

# Lower Mokelumne River Project

## FERC Project No. 2916

# Relicensing



NOT TO SCALE



Early Engagement Meetings  
September 18 and 19, 2024



# Agenda



Meeting Goals/Objectives, Meeting Ground Rules, and Introductions

FERC Relicensing Process, Schedule, and Engagement Opportunities

Lower Mokelumne River Project System Overview

Project Component Overview

Request for Relevant Data and Information

Next Steps



An aerial photograph of a large dam and reservoir, overlaid with a semi-transparent blue filter. The dam is a curved concrete structure on the left side of the frame. The reservoir is on the left, and a river flows through a valley on the right. The background shows rolling hills under a clear sky.

# Meeting Goals & Objectives, Ground Rules, Project Relicense Team Introductions

# Meeting Goals & Objectives

- ✓ To provide an overview of the FERC Relicense Process
- ✓ To provide an overview of the Lower Mokelumne River Project (FERC Project 2916) system and a high-level understanding of the meeting subject matter.
- ✓ To provide an opportunity to hear questions, comments as related to the Lower Mokelumne River Project.
- ✓ To be provided with data relevant to the Lower Mokelumne River Project – either to enhance or fill in data gaps.
- ✓ To meet become familiar and meet with the EBMUD project relicense team and interested parties.

# Meeting Ground Rules

- 1.Meeting will begin and end on time
- 2.Stay present and turn off/silence cell phones
- 3.Use common conversational courtesies
- 4.Be Concise; Stay on topic
- 5.There are no bad ideas
- 6.Hold questions until the end of each section presentation



# Lower Mokolumne River Project Relicensing Team

## EBMUD Relicensing Team

**Priyanka Jain**  
Project Manager

**Brad Ledesma**  
Manager, Water Resources Planning Division

**Kathryn Horn**  
Community Affairs Rep

**Joe Tam**  
Dam Safety Technical Lead

**Michelle Workman**  
Fisheries & Wildlife Technical Lead

**Eric Toth**  
Hydrology and Hydraulics Technical Lead

**Chuck Beckman**  
Recreation Technical Lead

**Chris Potter**  
Water Supply Operations Technical Lead

**Casey LeBlanc**  
Hydro Generation Technical Lead

## Consultant Team

**Shannon Luoma**  
Project Manager

**Fatima Oswald**  
Assistant Project Manager

An aerial photograph of a large dam and reservoir, overlaid with a semi-transparent blue filter. The dam is a curved concrete structure on the left side of the frame, with a reservoir extending to the left. The surrounding landscape is hilly and forested. In the bottom right corner, there is a logo for EBMUD.

# FERC Relicense Process, Schedule, Engagement Opportunities



# Federal Energy Regulatory Commission (FERC)

- Federal Power Commission (FPC) - created in 1920 to license hydroelectric projects. FPC replaced by the Federal Energy Regulatory Commission (FERC) in 1977 (under DOE)
- FERC regulates electrical transmission, natural gas, oil transportation, **hydroelectric dam licensing and safety**; and certification of qualifying facilities.
- FERC's Hydro-related authority (i.e., Federal Power Act):
  - Hydro facilities on navigable waters
  - FERC licenses newly constructed hydro projects
  - FERC relicenses existing projects
  - FERC license compliance, including environmental and dam safety





# FERC Relicensing

## What is a License?

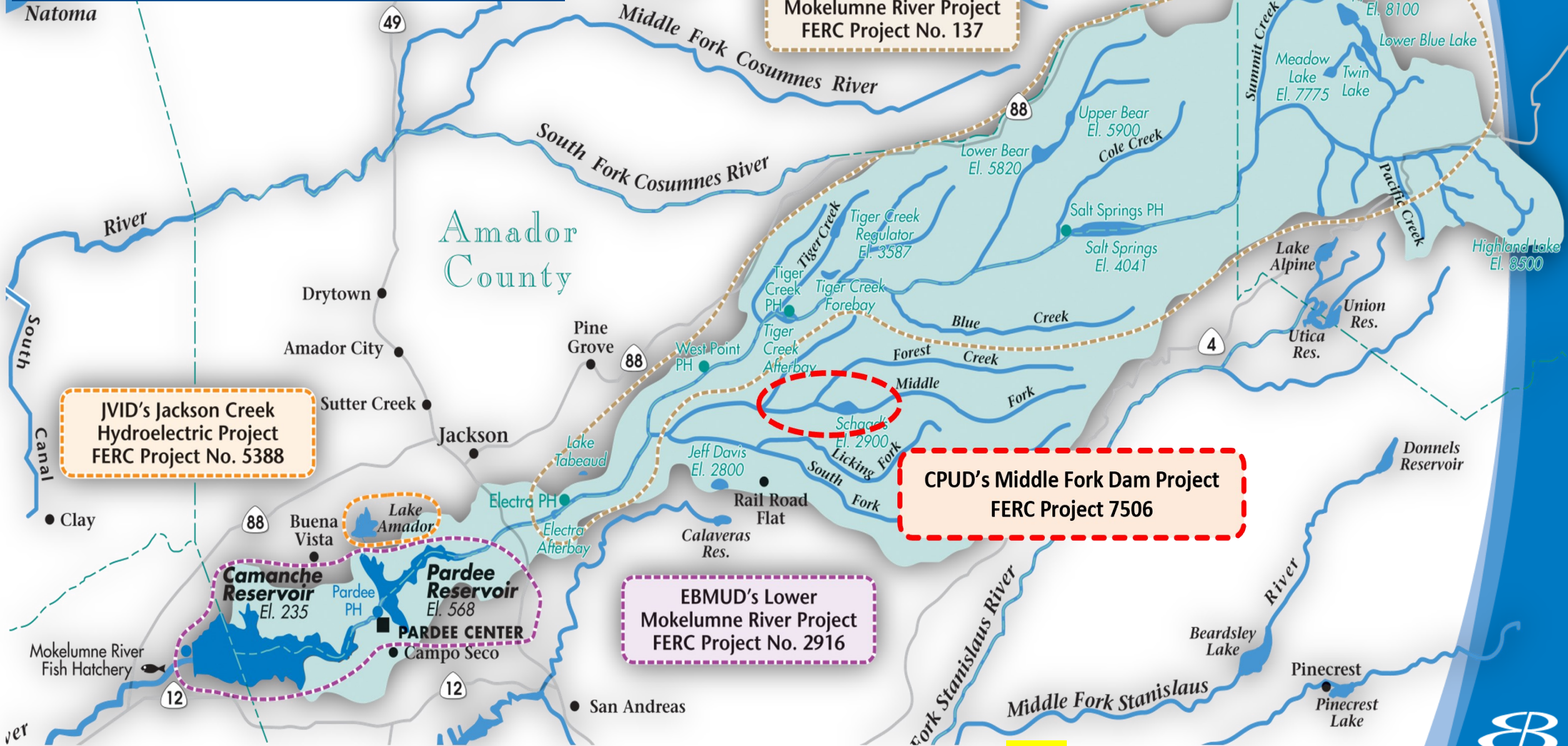
- “Permit to operate”
- Specifies conditions for construction, operation, and maintenance of a project
- Default term is 40 years
- License can be amended during license term



