

February 2019

Yreka – February 5

Arcata - February 6

Orleans – February 7

Sacramento (webcast) – February 15

MEETING SCHEDULE & LOGISTICS

• Meeting Schedule:

- Presentation by State Water Board staff
- Comment period

• Logistics:

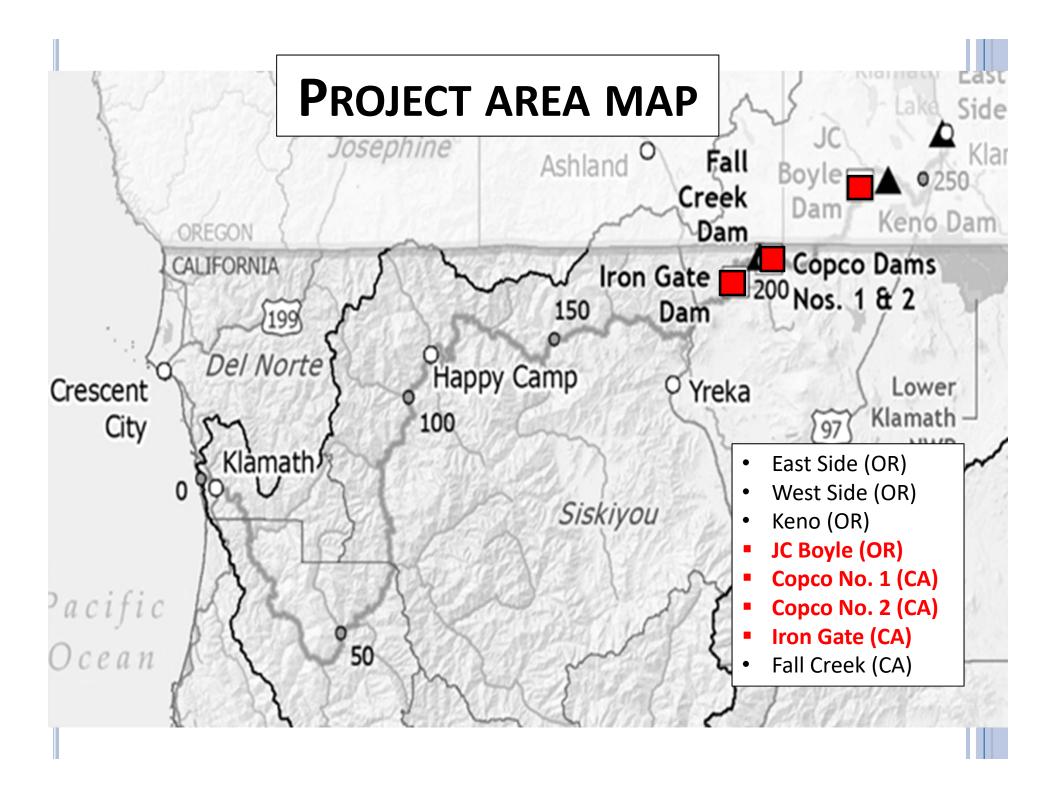
- Please sign-in
- If you wish to speak, please fill out a speaker card and provide it to staff
- Speaker time will be determined based on number of individuals that wish to provide comments

GROUND RULES

- Please silence electronic devices
- Please respect all speakers and points of view
- One person speaks at a time all speakers must use a microphone
- Please hold comments until end of presentation
- Recognize short time frame to receive oral comments, please respect time limits so we can hear from everybody
- Written comments are an option for those that would like to provide additional comments beyond allotted time or those that do not wish to speak today

PRESENTATION OUTLINE

- Background
- Authorities related to hydroelectric licensing actions
- Why we are here today
- Water quality certification process
- California Environmental Quality Act (CEQA) process
- Overview of Draft Environmental Impact Report (EIR)



AUTHORITIES RELATED TO HYDROELECTRIC LICENSING ACTIONS

Federal Energy Regulatory Commission (FERC):

Federal agency with broad authority over hydroelectric projects

- Controls all aspects of proposed action (energy production, facility operations, design requirements, navigation, water quality, fish resources, recreation, etc.)
- State Water Resources Control Board (State Water Board):
 State agency responsible to certify whether proposed action (construction, operation, decommissioning) can meet water quality standards, and to impose conditions to protect water quality
 - Authority over water quality, through water quality certification

WHY WE ARE HERE TODAY

- Klamath River Renewal Corporation (KRRC) submitted a water quality certification application to the State Water Board
- To take an action on application, State Water Board must comply with CEQA
- To comply with CEQA, we have issued a draft environmental impact report (EIR) for public review and comment

