

The Wood for Salmon Working Group



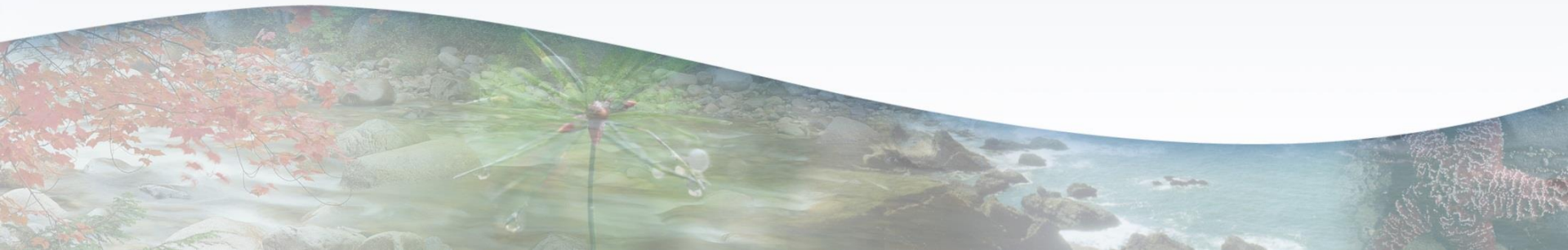
Jonathan W. Warmerdam

North Coast Regional
Water Quality Control Board

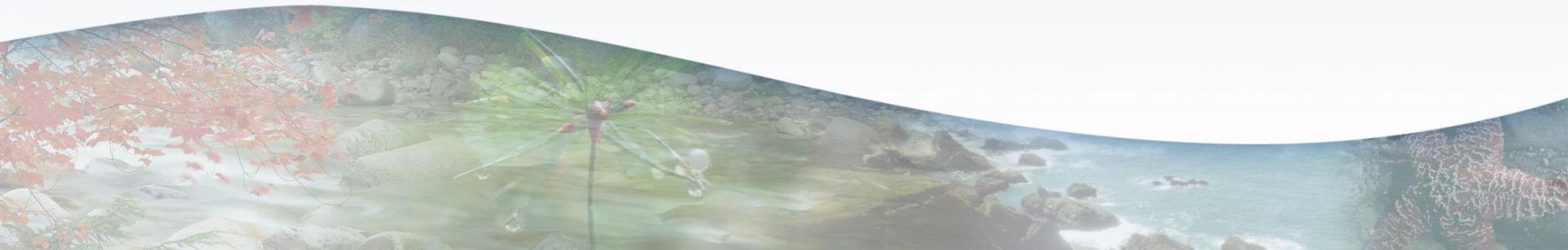
August 27, 2014

Presentation Topics

- I. Eras of Instream Wood
- II. Wood for Salmon Working Group
- III. Promoting Restoration



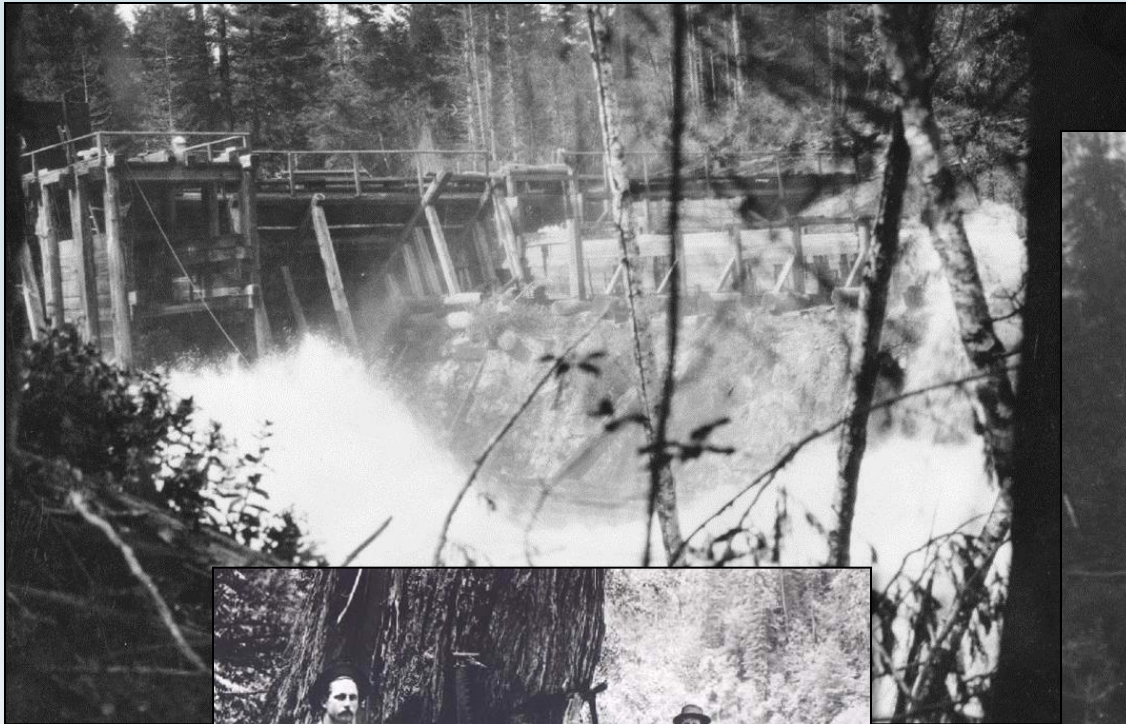
Part I: Eras of Instream Wood



Phase 1: 1,000,000+ Years of Natural Recruitment



Phase 2: Early Logging (1850s – 1920s):



PROBABLY MILLERY LOGS - WATER DRIVING ON BIG RIVER.

