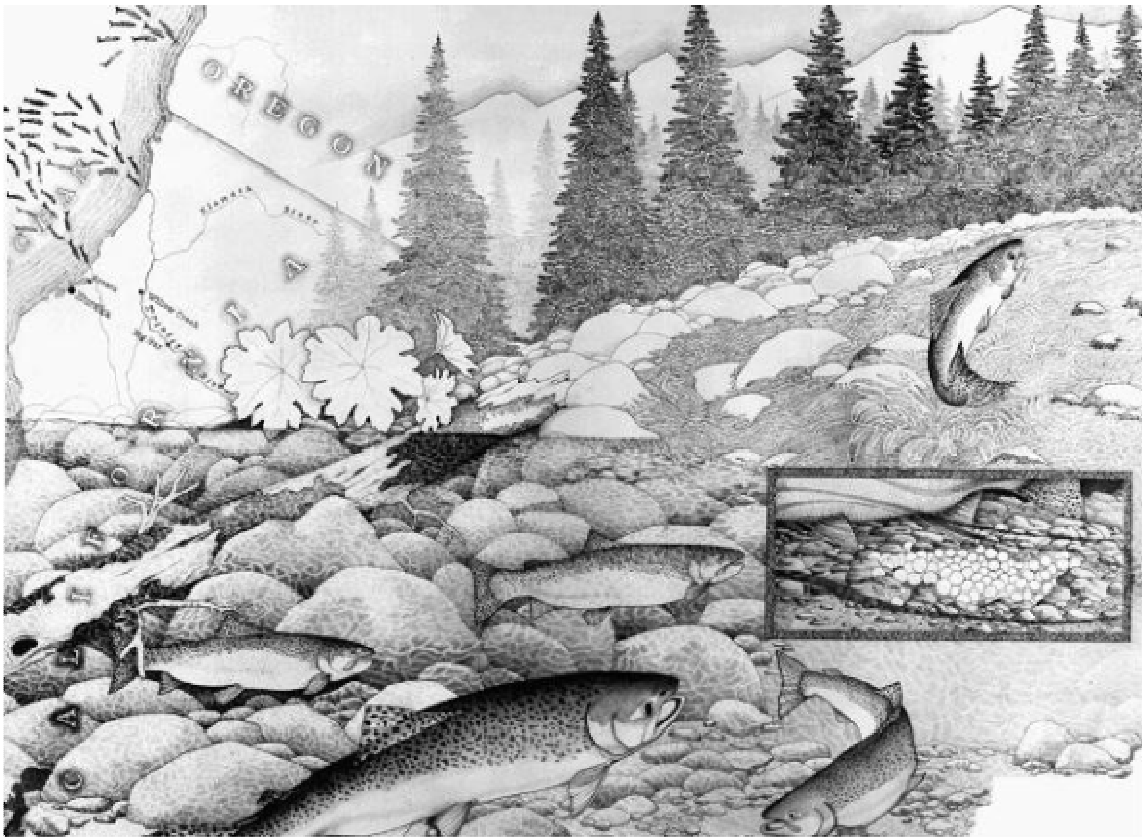


Five Counties Salmonid Conservation Program (5C) Final Report

Contract P1010319

CA Department of Fish and Wildlife (CDFW),
Fisheries Restoration Grant Program

June 2011 – March 2013



Northwest CA RC&D Council
Five Counties Salmonid Conservation Program
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1. INTRODUCTION & BACKGROUND

Del Norte, Humboldt, Mendocino, Siskiyou, and Trinity Counties formed the Five Counties Salmonid Conservation Program (5C) in June 1997, in response to the listing of the coho salmon as a federally threatened species. Until January of 2009, the Program was housed in Trinity County as a special division of the Planning Department. The 5C Program then transitioned to the Northwest California Resource Conservation & Development Council, a 501 (c)3 non-profit group. The 5C Program goals and activities have remained consistent under the Council.

The Program region encompasses areas within the five counties, which includes the following major watersheds:

- Albion River
- Bear River
- Big River
- Black Butte River
- Eel River
- Elk River
- Garcia River
- Klamath River
- Knopki River
- Little River
- Mad River
- Mattole River
- Navarro River
- Noyo River
- New River
- Salmon River
- Salt River
- Scott River
- Shasta River
- Smith River
- Ten Mile River
- Trinity River
- Van Duzen River

The 5C region excludes the Russian and Gualala River systems.

Refer to Figure 1 below for a map of the 5C region. The 5C Program headquarters are located in Weaverville, Trinity County. The geospatial location is Lat/Long (Decimal Degrees): 40.73554014 N/122.9405464 W. The Program's objectives are to use education, incentives and restoration projects to maintain, protect and enhance water quality and fisheries habitat. This is done by changing the way people interact with their environment, facilitating designs, developing grant fund sources, assisting counties with permit and environmental analysis needs, construction supervision of habitat restoration projects, inventory of road drainage patterns to identify opportunities to restore slope hydrology and reduce erosion, replace high priority fish migration barriers and/or to enhance floodplain and riparian functions using bio-engineering and other techniques.

5C's efforts have been guided by assessments of county policies and their effect on salmonid populations (Harris et al 1998; Harris, 2008, Harris, 2011), inventories of road fish passage barriers (Ross Taylor, 2000-2004), road sediment source inventories (various dates), and water resource planning reports (Lancaster and Pérez, 2009).

The 2008 and 2011 reassessments of county policy and practices found that Counties made significant strides in implementing the 1998 recommendations, including the hiring of environmental specialists and implementing restoration projects. The reassessment process revealed a gap between the establishment of riparian setbacks and management efforts to maintain, protect, or enhance riparian buffer areas. Counties' responded by establishing riparian buffers where discretionary permits were required (subdivisions, use permits, etc). The adoption of a roads manual with BMPs and significant training efforts related to maintenance and protection of water quality/fisheries habitat were undertaken as well.

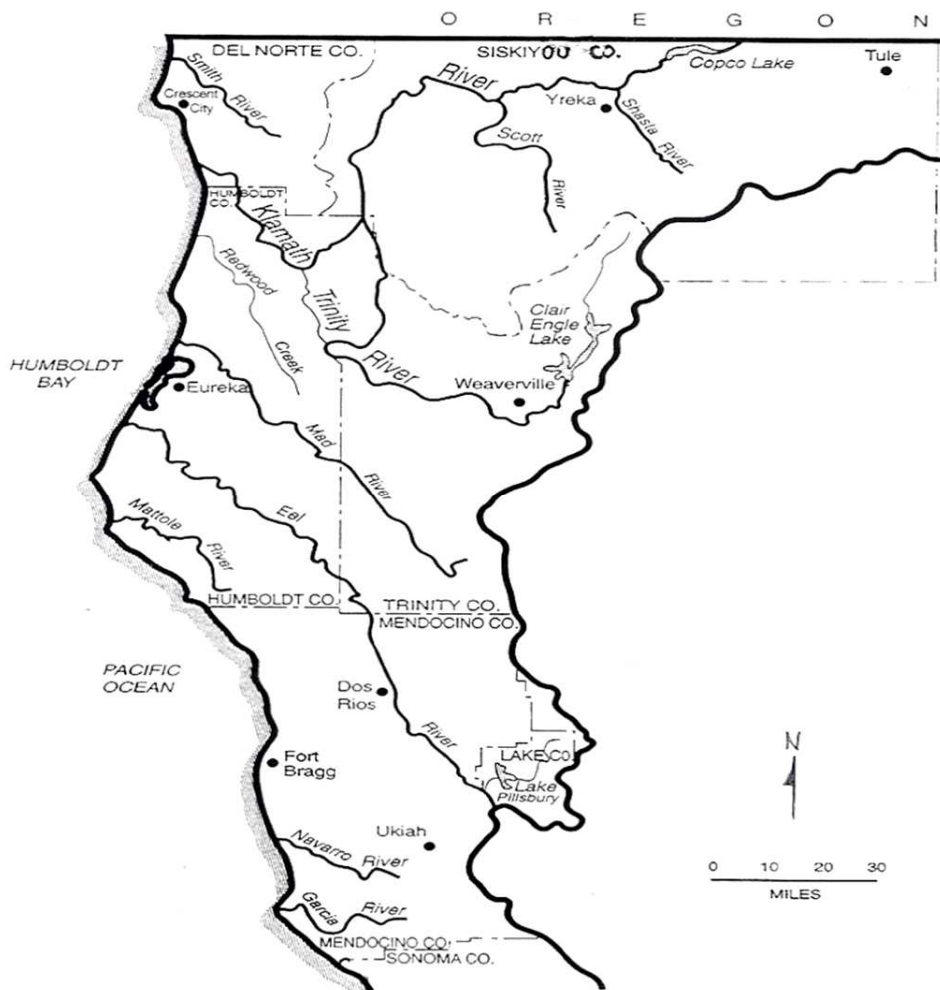


Figure 1: Five Counties Program Area

The 5C Program developed new funding partnerships and agreements totaling \$426,165 to implement restoration projects, facilitate education efforts, develop project designs, facilitate permitting and conduct monitoring. These partnerships were made possible by this FRGP Program Grant support. Grants awarded and signed during the period included:

- Trinity River Restoration Program of the U.S. Bureau of Reclamation (\$216,516) to:
 - Install habitat elements (large wood and grade structures) in East Weaver Creek (tributary to Trinity River) in 2013;
 - Assess design options to modify or remove the concrete channel of Sidney Gulch (tributary of Weaver Creek, Trinity River) within the U.S. Forest Service compound in 2013;
 - Assess design options to improve migration into the mouth and first 0.5 miles of Conner Creek (tributary to Trinity River) in 2013;
- U.S. Forest Service RAC (\$180,000) to:

- Supplemental funding to complete the removal of a migration barrier at Red Hill Road on Conner Creek in Trinity County). This project was completed in August 2012.
- Complete NEPA for 4 road surfacing projects (on tributaries to Smith River) by the Del Norte County Roads Division to be completed in 2013
- Complete NEPA for a culvert replacement if an unnamed tributary to Griffin Creek (tributary to Smith River) to be constructed by the Del Norte County Roads Division in 2013. The project will prevent 6,800 yd³ of sediment from road failure which would impact downstream coho and steelhead habitat.
- U.S. Fish and Wildlife Service- National Fish Habitat Action Plan (\$30,000) supplemental funding to complete the removal of a migration barrier at Red Hill Road on Conner Creek in Trinity County). This project was completed in August 2012.

Several additional proposals were submitted and tentatively approved with agreements pending including:

- Trinity River Restoration Program of the U.S. Bureau of Reclamation (\$226,837) to:
 - Realign a stream crossing on Schofield Gulch and restore stream banks to reduce ~3,000 yd³ of sediment delivery to East Weaver Creek in 2014
 - Implement road sediment reduction on private roads in the Browns Creek watershed (tributary to the Trinity River)
- CA State Water Resources Control Board & North Coast Integrated Regional Water Management Plan (\$135,015) to:
 - Install fish screens and water conservation measures on the Hansen Ditch to return between 0.5-0.75 cfs to East Weaver Creek during critical low flow summer conditions;
 - Installation of roof top rainwater collection systems in Trinity County, water conservation community education and outreach programs on water conservation;
 - Replacement of the Weaverville Community Services District's Timber Ridge 25,000 gallon redwood water tank, which leaks, with two new 12,500 gallon tanks;

Under this contract, 5C staff consisted of Director Mark Lancaster, Manager Sandra Pérez, Project Coordinator David Colbeck, Project Coordinator Claire Lindstrand (April 2012), Natural Resources Technician Carolyn Rourke, Accounts Clerk Susan Rhodes, and Council Office Manager Judy Carter. Intern Field Aides and Technicians were hired and worked on a variety of projects and programs as documented throughout the Final Report. These interns were incredibly valuable and furthered conservation efforts and achievements throughout the Five County region.

Although the contract effective date is shown as June 1, 2011, minimal expenses were incurred in the summer of 2011. The bulk of 5C Program activities funded under this contract were for the time period of September 2011 to March 2013. The activities completed as part of this contract are described in this final report according to the tasks outlined in the scope of work. Asterisks * in the text below denote work completed with

matching funds. A summary of the project and costs associated with this contract are found at the end of this report. An electronic copy of this report and all attachments are included on a CD accompanying this report as Attachment A.

2. 5C PROGRAM MEETINGS (TASK 1)

Northwest CA Resource Conservation and Development Council, 5C Executive Committee and 5C Board of Supervisor Meetings:

The 5C staff reports to and takes direction from both the Northwest CA Resource Conservation and Development Council (RC&D) and the 5C Executive Committee. The Program also reports to the full Boards of Supervisors of the MOU member counties (Del Norte, Humboldt, Mendocino, Siskiyou, and Trinity) regularly.

The RC&D Council has up to 15 Board members from Del Norte, Humboldt and Trinity Counties, while the Executive Committee is comprised of the Council President and one Board of Supervisor from each MOU Member County.

The Council conducted 8 Board meetings during the reporting period. During these meetings, the direction of 5C work was discussed, budget and fiscal matters reviewed, agreements for services were ratified, and personnel policies were addressed or modified by the Council as deemed necessary. The Council adopted a Memorandum of Mutual Understanding becoming a North Coast Integrated Regional Water Management Plan partner in September 2012. Copies of RC&D Council meeting minutes are included in Attachment A. The Council Office Manager oversees Council meetings and manages the fiscal accounting. The 5C Director and Council Office Manager report to the Council Treasurer and President regularly between Council meetings.

The Executive Committee met two times: July 19th, 2012 in Yreka and October 18th, 2012 in Eureka. While no minutes were kept during these meetings, topics discussed included future 5C direction, budget constraints, role of the 5C in working with regulatory agencies, and balancing Council and Counties conservation efforts. Lancaster and/or Pérez met individually with 5C Executive Committee members on numerous occasions.