## What is a Relicensing?

- 5 to 7-year process
- Setting new (updated) operating conditions for the next 40+ year license
- Brings project in compliance with regulation changes since the previous license
- Involves multiple interested parties with public involvement opportunities
- Opportunity to add capacity, change operations, new construction, etc

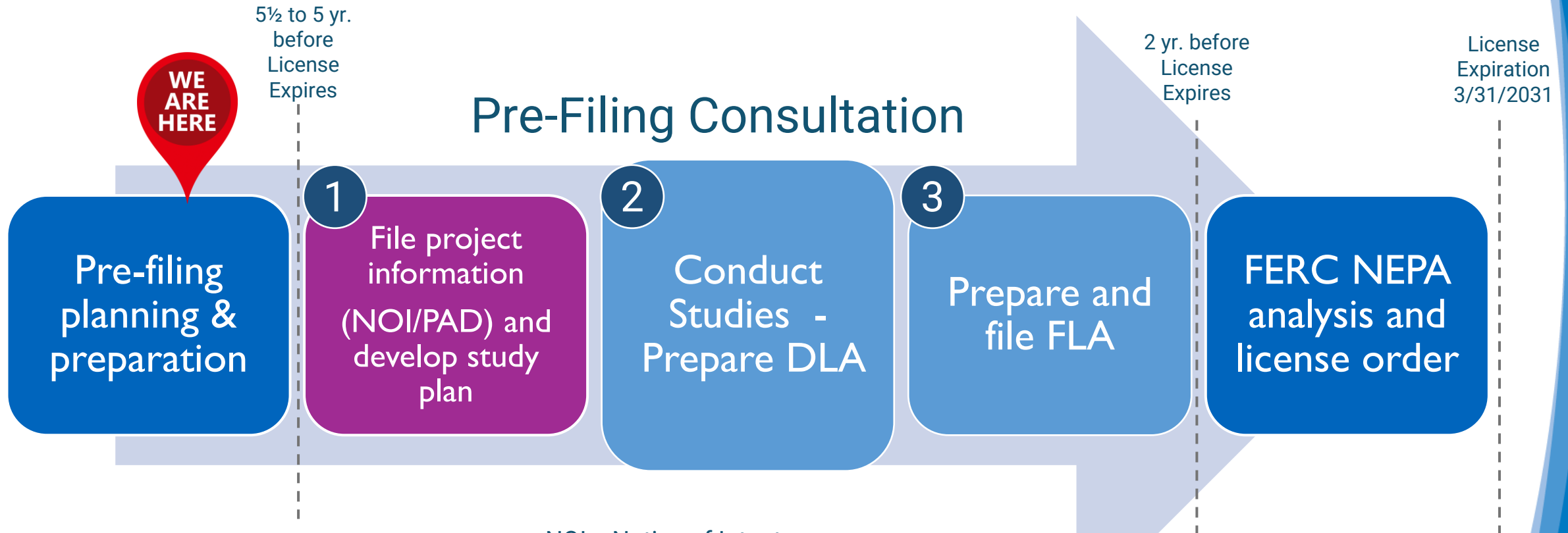
# FERC Licensees in the Mokelumne Watershed



Draft



# Project Relicensing Schedule



NOI = Notice of Intent  
PAD = Pre-Application Document  
DLA = Draft License Application  
FLA = Final License Application  
NEPA = National Environmental Policy Act