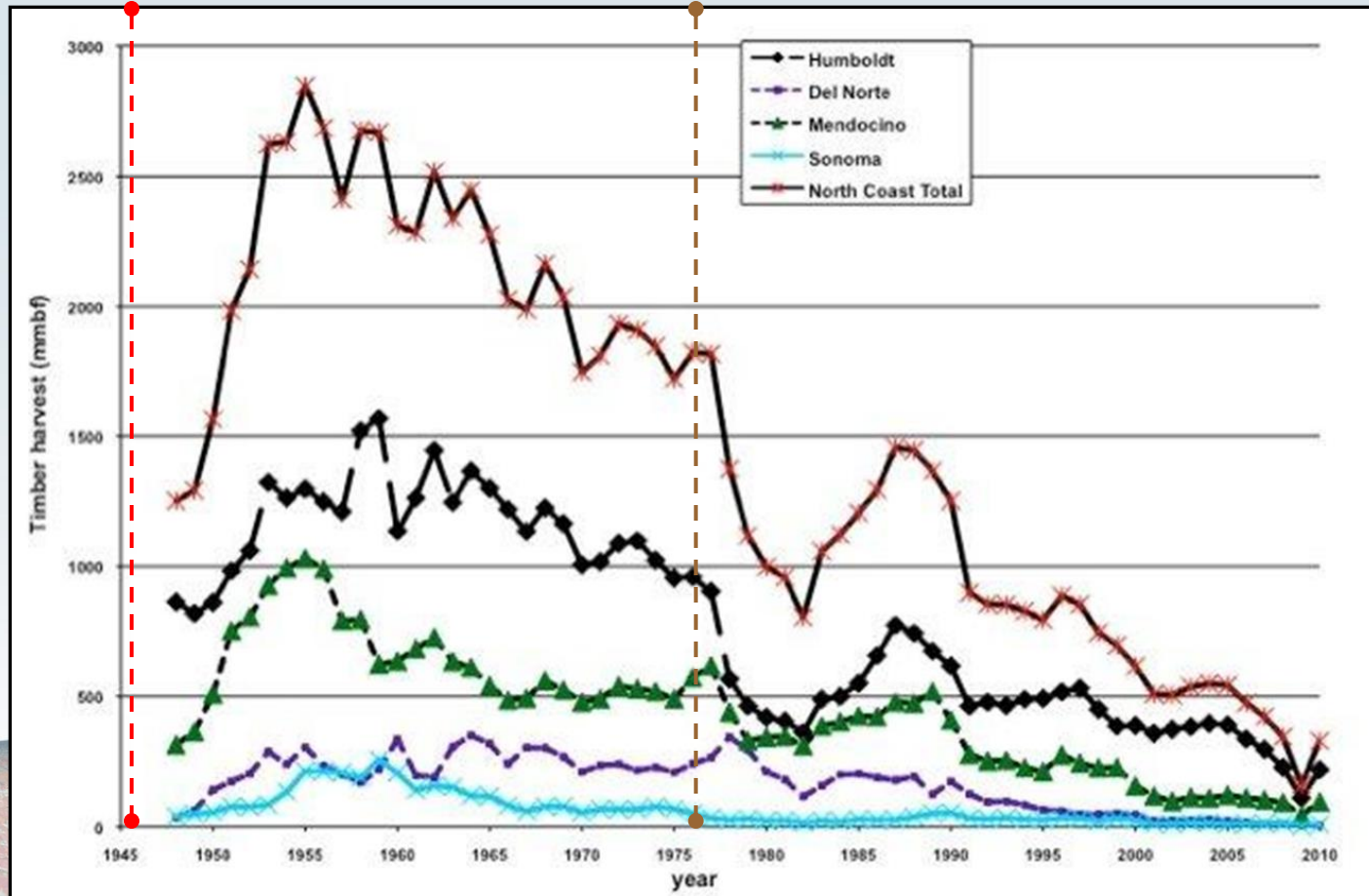
Phase 3: Post WW-II Logging (1945 – 1970s)



Phase 3: Post WW-II Logging (1945 - 2010)

**Ad Valorem Timber
Property Tax
1945**

**Forest Practice Rules
Sustained Yield Tax
1976**



Phase 4: Stream Clearing (1970-80s)

STREAM OBSTRUCTION REMOVAL GUIDELINES



AF
SF



Phase 5 (Present):

Awaiting riparian forests to mature and natural recruitment process to restart....and waiting....and....waiting....



Why wood?

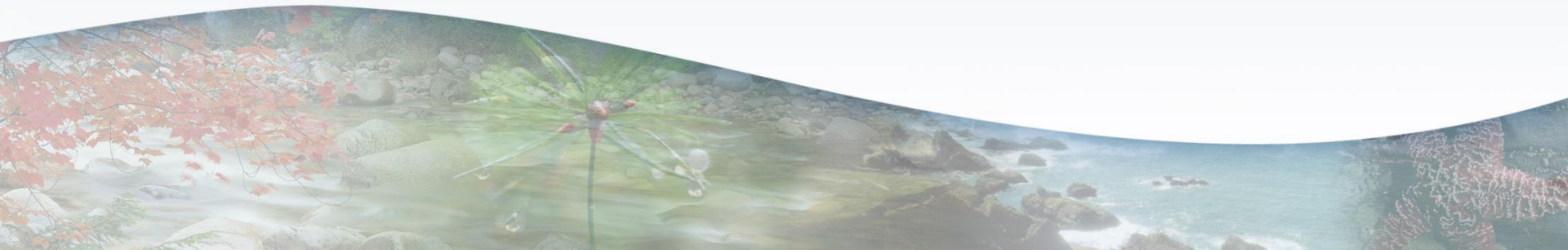
- Natural watershed product
- Improves habitat complexity
- Sorts spawning gravels
- Mobilizes bedload
- Scours pools
- Provides year-round shelter
- Promotes water availability
- Improves temperatures
- Cost effective measure



“The Coral Reefs of the River”



Part II: Wood for Salmon Working Group



Wood for Salmon Working Group

State and Federal Agencies

- NOAA / NMFS
- CAL FIRE
- California Department of Fish and Wildlife
- North Coast Regional Water Quality Control Board
- California Geological Survey
- Army Corps of Engineers

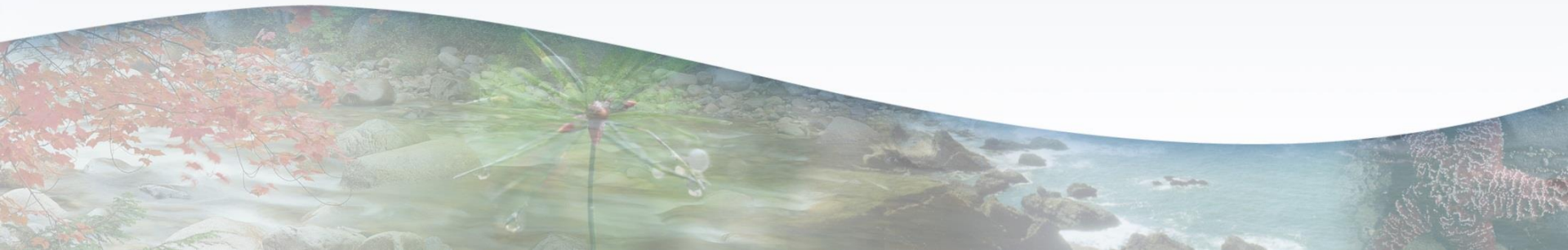
NGOs, Non-Profits, Consultants, Stakeholders

-
- *Alnus* Ecological
 - Campbell Global Incorporated
 - The Nature Conservancy
 - Trout Unlimited
 - Sustainable Conservation
 - University California Cooperative Extension
 - Natural Resources Conservation Service
 - Mendocino County Resource Conservation District
 - Sonoma Resource Conservation District
 - Sonoma County Water Agency