Lancaster presented information to the Trinity County Board of Supervisor on May 1, 2012 (Conner Creek Fish Passage agreement with County); and October 2 & 3, 2012 (Issues included Trinity River flows and water management discussions and Board appointed natural resource management committee instead of a Sheriff appointed committee).

3. FACILITATE 5C CONSERVATION STRATEGIES AND PROJECTS (TASK 2)

5C staff regularly coordinates with counties, funding partners, agencies, landowners, and conservation organizations to assess and assist conservation project development. The progress of the larger Program strategies and activities is on-going. During the reporting period the Program was able to facilitate 7 implementation projects (3 migration barrier removal, 3 road drainage upgrades, and 1 large wood placement project) with 4 additional projects prepared for construction in 2013. The Program funded designs for 6 additional projects (4 barrier removals and 2 habitat enhancements projects) through

this and other grants. It is currently working on the design of three migration barrier sites and one sediment reduction project. The 5C staff completed the environmental analysis and permitting for 4 projects (1 migration, 2 road drainage, and 1 habitat enhancement) and is in progress on 5 additional analysis efforts. The team also conducted long-term physical and photo point monitoring of 7 projects as well as completed a road sediment source inventory of private roads in the Browns Creek watershed, a tributary to the Trinity River. Table 1 summarizes the completed projects.

The 5C products, tools, and information used to develop projects – such as the Direct Inventory of Roads and Treatments (DIRT) road inventory and migration barrier inventory – are continually refined. For example, Pérez partnered with the Watershed Center, Forest Service, NRCS, and consultants to develop a modified version of the DIRT methodology that could be used for small landowner/private road inventories.* This revised inventory was then used to complete a private road potential sediment inventory of the Browns Creek watershed, a tributary to the Trinity River.

Table 1. Restoration Projects Completed During Program Grant Operational Period.

Project	Watershed	Date Completed
Usal Road Sediment Reduction/Drainage Upgrade Project	Usal Creek, Pacific Ocean	Sep-11
Conner Creek Road Migration Barrier Removal Project	Conner Creek, Tributary to Trinity River	Nov-11
RyanCreek Road Migration Barrier Removal Project	Ryan Creek, Tributary to Eel River	Nov-11
Ryan Creek Private Properties LWD Placement	Ryan Creek, Tributary to Eel River	Nov-11
Red Hill Road Migration Barrier Removal Project	Conner Creek, Tributary to Trinity River	Aug-12
China Gulch Road Sediment Reduction/Drainage Upgrade Project	Rush & Weaver Creeks, Tributary to Trinity River	Nov-12
Dutch CreekRoad Sediment Reduction/Drainage Upgrade Project	Unnamed Tributaries to Trinity River	Nov-12
Inventories		
Browns Creek Private Roads Sediment Source Inventory	Browns Creek, Tributary to Trinity River	Dec-12
Design		
Telegraph Creek Road Migration Barrier Design	Telegraph Creek, Tributary to Pacific Ocean	Nov-11
Sidney Gulch Floodplain and Riparian Restoration 20% Design	Weaver Creek, Tributary to Trinity River	May-12
Lower East Weaver Habitat Enhancement	Weaver Creek, Tributary to Trinity River	Jun-12
Port Kenyon Road Migration Barrier Removal Design	Francis Creek, Tributary to the Salt River	Jun-12
Walker Road Migration Barrier Removal Design	McKinney Creek, Tributary to the Klamath River	Mar-13
Bally Loop Road Barrier Removal Design	Weaver Creek, Tributary to Trinity River	Mar-13
Environmental and Permitting		
Fish Rock Road Sediment Reduction/Drainage Upgrade Initial Study	Mill Creek, Pardaloe & Other Tributaries to Garcia River	May-12
Lower East Weaver Habitat Enhancement NEPA	Weaver Creek, Tributary to Trinity River	Sep-12
Summit Creek Road Culvert Placement NEPA	Summit Creek, Tributary to South Fork Trinity River	Oct-12
Mad River/Senia Roads Storm Damage Repairs NEPA	Various Tributaries- Van Duzen and North Fork Eel River	Feb-13
Monitor		
Roundy Road Barrier Removal 5th Year Long Profile Survey	Lttile Browns Creek, Tributary to Trinity River	Oct-11
Oregon St. Barrier Removal 10 Year Long Profile Survey	Weaver Creek, Tributary to Trinity River	Oct-11
Lttile Browns Creek Fish Presence/Absence Survey	Lttile Browns Creek, Tributary to Trinity River	Mar-12
West Weaver Creek Long Term LWD Survey	Weaver Creek, Tributary to Trinity River	Aug-12
RyanCreek Road Barrier Removal Initial & 1st Year Long Profile Survey	Ryan Creek, Tributary to Eel River	Nov-12
Ryan Creek Private Properties LWD Initial & 1st Year Long Profile Survey	Ryan Creek, Tributary to Eel River	Nov-12
Quarry Road Barrier Removal 12 Year Spawning Survey	Morrison Gulch, Tributary to Humboldt Bay	Mar-13

Several of the projects and environmental analysis done during the Program grant operational period relied on existing 5C staff (Pérez, Colbeck, Rourke) as well as new staff members. Claire Lindstrand, fisheries biologist, was hired in May, 2012 as a Project Coordinator. She prepared Biological Evaluations/Assessments for the Lower East Weaver Habitat Project, Summit Creek Low Water Crossing Replacement and is currently working on the Griffin Creek Sediment Reduction Project. She was lead surveyor for several stream thalwegs and cross section surveys (Conner Creek, Ryan Creek, Little Browns Creek, Lower East Weaver Creek) as well as conducting an inventory of large

wood in West Weaver Creek. She assisted Ross Taylor with fish relocation efforts, conducted fish presence/absence surveys, developed barrier removal grant proposals and coordinated the Fish Passage Design Workshop. She assumed a portion of management support duties when Program Manager Pérez took maternity leave in October 2012.

Wildlife biologist Carla DeJulio was hired as an intern/Field Technician in November 2012 and worked on survey projects. She prepared Wildlife Biological Evaluations/Assessments for the Mad River/Zenia Roads repair and Griffin Creek Sediment Reduction Projects, as well as the wildlife portion of the CEQA Initial Study for the Weaver Bally Loop Migration Barrier Project. Bonnie Szabo was hired in November, 2012 as an intern/Field Aide and worked on surveying projects and workshop support. Anna Leeper was hired as an intern/Field Technician in December, 2012 to help complete field surveys, assist with education and outreach projects (Fish Passage Design workshop, Beaver Management BMP workshop, Water Conservation Workshop, media contacts) and provide support staff assistance. Dimitri Dolci, an engineering graduate of UC San Diego in 2012 was hired as an intern/Field Technician in January 2013 and has worked on surveying, hydraulic modeling of road crossings, design assistance and is working with County engineers on passage designs.

Fish Passage and In Stream Habitat Projects¹:

5C staff participated in the construction of Conner Creek #2 migration barrier removal project (July-August, 2012). The Conner Creek projects (Conner Creek Road -2011 and Red Hill Road- 2012) were selected as a National "Waters to Watch" in 2012 by the National Fish Habitat Partnership (NFHP: <http://fishhabitat.org/content/conner-creek-california>). Construction costs were not invoiced to this grant and only specific portions of these projects were used as match to this grant source. The NFHP award contributed funds and was included under Task 3: Pursuing funds.

For the Conner Creek projects, 5C staff worked on design, completed the USFS NEPA Hydrology Report, assisted in pre-construction surveying, established and completed photo-point monitoring, participated in fish relocation, installed flow diversion structures, supervised BMP implementation, completed streambed mix



Conner Creek Project #1 (Colbeck) 2011



Conner Creek Project #2 (Colbeck) 2012

¹ The narrative discusses fish passage and sediment reduction projects completed with other funds. Although construction of projects is not included in this grant agreement's scope of work, these projects did include elements such as permitting, final design assistance, monitoring that are included in this grant's scope of work. For this reason, they are included in this report. Funding from those projects was only counted as match to this contract if it was spent on eligible tasks such as permitting, design, monitoring.

designs, and completed post project physical monitoring (thalweg profile, storm flows).

The 5C worked cooperatively with Mendocino County Department of Transportation to fund the Ryan Creek Road migration barrier removal project, as well as contracted for the placement of large wood habitat structures at 12 locations along Ryan Creek on private lands upstream of the County road barrier removal project. The Conner Creek and Ryan Creek projects restored and enhanced 4.7 miles of habitat.

At Ryan Creek, the 5C contractor (Prunuske-Chatham) designed and installed 12 large wood structures upstream of the County's project. The tree root wads and boles used were from Douglas-fir trees ranging from ~18" to 26" in diameter that had to be removed from the County road fill as part of that barrier removal project.

5C staff (and contractor Ross Taylor and Associates) completed the Ryan Creek first-year, post-construction long profile and cross sections in 2012. 5C staff continues to coordinate with private landowners where the large wood was placed. 5C staff continues to coordinate with Caltrans Marysville design team on upstream barrier removal design plans and responses to channel adjustments as a result of the 2011 project work.



Spawned out carcasses above Ryan Creek Crossing
(Harris) 2012



Large Woody Structure placed above Ryan Creek
Crossing (Lindstrand) 2012

5C staff worked with partners to obtain funding, complete designs, obtain permits and complete NEPA for the following:

- Summit Creek Road Culvert Placement (Summit Creek tributary to South Fork Trinity River). This project is being done in partnership with Trinity County Department of Transportation;
- Lower East Weaver Habitat Enhancement (Tributary to Trinity River). This project is being done in partnership with the Weaverville Sanitary District, US BLM, TRRP, and the Trinity County RCD.

The 5C staff continues to work on the following migration barrier or in-stream habitat enhancement projects:

- Sidney Gulch (tributary to Weaver Creek- Trinity River) on Bally Loop Road (County Road);
- Fish Creek (tributary to South Fork Eel River) on State Highway 254;
- East Weaver Dam on East Weaver Creek, tributary to the Trinity River;
- Sharber Creek (tributary to Trinity River) crossing on Quinby Way (private road).



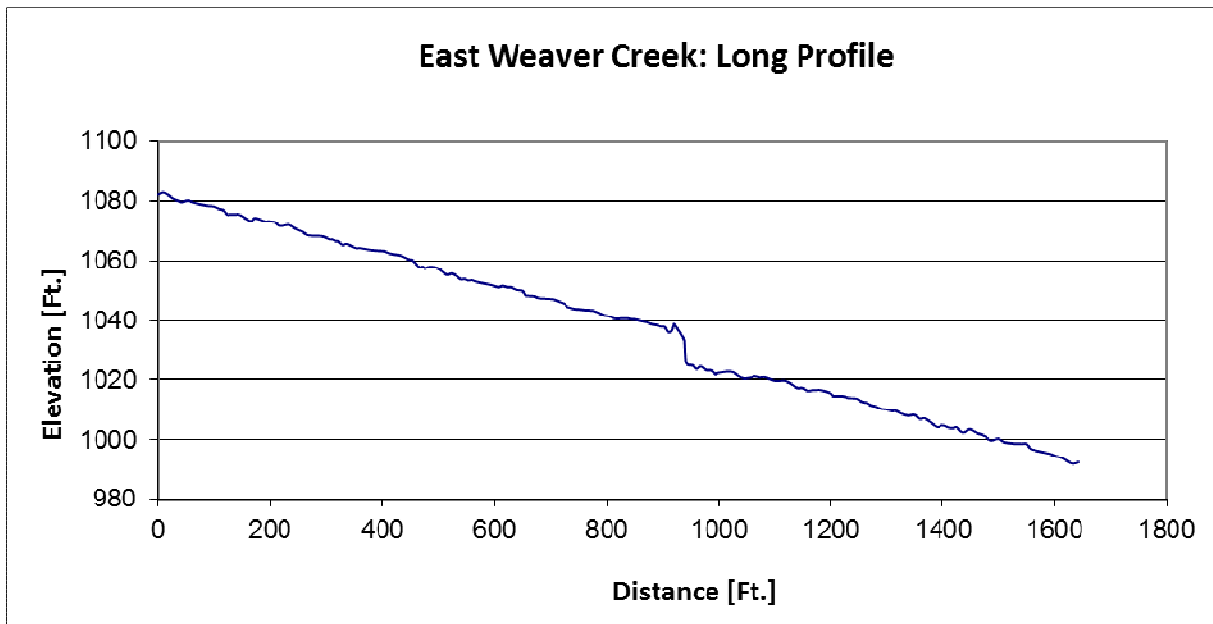
Bally Loop- The project is on lands owned by the Trinity Unified School District and a private landowner. 5C wildlife biologist DeJullio (in photo at right), fisheries biologist Lindtrand, forester Lancaster completed portions of the CEQA Initial Study and hydrology while staff members Colbeck, Szabo, Leeper and Dolci surveyed the site. Lancaster and Colbeck completed design details and drawings in coordination with TCDOT engineering staff. Dolci trained in HEC-RAS modeling of the site with TCDOT engineering staff. With the cooperative design approach between TCDOT and 5C staff, TCDOT staff were able to work on other County Road design demands.

Fish Creek- The Fish Creek project design was partially completed by NewFields Engineering, but conflicting agency objectives delayed completion of the design. Concerns included impacts to old growth redwood trees, Marbled Murrelett habitat, Highway 254 easement/permit boundaries, flood capacity/bedload transport, fish passage step pool design, and road design standard exceptions. Addressing these factors exceeded funding capacity and time constraints. In April 2012, Lancaster met with Caltrans representatives (Mark Suconic, Kemset Moore, and Tim Ash) regarding Caltrans providing SHOPP funds (\$250,000-350,000) to the project if other fund sources are secured. The 5C Program withdrew from further analysis of the site in September 2012 and is working with the Coastal Conservancy as they contract with another entity that can devote the time needed to address the remaining design factors.