# Pre-filing, Planning and Preparation

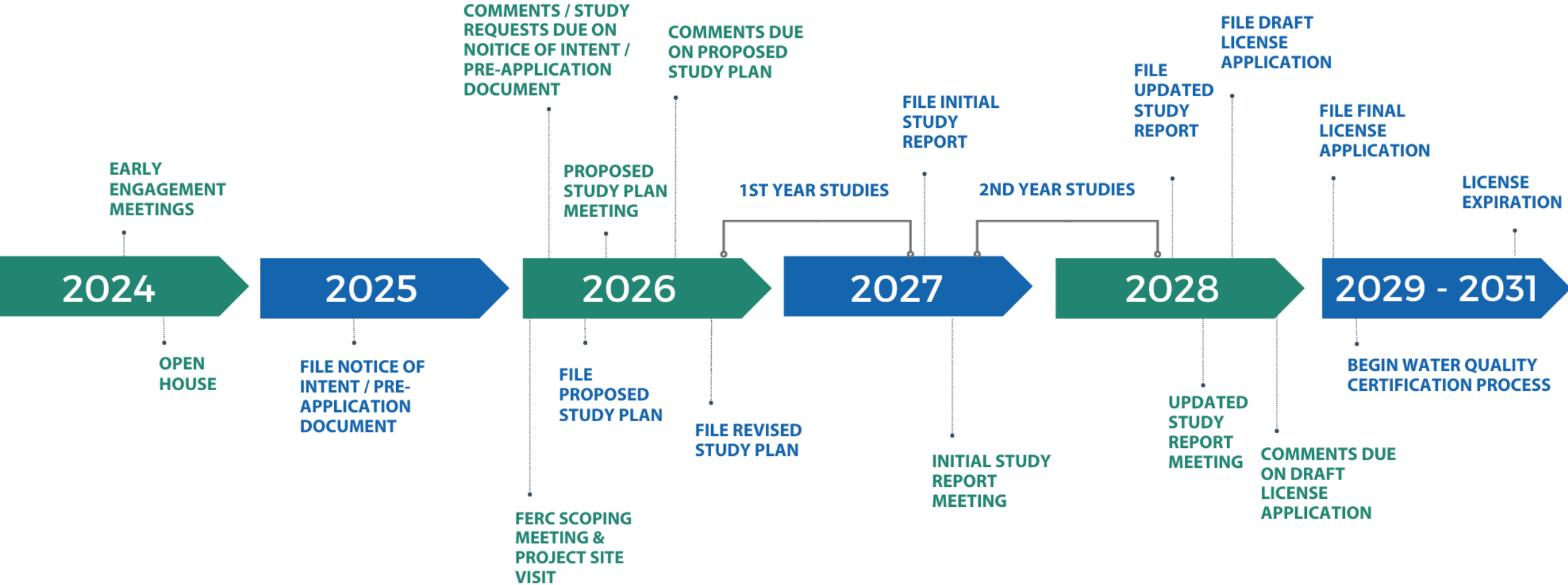
Call to identify data gaps and share information

- Focus Group meetings (today!)
- Public Open House (October 29, 2024)
- Technical Working Groups (Summer 2025)