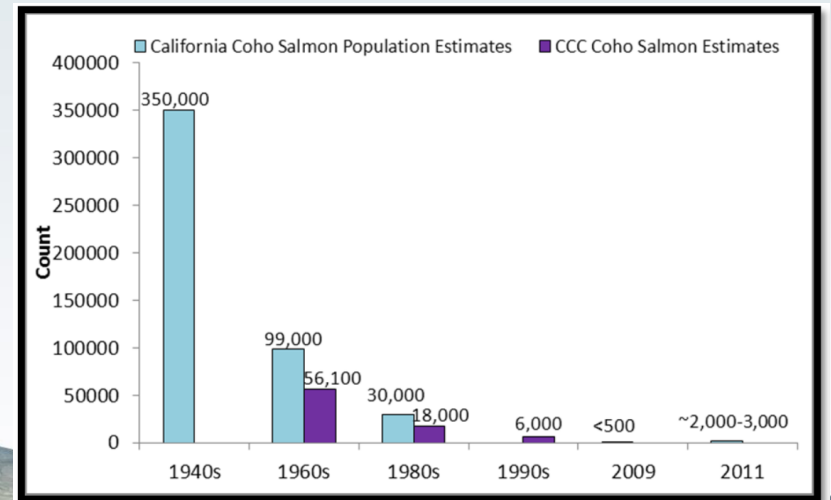
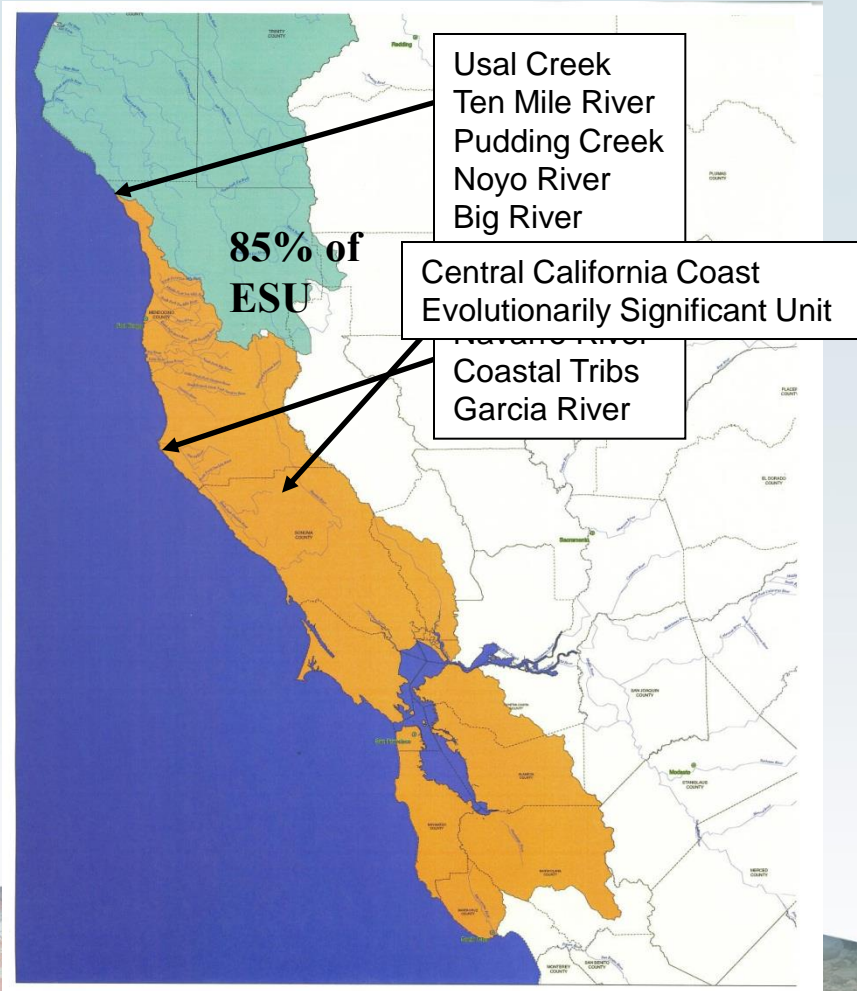


Mission Statement

- **Promote recovery actions** described in state and federal salmonid recovery plans by accelerating the pace and scale of instream restoration projects, *especially large wood enhancement.*



Coho Salmon Status




Recovery Plan Strategies: ↑ LWM

STATE OF CALIFORNIA RESOURCES AGENCY DEPARTMENT OF FISH AND GAME

Recovery Strategy for California Coho Salmon


Report to the California Fish and Game Commission

PREPARED BY
The California Department of Fish and Game



Species Recovery Strategy 2004-1
FEBRUARY 2004

Science, Service, Stewardship




NOAA
FISHERIES
SERVICE

Volume I: RECOVERY PLAN

for the Evolutionarily Significant Unit
of Central California Coast Coho Salmon

Photo courtesy: Margan Bond, SWFSC



RECOVERY PLAN

NORTH CENTRAL CALIFORNIA COAST RECOVERY DOMAIN
CALIFORNIA COASTAL CHINOOK SALMON
NORTHERN CALIFORNIA STEELHEAD
CENTRAL CALIFORNIA COAST STEELHEAD



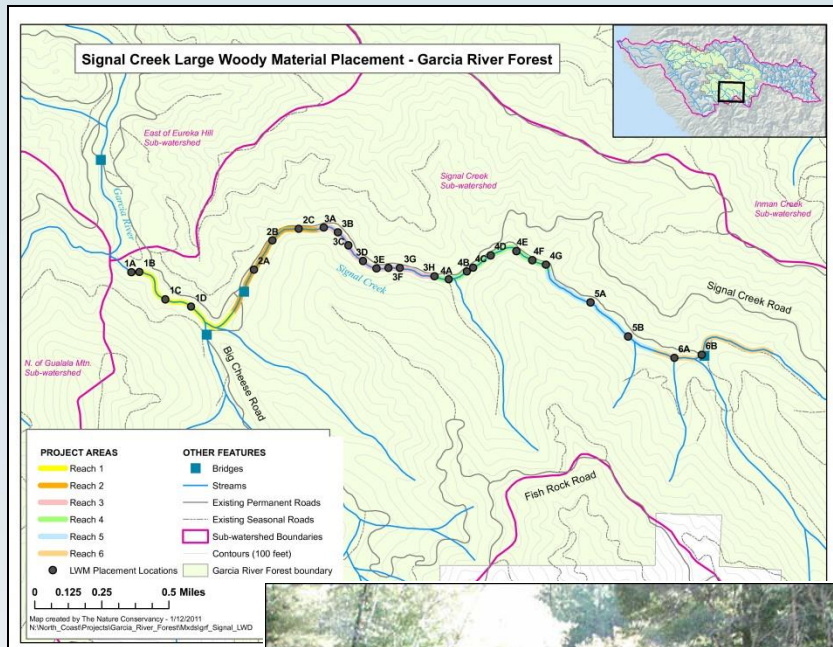


Photo Courtesy of Cathy Myers, Dos Rios, Eel River California Coastal Chinook Salmon