East Weaver Dam- The 5C has worked with the Weaverville Community Services District, East Weaver Dam owners, for more than a decade to address modifications of their East Weaver Creek water system as well as their overall water diversion management. In 2012, the WCSD joined with the Program to submit feasibility grants to assess removal of the 18' tall dam and restore a more natural channel gradient. With that cooperation, the 5C program coordinated with the US Forest Service to assess anadromous salmonid utilization of the stream. In 2013, 5C staff completed a long profile and cross sections for approximately 1600' of the channel.



East Weaver Dam 2012 (Colbeck)



Sharber Creek- In late 2012, the US Forest Service and landowners along Sharber Creek requested the 5C undertake a barrier removal project at the creek crossing on Quinby Road, a private road. A 2005 effort to remove the undersized 4' diameter culvert was unsuccessful when some landowners were concerned about the extent of maintenance needed to maintain the planned 5' by 12' box structure crossing. The 5C was able to use the 2005 watershed, hydrology, and design information to propose a new design that would place an embedded 14' by 12' multi-plate arch crossing capable of conveying 100 year flows with bedload and debris. This structure would minimize maintenance needs at the crossing. Two grant proposals have been prepared and submitted for project final design, permitting and construction. The 5C staff will continue landowner outreach to address concerns they may have.

In addition to the projects discussed above, 5C has contracted with engineering firms to explore designs for 6 additional migration barrier removal sites. Funding for this work came from the CA Coastal Conservancy (~\$120,000), County in-kind engineering design services (~\$45,000), NMFS (\$8,700), and \$14,900 from this grant source. The project designs done during the grant period were:

- Powers Creek hydrology and foundation design was contracted to SHN Engineering and Geologists in 2013. Remaining design element funding for SHN will be provided by NMFS. This stream is a tributary to the Mad River in Blue Lake California and the crossing is on a private road that has been designated as an emergency evacuation route for the city. The stream supports coho, chinook, steelhead and coastal cutthroat trout.
- McKinney Creek culvert replacement with a bridge design was completed by the Siskiyou County Public Works Department, Engineering Division in 2012. A structural analysis of the bridge design must be completed prior to construction. McKinney Creek is a tributary to the Klamath River and supports coho and steelhead trout. The 5C submitted a 2013 FRGP grant proposal for Siskiyou County to implement this project in 2014.

- Dinner Creek (2 crossings) design was completed by the Engineering Division of the Humboldt County Public Works Department in 2012. The stream is a tributary to the South Fork Eel River and supports coho, chinook and steelhead trout. In 2012, the Engineering Division added a design to replace an upstream private road barrier as well. The 5C Program wrote a grant proposal (American Rivers) in cooperation with Humboldt County's FRGP funding proposal to construct these projects in 2014 or 2015.
- Telegraph Creek Road culvert replacement with a bridge design was completed by Engineering Division of the Humboldt County Public Works Department based on the design work done by SHN Engineering and Geologists for removal of a community water provider's dam located immediate downstream of the County road barrier. Funding to remove the barriers was tentatively awarded by the NCIRWMP in January 2013. Telegraph Creek supports steelhead trout and drains directly to the Pacific Ocean in the Shelter Cove area of Humboldt County.
- Salt River-Cutoff Slough Tide Gate and Muted Floodplain conceptual design project was contracted to Kaman Hydrologic and Associates and they are looking at a variety of design and land use factors associated with modification of a tide gate on Cutoff Slough. The project is located in the tidal reach west of Ferndale, CA.

In addition to the projects above, the Siskiyou County Public Works Department, Engineering Division completed a 60% design to replace a rotting 6' diameter culvert on the South Fork of Humbug Creek with an approximately 7' by 11' embedded squash culvert. Humbug Creek is a tributary to the Klamath River. The partial design was completed in March 2013 as part of a 5C FRGP grant proposal. This project design was funded entirely by Siskiyou County.

Weaverville Urban Streams:

Sidney Gulch – The 5C worked on several integrated restoration projects from the confluence of Sidney Gulch and West Weaver Creek upstream to Bally Loop Road. Projects involved multiple stakeholders including the Weaverville-Douglas City Park and Recreation District, US Forest Service, Bureau of Land Management, Trinity River Restoration Program, NMFS, CDFW, Trinity County Department of Transportation, Caltrans, Trinity High School, and private landowners. Public education about the watershed efforts included newspaper articles in the Trinity Journal, presentations to the Weaverville-Douglas City Park and Recreation District Board, Weaverville Community Forest Open House Town Meeting, Salmon Festival, Weaverville Rotary, Coho Confab, and during 5C workshops (Beaver Management and Water Conservation workshops).

As part of this overall effort, 5C staff (Colbeck, Lindstrand, Dolci, Leeper and Szabo) surveyed the Sidney Gulch thalweg and cross sections from Oregon Street to the National Forest boundary, north of Bally Loop Road. Existing surveys within Lee Fong Park were done previously leaving only a short section of the stream unsurveyed.

Mike Love & Associates and Graham Mathews & Associates completed ~30% design for three alternatives for the expansion of the floodplain of Sidney Gulch in Lee Fong Park in 2012*. Jessica Stauffer & Associates and William Rich & Associates completed botanical and archaeological investigation, respectively, of the channel reach in 2012.* Design work was funded by the TRRP and Coastal Conservancy. Funding is being pursued to complete the preferred alternative design along with environmental and permitting items to implement the preferred alternative design.

In March 2013, a streamside landowner tendered an offer to donate a 0.8 acre parcel of land bisecting Sidney Gulch immediately downstream of Lee Fong Park to the park district. The acquisition would assure its continued retention as an open space area of the stream. The park district and 5C staffs are currently working on finalizing that donation.

A feasibility study to look at restoration options within the channelized USFS segment of the stream was approved by the TRRP and is in the process of development (see Task 3).

In February 2013 Caltrans and TCDOT requested 5C assistance in addressing sediment build up in Sidney Gulch in Weaverville, between the Forest Service compound and Weaver Bally Road. Caltrans originally proposed excavating the channel of accumulated sediment and removing riparian vegetation. These practices have been discontinued for the past 4 years and heavy willow growth has trapped sediments resulting in the backwatering of a drain pipe that discharges in the creek. The backwatering at the stream is, in turn, flooding resident yards across the highway. The 5C staff agreed to survey the channel reach and develop a treatment plan consistent with the Roads Manual BMPs. Work to date has included the survey, recommendations to relocate two power poles and associated power lines away from the stream channel, the planting of replacement trees outside the active stream channel, and selective thinning of the riparian vegetation. Relocating the power lines will have long-term benefits of allowing riparian area trees to grow taller. Currently they are either trimmed or removed entirely as part of the power line safety program. As previously noted, a barrier removal design project at Bally Loop Road represented the upstream-most restoration effort underway.



Crest Gage in Sidney Gulch 2012

Conservation Workshop.

Funding from this grant was used by 5C staff to survey the stream and cross sections, monitor crest gauges in the channel in Lee Fong Park, work on HEC RAs modeling of flows in the stream, acquiring the land donation to the park district, work on the Caltrans/County channel maintenance plans, coordinate fish spawning monitoring by Forest Service biologists, and prepare additional grant proposals. Additionally, staff presented urban stream efforts to public groups and worked with the Trinity Journal to feature articles about the watershed conditions and presentations made to the Weaverville Rotary Club, Coho Confab, and Water

East and West Weaver Creeks - The Lower East Weaver Habitat Improvement Project design and Environmental Assessment was completed by 5C staff in June 2012. The BLM completed public scoping and issued a Finding of No Significant Impact for the proposed action in September 2012. There were no public comments or appeals of the EA/FONSI. The BLM Redding office completed consultation on the EA with the National Marine Fisheries Service in early 2013. This project places large woody elements in the stream and within the floodplain and lays back stream banks at risk of eroding and installs

willow mattresses and other riparian vegetation to stabilize those banks. The project will also include the installation of a series of below grade, buried rock ribbon grade structures immediately downstream of a 15" diameter sewer main that has become exposed in the stream bottom. If the sewer main were to wash out and rupture, approximately 1 million gallons of raw sewage could drain into the stream upstream of a community water system intake.

The project was funded by the Trinity River Restoration Program and Weaverville Sanitary District in-kind services and construction is planned for summer of 2013.



Lower East Weaver Creek 2012 (Colbeck)

A floodplain improvement design proposal on BLM

managed lands was submitted to the Pacific Marine and Estuary Program (see Task 3). This grant supported the preparation of the grant proposal. The proposed project consists of moving the existing 300' long rip-rap levee upstream of the Mill Street Bridge back approximately 50'-100' from the stream channel. Once the floodplain width is restored the area would be planted with riparian species.

Lance Gulch - At the request of the Weaverville NRCS staff, the 5C completed a thalweg survey of 1,100' of this stream channel adjacent to the Weaver Basin Wetlands. In addition to the channel survey, three cross sections were completed. Based on the site conditions including the failing berm between the stream channel and wetlands, the NRCS has determined that there is a risk of catastrophic failure of the berm. The 5C prepared an initial grant proposal to the NRCS to remove sediment in the channel with a second proposal to be prepared to look at a comprehensive plan to address Lance Gulch this year.

Weaver Basin Wetlands (WBW)*:

Pérez coordinated with Natural Resources Conservation Service District Conservationist John George on the Weaver Basin Wetlands project, which is now closed.

Sediment Reduction Improvement Projects:

Two drainage upgrade/sediment reduction projects were constructed during the period including: China Gulch Phase 2b and Dutch Creek Road Phase 1. Both projects are on Trinity County roads. 5C staff worked directly with Trinity County to facilitate the projects including staking treatment sites, providing design details, setting up photo monitoring points, inspecting construction activities for compliance with Roads Manual BMPs to protect water quality, completing erosion control and revegetation efforts, and conducting post project photo-point and storm water monitoring.

During the grant period, the 5C staff assisted Mendocino County Department of Transportation with completing a comprehensive initial study and Mitigated Negative Declaration for its Fish Rock Road Drainage and Sediment Reduction Project. The project encompasses approximately 18 miles of County road in the Garcia River watershed.



China Gulch Road Pre-Project (Lancaster) 2004. Photo taken during winter storm



China Gulch Road Post-Project (Lancaster) 2012. Photo taken during winter storm

5C staff is working with Del Norte County's Community Development Department, US Forest Service, NMFS and USFWS to complete all required Forest Service NEPA and ESA analysis for 5 projects planned for construction in 2013 including Griffin Creek Sediment Reduction Project and the "4 Roads" Paving Project (French Hill Road, Patrick Creek Road, Low Divide and Gasquet Creek Road). Specialists in archaeology and botany have been contracted to complete assessments in these fields while 5C staff specialists complete fisheries, wildlife and hydrology assessments. Public scoping has been completed for all projects. Assessment and implementation work is funded from Six Rivers Resource Advisory Committee Title 2 grants to the County and County in kind services.

5C Field Technician Carolyn Rourke performed a post project DIRT inventory of Deerlick Springs Road in the Browns Creek watershed in Trinity County to assess current conditions and changes compared to the original DIRT inventory data collected in 2002. This information has been used to prioritize treatments in the Browns Creek watershed and to secure funding from the Trinity River Restoration Program for project implementation.

Browns Creek Private Roads Sediment Source Inventory - The 5C partnered with the Hayfork Watershed and Research Training Center to conduct a roads sediment source inventory of private roads in the Browns Creek watershed. The inventory was completed in September 2012 and identified 69 priority treatment sites. The 5C then submitted a proposal to the TRRP to treat these sites. The project was selected for funding with an agreement expected in late 2013. Project staking, design details, contracting and environmental work will be done throughout winter 2013 with construction planned for the summer of 2014.

Other Conservation Efforts:

Lancaster, Pérez, and Colbeck sat on, participated in, and/or presented at over 80 conservation based forums, meetings, or workshops for 15 organizations (CA Coho

Recovery Team, CA Fish Passage Forum, CA Board of Forestry VTAC, North Coast IRWMP, Salmonid Restoration Foundation, CalFire Monitoring Study Group, Nor Cal SAF/UCCE Roads Webinar, Trinity River Watershed Council, Trinity River Watershed Working Group, Trinity County RCD Community Forest, Northwest CA RC&D Council, 5C Executive Committee, etc). Refer to Section 10 (Task 9) discussions below for information on these efforts. Refer to Attachment A for minutes or agendas from these meetings.

Lancaster and Pérez presented or testified to the following Legislative or regulatory Boards: CA Joint Legislative Committee on Fisheries and Aquaculture; CA Board of Forestry; North Coast Regional Water Quality Control Board; Boards of Supervisors for all 5C Counties; and the Trinity County Planning Commission. Refer to Section 10 (Task 9) for additional information.

5C staff continued to seek funding sources to construct a reclaimed water treatment plant at the Weaverville Sanitary District facilities, including submission of two grant proposals to build the \$1.5 million plant. Increased summer stream flows in Weaver Creek have been recognized as an important coho recovery strategy. A reclaimed water plant would replace the equivalent of 0.3-0.6 cfs of water diverted from either Weaver Creek or the Trinity River to meet non-consumptive and incidental human contact water demands (golf courses, park irrigation, firefighting, and some industrial uses).

The 5C worked with Counties on a proposed General Certification and Waiver of Waste Discharge rule proposed by the NCRWQCB (refer to discussion under Task 6).

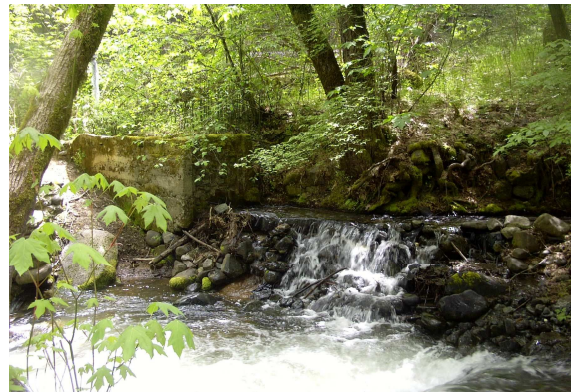
The Program continues to be an unofficial "ombudsman" for landowners, public members and agency employees to contact regarding environmental concerns, violation of regulations or agency inactions while remaining anonymous. As the Director, Lancaster received "complaints" about illegal marijuana growing related erosion and water diversions (refer to Section 7-Task 6 for additional discussion on this topic), illegal in-stream mining, concerns about winter grading, excess vegetation removal, and County road practices.