WATER QUALITY CERTIFICATION

KRRC
applied to
State Water
Board for
water quality
certification

September 23, 2016

State Water
Board issued
draft water
quality
certification

PUBLIC INPUT

June 7, 2018 to July 23, 2018 State Water
Board
considers
comments on
draft water
quality
certification

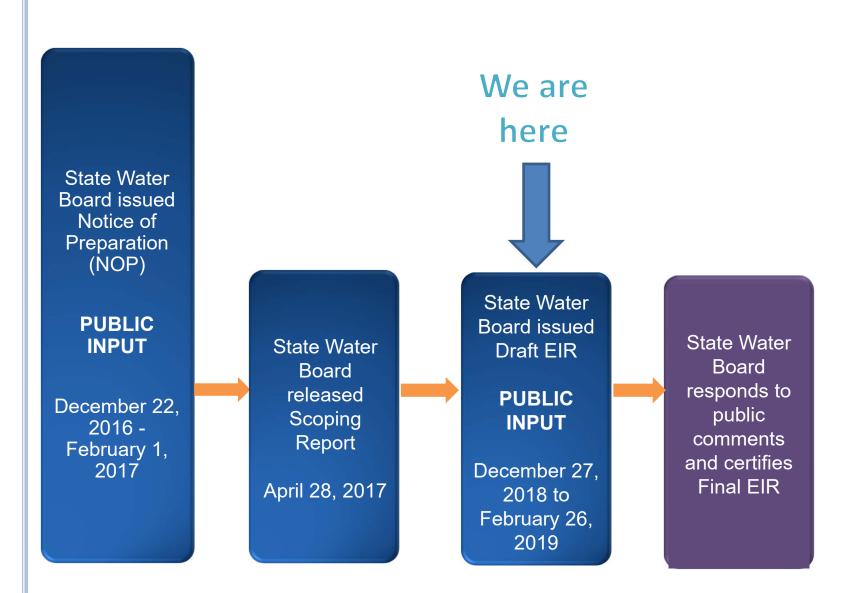
State Water Board issues decision on final water quality certification for Lower Klamath Project



CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

- CEQA requires an environmental impact report (EIR) to:
 - Undertake broad evaluation of project's potential significant environmental impacts
 - Identify ways to avoid, minimize, or mitigate identified impacts, where feasible
 - Evaluate feasible alternatives that accomplish most of project's goals
 - Include agency and public involvement

CEQA



WATER QUALITY CERTIFICATION & CEQA

KRRC
applied to
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September 23, 2016

State Water Board issued draft water quality certification

PUBLIC INPUT

June 7, 2018 to July 23, 2018 State Water
Board
considers
comments on
draft water
quality
certification

State Water Board issues final water quality certification decision for Lower Klamath Project

State Water Board issued Notice of Preparation

PUBLIC INPUT

December 22, 2016 to February 1, 2017 State Water
Board
released
Scoping
Report

April 28, 2017

State Water Board issued Draft EIR

PUBLIC INPUT

December 27, 2018 to February 26, 2019 State Water
Board
responds to
public
comments
and certifies
Final EIR

ORGANIZATION

Volume 1:

- Executive Summary
- Section 1: Introduction
- Section 2: Proposed Project
- Section 3: Environmental Setting, Impacts, and Mitigation Measures
- Section 4: Alternatives
- Section 5: Other Required CEQA Discussion and Considerations of Social and Economic Factors

Volume 2:

Appendices A-W

EXECUTIVE SUMMARY — PROJECT OBJECTIVES

- Improve long-term water quality conditions associated with Lower Klamath Project
- Advance long-term restoration of natural fish populations in Klamath Basin
- Restore volitional (unaided) anadromous fish passage
- Reduce disease conditions for Klamath River salmonids

EXECUTIVE SUMMARY — IMPACT AND MITIGATION TABLE

Table ES-1. Summary of Impacts and Mitigation Measures.

Geographic or Other Additional Information (as needed)	1 2 2	me me ¹	Beneficial	No Significant Impact ²	Mitigation	No Significant Impact with Mitigation	Significant and Unavoidable	Significant and Unavoidable with Mitigation
				Water Quality				
Potential Impact 3.2-1. Short-term and long-term all	teration	ns in w	ater temperature	s due to conversion o	of the reservoir a	reas to a free-flowing	g river.	50
Hydroelectric Reach to the confluence with the Salmon River	S	L	PP, PR, 2R, 3R, NH					
Middle Klamath River downstream from the Salmon River, Lower Klamath River, Klamath River Estuary, Pacific Ocean nearshore environment	S	Ĺ		PP, PR, 2R, 3R, NH				
Potential Impact 3.2-2. Short-term and long-term all sediment release and subsequent deposition in the			easonal water ter	mperatures in the Kla	math River Estu	ary due to morpholo	gical changes induce	ed by dam removal