# RELICENSING SCHEDULE

Lower Mokelumne River Project, FERC No. 2916

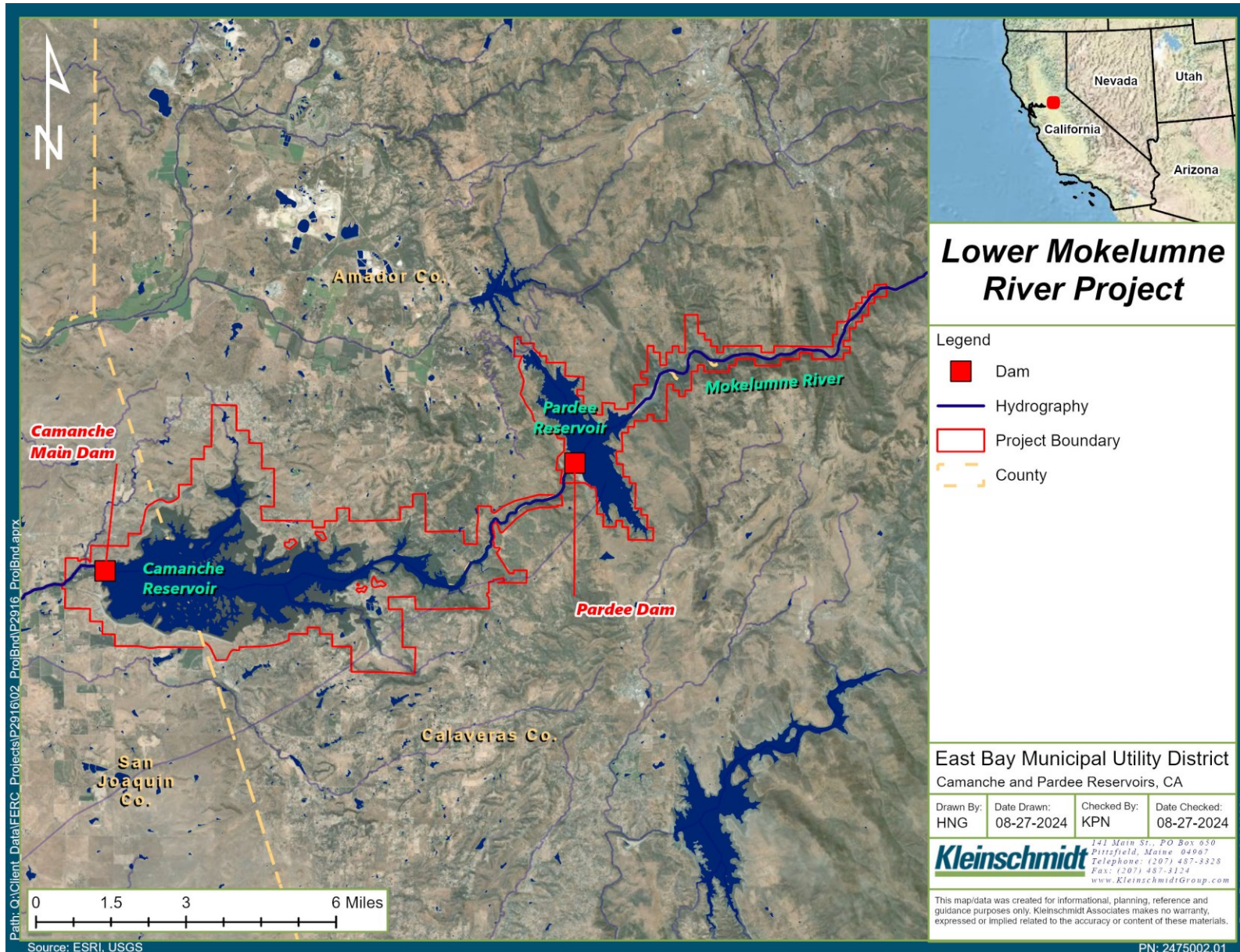


EBMUD Relicensing Milestones  
Interested Parties Involvement Opportunities

# Pre-Application Document and Notice of Intent

- October 2025
- The PAD and NOI are the first steps in the formal FERC process
- Summaries of existing data or studies
- Known data gaps or potential impacts and issues
- Existing and proposed PME measures

# FERC Typical Resource Areas Considered for a New Hydroelectric License



- Geology and Soils
- Water Resources
- Fish and Aquatics
- Terrestrial
- Rare, Threatened and Endangered Species
- Cultural and Tribal
- Recreation
- Land Use and Aesthetics
- Socioeconomic and Environmental Justice

# Study Plan Development & Implementation

## Content of Study Request (18 CFR § 5.9(b)) - 7 FERC Criteria

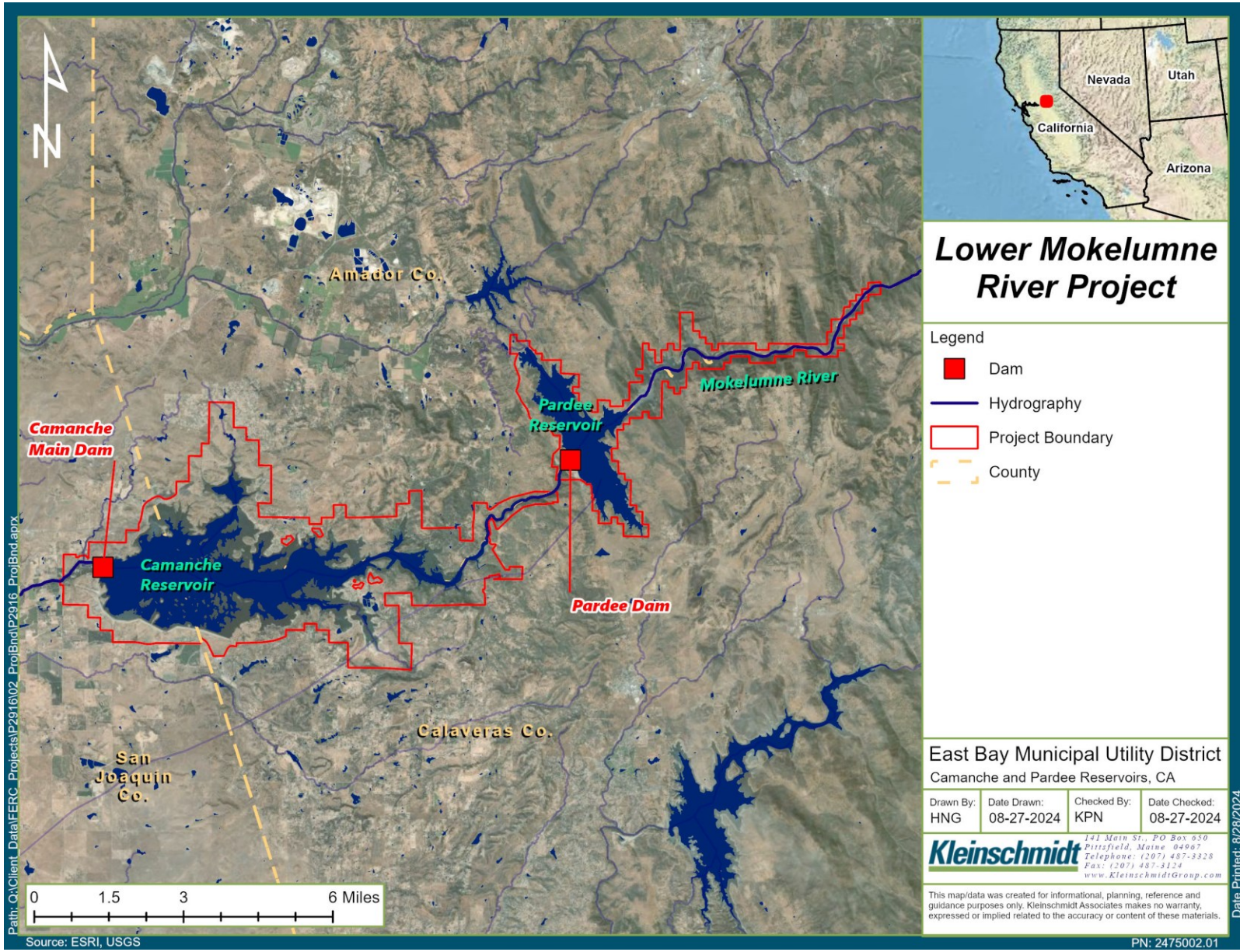
- 1) Goals and objectives of study proposal
- 2) Relevant resource management goals
- 3) Relevant public interest considerations
- 4) **Existing information, and need for additional information**
- 5) **Nexus between project operations and effects**
- 6) Study methodology and generally accepted practice
- 7) Level of effort and cost