5C followed up with CDFW Warden Straatmann for the mining complaints, these investigations resulted in citations being issued. Lancaster conveyed the grading complaints information to the respective agencies, such as the Regional Water Board and Trinity County Planning Department. As a result of calls from a concerned landowner in Garden Gulch about excessive vegetation clearing along a fish bearing stream, Lancaster met with the Fire Department and drafted BMPs for fuels reduction to minimize impacts on fisheries and water quality.

5C staff received concerns about County crews clearing too much riparian vegetation, side casting spoils, excessive ditch grading, and water withdrawals from streams. Each of these concerns was investigated or discussed with county personal. In other cases the concern was determined to either be unfounded or not a county action. Two water diversions associated with potential marijuana growing operations are still being reviewed by 5C staff.

The 5C outreached to Shasta and Tehama County to meet and discuss the 5C roads programs and to invite them to attend the 2012 Roads Workshop. The outreach was requested by Central Valley Regional Water Quality Control Board staff person Drew Coe. Neither County was interested in meeting or attending workshops.

Project Coordinators Lindstrand and Colbeck surveyed a ditch that diverts East Weaver Creek flows to Five Cent Gulch (tributaries to Weaver Creek and the Trinity River). The effort was to assess if fish live in the ditch and what type of habitats occur along the ditch. The diversion point of the ditch was buried in a bank slide in the winter of 2012 and 5C will coordinate with the Forest Service to discourage restoration of the ditch.



Ditch Diversion on East Weaver Creek 2012 (Colbeck)

They also surveyed Garden Gulch, another Weaver Creek tributary, locating an old 10' dam that is a migration barrier.

4. PURSUE FUNDING FOR 5C PROJECTS AND RESTORATION EFFORTS & INCREASE EFFICIENCIES (TASK 3)

Funding For 5C Projects and Restoration Efforts - 5C staff prepared and submitted 30 grant proposals to 14 grant funders for activities ranging from education and outreach to construction of migration barrier removal projects. The Program has successfully been awarded approximately 30% of its grant proposals (but will not have Program funding effective April 1, 2013). Grants awarded during the period focused on project implementation and limited design. Table 2 summarizes all grant applications and their status as of March 31, 2013.

Table 2. Summary of Grant Applications Submitted During the Operational Period of the This Grant.

Fund Source	Watershed	Year	Staus
NRCS WRP			
Lance Gulch Channel Restoration	Trinity	2013	Pending Notification
NCIRWMP Water Conservation Projects			
Hansen Ditch, Community Water Tank, and Rainwater Education	Trinity River	2013	Pending Notification
NOAA Coastal and Marine Habitat Restoration Grants			
Sharber/Peckham Creek Fish Passage Project	Trinity River	2013	Pending Notification
Dinner Creek Migration Barrier Removal Project	SF Eel River	2013	Pending Notification
Ryan Creek Private Road Migration Barrier Removal	Eel River	2013	Pending Notification
East Weaver Dam Removal Feasibility Project	Trinity River	2013	Pending Notification
CDFW FRGP			
McKinney Creek Migration Fish Passage Project	Klamath River	2013	Pending Notification
South Fork Humbug Creek Fish Passage Project	Klamath River	2013	Pending Notification
Sharber/Peckham Creek Fish Passage Project	Trinity River	2013	Pending Notification
NCIRWMP Proposition 84 Grant Round 2			
Weaverville Sanitary District Reclaimed Water Project proposal	Trinity River	2012	Not Selected
TRRP Watershed Restoration Program			
Sidney Gulch at Weaver Bally Loop Migration Barrier Removal Project	Trinity River	2012	Contingency Funded
Browns Creek Sediment Reduction Implementation Project	Trinity River	2012	Funded
Schofield Gulch Sediment Reduction Project	Trinity River	2012	Funded
NCIRWMP Water Conservation Projects			
Weaverville Sanitary District Water Reclamantion Plant	Trinity River	2012	Not Selected
USFWS NFHAP Partnership			
Conner Creek Migration Barrier Removal	Trinity River	2011	Funded
Pacific Marine and Estuary Program			
Floodplain/Riparing Habitat Restoration Design for Sidney Gulch	Trinity River	2012	Not Selected
Lower West Weaver Floodplain and Riparian Restoration Project	Trinity River	2012	Not Selected
NOAA Community Based Restoration Program			
Sidney Gulch at Weaver Bally Loop Migration Barrier Removal Project	Trinity River	2012	Not Selected
CDFW FRGP			
Program Grant	Region-wide	2012	Contingency Funded
East Weaver Dam Feasibility	Trinity River	2012	Not Selected
NCRWQCB Supplemental Environmental Projects			
Francis Creek Sediment Removal	Lower Eel River	2012	Not Selected
Francis Creek sediment Monitoring	Lower Eel River	2012	Not Selected
Betts Road Sediment Reduction and Drainage Improvement	NF Eel River	2012	Not Selected
East Branch Road Sediment Reduction and Drainage Improvement	SF Eel River	2012	Not Selected
Fish Creek Migration Barrier Removal	Eel River	2012	Not Selected
Roads Water Quality Training, Monitoring and outreach Program	Region-wide	2012	Not Selected
TRRP Watershed Council			
Conner Mouth Migration Enhancement Feaibility Study	Trinity River	2011	Funded
Sidney Gulch USFS Compound Site Feasibility Study	Trinity River	2011	Funded
Lower East Weaver Creek Habitat Project	Trinity River	2011	Funded
RAC			
Ruth Zenia/Dobbyn Ck Sediment Reduction Project	NF Eel River	2011	Not Selected

During the grant operational period, the 5C increased its focus on climatic shift impacts to fisheries as well as its educational and water conservation efforts. 5C staff developed proposals for water conservation outreach in the Weaver Creek basin for consideration

by the North Coast Resource Partnership (NCRP) – formerly the North Coast Integrated Regional Water Management Plan’s (NCIRWMP). One proposal consists of working with local public and non-profit organizations (e.g., schools, senior center) to implement model stormwater collection systems and conduct public education and demonstration workshops. Another proposal would work with a group of landowners in East Weaver Creek to improve the efficiency of water use currently diverted from the Hansen Mine Ditch in order to retain more in-stream flow in East Weaver Creek. A third proposal would upgrade one of the local water district’s water storage tanks, which is leaking (see *Task 6: Land Use Planning*)

Project Coordinator Colbeck developed and submitted a proposal to construct a reclaimed water recycling facility using Proposition 84 funds administered by the NCIRWMP for the Weaverville Sanitary District. The TPRC did not select the grant for funding under the first round application review.

The completion of this grant will mark a significant reduction in community outreach, grant development, ombudsman support, training, monitoring, inventorying and assisting counties, agencies and the public. The 5C Program Manager assessed critical Program elements that might be funded from “non-traditional” sources to continue some of these functions. As a result of that assessment Pérez developed a proposal to the North Coast Regional Water Quality Control Board to use water quality violation fine funds to continue roads workshops, trainings and monitoring elements of the Program. The proposal was not funded. Concurrent with Pérez’s efforts, Lancaster began discussions with 5C member Counties about future funding and work scenarios resulting from the loss of Program staffing.

A list of sediment and fish passage projects in the Trinity River watershed from Lewiston Dam to the North Fork Trinity River was developed by the 5C, along with cost estimates to implement them. The information was presented to the Trinity River Restoration Program to assist it in projecting funding level needs for the Watershed Restoration Program portion of implementing the Trinity River Flow EIR Record of Decision.

Increase Efficiency Efforts - During the grant operational period, both improvements and setbacks to increased efficiency of Program and restoration efforts occurred.

Beginning in 2012, the Program had to shift a portion of staff work load to address increased environmental documentation needed for county projects. This shift reduced time available to develop new conservation strategies or grant proposals. The shift to an increased environmental analysis workload by the 5C was necessary to keep grant funded County projects moving forward in a timely manner. These changes were triggered in part as the result of reduced County staffing levels and reduced focus on restoration projects compared to more traditional road related activities. This shift also reflected reluctance by the Shasta-Trinity and Six Rivers National Forests to utilize other federal agencies’ Fisheries Programmatic EA’s or Biological Evaluations/Assessments for Counties road activities within National Forest lands. This has primarily affected projects in Trinity and Del Norte County, where most of the land is managed by these two Forests. In many instances the Counties “transferred” management of the issue to the 5C staff.

There has been a significant increase in the level of NEPA analysis for County roads projects within the past few years. Both the Shasta-Trinity and Six Rivers Forests cite

routine appeals of their NEPA analysis for Forest Service projects as the basis for requiring Counties to do more extensive NEPA assessments. To date, no 5C associated restoration project NEPA documents has been appealed. In addition, the Forest Service has struggled to determine how County roads maintenance and restoration projects fit within Forest operations and inter-agency agreements. For example, the Forest Service has delayed the release of Decision Memos for County projects pending a Regional Water Board Waiver of Waste Discharge notification from the Forest, even after the County and/or 5C has previously filed the Waiver with the Regional Water Board. These types of delays dramatically increased the cost and threatened ability to implement restoration projects.

One potentially positive solution to this issue is the use of the Counties' incidental take coverage under Section 4(d) Limit 10 of the Federal Endangered Species Act. The counties may be able to use the EA for that action in combination with the roads manual BMP's to facilitate paving projects in Del Norte County. If this can be used to address NEPA compliance for maintenance activities within National Forest lands it can be a model for future projects.

Some improved efficiencies in project implementation are expected to be on line shortly as a result of 5C and other agency efforts. The adoption of a Waiver of Waste Discharge and General Certification covering County road maintenance by the North Coast Regional Water Quality Control Board is expected to be available in May, 2013 (refer to discussion in Section 7-Task 6).

In addition, Humboldt County is taking the lead to look at matching the Waiver with a 5 Year Programmatic 1600 Agreement with CDFW. The combination of these processes should reduce permitting delays for projects. Pérez also discussed programmatic streambed alteration agreements with Sustainable Conservation (SC) staff. SC's current effort with CDFG for such agreements would tie in well with 5C's current programmatic permitting for Roads Manual activities.

Pérez compiled a list of local Trinity County contractors for future projects, particularly those on private land. Materials, labor, and consultant cost information was updated and will reduce time for Program staff to develop cost estimates for grant proposals.

In one of the most significant improvements in efficiency the Program recruited interns to work on all aspects of its work. The interns tended to be seasonal employees (mostly from the Forest Service) with college degrees and extensive field work experience (Refer to Section 3- Task 2 for additional information).

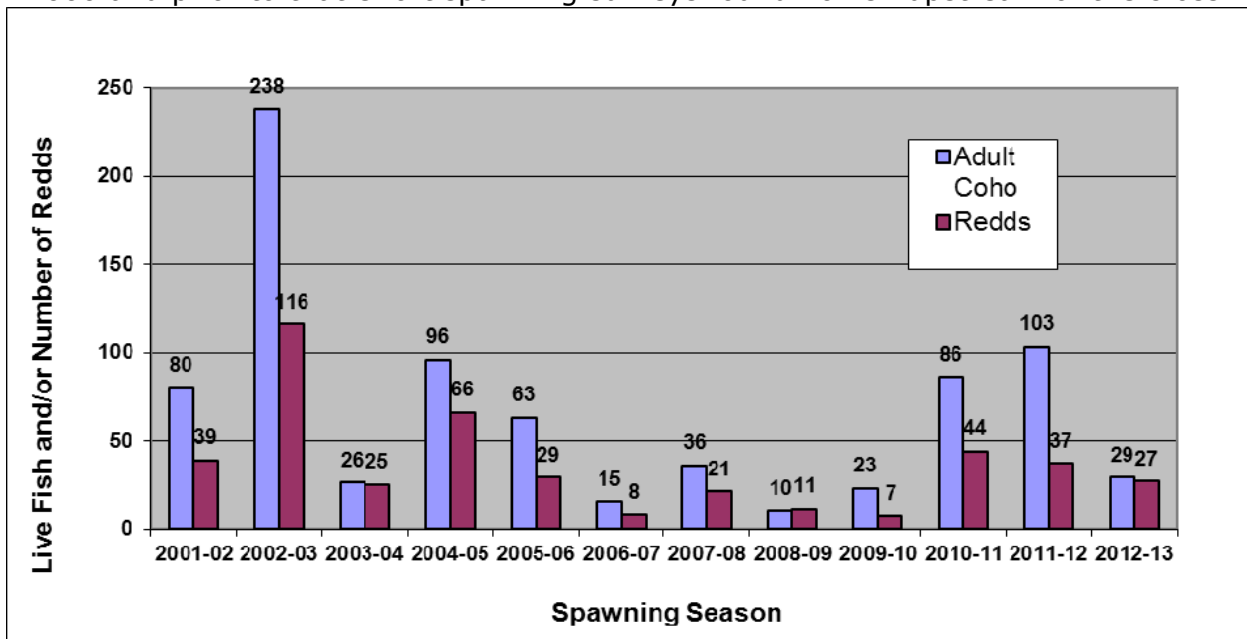
Efforts to increase administrative efficiency included cross training the Accounts Clerk with the Council Office Manager. Finally the Program Manager left on maternity leave in October, delaying implementation of some efficiency efforts.

Upgrades to the 5C fiscal management system database were developed with a professional consultant and programming expert, Victor "Gus" Kormeier. Financial tracking processes are on track to be streamlined by incorporating an invoice generation feature directly into the database. Pérez also reworked the 5C file server to better house GIS data and other information.