Section 1 – Introduction, Key Information Sources

- Public Comments on Notice of Preparation
- Tribal Consultation and Meetings
 - Assembly Bill (AB) 52: Shasta Indian Nation, Shasta Nation, Yurok
 - Outside AB 52: Karuk and discussions with other tribes
- Information from federal, local, and state entities
- Scientific information
- Information from KRRC application and additional information submittals

SECTION 2 - PROPOSED PROJECT

- Klamath River Renewal Corporation's Proposed Project is to remove following four dams and associated facilities:
 - J.C. Boyle (Oregon)
 - Copco No. 1 (California)
 - Copco No.2 (California)
 - Iron Gate (California)

SECTION 3 - ENVIRONMENTAL SETTING, IMPACTS, AND MITIGATION MEASURES

3.2	Water	Qua	litv
9.2	VVacci	Quu	ııcy

- 3.3 Aquatic Resources
- 3.4 Phytoplankton and Periphyton
- 3.5 Terrestrial Resources
- 3.6 Flood Hydrology
- 3.7 Groundwater
- 3.8 Water Supply/Rights
- 3.9 Air Quality
- 3.10 Greenhouse Gas
- 3.11 Geology and Soils
- 3.12 Historical/Tribal
- 3.13 Paleontological Resources

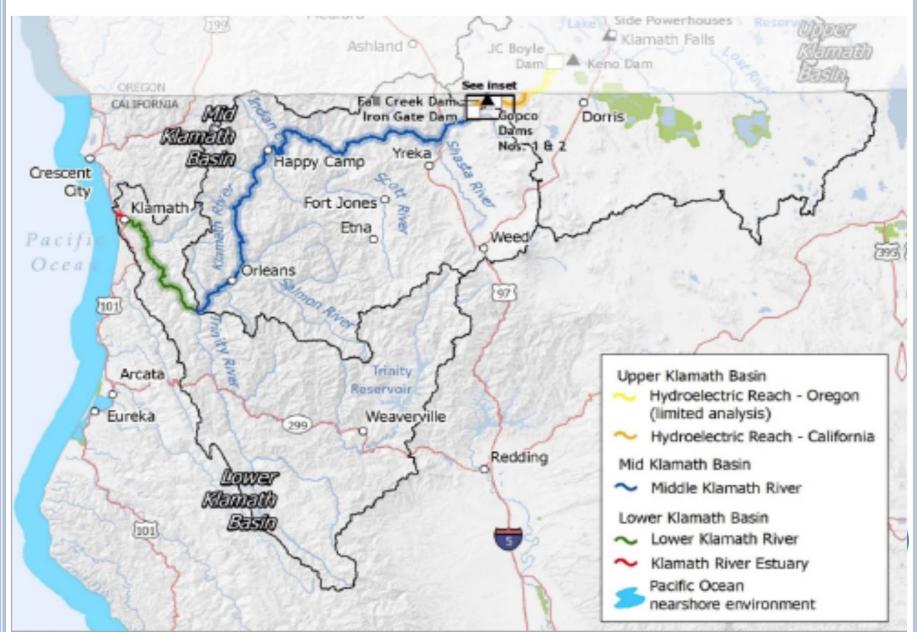
- 3.14 Land Use
- 3.15 Agriculture and Forestry
- 3.16 Population and Housing
- 3.17 Public Services
- 3.18 Utilities
- 3.19 Aesthetics
- 3.20 Recreation
- 3.21 Hazards and Haz. Mats.
- 3.22 Traffic/Transportation
- 3.23 Noise
- 3.24 Cumulative Effects

SECTION 3 - ENVIRONMENTAL SETTING, IMPACTS, AND MITIGATION MEASURES

Each resource area includes discussion of:

- Area of Analysis
- Environmental Setting (baseline)
- Significance Criteria
- Impact Analysis Approach
- Potential Impacts and Mitigation

SECTION 3: EXAMPLE AREA OF ANALYSIS (WATER QUALITY)



SECTION 3: ENVIRONMENTAL SETTING/BASELINE

(EXAMPLE: WATER QUALITY)