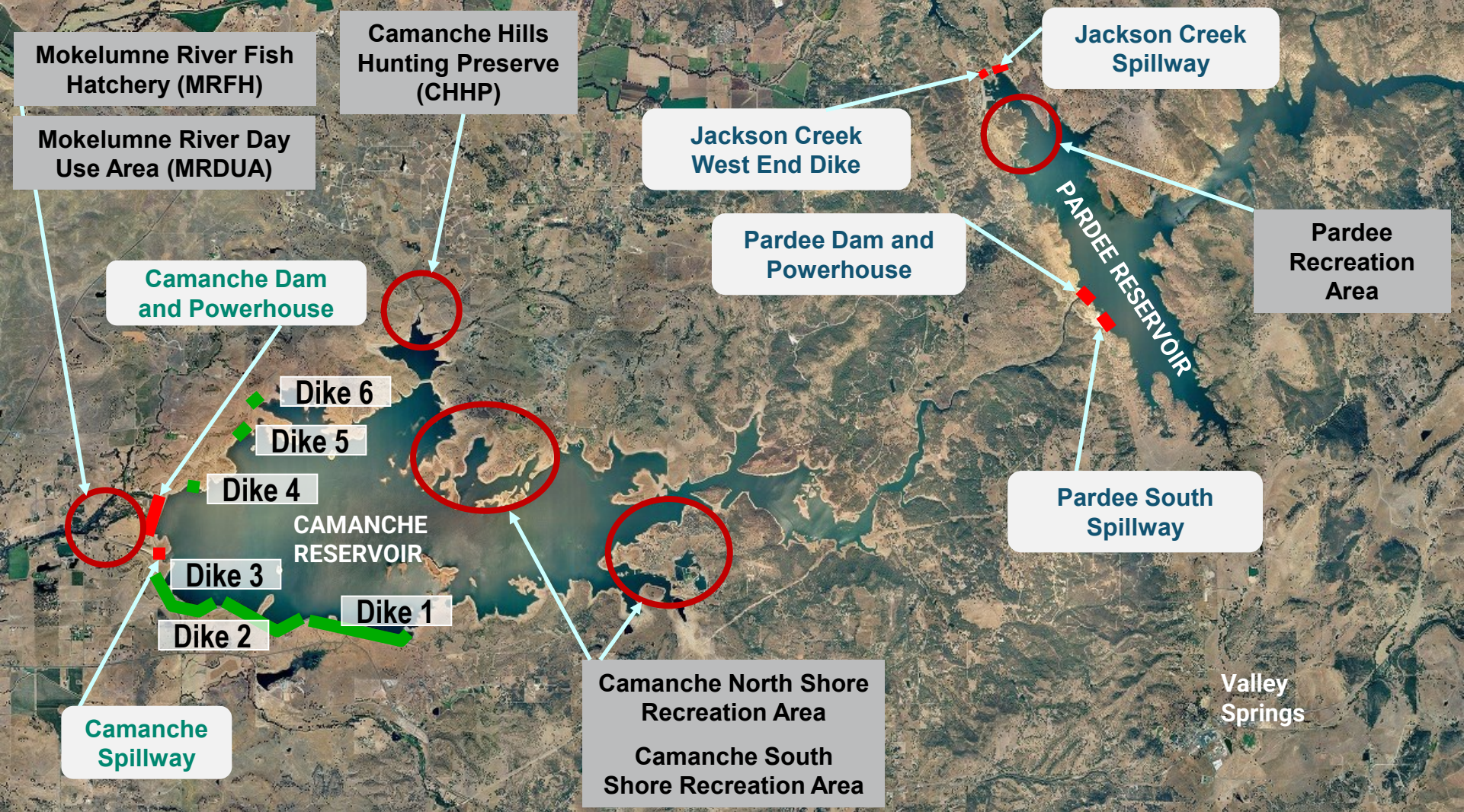
# Lower Mokelumne River Project System Overview