5. MONITOR AND TRACK PROJECT STATUS (TASK 4)

The 5C either monitors, or contracts with consultants to monitor, a variety of projects, including the following:

Morrison Gulch Spawning Surveys - Ross Taylor & Associates completed the 11th and 12th year of spawning surveys at Morrison Gulch (tributary to Jacoby Creek and Humboldt Bay). The Morrison Gulch migration barrier removal project was completed in 2000 and prior to that effort spawning surveys found no fish upstream of the crossing.



Little Browns Creek Spawning Surveys and Presence/Absence Surveys - Ross Taylor & Associates completed the 5th year of spawning surveys in Little Browns Creek in the spring of 2012. No adult spawners were found upstream of the completed migration barrier removal project. The 5C completed a detailed report of 5 years of monitoring of the stream in September 2012 (refer to the attached "Monitoring Results Addendum to Final Report for NOAA 30162").

Ryan Creek Channel Monitoring - Prunuske-Chatham Inc. completed an "as built" survey of channel thalweg through the Mendocino County migration barrier removal and the large wood placement projects in November 2011. Ross Taylor & Associates and the 5C staff completed the same thalweg and cross section surveys in November 2012, capturing first year channel adjustments.

Conner Creek Channel Monitoring - Ross Taylor & Associates and 5C staff completed an "as built" survey of the Conner Creek at Conner Creek Road migration barrier removal project in December 2011. The 5C completed thalweg and cross section surveys of both Conner Creek migration barrier removal projects in September 2012. The survey of the Conner Creek Road site captured channel adjustments after the first year following project completion and the survey of the Red Hill Road crossing captured the "as built" channel condition following its completion in August 2012.

Little Browns Creek Channel Monitoring - The 5C Program in cooperation with Ross Taylor & Associates completed the 5th year thalweg and cross section surveys of the

Little Browns Creek migration barrier removal project in September 2011 (Figure 2). In 2012, a detailed report of monitoring results for this project was prepared that addressed biological, physical, flow and climatic observations over the year period since the project was constructed (refer to the attached "Monitoring Results Addendum to Final Report for NOAA 30162").

Figure 2. Little Browns Creek Channel Adjustments 2007-2011

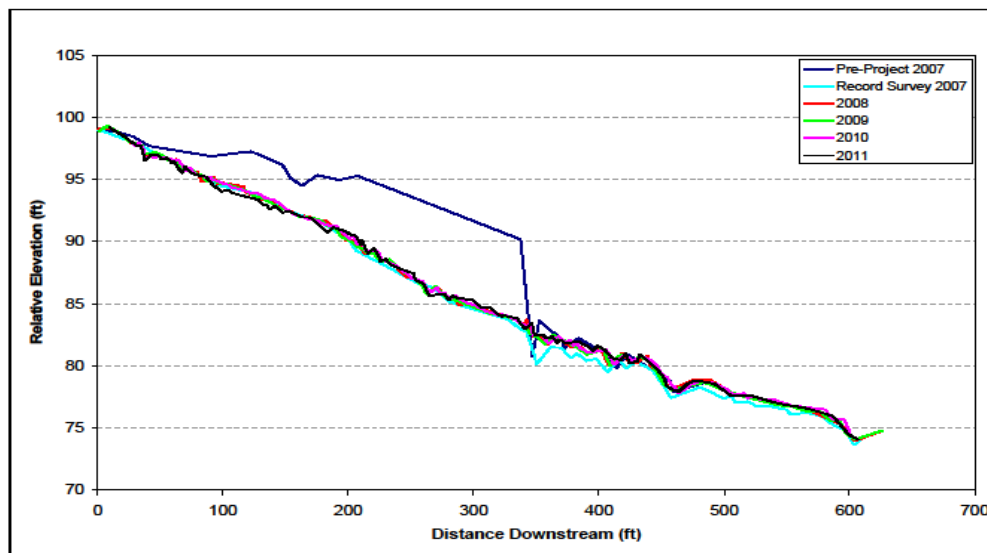
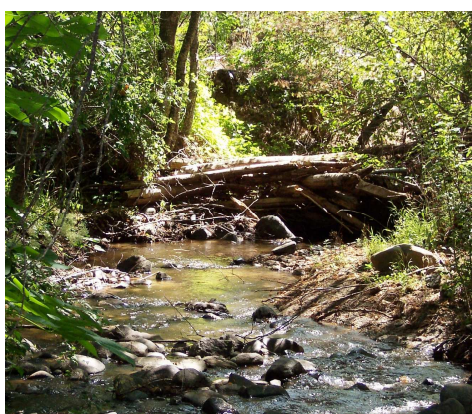


Figure 1. Overlay of the pre-project and five post-project longitudinal profiles surveyed between 2007 and 2011.

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West Weaver Creek Channel Monitoring - In September 2011, Ross Taylor & Associates and 5C staff resurveyed the stream channel ten years after the migration barrier removal project was completed. The profile extended upstream to a large wood debris jam (discussed below).



A log jam in West Weaver Creek downstream of Oregon Street (Lindstrand 2012)

West Weaver Creek Log Jam Photo Point Monitoring

- The 5C Program has maintained a photo record of the channel-spanning debris jam 300' upstream of Oregon Street since it formed in 2004. The monitoring was initiated and continued in agreement with TCDOT in lieu of removing the jam. In March 2012 the jam broke up completely and LWD routed downstream.

West Weaver LWD Routing Monitoring

- In 2011 the 5C tagged all LWD wood in West Weaver Creek from the West Weaver Creek Log Jam (discussed above) in anticipation of the log jam breaking up. In March 2012 the debris dam broke up and in August

2012 the stream was resurveyed for LWD. That survey found some of the debris jam LWD had transported as far as 2,000' downstream and some of the wood had formed new jams or enlarged existing one from 300' downstream to approximately 1,500'

downstream of Oregon Street. The survey also noted that one large jam had been cut out following the 2012 wood movement. During this survey effort an illegal stream bank gold mining operation was encountered (see discussion in Section 3 (Task 2- Other Conservation Efforts) and Section 10 (Task 9) for additional information).



Surveying LWD in Weaver Creek
(Szabo 2012)

Weaver Creek Beaver Dam Monitoring -

Beaver dams located in Weaver Creek were observed and monitored as potential fish migration barriers due to low winter flows in



Beaver dam on Weaver Creek before

December-February 2011-12 (refer to photo below). Spawning coho were observed downstream, but not upstream, of these dams during this period. Significant rains in March 2012 allowed migration and spawned-out steelhead were observed upstream until May, 2012. In the summer of 2012, beaver tree cutting activity resulting in trees falling onto Highway 299. The beavers were removed by CDFW staff at the request of Caltrans due to safety concerns. The management of these beavers resulted in the development of a workshop on beaver management BMPs in February 2013 (refer to Section 7-Task 6).



Former beaver dam on Weaver Creek,
Trinity County after removal by CDFW

Photo Point Monitoring- Because the 5C Program has been operating for 15 years, it has been able to photo document some projects for a decade or more and retains an extensive collection of pre, during, post project photo site records. In addition to project monitoring, the Program's storm patrol monitoring has allowed it to photo document failures, active erosion, and or sediment delivery as it occurs (it should be noted that the winters within this contract period were relatively dry).

These types of photo documentation have proven beneficial in presenting information to the public and target audiences. The photo history has been cited as a specifically valuable learning tool during presentations at the Nor Cal/UCCE Roads Webinar, SRF presentations, North Coast Regional Water Board hearings, and other venues. The 5C photos have been used by numerous agencies and others for presentations and have been reproduced in newspapers and magazines over the years. The following projects had long term photo documentation added to them during the operational period of this grant:

- West Weaver Creek at Oregon Street Migration Barrier Removal (Trinity County)
- Little Browns Creek at Roundy Road Migration Barrier Removal (Trinity County)
- Finley Gulch at Roundy Road Migration Barrier Removal (Trinity County)
- Conner Creek at Conner Creek Road Migration Barrier Removal (Trinity County)

- Conner Creek at Red Hill Road Migration Barrier Removal (Trinity County)
- China Gulch Road Drainage Upgrades Sediment Reduction (Trinity County)
- Dutch Creek Road Drainage Upgrades Sediment Reduction (Trinity County)
- Usal Road Drainage Upgrades Sediment Reduction (Mendocino County)
- Weaver Basin Wetlands (Trinity County)
- Oregon Mountain Drainage Upgrades Sediment Reduction (Del Norte County)



Photo documentation on Dutch Creek Road

6. LAND USE ELEMENT (TASK 5)

5C staff began working on implementation of recommendations from the “Water Resources Planning in the Main Stem Trinity River Watershed” (Pérez and Lancaster, 2009). Copies of the assessment were requested by the CA Water Impact Network and Hoopa Valley Tribe Fisheries Department following that meeting. The Tribe is documenting a watershed of origin water needs assessment for the Trinity River.

As a result of the 2009 assessment, the 5C developed both proposals and water conservation education outreach projects. A funding proposal was submitted to the NCIRWMP to implement water conservation efforts in the Weaver Creek watershed in lieu of, or in combination with, a reclaimed water treatment plant. Conservation focuses of the grant include: 1) rainwater collection outreach to the community, 2) implementation of water conservation measures in the East Branch of East Weaver Creek for users diverting water via the Hansen Mine ditch and 3) Weaverville Community Services District water tank upgrades.

A water conservation workshop was held in Weaverville on March 23, 2013. While public turnout was very low, educational materials were developed that will be used in a series of community education events in the summer and fall of 2013. An article on water conservation needs was published in the Trinity Journal on March 13, 2013.

The 5C provided a rooftop rainwater system to the Trinity Foundation’s Young Family Ranch Education Center. The system was installed by the Trinity County RCD. It will be incorporated with other water conservation interpretive/training features of the Center.

A draft framework grading ordinance continues to be developed – particularly specific Best Management Practices (BMPs). The ordinance relies on educating landowners and certifying certain types of grading for minimal impacts. A permit would be required for anyone not going through education certification or more complex grading (e.g., steep slopes). A series of BMPs have been compiled and are undergoing review. They include a variety of topics such as timing of operations and erosion/sedimentation controls.

5C staff continue to focus on the impacts of one of the most significant land use changes occurring in remote areas- marijuana growing. The 5C partnered with the Watershed Research & Training Center. The WRTC was awarded a \$10,000 grant to address marijuana impacts on water quality and fisheries, which the 5C will participate in.

Lancaster and Scott Grecian, Director of the Friends of the Eel River, discussed water diversion impacts and strategies to protect in-stream flows on KMUD – a Humboldt County radio station on March 20, 2012. Lancaster facilitated (and presented) a panel discussion on “Addressing Water Diversions That Impact Salmonids and Watershed Health” at the 2013 SRF Conference. Speakers addressed the impacts of marijuana grows and other water diversions and land use practices on fisheries and water quality.

5C staff initiated discussions with the Trinity District Attorney’s Office about increased prosecution of in-stream violations that affect listed species. In addition the 5C has been researching and discussing with the DA office the possibility of using Sheriff and DA assets forfeitures (cash seizures) from marijuana operations to be directed to the restoration of lands that are eroding or are polluting streams. This effort has included an initial discussion with the Jerry Melo Foundation to increase awareness for the need to restore lands using confiscated funds (this effort was initiated just at end of the Program grant funding).

Pérez attended a workshop on new Stormwater Pollution Prevention Plan requirements.

5C staff attended workshops and trainings on relevant land use planning such as the free land use and environmental law update held by Abbott & Kindermann where recent changes in natural resources, permitting, and other land use laws are presented.

7. 5C ROADS MANUAL IMPLEMENTATION, UPDATE, AND MONITORING (TASK 6)

During the grant operating period the Counties continued to implement the road manual BMP’s for both routine maintenance activities and drainage upgrades. An annual report on road maintenance was submitted to NMFS in April 2012 with copies provided to the North Coast Regional Water Quality Control Board (at their request). A similar report for 2011-12 work will be submitted again in June, 2013. Additionally, the 5C migration barrier progress matrix was updated as needed to reflect completed and upcoming scheduled projects. An updated list is included as Attachment B.

In 2012, the North Coast Regional Water Quality Control Board undertook a review of the 5C Roads Manual, trainings, monitoring and reporting, sediment and barrier inventories, and drainage and stream crossing upgrades. Based on that review it initiated a rule-making process for most 5C county road management activities under a General Certification/Waiver of Waste Discharge permit (Waiver). Under the Waiver Counties would not need to obtain individual Clean Water Act Section 401 discharge permits for most activities, but would have to annually report all maintenance activities to the Water Board.

The value and benefits of a Waiver were a primary discussion between the Counties, 5C staff, and Water Board staff throughout the year. Periodic email discussions and calls occurred between individual counties, 5C and/or the Water Board. A conference call with

Water Board staff (Robinson, Olson, Neely, and Pratt) was held on June 20th. In October 2012, all parties met at the Roads Workshop to discuss issues, concerns, and opportunities of the draft Waiver rule.

The Regional Board conducted a public meeting on the draft Waiver on January 24, 2013. Lancaster presented the counties' programs, understanding of the Waiver, and current staff and budget concerns about any new rule processes. Siskiyou and Mendocino Counties submitted comments to the Water Board following the meeting. On March 12, 2013, 5C staff (Lancaster and Pérez), Counties representatives (Daniels, Waite, Burton, Smith, Reeve, Bundschuh, and Dashiell) and the Water Board staff (Neely, Blatt, and Robinson) conducted a conference call at which time some Counties indicated a willingness to consider utilizing a Waiver. Because Counties had not seen the environmental analysis for the Waiver, they could not commit until after review of the Negative Declaration.

With the Waiver in progress, new road manual elements were deferred to see if the Regional Water Board would propose new BMP's, training, or monitoring elements. Update efforts that were undertaken focused on efforts already in progress (vegetation management, typo corrections, and reference updates).

An opportunity to address the emerging maintenance issue of beaver interactions with roads- was realized when renowned beaver management specialist Mike Callahan (<http://www.beaversolutions.com>) attended the 5C Fish Passage Design workshop and agreed to put on a Beaver Management workshop on February 9th. That workshop was attended by 45 people including representatives from Caltrans, Counties, CDFW, RCDs, and landowners.

