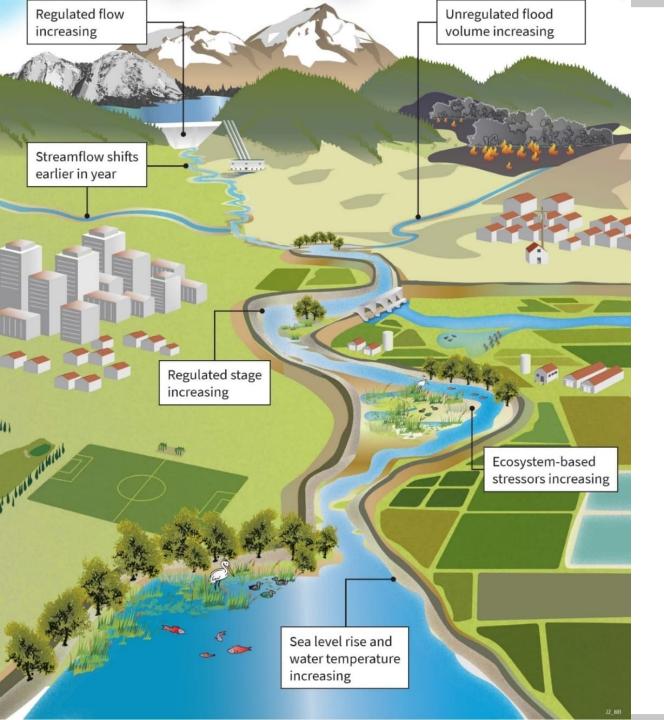
U.S.ARMY

WETLANDS









CLIMATE CHANGE IMPACTS



CLIMATE CHANGE IMPACTS



Increase in frequency and severity of extreme weather events

- More frequent and severe heatwaves
- More frequent and severe droughts
- More frequent and severe wildfires
- More precipitation extremes (flashier system)
- Losses to habitat and ecosystems

Follow on economic effects

- Difficulty in obtaining homeowners/hazard insurance
- Uncertainty of water supply for M&I and Agricultural uses
- Crop losses

Follow on impacts to public health

- Hotter temperatures result in more smog
- Higher temperatures result in more extreme heat events



EXISTING CONDITIONS – BIG DRY CREEK RESERVOIR





EXISTING CONDITIONS – BASINS



EXISTING CONDITIONS – FANCHER AND REDBANK CREEK





UPCOMING OPPORTUNITIES FOR INVOLVEMENT



 Additional official NEPA scoping meeting may be held after alternatives are developed

We will largely request the same type of information, but will have more targeted measures and locations

- Public Meeting to Support NEPA/CEQA process
 Usually held just before or during the public review period
- Review Study Materials and NEPA/CEQA documents during public review
 All documentation will be released for review during the public review period



HOW TO STAY IN THE LOOP



Sign up for study updates (Check yes on sign-in sheet or let us know in the chat)

Send us an email:

RedbankandFancher@usace.army.mil

Visit our websites:

https://www.spk.usace.army.mil/Missions/Civil-Works/Redbank-and-Fancher-Creek/

www.Fresnostreamgroup.com

OPEN DISCUSSION-



What is important to you and your organization?

What would you like the study team to know?

Do you have any information or resources that you would like to share for our consideration during the study?