# Lower Mokelumne River (P-2916) - FERC Project Boundary



# Lower Mokelumne River Project Features



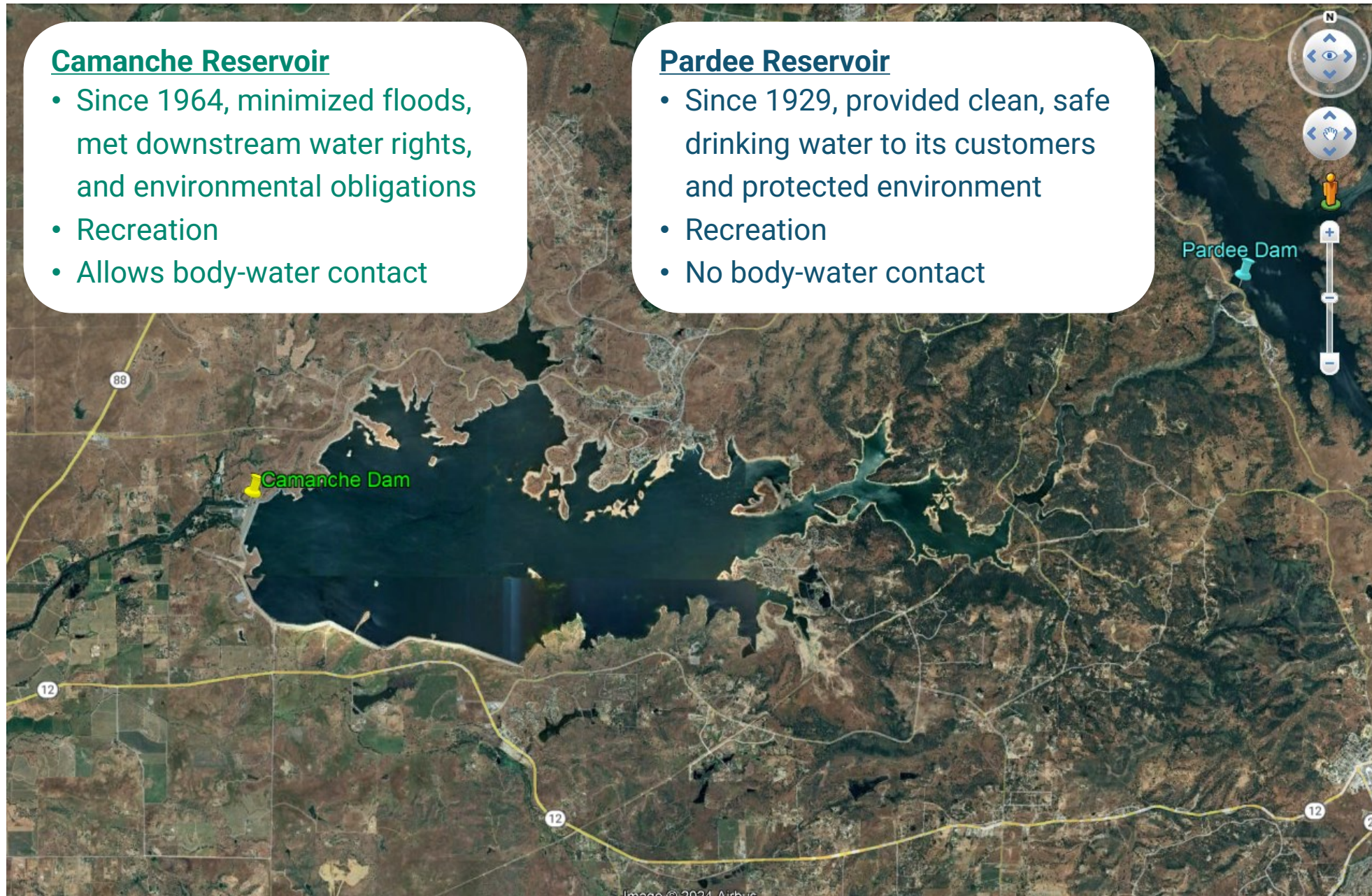
 Rec Areas

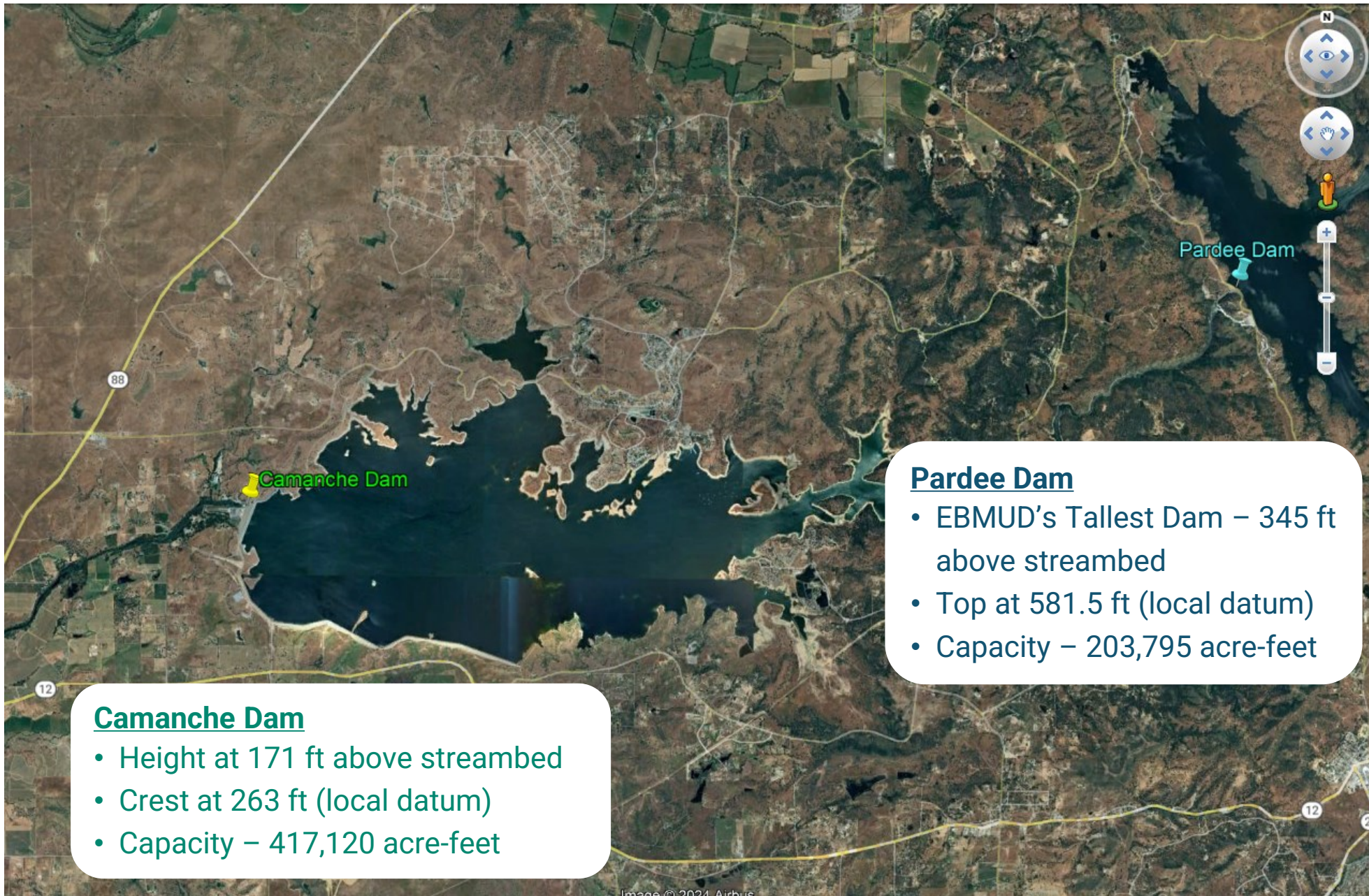
### Camanche Reservoir

- Since 1964, minimized floods, met downstream water rights, and environmental obligations
- Recreation
- Allows body-water contact

### Pardee Reservoir

- Since 1929, provided clean, safe drinking water to its customers and protected environment
- Recreation
- No body-water contact





**Camanche Dam**

- Height at 171 ft above streambed
- Crest at 263 ft (local datum)
- Capacity – 417,120 acre-feet

**Pardee Dam**

- EBMUD's Tallest Dam – 345 ft above streambed