CO-MANAGER REVIEW DRAFT
Version: May 19, 2014
National Marine Fisheries Service
West Coast Region
Santa Rosa, California



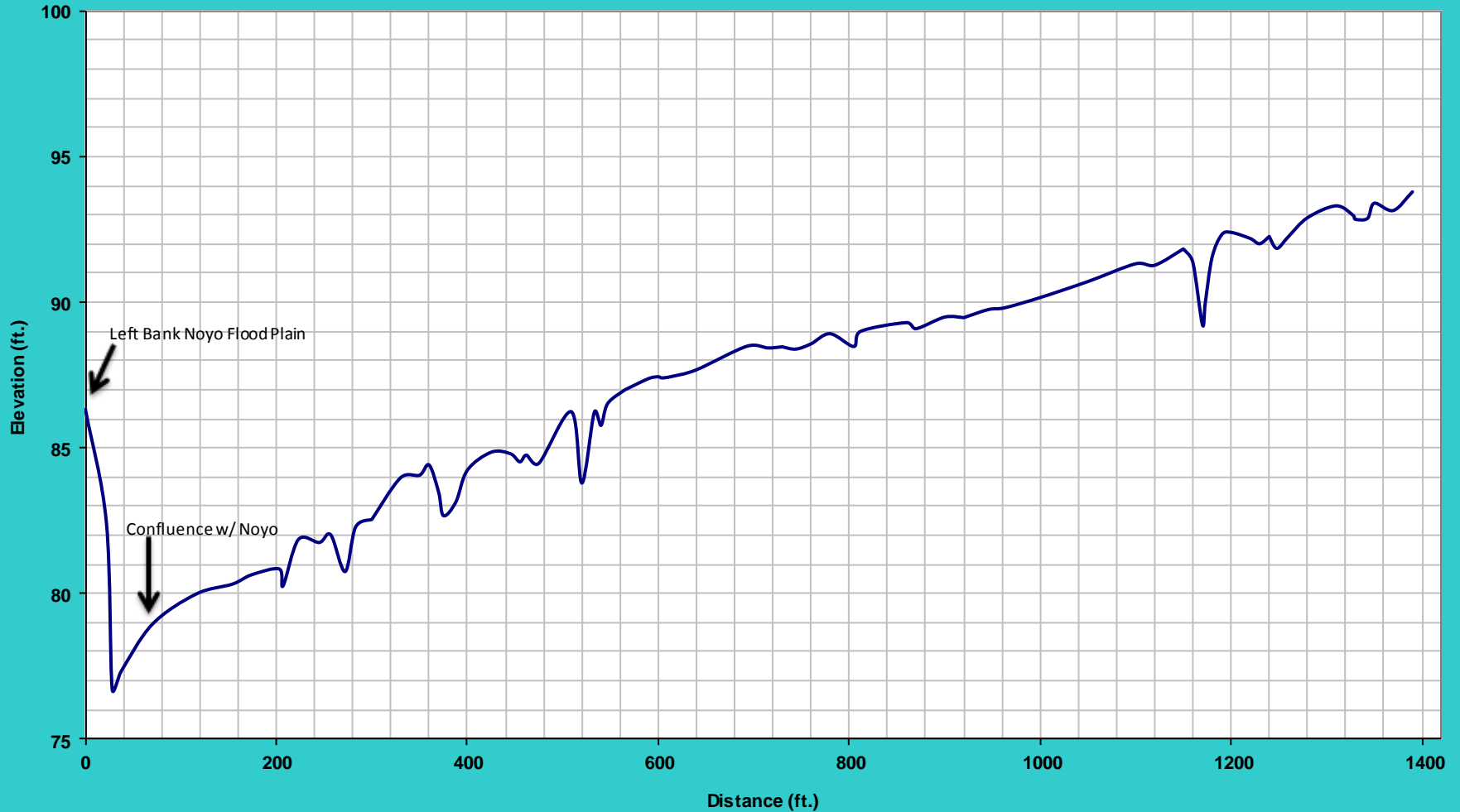
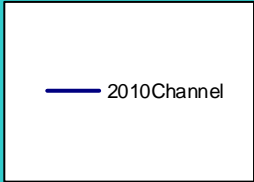
New Effective LWM Techniques



- **Accelerated Recruitment**
 - Streamside or Upslope Wood
 - Directional falling
 - Wood wedging or Unanchored
 - Cost Effective
- **Practitioners:**
 - Chris Blencowe, Ken Smith
 - Campbell Global Inc.
 - Gualala Redwoods Inc.
 - The Nature Conservancy
 - The Conservation Fund
 - Trout Unlimited
 - Mendocino Redwood Co.

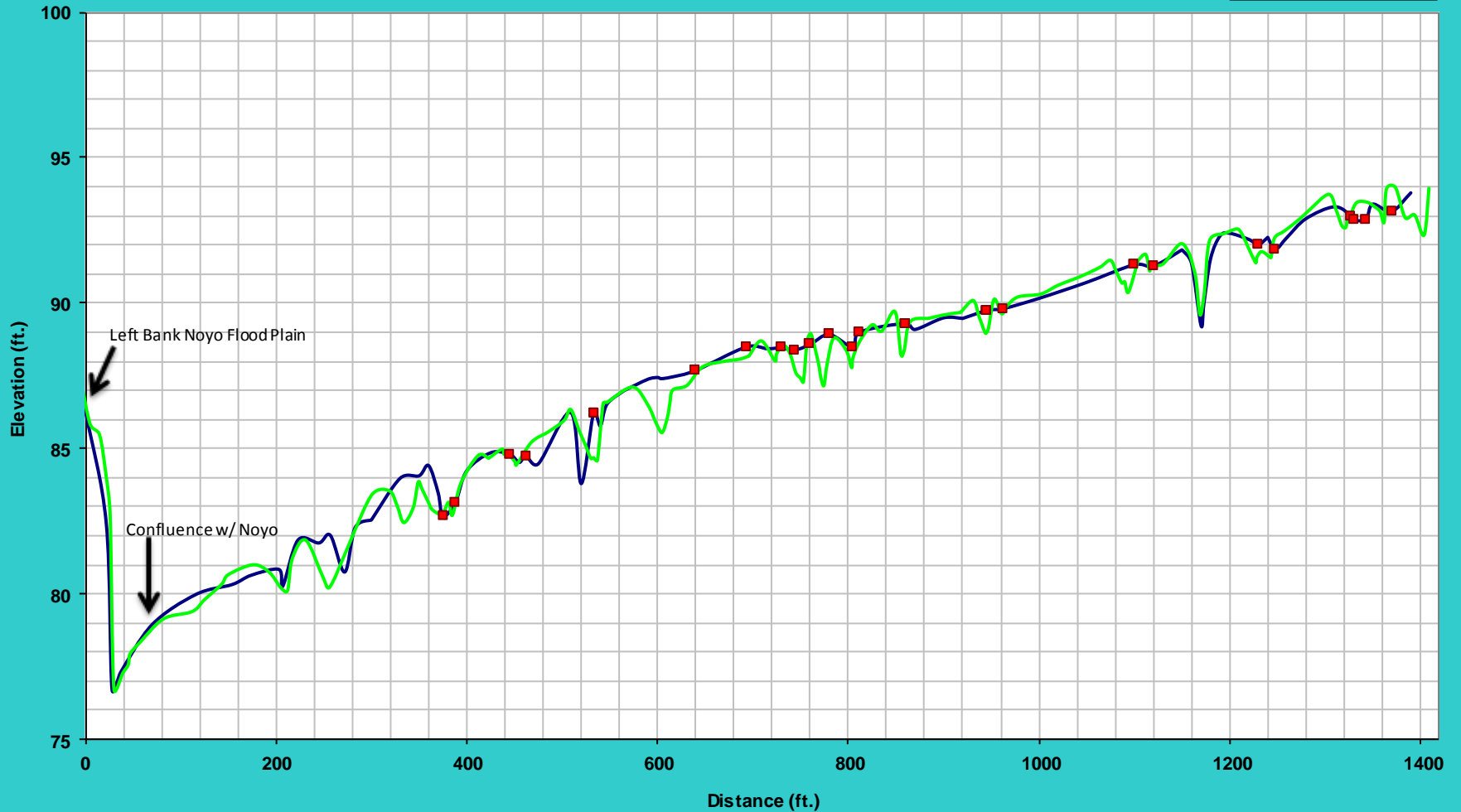
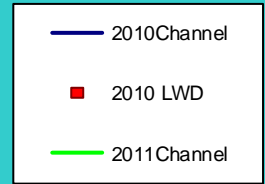
Longitudinal Profile of Lower 1400' Project Reach in Kass Creek (Noyo River) (2010-2012) (FRGP, NOAA/TU, SRA)