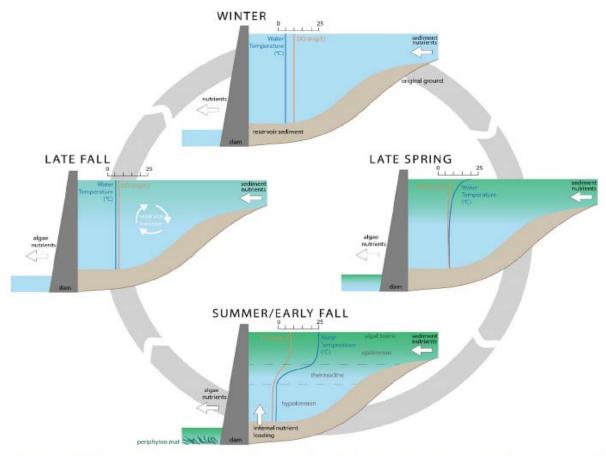


Figure 3.2-2. General Seasonal Pattern of Thermal Stratification, Dissolved Oxygen Concentrations, and Algae Blooms in Relatively Deep, Productive Reservoirs in Temperate Climates, With Darker Green Shading In Surface Waters Representing a Higher Intensity of Algae Growth.

SECTION 3: SIGNIFICANCE CRITERIA AND IMPACT ANALYSIS APPROACH (EXAMPLE: WATER QUALITY)

Significance Criteria:

- Exceed (or substantially contribute to existing exceedance of)
 a water quality standard
- Cause a change in water quality that would result in failure to meet existing beneficial uses of water or to protect existing water quality
- Result in a substantial adverse impacts to human health or environmental receptors

Impact Analysis Approach

- Timeframe for short and long term impacts
- Defined water quality parameters
- Described models used to inform impact analysis

SECTION 3: POTENTIAL IMPACTS AND MITIGATION

(EXAMPLE: WATER QUALITY)

Potential Impact

* Example: Short and Long-term alterations in water temperature due to conversion of reservoirs to a river condition

Impact Analysis

- Water temperatures below Iron Gate Dam 4-18 degrees Fahrenheit warmer in summer and fall
- Water temperatures below Iron Gate Dam 2- 5 Fahrenheit cooler in spring
- Implementation of Proposed Project removes temperature related impacts

Significance Determination

- Beneficial in Hydroelectric Reach and Middle Klamath River to Salmon River
- No significant impact from Salmon River to Pacific Ocean

Mitigation Measures (where feasible or appropriate)

None required

POTENTIAL IMPACT TYPES

- Beneficial
- No significant impact
- No significant impact with mitigation
- Significant and unavoidable impact
- Significant and unavoidable impact with mitigation
- Analyses may be further evaluated based on time scale (short term versus long term impacts) or geographic scale

DRAFT ENVIRONMENTAL IMPACT REPORT: SUMMARY OF RESOURCES AREAS — BENEFICIAL*

- 3.2 Water Quality
- 3.3 Aquatic Resources
- 3.4 Phytoplankton and Periphyton
- 3.5 Terrestrial Resources
- 3.6 Flood Hydrology
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* Indicates at least one potential impact in resource area deemed beneficial

Purple: short- & long-term benefit Blue: only long-term benefit

DRAFT ENVIRONMENTAL IMPACT REPORT: SUMMARY OF RESOURCES AREAS — SIGNIFICANT AND UNAVOIDABLE*

- 3.2 Water Quality
- 3.3 Aquatic Resources
- 3.4 Phytoplankton and Periphyton
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^{*} Indicates at least one potential impact in resource area deemed significant and unavoidable Orange: only short-term Green: short-term & long-term Blue: only long-term

Section 4 – Project Alternatives

- Partial Removal
- Continued Operations with Fish Passage Facilities
- Two Dam Removal (Copco No. 2 & J.C. Boyle remain)
- Three Dam Removal (J.C. Boyle remains)
- No Hatchery
- No Project

Comments due by 12:00 (noon) on February 26, 2019

Email: WR401Program@waterboards.ca.gov or

Mail:

Michelle Siebal
State Water Resources Control Board
P.O. Box 2000
Sacramento, CA 95812-2000

Lower Klamath Project Website:

http://www.waterboards.ca.gov/waterrights/water_issues/programs/water_quality_cert/lower_klamath_ferc14803.shtml



How to Stay Informed

- Refer to first page of Notice of Availability
- Subscribe to "Lower Klamath Project License Surrender"
 Email List

Webpage:

http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml#rights

- 1. Provide name and email in required fields
- 2. In categories below, select "Water Rights," then "Lower Klamath Project License Surrender"
- 3. Click "Subscribe" button
- 4. An email will be sent to you; you must respond to email message to confirm membership

PUBLIC COMMENT AND GROUND RULES REMINDERS

• Public Comment:

- State and spell your first and last name for court reporter; provide your affiliation (if desired)
- Use microphone
- Respect time limits and follow ground rules

• Ground Rules:

- Respect all speakers and points of view
- One person speaks at a time all speakers must use a microphone
- Respect time limits so we can hear from everybody; if time remains after everyone has had an opportunity to comment, we can allow for additional comments from those who wish to come up again