- Top at 581.5 ft (local datum)
- Capacity – 203,795 acre-feet



## Camanche Dam

- Zoned Earth Dam with Impervious Core
- 34.5 ft wide crest
- 750 ft wide base



## Pardee Dam

- Curved Concrete Gravity Dam
- 16 ft wide crest
- 239 ft wide base



## Camanche Dam Power Generation

- 9.45 MW authorized installed capacity



## Pardee Dam Power Generation

- 28.6 MW authorized installed capacity



### Camanche Spillway

- Ungated crest and concrete channel
- Highest flow – 1,630 cfs (1986)
- Not near flow capacity

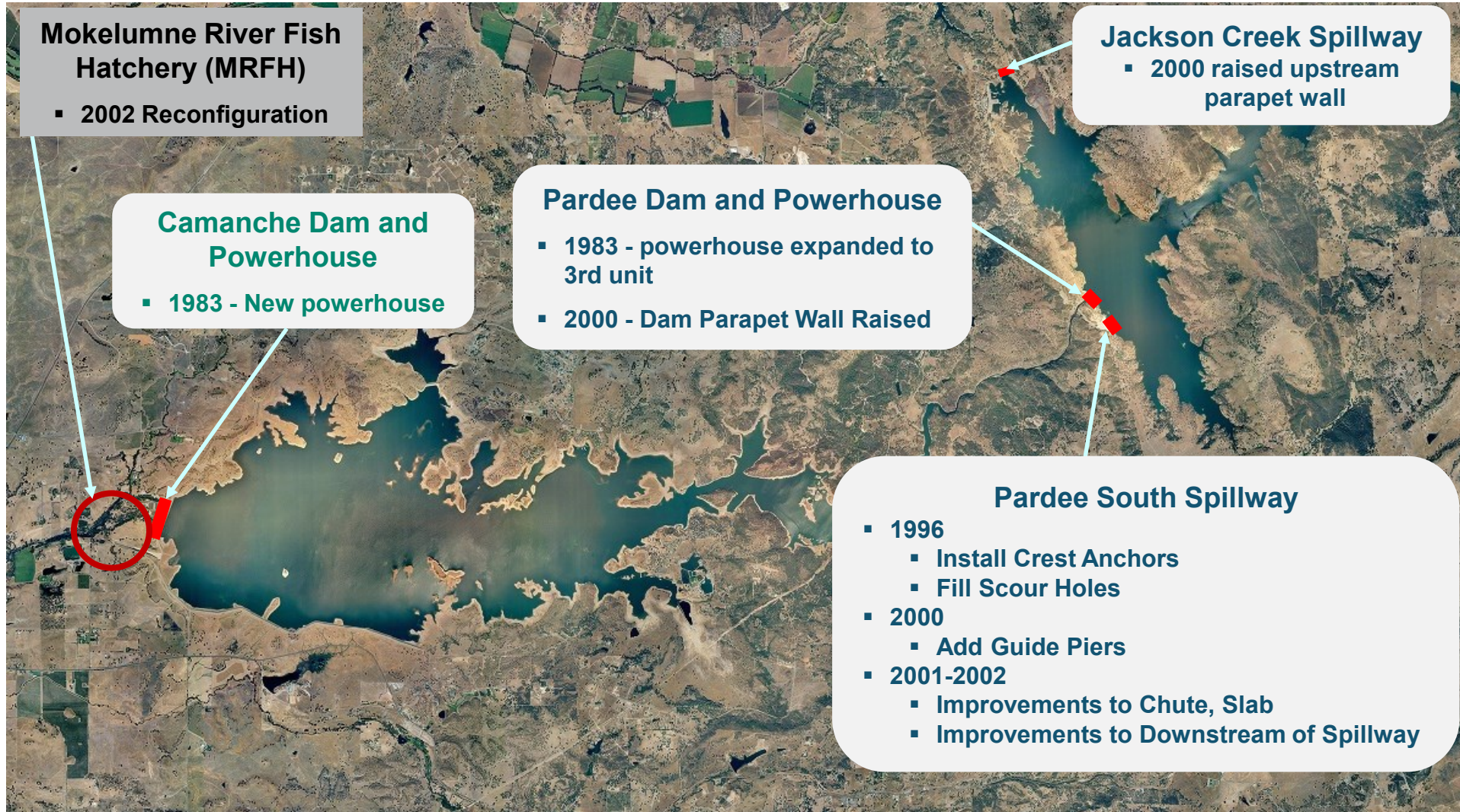


### Pardee South Spillway

- Ungated crest and concrete channel
- Highest flow – 33,000 cfs (1997)
- Not near flow capacity