Kass Creek Longitudinal Profile - 11/2/2010 to 7/18/12
J. Hvozda, D. Kyle, C. Blencowe,



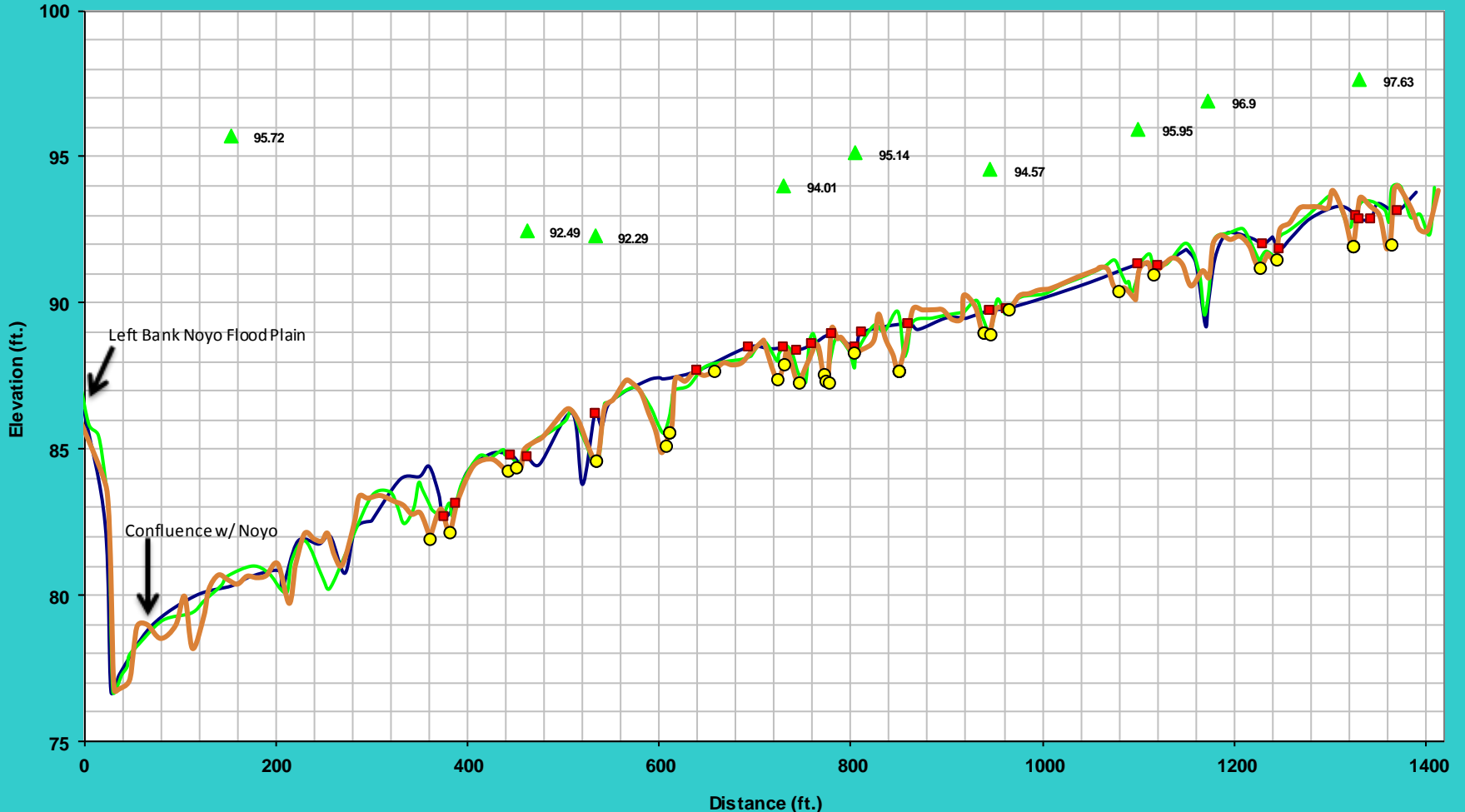
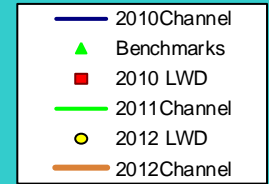
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Kass Creek Longitudinal Profile - 11/2/2010 to 7/18/12
J. Hvozda, D. Kyle, C. Blencowe,



Adding roughness elements to streams in the Redwood Region may help reconnect these channels to floodplains, an important factor in over-winter survival for juvenile coho and steelhead

Tales from the Creek

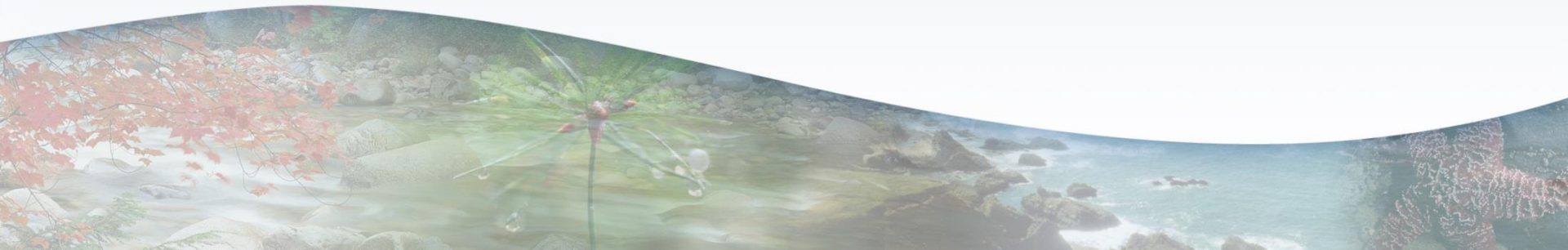


How can we promote *voluntary* LWM projects? What's stopping us?