8. SALMONID, WATER QUALITY, & ROADS WORKSHOP (TASK 7)

Project Coordinator Colbeck was the lead on the logistics for the 2012 workshop. The Road workshop was held October, 2012 at Trinity Lake Resort at Cedar Stock. A total of 55 people participated in the workshop, 80% of which were staff from county road departments. Other attendees included speakers from state, federal, tribal and county agencies, and 5C staff. Among featured topics were erosion repair and control BMPs, geotextile applications of roads and fill slopes, geology of roads, wildlife/road interactions, lamprey migration barriers and techniques to allow passage at road crossings, climate change and case studies of various restoration implementation projects. Breakout sessions included topics on the wavier for waste discharge and Department of Fish and Wildlife permits (Lake or Streambed Alteration agreements – 1600 permits). Demonstrations were provided of sediment control methods and

understanding/addressing road drainage issues. Field sites were visited to evaluate completed and future restoration work, problem solve landslide and road drainage



2012 Roads Workshop, Trinity County: field tour (Colbeck) 2012

problems, tours of large and small scale restoration projects, and demonstration of erosion control BMPs (see photos).



2012 Roads Workshop, Trinity County: classroom session (Colbeck) 2012



2012 Roads Workshop sediment control sock/bag demonstration (Colbeck)

9. FISH PASSAGE DESIGN AND IMPLEMENTATION WORKSHOP (TASK 8)

The 5C staff coordinated with Dana Stolzman of Salmonid Restoration Federation (SRF) on all aspects of timing, location and materials for its Fish Passage Design and Engineering (FPD) workshop. This workshop targeted engineers, hydrologists, biologists, environmental planners, and other staffs who are involved in the design and implementation of fish passage projects.



Fish Passage Design Workshop, Ukiah (Colbeck) 2012

The coordination of SRF and 5C assured that the maximum number of people were able to make it one of the two FPD workshops (SRF facilitated an FPD workshop in January 2012 in Ventura). The timing of the 5C Workshop was scheduled to complement and not compete with the SRF workshop. People who could not make it the SRF workshop were referred to the 5C workshop. The 5C FPD Workshop took place from February 6-8th in Ukiah, CA.

Project Coordinator Lindstrand managed all planning and logistics for the FPD Workshop with assistance from Account Clerk Sue Rhodes and technician Anna Leeper. They fielded questions regarding details and registration for the event. Other planning activities included finalizing details with speakers, proposing field tour options to the workshop presenters, creating maps for the drivers on the field tour, printing and binder assembly, assembly of the workshop handouts, establishing a contract with Ukiah Valley Conference Center to provide a facility and food service for the workshop participants, and final details and logistics for the workshop. The workshop was videotaped by 5C Staff and will be published in the future, if funds are available for editing and distribution.

Planning activities included preparation of a list of lodging options in Ukiah, preparation of a registration form, finalization of a budget, correspondence with presenters and potential attendees, posting information on the 5C website and updating as necessary, and preparing contract amendments for workshop speakers.

There were a total of 56 participants in the workshop including speakers and facilitators. The workshop consisted of two full classroom days, with options for the third day of either an all-day field tour, or a ½ day engineering practicum followed by a ½ day field tour.



Fish Passage Design Workshop, Ukiah: Field tour
(Colbeck) 2012

The FPD instructors were Michael Love, P.E., Fish Passage and Aquatic Habitat Engineering, Michael Love & Associates, Inc.; Ross Taylor, Fisheries Biologist, Ross Taylor & Associates; Kozmo Ken Bates, P.E., Fish Passage and Habitat Planning & Design. These instructors covered the design and implementation process including: biological considerations, site surveys and geomorphic assessment, state and federal fish passage design guidance, stream simulation design, grade control techniques, retrofitting existing crossing, contracting and implementation, and monitoring and adaptation. There were also guest speakers

who presented on specific topics to consider when designing a passage structure. These presenters included: Steve Thomas, P.E., Hydraulic Engineer, National Marine Fisheries Service who presented on NOAA Fisheries and CDFW Fish Passage Design Guidance and Project Review Requirements; Sandra Jacobson, USDA Forest Service - Pacific Southwest Research Station who presented on Integrating Terrestrial and Aquatic Organism Passage Considerations: Why they Don't Always Work Together; Damon Goodman, US Fish and Wildlife Service and Stewart Reid, Western Fishes who presented on Unique Biology and Passage Considerations for the Other Anadromous Fish-Pacific Lamprey; Lancaster presented on design and monitoring considerations when planning projects based on lessons learned from past projects.

The field tour portion of the workshop included site visits to six sites. These sites included baffled culverts, open bottomed concrete arches with a roughened channel design, and instream large woody debris projects. Many completed projects were reviewed and discussed during the classroom portion of the workshop. These projects included bridges, multiplate arch culverts, squash pipe culverts, grade control structures and roughened channels.

10. COLLABORATE WITH RESTORATION PARTNERS (TASK 9)

North Coast Integrated Regional Water Management Plan (NCIRWMP) with North Coast Resource Partnership (NCRP)

During the term of this agreement, the NCIRWMP group changed its name to the NCRP. Lancaster and Pérez serve on the Technical Peer Review committee (TPRC) for the (NCRP). The NCRP is a seven-county organization established to coordinate water quantity, quality, reliability funding, training, technical support and outreach for local

governments, tribes, special districts, small water and sewer purveyors and watershed conservation entities in northern California. As TPRC representatives Lancaster and Pérez participated in a TRCP and Policy Review Panel (PRP) meeting in Yreka on July 19th, 2012.

Perez participated in the creation and development of a series of critical policy guidelines to assist the TPRP and Policy Review Plan (PRP) during the review of grant application criteria, ranking matrix scoring processes and modifying the transparency of TRP grant review processes. This included conference calls on Sep 7th and 10th, 2012 with the TPRC ad hoc group to examine the project review and selection process. These changes were done in advance of the release of Requests for Proposals (RFP) for \$5.5 million in Prop. 84 grant funding in November 2012.

Lancaster attended a joint TPRC/PRP meeting in Eureka on October 18, 2012 and a Prop. 84 grant RFP workshop for water quality, conservation and infrastructure proposals on November 15, 2012 in Weaverville. 5C staff conducted outreach to Trinity County water and sewer providers and encouraged them to attend the November 15th NCIRWMP Technical Meeting and to be aware of the grant cycle. In December 2012, Lancaster and Perez reviewed 41 proposals totaling \$25 million submitted to the NCIRWMP. Lancaster participated in the TPRC review meeting of the proposals to rank them for funding on January 9 and 10, 2013. Approximately \$2 million of funding was recommended to be directed to water conservation projects, which are available on the NCRP website.

Other areas of discussion during NCRP, PRP and TPRC meetings included: discussions on bond funded projects; Prop 84 safe drinking water funding; inclusion of tribal representatives; NCIRWM protocols and Plan – particularly the project review and selection process; legislative and funding updates; and relevant current water quality and/or water plan documents.

California Coho Recovery Strategy Team

Lancaster is a member of the CA Coho Recovery Strategy Team (CRT) participating in numerous items of the Recovery Strategy as part of the team as well as attending CRT meetings on June 12 and 13, 2012 (Sacramento), November 26, 2012 (Sacramento), and February 14, 2013 (conference call).

Discussions during the CRT meetings focused on efforts in the Shasta River and Mattole River, woody debris, beavers in restoration, federal Recovery Plan status and working group updates. A copy of the agenda is included as Attachment A.

CA Fish Passage Forum/National Fish Habitat Action Plan

Lancaster is a member of the Fish Passage Forum (FPF) and Pérez is the alternate. Lancaster serves on several subcommittees as well. Lancaster participated in the following FPF and Subcommittee meetings: April 26, 2012 (Forum meeting in Davis-Pérez attended as well); May 14, 2012 (Prioritization Sub-committee conference call); June 20, 2012 (Education and Outreach Sub-committee conference); July 23, 2012 (Forum meeting in Arcata); September 21, 2012 (Engineering Working Group conference call); November 27, 2012 (Forum meeting in Davis); and January 22, 2013 (Engineering Working Group conference call).

These FPF efforts focused on barrier site ranking criteria, outreach development, permit streamlining, NFHAP participation, website development, a Forum coordinator, and alternates from participating member organizations. The Education and Outreach conference call focused on updating the Forum brochure, logo, website, and partner trainings. The Engineering working group discussed their purpose and role within the FPF, developed a prioritized work plan, and discussed when project issues extend beyond engineering scope of review.

California Board of Forestry Section "V" Technical Advisory Committee

Lancaster is a member of the CA Board of Forestry's Section "V" Forest Practice Act Technical Advisory Committee (VTAC). The VTAC was charged with developing a "Site Specific Riparian Zone Management: Section V Guidance Document" to implement new anadromous salmonid restoration incentives within the CA Forest Practice Act. During the reporting period he attended six VTAC meetings in Willows and Weaverville. Via conference call, Lancaster reviewed and contributed to the writing of the Guidance Document including a description of Fire Effects section. Lancaster coordinated the field and regular meeting held in Weaverville. The Section V document includes recommendations to address off-site restoration needs as well as those found within a timber harvest plan area and to enhance cumulative effects analysis and better guide the use of restoration incentives within watersheds. The VTAC completed the Guidance Document and transmittal letter on March 4th, 2013. Agendas for each meeting are attached.

Trinity River Restoration Program- Watershed Council, Watershed Working Group and Trinity River Management Council

5C Program staff members are participants in the Trinity River Watershed Council which primarily coordinates restoration community efforts in the middle reach of the Trinity River. Other non-profit and local restoration community members of the Council include the Trinity County RCD, Watershed Center, NRCS, BLM, and US Forest Service. The Watershed Council members annually propose between \$200,000-\$1 million of potential restoration projects to the TRRP for the portion of the Trinity River watershed between Lewiston Dam and the North Fork Trinity River. The Working Group members cooperate in identifying priority restoration needs.

In addition to the Watershed Council, the 5C interacts with the Trinity River Watershed Working Group which includes the BLM, US Forest Service, NRCS, Hoopa and Yurok Tribes, CA Fish and Wildlife, DWR, and the Trinity Public Utilities District. In 2012 the 5C Program became an advisory member of the Watershed Workgroup. The Trinity Management Council is the voting entity that approves all TRRP grant funding. The Working Group and Management Council are formally appointed committees of the US Bureau of Reclamation. On January 4, 2012 Lancaster attended the TMC meeting on watershed assessment needs.

SRF Coho Confab, Coastal Off-channel and Tidal Habitat Restoration Symposium, and Annual Conference

Pérez coordinated with the Salmonid Restoration Federation (SRF) on planning for the Coastal Off-Channel and Tidal Habitat Restoration Symposium (previously titled Humboldt Bay National Wildlife Refuge Symposium) on restoration. It was agreed in coordination with the CDFG grant manager that the symposium would also feature work in the Klamath River basin. The Salmonid Restoration Federation, subcontracted to

organize the event, worked with several agency and watershed group representatives to develop an agenda. The event was held Nov 15-16th in Eureka.

5C staff coordinated with SRF on workshop session ideas for the Coho Confab and Chinook Symposium to be held in the Trinity River in mid-August. Pérez coordinated on an urban stream tour with USFS staff and Lancaster lead a tour of migration barrier sites constructed between 2000-2011.

Lancaster facilitated a session at the SRF conference in Fortuna on March 15, 2013 and presented on two topics: *Climate, Cumulative Effects and Conditions to Counter Them* and *Can Shifting State Funds Become a Catalyst for Greater Conservation?*

University of CA Cooperative Extension Rural Roads Webinar

Lancaster participated as a presenter in the Rural Roads Webinar hosted by the University of CA Cooperative Extension on May 7, 2012 and May 21, 2012. The entire 15 webinar presentations were converted to a DVD box set as a learning tool under this grant and will be used in the future at Roads Workshops.

Public Outreach and Collaboration:

5C staff regularly collaborates with watershed coordinators, groups, and the public on conservation and restoration. Aside from the ongoing and/or regular interactions such as participation in the Trinity River Watershed Council (TRWC), others are more specific or unique. These interactions have included coordination with:

- Lancaster gave a presentation on the 5C Program to the Board of Forestry in Sacramento on Apr 3rd. Approximately 45-50 persons present representing timber, environmental, agency and general public interests attended. An agenda is included as Attachment A.
- Pérez participated in a webinar for the Applied Solutions Technical Advisory Council on April 4th, 2012. Local government, national laboratory staff, and other stakeholders discussed strategies for energy, water, transportation, and land use issues.
- Lancaster and Pérez renewed their archaeology certifications through CalFire at a refresher course on April 25th in Sacramento. The recertification allows them to provide field investigation and reporting of historic resources encountered on projects within the scope of the CA Forest Practice Act.
- Lancaster participated in a Board of Forestry (BOF) Forest Practice Committee workshop on proposed Road Rules, 2012 on May 24th. An agenda is included as Attachment A.
- On Sep 12th, 2012 Lancaster met with Deborah Giraud on West End Road (Humboldt County) to review a private road for sediment and drainage improvement opportunities. The review indicated that substantial changes in road grade and culvert installation would be needed and the costs were in excess to the amount of sediment coming off the road. In addition drainage issues were primarily impacting paved surface conditions.