# Lower Mokelumne River Project Major Upgrades Since Initial Construction



○ Rec Areas

# Lower Mokelumne River Project Component Overview





# **Fisheries & Wildlife**

(presentation saved separately)



# Extreme Hydrology & Climate Change

(presentation saved separately)



# System Operations & Hydro Generation

(presentation saved separately)



# Recreation

(presentation saved separately)

An aerial photograph of a large dam and reservoir, overlaid with a semi-transparent blue filter. The dam is a curved concrete structure on the left side of the frame. The reservoir is on the left, and a river flows through a valley on the right. The background shows rolling hills under a clear sky.

# Discussion/Questions

Existing Resource Management Information

Engagement Opportunities

# P-2916 Lower Mokelumne River Project:

## *Existing Constraints*

- FERC License
- Water Rights Licenses & Agreements
- Army Corps Water Control Manual
- Joint Settlement Agreement
- *Others*





# Existing Resource Management Information

(Plans/Reports/Data)

- Plans/Reports/Data
- Organization/Agency Management Objectives or Goals

# P-2916 Lower Mokelumne River:

## *Data/Information Relevant to Project*

- Existing Agency/Interested Parties Management Plans, Reports, Data, and or New Information?
- Please send information to [MokRelicense@ebmud.com](mailto:MokRelicense@ebmud.com) by **November 30, 2024**.



# Next Steps



# Next Steps

OCTOBER 29, 2024  
OPEN HOUSE @ Pardee Center

By November 30, 2024  
Share initial feedback on Project

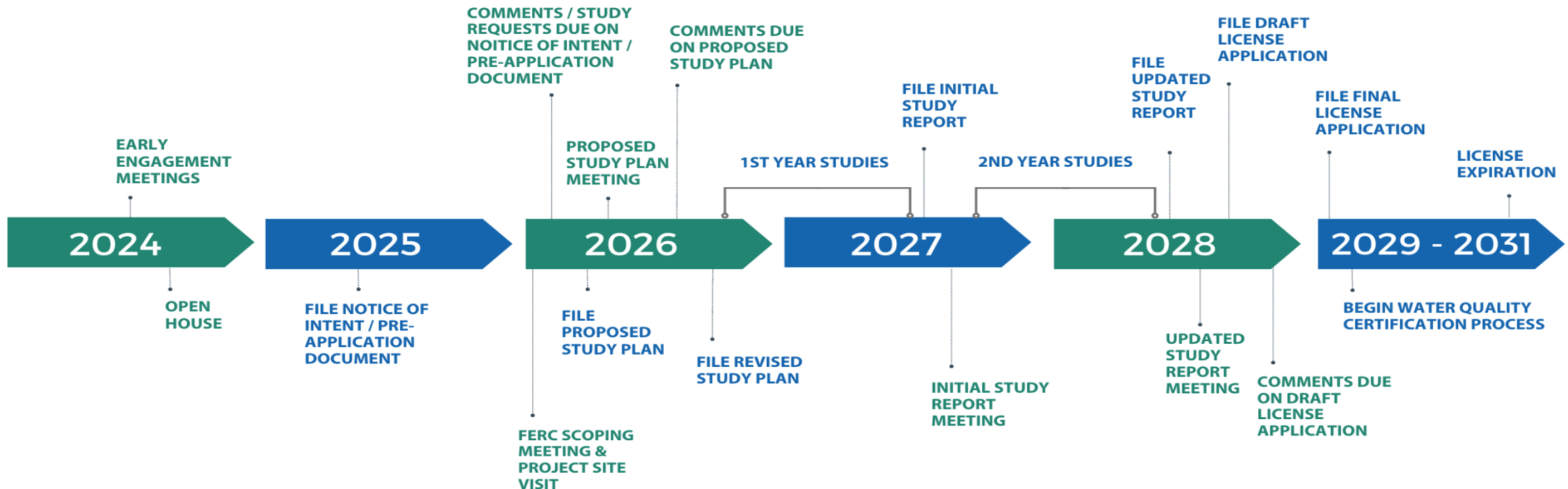
Summer, 2025  
Participate in Technical Working Group Meetings

Starting in Oct/Nov, 2025  
Review Draft Pre-Application Document



# Opportunities to Engage through 2026

- **Open House** (October 29, 2024)
- **Technical Working Groups** (Summer 2025)
- **Scoping Meeting and Site Visit** (January 2026)
- **PAD Comment Period/Study Requests** (October 2025 – mid-February 2026)
- **Proposed Study Plan Meeting** (April 2026)
- **PSP Comment Period** (June 2026)



# Stay Engaged:

- Check the Project website for updates and to submit interest form:  
<https://www.ebmud.com/MokRelicense>
- Sign up for FERC's e-subscription (docket number "P-2916") at  
[www.FERC.gov](http://www.FERC.gov)
- Email Project email address with questions:  
[MokRelicense@ebmud.com](mailto:MokRelicense@ebmud.com)

# Lower Mokelumne River Project

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THANK YOU.