- Complex Permitting
- Guidance Lacking
- Lots of Paperwork
- Costly Fees
- Expensive

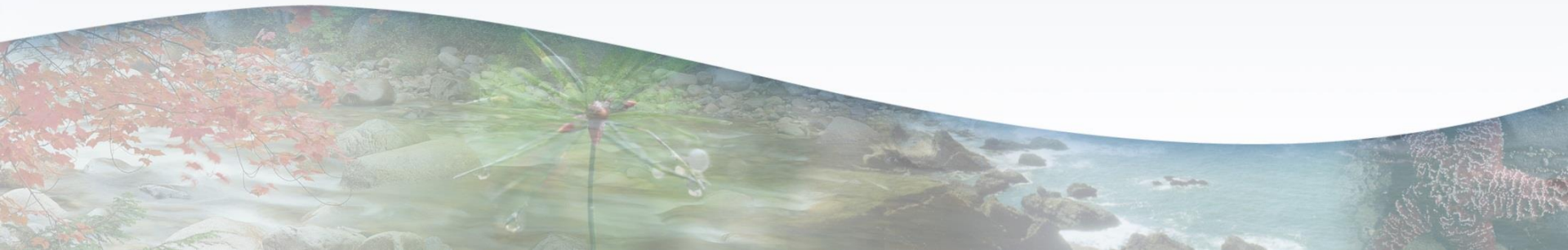


Part III: Promoting Restoration



WFSWG Objectives

1. Understand the Permitting Process
2. Conduct Outreach and Education
3. Develop Guidance and Tools
4. Improve, Align and Consolidate Permitting
5. Support New Restoration Pathways
6. Secure Funding Assistance



Understanding the Permitting Process



Federal Regulations:

1. **Army Corps of Engineers**
 - (a) Section 404 of the Clean Water Act
 - (b) Section 10 of the Rivers and Harbors Act
2. **National Marine Fisheries Service / NOAA**
 - (a) Incidental Take of Federally Listed Salmonids
3. **U.S. Fish and Wildlife Service**
 - (a) Incidental Take of other Federally Listed Species
4. **National Historic Preservation Act**

State Regulations:

1. **California Department of Fish and Wildlife**
 - (a) Lake and Streambed Alteration Agreement
 - (b) California Endangered Species Act
 - (c) Coho HELP Act
2. **State and Regional Water Boards**
 - (a) Section 401 of the Clean Water Act
 - (b) Waste Discharge Requirement Permits
3. **State Coastal Commission**
 - (a) Coastal Development Permit
4. **California Environmental Quality Act (CEQA)**

Guidance and Tools



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Wood for Salmon

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Welcome to the Wood for Salmon Working Group workspace!



The Wood for Salmon Working Group developed this workspace to guide restoration practitioners through the permitting process for large wood augmentation projects and to promote habitat improvement for native salmon and trout. The Wood for Salmon Working Group is an informal group of California state, county, federal agency staff, representatives from environmental non-profits, and private landowners and consultants. This group came together to develop a clear understanding of the regulatory permitting process for salmon habitat restoration projects in the United States National Marine Fisheries Service's Central California Coast Evolutionarily Significant Unit of coho salmon (*Oncorhynchus kisutch*) involving wood placement, and to identify potential mechanisms to simplify the process and incentivize implementation of more projects.

Organizations involved include: Alnus Ecological Consulting, California Department of Fish and Game, California Department of Forestry and Fire Protection, California Geologic Survey, Campbell Timberland Management, Mendocino County Resource Conservation District, National Marine Fisheries Service, National Resource Conservation Service, North Coast Regional Water Quality Control Board, Sustainable Conservation, The Nature Conservancy, United States Army Corps of Engineers, and University of California Cooperative Extension.

[Workspace contents](#)

- [What are wood restoration projects and how do they benefit salmon?](#)
- [Reports/Publications/Tools](#)
- [Presentations/Videos](#)
- [References](#)

For more information, please contact Lisa Hulette or Jennifer Carah, The Nature Conservancy (lhulette@tnc.org, jcarah@tnc.org), Bill Snyder, California Department of Forestry and Fire Protection (Bill.Snyder@fire.ca.gov), or Jonathan Warmerdam, North Coast Regional Water Quality Control Board (JWarmerdam@waterboards.ca.gov).

Improving Permitting

For Department Use Only				
Date Received	Amount Received	Amount Due	Date Complete	Applicant No.

Complete EACH field following the instructions provided and submit this form with all enclosures and the required fee. The Department will return any application that does not include the information set forth in the instructions or the required fee. The instructions are available at [link to instructions](#).

1. Applicant Proposing Project

Name			
Business/Agency/Organization			
Street Address			
City, State, Zip			
Telephone	Ext.	Fax	
Email			

2. Contact Person (Complete only if different from applicant)

Name			
Business/Agency/Organization			
Street Address			
City, State, Zip			
Telephone	Ext.	Fax	
Email			

3. Property Owner (Complete only if different from applicant)

Name			
Business/Agency/Organization			
Street Address			
City, State, Zip			
Telephone	Ext.	Fax	
Email			

4. Project Name and Term

a. Project Name: _____			
b. Term (must be 5 years or less): Beginning (year): _____ Ending (year): _____			
c. Seasonal Work Period	Start date (mm/dd/yyyy)	End date (mm/dd/yyyy)	Number of work days
Year 1	_____	_____	_____
Year 2	_____	_____	_____
Year 3	_____	_____	_____
Year 4	_____	_____	_____
Year 5	_____	_____	_____

5. Fees

Project Cost	\$ _____	Project Fee	\$ _____
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Provided recommendations to the Director of CDFW towards improving 1600 permitting:

- I. Reduce fees for restoration
- II. Expand the scale of allowable projects under a single permit
- III. Develop new permitting mechanism for restoration

Improving Permitting

State Water Resources

Division of Water Quality, 1001 I Street, 15th floor Sacramento
 Mailing Address: P.O. Box 100 • Sacramento
 FAX (916) 341-5463 • Internet Address: <http://www.waterboards.ca.gov>

NOTICE OF INTENT TO COMPLY WITH THE GENERAL WATER QUALITY CERTIFICATION ORDER FOR SMALL HABITAT RESTORATION

ORDER NUMBER: SB12006GN

Regional Water Quality Control Board (Regional Water Board) (State Water Board) - FOR AGENCY TRACKING USE ONLY		
WDID:	Regional Board Office:	Date NOI Received:

I. NOTICE OF INTENT STATUS

MARK ONLY ONE ITEM: New Application Change Coho HELP Act Project (Attachment)

II. PROJECT and APPLICANT INFORMATION

Project Title:	Click here to enter text.
Applicant Name:	Click here to enter text.
Business/Agency:	Click here to enter text.
Street Address:	Click here to enter text.
City, County, State, Zip:	Click here to enter text.
Telephone:	Click here to enter text.
E-mail:	Click here to enter text.