- Pérez participated in a web mapping webinar through TechSoup on Sep 13th, 2012. The information presented may be used to develop the 5C website's project and GIS data content and presentation.
- Lancaster prepared and presented a presentation on Weaver Creek fisheries and water issues to the Weaverville Rotary Club on October 16th as part of that organizations community awareness program.
- Lancaster participated in a conference call concerning identification of project ready restoration projects in Trinity County following the visit from US Secretary of Agriculture Tom Vilsack. Others participating in the call included representatives of the US Forest Service, NRCS, BLM, Trinity County RCD, and the Watershed Center. Several restoration projects were identified as being potentially suitable for funding consideration in the federal 2013-14 Agriculture Department budget.
- Lancaster and Lindstrand worked with the US Forest Service, the River Bend Road Association, landowners and others to design and submit grant proposals to remove a migration barrier on Sharber Creek in the Salyer area of the Trinity River. Numerous conference calls, email discussions and follow up resulted in three grants being prepared to address the site. The restoration of Sharber Creek is a recovery action in the SONCC Recovery Plan.
- Pérez provided copies of the 2009 Trinity River Water Resource Assessment report to the Hoopa Tribe regarding watershed of origin water needs for the Trinity River.
- Lancaster and Lindstrand discovered illegal mining that substantially degraded ~300' to fisheries habitat in West Weaver Creek and worked with CDFW Warden Straatmann to cite one operator. Lancaster, Straatmann and CDFW biologist Kate Grossman reviewed restoration options of the banks. No restoration action has resulted yet from these efforts. Lancaster discovered a second illegal mining operation in East Weaver Creek which was degrading habitat. Again Warden Straatman cited the individual.
- 5C staff provided information on past restoration projects funded through the Trinity County Resource Advisory Committee.
- 5C staff coordinated an opportunity to obtain cedar tree seedlings at low or no cost from a local timber company. Unfortunately, there was insufficient storage for the seedlings for the timeframe prior to planting.



Illegal mining in West Weaver Creek (Lancaster) 2012

- Pérez and Lancaster assisted the Watershed Research & Training Center in developing a wetlands restoration plan for wetlands near Hayfork Creek, a tributary to the South Fork Trinity River.

PRIVATE LANDOWNER OUTREACH: (TASK 10)

General inquiries and specific project development with private landowners are also addressed on a regular basis. Some of the revisions to the 5C website have included changes designed to make salmon and watershed information more user friendly and accessible. Outreach is an important aspect of the 5C Program. Staff coordinated with local and regional groups on educational and training events.

BEAVER MANAGEMENT BMPs WORKSHOP

Mike Callahan (Beaver Solutions, Inc.) was contracted to coordinate and present at a Beaver Management BMP’s Workshop in Douglas City. Outreach in the local community included an article in the Trinity Journal, flyers and notices to riparian landowners.



Beaver Management Workshop 2013 (Colbeck)

The workshop was held on Saturday February 9, 2013 at the Douglas City Volunteer Fire Department from 10am-4pm. There were 33 workshop participants including individuals from public agencies, non-profits and community members. Mike Callahan provided a PowerPoint presentation on beaver history, habitat, behavior, and identified challenges associated with beaver activity and man-made infrastructure. He provided in-depth solutions for protecting culverts, roads, trees, and private property. A handout highlighting the assembly, materials, and costs associated with his techniques was distributed to all workshop participants.

Bob Schaefer, Department of Fish & Wildlife biologist, spoke on the California state rules and regulations regarding beaver trapping, removal, and relocating. He spoke of specific experiences impacting roads, ranchers, and wildlife in Siskiyou County.



Beaver Management Workshop Field Tour 2013 (Colbeck)

The group toured a nearby site with recent beaver activity. Discussion topics included assessing the site, identifying why the beavers would choose such a location, what techniques would have protected

private lands and prevented trees from being harvested, and how motorists on the adjacent highway were impacted.

Roads personnel and ranchers shared their personal experiences with beavers and what techniques were successful and those that failed. Wildlife biologists expressed interest in

upcoming research that will improve existing techniques for fish passage success. A copy of the agenda and participant sign-in sheet is included as Attachment A.

WATER CONSERVATION WORKSHOP

A water conservation workshop was held in Weaverville on March 23, 2013. The workshop featured both a private landowner's rooftop rainwater collection system in Lewiston and a presentation by Bushman Rainwater Systems representatives. A pamphlet was developed as well as posters to show people how to estimate rainwater capture volumes. A newspaper article announcing the workshop was published in the Trinity Journal on March 16th, 2013. Turnout to the workshop was very low (8 people total), however the interpretative material developed for it will be used throughout the summer and fall to demonstrate water conservation opportunities.

11. 5C WEBSITE (TASK 11):

Sue Rhodes, the Accounts Clerk, continues to perform website updates and maintains the website (www.5counties.org). She adds fish passage improvement, sediment reduction, and urban stream restoration projects within the 5C region as they are completed; other current 5C activities and events including e-newsletter; and links to public agencies and other websites with critical information for salmonid habitat conservation

Pérez participated in a web mapping webinar through TechSoup on Sep 13th, 2012. The information presented may be used to develop the 5C website's project and GIS data content and presentation.

12. PROGRAM COSTS & MATCHING FUNDING

The total expenditures for the project from all sources totaled \$795,427. Of that total, 55.44% (\$440,970) came from matching sources as shown in the table below. Matching sources primarily consisted of engineering or design work for sediment reduction, urban stream, and fish passage projects.

Grant Line Items	Grant Funds	TOTAL MATCH	CA Coastal Conservancy	NOAA Open Rivers	USFS - RAC	Trinity River Watershed Restoration	NACO	Member Counties project cash	USFWS	5C Member Counties - in-kind	State staff time in-kind	Federal staff time in-kind	Private in-kind	Applicant
PERSONAL SERVICES		Type	State	Federal	Federal	Federal	Federal	Local	Federal	Local	State	Federal	Private	Applicant
Program Director	\$44,784	\$27,261	\$11,402	\$1,040	\$2,574	\$4,612	\$2,129	\$5,456	\$0	\$0	\$0	\$0	\$0	\$50
Benefits @	\$13,883	\$13,916	\$5,753	\$528	\$1,309	\$2,346	\$1,089	\$2,867	\$0	\$0	\$0	\$0	\$0	\$26
Program Manager	\$51,776	\$7,468	\$1,567	\$0	\$0	\$4,651	\$0	\$1,228	\$0	\$0	\$0	\$0	\$0	\$23
Benefits @	\$16,051	\$4,478	\$942	\$0	\$0	\$2,774	\$0	\$749	\$0	\$0	\$0	\$0	\$0	\$13
Program Assistant Manager	\$17,765	\$6,441	\$2,426	\$0	\$152	\$1,245	\$0	\$2,618	\$0	\$0	\$0	\$0	\$0	\$0
Benefits @	\$5,507	\$2,186	\$606	\$0	\$20	\$167	\$0	\$1,393	\$0	\$0	\$0	\$0	\$0	\$0
Project Manager/Coordinator	\$16,386	\$17,272	\$7,025	\$0	\$151	\$6,294	\$0	\$2,077	\$1,726	\$0	\$0	\$0	\$0	\$0
Benefits @	\$5,080	\$9,685	\$4,003	\$0	\$88	\$3,688	\$0	\$1,132	\$775	\$0	\$0	\$0	\$0	\$0
Field Technician	\$12,602	\$9,318	\$1,471	\$0	\$0	\$4,881	\$0	\$2,966	\$0	\$0	\$0	\$0	\$0	\$0
Benefits @	\$2,749	\$1,274	\$176	\$0	\$0	\$653	\$0	\$444	\$0	\$0	\$0	\$0	\$0	\$0
Field Aide	\$16,674	\$3,918	\$3,220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$698
Benefits @	\$2,763	\$539	\$451	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$88
Accounts Clerk	\$13,497	\$6,568	\$1,053	\$1,472	\$423	\$2,457	\$441	\$723	\$0	\$0	\$0	\$0	\$0	\$0
Benefits @	\$3,069	\$1,792	\$100	\$270	\$163	\$793	\$47	\$419	\$0	\$0	\$0	\$0	\$0	\$0
Office Manager	\$7,476	\$6,530	\$328	\$2,596	\$682	\$1,853	\$410	\$661	\$0	\$0	\$0	\$0	\$0	\$0
Benefits @	\$2,318	\$4,277	\$221	\$1,710	\$436	\$1,225	\$275	\$411	\$0	\$0	\$0	\$0	\$0	\$0
Program Partners		\$74,720								\$68,280	\$0	\$0	\$0	\$6,440
TOTAL PERSONAL SERVICES	\$232,379	\$197,644	\$40,742	\$7,614	\$5,997	\$37,638	\$4,390	\$23,144	\$2,501	\$68,280	\$0	\$0	\$0	\$7,338

Grant Line Items	Grant Funds	TOTAL MATCH	CA Coastal Conservancy	NOAA Open Rivers	USFS - RAC	Trinity River Watershed Restoration	NACO	Member Counties project cash	USFWS	5C Member Counties - in-kind	State staff time in-kind	Federal staff time in-kind	Private in-kind	Applicant
OPERATING EXPENSES														
Subcontractors														
	\$8,492	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0
Fisheries Biologist														
Professional Services	\$15,803	\$182,290	\$68,150	\$6,482	\$7,011	\$47,843	\$140	\$24,974	\$0	\$27,690	\$0			\$0
Consultants, Road Manual	\$12,468	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,300			\$0
Consultants, Workshop	\$3,698	\$5,160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,200	\$1,320	\$640	\$0
HBNWR Symposium	\$15,580	\$11,682	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$11,682
Workshop Facilities														
Workshop Services & Supplies	\$654	\$1,560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,560	\$0			\$0
Workshop Transportation	\$176	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0
Lodging	\$2,949	\$393	\$0	\$0	\$0	\$0	\$0	\$393	\$0	\$0	\$0			\$0
Per Diem	\$720	\$204	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$144	\$0			\$60
Transportation, mileage	\$4,169	\$4,817	\$831	\$154	\$9	\$40	\$0	\$1,349	\$30	\$1,687	\$0			\$718
TOTAL OPERATING EXPENSES	\$83,154	\$207,407	\$68,980	\$6,636	\$7,020	\$47,883	\$140	\$26,715	\$30	\$31,082	\$4,500	\$1,320	\$640	\$12,460
SUBTOTAL	\$315,533	\$405,051	\$109,722	\$14,250	\$13,017	\$85,522	\$4,530	\$49,859	\$2,531	\$99,362	\$4,500	\$1,320	\$640	\$19,798
ADMINISTRATIVE OVERHEAD	\$38,924	\$35,919	\$6,122	\$18,212	\$971	\$6,664	\$22	\$1,167	\$2,137	\$509	\$0	\$0	\$0	\$117
TOTAL	\$354,457	\$440,970	\$115,844	\$32,462	\$13,988	\$92,185	\$4,552	\$51,026	\$4,668	\$99,871	\$4,500	\$1,320	\$640	\$19,915

Match Source List:

- CA Coastal Conservancy grant: Project planning, engineering, and design work for various restoration projects – primarily fish passage with some habitat improvement and sediment reduction. (Contract 08090 & 05114)
- NOAA Open Rivers Initiative: Planning, design, and monitoring for the Ryan Creek fish passage project. (Contract 30221)
- USFS Resources Advisory Committee funding for sediment reduction and fish passage project design, permitting, and planning. (Contracts 00077, & 000049)
- National Associations of Counties (NACo) funding for fish passage project design, permitting, planning and implementation.
- Trinity River Restoration Program Watershed Restoration: Planning for road inventories on private land, Urban Stream Restoration Project planning, design, and monitoring, and sediment reduction project planning and oversight. (Contracts BRN77, SIDG1, & 20077)
- Member Counties: Mendocino & Trinity cash agreements for planning, design, and CEQA analysis for various road projects. (Contracts FRRM & 10039) Also, a small portion of money collectively contributed by member counties to help support 5C Program daily activities.
- 5C member County: Time, travel, and other in-kind services provided during participation in 5C Program steering committee meetings, Program prioritizations, project development and engineering meetings, 5C Reassessment, and 5C workshops (Roads, Road Manual BMP). (in-kind)
- Applicant: RC&D Council members' time spent meeting on 5C specific work and Program activities as well as staff hours worked without reimbursement. (in-kind)
- Non-5C Program in-kind from Partners: Time and travel for workshops and meetings. Also includes engineering in-kind for the Ryan Creek Caltrans projects that 5C helped to coordinate and provided data for. (in-kind)

13. SUMMARY

Since the founding of the Five Counties Salmonid Conservation Program nearly sixteen years ago in response to the listing of the coho salmon as a federally threatened species, the counties of Del Norte, Humboldt, Mendocino, Siskiyou, and Trinity have benefited from partnerships the Program has fostered. The Program's objectives are to use education, incentives and restoration projects to maintain, protect and enhance water quality and fisheries habitat. This is done by helping to change the way people interact with their environment, facilitating designs, developing grant fund sources, assisting counties with permit and environmental analysis needs, construction supervision of habitat restoration projects, inventory of road drainage patterns to identify opportunities to restore slope hydrology and reduce erosion, replace high priority fish migration barriers and/or to

enhance floodplain and riparian functions using bio-engineering and other techniques.

Activities and efforts conducted under this contract represent some of the most vital work the 5C Program conducts despite the fact that direct on the ground restoration is not included. Through this contract period, the Program has advanced dozens of projects by facilitating the work of county staff, collaborating with funding partners, agencies, landowners, and conservation organizations and project partners. This work allows the 5C Program to remain vibrant and dynamic through the examination of Program goals and objectives and continued development of Program work elements. Additionally, new opportunities for restoration often arise out of work and outreach done under the tasks described above. What distinguishes the 5C Program from a consultant performing on-the-ground restoration is that it actively engages member county staff, agencies, and partner organizations on a consistent basis beyond specific projects. This facilitates the refinement and/or development of local and regional restoration priorities, pooling of resources, and identification of new restoration opportunities. This contract has allowed 5C staff to:

- Pursue new funding partnerships and agreements totaling \$426,165 to ensure ongoing restoration projects may be completed (see task 10);
- provide member counties with expertise and resources to progress on migration barrier and sediment project designs without which construction would be delayed or not pursued (see Task 2);
- continue education and training for: a) member county staff on road maintenance and restoration issues (see Tasks 6 & 7); and b) member county staff, restorationists, and other interested parties on road related sedimentation (see Task 8 & 9);
- pursue programmatic regulatory coverage of 5C products (see Task 2);
- monitor 5C Program projects, practices, and activities to ensure work remains consistent with goals and objectives (see Tasks 4);
- engage decision makers and county planners in current land use issues, water resources, and other topics of local concern. 5C staff also help develop tools to facilitate better land use planning (see Task 5);
- evaluate and develop priority sediment source and migration barrier sites and pursue funding (see Task 3);
- sustain relationships with Program member counties, partner agencies, restorationists and others to facilitate numerous collaborative efforts including local resource protection, Fish Passage Forum efforts, and data sharing (see Tasks 1, 2, and 9); and
- Continue developing and updating the Program website to foster information sharing and public involvement.

