## Trinity River Restoration Program Oregon Gulch Scoping Meeting – Nov. 5, 2020

#### Participating in the Oregon Gulch Scoping Meeting Event

Because your microphone and camera will not be available to you for the live event, the only way you can communicate with the presenters or other attendees is to use the Q&A panel.

#### Using the Q&A Panel

To open the Q&A panel, select the Q&A button found on the upper, right side of the screen.



To ask a question, type your question in the compose box (located at the bottom of the panel), and then select the Send button or icon. If you want to ask your question anonymously, select "Post as anonymous."

The questions that are sent to the presenters will be published and addressed at the end of the presentations.

Questions and comments specific to the Oregon Gulch project will be given priority.





## Oregon Gulch Public Scoping Meeting Agenda

- Meeting Guidelines Emily Thorn, Ironwood Consulting
- Introduction Mike Dixon, TRRP Executive Director
  - Meeting Purpose & Program Partners
  - TRRP Background
  - Objectives: Overall and Proposed Project
- Oregon Gulch Project Description Dave Gaeuman, Project Designer (YTFP) Kyle De Juilio, Fisheries Biologist (YTFP)
  - Project Design and Purpose
- Environmental Compliance Brandt Gutermuth, Env. Scientist
  - Lead Agencies
  - Project Schedule
  - o How to submit questions or comments





## Oregon Gulch Scoping Meeting November 5, 2020

Mike Dixon, Ph.D. – Executive Director, TRRP Dave Gaeuman, Ph.D. – Geomorphologist, Yurok Tribal Fisheries Program Kyle De Juilio, Fisheries Biologist – Yurok Tribal Fisheries Program Brandt Gutermuth – Environmental Scientist, TRRP



# Anadromous Fish

## Spring and Fall Run Chinook

Coho

#### Steelhead

**Pacific lamprey** 

### Need for River Restoration: Loss of Natural River Function



#### Hydraulic and dredge mining buried floodplain and obliterated the channel

#### Logging increased fine sediment and reduced wood recruitment



Loss of Natural River Function: Diversions to Central Valley

Initially took 80-90% of the Trinity River. Still takes over 50%.



#### U.S. Department of Interior Record of Decision 2000 Establishes the Trinity River Restoration Program



The long-term goals of this Program are to restore the form and function of the Trinity River; restore and sustain natural production of anadromous fish populations in the Trinity River to pre-dam levels; and to facilitate full participation by dependent tribal, commercial, and sport fisheries through enhanced harvest opportunities.



### Our toolbox



**Gravel Augmentation** 

Watershed Restoration



**Restoration Flows** 

Channel Rehabilitation

Adaptive Management









# Channel Rehabilitation



# **Restoration Results!**

## Smolts per Spawner – Change Point Analysis



Boyce, J., D.H. Goodman, N.A. Som, J. Alvarez and A. Martin. 2018. Trend Analysis of Salmon Rearing Habitat Restoration in the Trinity River at Summer Base Streamflow, 2005-2015.



Boyce, J., D.H. Goodman, J. Alvarez, A. Martin and K. Hopkins. 2020. Streamflow and Juvenile Salmonid Habitat Availability at Six Rehabilitation Sites on the Trinity River, California 2008-2017.

(300-2,000 cfs)



## Smolts per Spawner – Change Point Analysis









## **Oregon Gulch River Rehabilitation**





### **Overall Project Objectives**

Remove tailings piles from 16 acres of valley bottom to:

- Greatly increase the extent and frequency of floodplain inundation
- Promote fluvial processes and channel planform change
- Greatly increase fry rearing habitat availability
- Greatly increase riparian biomass and abundance
- Enhance riverine trophic production and overall ecosystem function

#### Where are the tailings going?

Between 320,000 and 500,000 cubic yards of tailings to Eagle Rock Quarry



















#### Modeled Inundation Extents and Flow Velocity 1,200 cfs



#### **Existing Conditions**

**Design Conditions** 



River Discharge (cfs)	Existing Fry (millions)	Design Fry (millions)	Existing Smolts (millions)	Design Smolt (millions)	Percent Increase Fry	Percent Increase Presmolt
350	2	4.4	.54	1	114	94
450	1.9	4.7	.53	1.2	150	119
600	1.7	17	.51	3	900	496
800	1.5	17.5	.50	3.3	1,040	567
1,200	1.4	15.4	.49	3.4	998	591
1,800	1.3	14	.48	3.7	951	673
2,500	1.4	13.4	.50	4.2	866	742
3,500	1.5	13.2	.56	4.9	770	780
4,000	1.6	13	.59	5.2	706	794
4,800	1.8	13	.63	5.8	623	819



# Oregon Gulch: Scoping is to INFORM DECISION MAKING

5 November 2020

## **Environmental Compliance**

## **ASSESSMENT PROCESSES**

- National Environmental Policy Act (NEPA)
  - Requires analysis and disclosure of environmental & human effects
- California Environmental Quality Act (CEQA)
  - State equivalent to NEPA

 Requires reducing environmental effects
 Both minimize environmental effects via public participation and documentation

## **AGENCY ROLES**

#### • NEPA: Federal

- Lead & Project Proponent = Dept. of Interior
  U.S. Bureau of Reclamation (Trinity River Restoration Program)
- Co-Lead =

**U.S. Bureau of Land Management** 



#### • CEQA: State

- Lead = State Agency with primary project responsibility North Coast Regional Water Quality Control Board
- Responsible Agency
- Trustee Agencies

Trinity County California Dept. Fish & Wildlife









## Schedule

#### Fall 2020

- Oct 21 Nov 23: Public Scoping
- Virtual public meeting: Nov 5, 2020

#### Winter 2020-2021

- Dec: Draft Environmental Assessment/ Initial Study (EA/IS)
- Dec Jan: Public Comment Period INPUT based on EA/IS Project Description
- Feb: Final EA/IS and decision

### Spring - Summer 2021

- Repairs to Sky Ranch Road
- Haul mine waste from Oregon Gulch to Eagle Rock

# How can the Oregon Gulch Project best meet Community and Restoration needs?



Brandt Gutermuth at 530.623.1806 or Kevin Held at 530.623.1809

Submit input to Brandt at:

fgutermuth@usbr.gov