III. PROPERTY OWNER

Name:	Click here to enter text.
Street Address:	Click here to enter text.
City, County, State, Zip:	Click here to enter text.
Telephone:	Click here to enter text.
E-mail:	Click here to enter text.

State Water Resources

1001 I Street • Sacramento, California 95814 • (916) 341-5463
 Mailing Address: P.O. Box 100 • Sacramento, California 95812-0100
 FAX (916) 341-5463 • Internet Address: <http://www.waterboards.ca.gov>

GUIDANCE DOCUMENT TO COMPLY WITH THE GENERAL WATER QUALITY CERTIFICATION ORDER FOR SMALL HABITAT RESTORATION

ORDER NUMBER: SB12006GN

INTRODUCTION:

The purpose of this guidance document is to assist project proponents in conducting small habitat restoration projects in conformance with the State Water Resources Control Board (SWRCB) *Waste Discharge Requirements and Water Quality Certification Order* (hereinafter referred to as the *Small Habitat Restoration Order*).

Project proponents seeking coverage under the *Small Habitat Restoration Order* must submit a *Notice of Intent* (NOI), and receive project approval by the SWRCB prior to initiation of activities that may affect "Waters of the State". Project proponents are required to submit a *Notice of Termination* (NOT) upon completion of the project.

CONTENTS:

- Part 1: Overview of the SHRP – Frequently Asked Questions
- Part 2: Enrolling projects in the SHRP.....
- Part 3: Instructions for completing the Notice of Intent
- Part 4: Instruction for completing a Notice of Termination

¹ Examples of small habitat restoration projects that may be eligible include: (a) stream bank stabilization with native plant species; (b) wetland restoration; (c) stream bank revegetation; (d) stream bank stabilization with rock armoring; (e) large wood augmentation; (f) stream bank stabilization with rock armoring, the primary purpose of which is to improve habitat, remove sediment, and restore stream channel morphology; (g) stream bank stabilization with rock armoring, the primary purpose of which is to improve habitat, remove sediment, and restore stream channel morphology; (h) stream bank stabilization with rock armoring, the primary purpose of which is to improve habitat, remove sediment, and restore stream channel morphology; (i) stream bank stabilization with rock armoring, the primary purpose of which is to improve habitat, remove sediment, and restore stream channel morphology.

² "Waters of the State" are defined as any surface water or groundwater, including but not limited to groundwater, which may be dry during much of the year, have been or are in the process of being used for riparian habitat, or are on public or private land.

State Water Resources Control Board

Division of Water Quality, 1001 I Street, 15th floor Sacramento, California 95814 • (916) 341-5465
 Mailing Address: P.O. Box 100 • Sacramento, California • 95812-0100
 FAX (916) 341-5463 • Internet Address: <http://www.waterboards.ca.gov>

NOTICE OF TERMINATION TO REQUEST PROJECT UNENROLLMENT UNDER THE TERMS OF THE GENERAL WATER QUALITY CERTIFICATION ORDER FOR SMALL HABITAT RESTORATION PROJECTS

ORDER NUMBER: SB12006GN

Regional Water Quality Control Board (Regional Water Board) and State Water Resources Control Board (State Water Board) - FOR AGENCY TRACKING USE ONLY			
WDID:	Regional Board Office:	Date NOI Received:	Check#:

I. PROJECT STATUS

MARK ONLY ONE ITEM: Project Complete. Monitoring and Reporting Plan Attached. Project not complete. Unenrollment Request Attached.

II. PROJECT and APPLICANT INFORMATION

Project Title and WDID #:	Click here to enter text.		
Applicant Name:	Click here to enter text.		
Street Address:	Click here to enter text.		
City, County, State, Zip:	Click here to enter text.		
Telephone:	Click here to enter text.		
E-mail:	Click here to enter text.	Fax:	Click here to enter text.

III. SIGNATURE / CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a *Small Habitat Restoration Permit* approved by the State Water Resources Control Board or Regional Water Quality Control Board. The information submitted with this Notice of Termination request is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Applicant Signature	Date
Printed Name	

Support New Restoration Pathways

Mendocino County
Permit Coordination Program

CAL FIRE
ASP - Section V

CDFW
Coho HELP Act



MENDOCINO COUNTY RESOURCE CONSERVATION
MITIGATED NEGATIVE DECLARATION/
INITIAL STUDY
FOR
MENDOCINO COUNTY PERMIT COORDINATION PROGRAM

May 4, 2012

Prepared for:
Mendocino County Resource Conservation District
206 Mason Street, Suite F
Ukiah, CA 95482
(707) 462-3664

Prepared by:
Prunuske Chatham, Inc.
400 Morris Street, Suite G
Sebastopol, CA 95472
(707) 824-4600

This Report Has Been Prepared Pursuant to the
California Environmental Quality Act of 1970

State of California – Department of Fish and Wildlife
COHO HELP ACT PROJECT REQUEST
DFW 739 (New 1/13) Page 1

Date Received	Amount Received	For Department Use Only		Applicant No.
		Amount Due	Date Complete	

Complete EACH field following the instructions provided and submit this form with all enclosures and the required fee. The Department will return any application that does not include the information set forth in instructions or the required fee. The instructions are available at [link to instructions](#).

1. Applicant Proposing Project

Name _____
 Business/Agency/Organization _____
 Street Address _____
 City, State, Zip _____
 Telephone _____ Ext. _____ Fax _____
 Email _____

2. Contact Person (Complete only if different from applicant)

Name _____
 Business/Agency/Organization _____
 Street Address _____
 City, State, Zip _____
 Telephone _____ Ext. _____ Fax _____
 Email _____

3. Property Owner (Complete only if different from applicant)

Name _____
 Business/Agency/Organization _____
 Street Address _____
 City, State, Zip _____
 Telephone _____ Ext. _____ Fax _____
 Email _____

4. Project Name and Term

a. Project Name: _____

b. Term (must be 5 years or less): Beginning (year): _____ Ending (year): _____

c. Seasonal Work Period	Start date (mm/dd/yyyy)	End date (mm/dd/yyyy)	Number of work days
Year 1	_____	_____	_____
Year 2	_____	_____	_____
Year 3	_____	_____	_____
Year 4	_____	_____	_____
Year 5	_____	_____	_____

5. Fees

Project Cost	\$ _____	Project Fee	\$ _____
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Site-Specific Riparian Zone Management:

Section V Guidance



Anadromous Salmonid Protection Rule Section V

Technical Advisory Committee (VTAC)

December 2012

Sacramento, California



Support New Restoration Pathways

Site-Specific Riparian Zone Management:

Section V Guidance



Anadromous Salmonid Protection Rule Section V

Technical Advisory Committee (VTAC)

December 2012

Sacramento, California



- Mill Smith THP
- Campbell Global
- Ten Mile River
- First LWM permitted through a THP
- Underway Today!

Restoration Opportunity in Coastal Anadromy Zone

Site-Specific Riparian Zone Management:

Section V Guidance



Anadromous Salmonid Protection Rule Section V

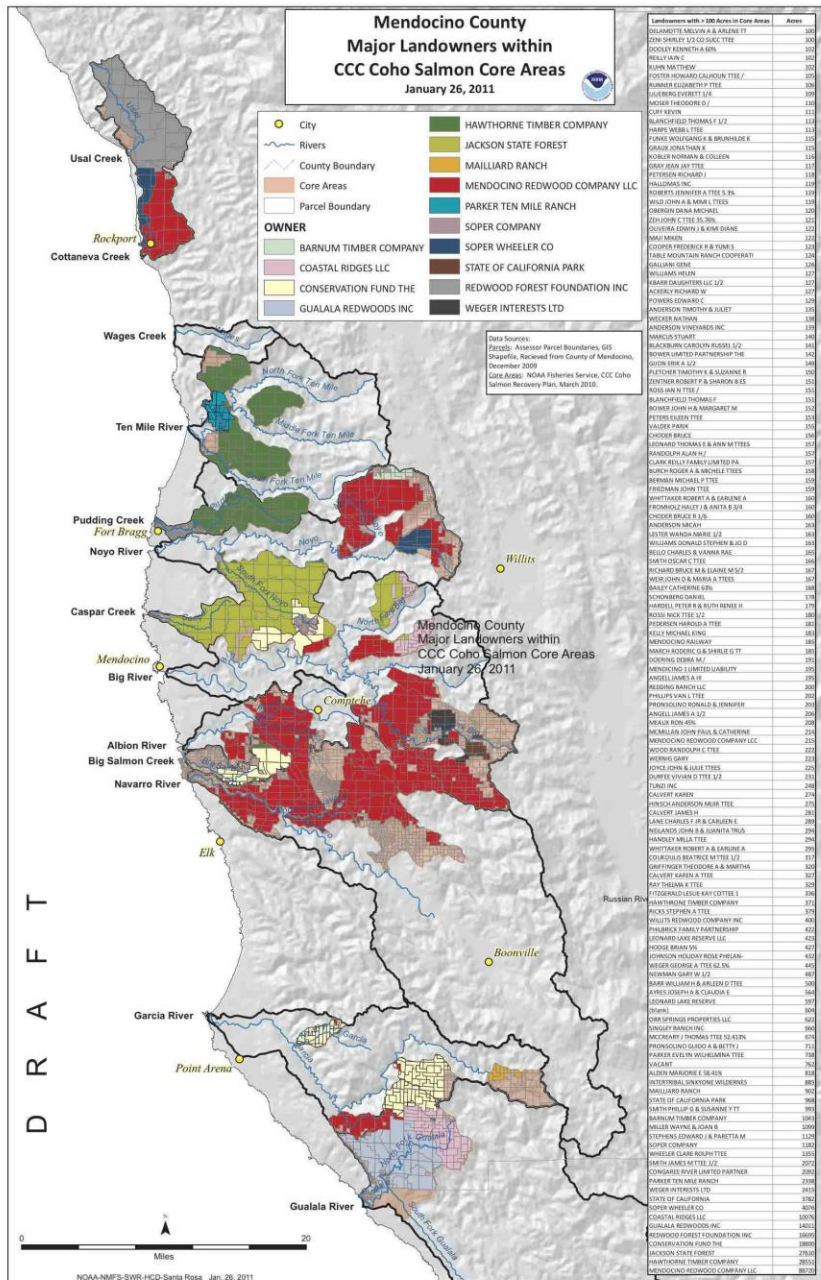
Technical Advisory Committee (VTAC)

December 2012

Sacramento, California



- Incorporate LWM assessments into harvest planning process.
- Section 916.4 (a)(2) requires examination of Class I habitat and **restoration opportunities**.
- Utilize recovery plan targets.
- Fund LWM restoration through Timber Reform Tax.
- Addendum 2 revision?



Big Holdings = Big Opportunities

In Mendocino County, the 7 largest timberland owners manage 73% of the properties in Mendocino County's CCC ESU Coho Core Areas.

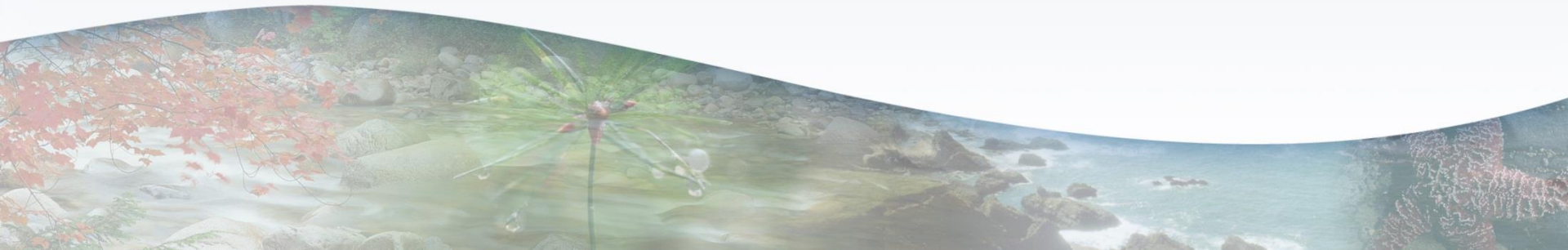
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Conclusions

- Coastal anadromy zone is deficient in wood and salmonids are in jeopardy.
- Reintroduction of wood is a critical near-term recovery action.
- New LWM introduction techniques are proving successful and cost-effective.
- THP planning process provides a significant restoration opportunity.
- Wood for Salmon Working Group is helping improve the process.



Robin Loznak Photography



Thank you



Robin Loznak Photography

Jonathan Warmerdam, NCRWQCB

Telephone: (707) 576-2468

Jonathan.Warmerdam@waterboards.ca.gov