These activities addressed multiple priorities within and beyond the 5C Program to the benefit of anadromous salmonids, water quality, and stream habitat.

Habitat Projects (all) metrics

The 5C and member county efforts have been recognized in the *Recovery Strategy for California Coho Salmon*.

The following tasks within the *Recovery Strategy for California Coho Salmon* have been addressed via work in this contract:

- *RW-XXX-E-01 - Continue to implement FishNet, 4C and Five County Salmon Restoration goals, including adopting and implementing written Operations and Maintenance Guidelines, training staff on guidelines, addressing fish passage and road sedimentation issues, developing riparian protections, promoting alternatives to conventional bank stabilization, and developing land use policies favorable for coho salmon.*
- *RW-III-A-01 - Continue and complete assessments and prioritizations for correction of fish passage barriers.*
- *RW-III-C-01 - Encourage funding authorities to allocate adequate resources to construct new crossings and upgrade existing crossings (bridges, culvert and fills, other crossings) within the range of coho salmon to accommodate 100-year flows and associated bedload and debris. Priority for upgrading should be based upon the potential impact to coho salmon habitat.*
- *RW-III-C-06 - Encourage funding authorities to allocate adequate budgets to Federal, State, and local agencies for fish passage projects. This includes, but is not limited to, funding for road maintenance programs and capital project activities.*
- *RW-XXV-B-07 - Develop and implement county, city, and landowner initiatives to expand inadequate stream buffers and protect riparian and wetland habitat for coho salmon recovery.*
- *RW-XXVIII-B-01 - Support local governments, interested parties, and property owners in the development of incentives for landowners who participate in activities that exceed legal requirements or timelines to protect and/or restore coho salmon habitat and watershed processes.*
- *RW-I-D-03 Provide conservation incentives to minimize negative effects of water drafting for roads and fire suppression.*
- *RW-VI-A-02 Identify and prioritize specific sediment source locations for treatment that may deliver sediment to coho salmon streams. Encourage the use of protocols, such as the California Stream Habitat Restoration Manual Guidelines. Work with others to educate and provide technical assistance to landowners to implement upgrades.*

Many high priority tasks in relevant watersheds outlined in the Recovery Strategy are also addressed. The project has also conducted fish presence-absence and spawning surveys in several streams. Refer to Tasks 2 & 4 above for details. It is estimated that dozens of stream miles within the project region were affected by this program. Because of the nature of the program (e.g., capacity building, roads maintenance practice training, monitoring), it is hard to estimate a precise number. Any stream in which road departments have applied Roads Manual BMPs or techniques demonstrated at the roads workshop were affected by the project.

The following is a more quantitative summary of results according to CDFG FRGP metrics for Watershed & Regional Organization (OR, PI):

- Number of public meetings and the description of meeting format:
18 meetings geared toward or open to the public. Typical formats included sit-down meetings and conference calls for regional restoration groups, committees and non-profits; state and local government meetings/hearings; and natural resource based festivals.
- Number of public meeting attendees and their relationship to the watershed (e.g. landowners, local agencies, etc.):
Approximately 376 attendees including: local watershed residents and landowners; restorationists; state, local, and tribal government representatives and staff; consultants; and regulators.
- Number of landowners reached by project and a description of how landowners will/are contacted:
Due to the nature of some of the outreach events, it is difficult to assess whether attendees are landowners or residents. However, conservative estimates of these events indicate that approximately 100 or more landowners were reached. Event contact methods included public advertising (flyers, newspaper and government meeting notices), web postings, email, local media, and word of mouth.
- Need for organization and how it will enhance other efforts within the local and regional area:
Limited staff inhibits counties' ability to respond to landowner inquiries and requests for help on natural resource related efforts. The 5C has been able to fill some of that need by providing information and resources to interested landowners. The 5C is able to provide funding for design or monitoring for efforts that have scarce funding but yield benefits to high priority projects (e.g. spawning surveys on restored creek segments). Staff is also able to provide valuable information and data on salmon, watersheds, water quality, and wildlife habitat to decision makers at public hearings for various local and regional issues.

There have been new efforts within the region in many areas such as private road sediment inventories and FPF project ranking criteria and approach where 5C products and staff experience have proved to be invaluable, time saving contributions. The 5C also provides the

perspective of counties in critical recovery efforts (e.g. CRS). Some of the 5C mainstay efforts such as Roads Workshops and Roads Manual BMP trainings provide critical education and training to road department staff specific to salmon and water quality that they would not otherwise receive. This translates to improved resource management.

As county road departments encounter difficulties moving projects forward due to federal environmental regulation, 5C staff has stepped in to help facilitate the development of permit materials in order to advance projects. There have been several projects where 5C staff have been asked to participate in order to progress restoration efforts through the permitting and design phase. Additionally, in many cases 5C mediation and participation have enabled projects that were stalled to advance.

- Description of education/outreach about watershed and salmonid issues:
25 publications or media were completed and distributed on a large scale to hundreds of people: a summary of 5C Road Manual BMP implementation in each county; 8 articles published on 5C activities; and one interview given by the 5C staff on a live radio segment. However, over 600 people participated in 5C educational outreach through 5C and third party sponsored events (e.g., trainings, salmon festivals, public hearings on natural resources issues) where dozens of media and handouts were distributed.
- Number and description of any planning or implementation projects that will be developed and a description of how they will be accomplished under the project or promoted by the project:
Seven restoration projects (HU, PL, FP, HB, & MO project types). Under this contract, a private road inventory, two sediment reduction implementation, two instream barrier modifications, two feasibility studies, five restoration project designs, and one monitoring project were developed. Two of the sediment reduction projects on Dutch Creek and China Gulch Rd and both of the instream barrier modification at Conner Creek and the Ryan Creek barrier modification were completed within the timeframe of this contract. Project proposals were developed for the rest of the projects, five of which have been funded.
- Number of plans/designs for restoration/conservation actions developed as a result of this project:
A minimum of 4. Additional projects may result from these efforts.
- Acres of land affected by landowner plans/designs for restoration/conservation actions:
A minimum of an acre. Additional downstream areas would also benefit.
- Dollar amount of donations made to restoration/conservation activities as a result of this project:
None. The 5C does not solicit donations.

- Number of volunteers committed to restoration/conservation activities as a result of this project:
 - 1 volunteer for the 5C Program arose out of this project.
- If the project results in habitat protection or restoration actions:
 - Number of restoration projects proposed: Four completed
 - Type(s) of treatments applied, using the list of FRGP Proposal Project Types in the Solicitation: HU & HB
 - Acres of salmonid habitat protected/restored: 1.7
 - Number of watersheds protected/restored: 4; and
 - Dollar value of habitat treatments applied: not applicable

The California Department of Fish and Wildlife Fisheries Restoration Grant Program is a valued funder and partner of the Five Counties Salmonid Conservation Program. Thank you to the CDFW staff for your support of this program and your continuing commitment to the natural resources of our region.

ATTACHMENTS

- A Meeting agendas and notes
- B Updated 5C Migration Barrier Project Progress Matrix

Attachment A

MEETINGS:

1. BOARD OF SUPERVISOR MEETINGS (BOS)
 - Siskiyou BoS..... 10/4/2011
 - Del Norte BoS 12/13/2011
 - Trinity BoS 1/4/2012
 - Siskiyou BoS 1/17/2012
 - Mendocino BoS 1/24/2012
 - Trinity BoS 5/1/2012
 - Trinity BoS 10/2/2012
 - Trinity BoS 10/3/2012

2. RESOURCE CONSERVATION AND DEVELOPMENT COUNCIL BOARD MEETINGS
 - Video Conference 1/16/12
 - Video Conference 3/21/12
 - Weaverville 7/11/12
 - Arcata 9/12/12

3. VTAC MEETINGS
 - Willows 8/12/2011
 - Willows 9/9/2011
 - Willows 2/3/2012
 - Conference Call 5/4/2012
 - Weaverville 6/25 & 26/2012
 - Willows 10/29/2012

4. NCIRWMP MEETINGS
 - Weaverville 7/21/2011
 - Yreka 7/19/2012
 - Eureka 10/18/2012
 - Weaverville 11/15/2012
 - Tech Review of Grants 1/9 and 10/2013

5. FISH PASSAGE FORUM
 - Davis 4/26/12
 - Conference Call 5/14/12
 - Conference Call 6/20/12
 - Conference Call 7/23/12
 - Conference Call 9/21/12
 - Davis 10/27/12
 - Conference Call 1/22/13

6. COHO RECOVERY TEAM

Sacramento	6/12/12
Sacramento	11/26/12
Conference Call	2/14/13
7. TRINITY RIVER RESTORATION PROGRAM- WATERSHED COUNCIL, WATERSHED WORKING GROUP AND TRINITY RIVER MANAGEMENT COUNCIL	
Weaverville	1/4/12
8. RURAL ROADS EDUCATIONAL WEBINAR SERIES	
Remote	4/7, 4/14, 4/21
9. BOARD OF FORESTRY	
Forest Practice Committee Workshop On "Road Rules, 2012" Regulatory Proposal	
Sacramento	5/24/12
10. WORKSHOPS	
SRF Coho Confab	8/17-19
Coastal Off-channel and Tidal Habitat Restoration Symposium Agenda	11/15-16
SRF 31st Annual Salmonid Restoration Conference	3/13-16
Water Conservation Workshop	3/23/2013
Beaver Workshop	2/9/2013
Roads Workshop	10/22-25/2012
Fish Passage Design and Implementation Workshop	2/6-8/2013

Siskiyou County Board of Supervisors, October 4, 2011

**STATE OF CALIFORNIA, COUNTY OF SISKIYOU
BOARD OF SUPERVISORS MINUTES, OCTOBER 4, 2011**

The Honorable Board of Supervisors of Siskiyou County, California, met in regular session this 4th day of October 2011; there being present Supervisors Marcia H. Armstrong, Grace Bennett, Jim Cook, Michael N. Kobseff, and Ed Valenzuela, County Administrator Brian McDermott, Assistant County Administrator Rose Ann Herrick, Personnel Manager Ann Waite, County Counsel Thomas P. Guarino and County Clerk and ex-Officio Clerk of the Board of Supervisors Colleen Setzer by Deputy Wendy Winningham.

The meeting was called to order by Chair Cook. Chair Cook led in the salute to the flag of the United States of America.

BOARD OF SUPERVISORS' REQUESTS - SUPERVISOR MARCIA H. ARMSTRONG -Discussion, direction and possible action re request that Siskiyou County officially withdraw from participation and support of the Five County Salmonid Conservation Program. No action taken.

Supervisor Armstrong provided an overview of the request, advising of the County's history with the Five County Salmonid Conservation Program (5C) and the conservation projects that have been accomplished. Supervisor Armstrong voiced concerns regarding a proposed strategy in the 5C Program Conservation Strategy related to water quantity to assist counties and/or special districts in addressing water availability, water reuse, reclamation and conservation methods. Supervisor Armstrong shared concerns regarding the potential negative impact of coastal counties' policies on Siskiyou County's water and landowners, and requested to no longer represent the County on the 5C.

Public Works Director Scott Sumner voiced support for the benefits the County has gained, including the conservation projects that have been accomplished with the 5C group's assistance.

Natural Resource Policy Specialist Ric Costales voiced support for continued participation in the 5C, advising of the voluntary nature of the program.

5C Director Mark Lancaster advised of the County's 'opt out' option with regard to the 5C participation Memorandum of Understanding (MOU) as well as any provision of the MOU (i.e. specific projects) and advised of the benefits Siskiyou County's participation has provided for the 5C.

In response to Supervisor Armstrong regarding the water quantity strategy, Mr. Lancaster provided an overview of the possible water quantity projects, including developing collection tanks for natural springs/irrigation ditch runoff to utilize for road work and wildfire protection, rooftop storm water collection projects, xeriscape landscaping education and forest transpiration rate projects.

Discussion followed between Supervisor Armstrong and Mr. Lancaster regarding the option for counties to opt out of various provisions of the MOU, possible modification of the Conservation Strategy language with regard to agricultural water in Siskiyou County, the need for public review and Board of Supervisors' approval of changes that may affect the County and its constituents and the 5C's review/approval process for the Conservation Strategy.

Supervisors Bennett, Valenzuela , Kobseff and Cook voiced support for remaining a member of the 5C group.

It was moved by Supervisor Armstrong that Siskiyou County withdraw from participation in the 5 County Salmonid Conservation Program.

Following brief discussion between Supervisor Armstrong and Supervisor Cook regarding the opportunity to review the draft 5C Program Conservation Strategy, Supervisor Armstrong withdrew her motion.

Trinity County Board of Supervisors, January 4, 2012[†]

TRINITY COUNTY
BOARD OF SUPERVISORS
Trinity County Library
Conference Room
Weaverville, CA

MEETING MINUTES
2012-01-04

Chairman
Supervisor Roger Jaegel - District 3
Vice Chairman
Supervisor Debra Chapman - District 4
Supervisor Judy Pflueger - District 1
Supervisor Judy Morris - District 2 - Absent
Supervisor Wendy Otto - District 5
David M. Edmonds - County Administrative Officer
Derek P. Cole - County Counsel
Wendy Tyler - Clerk of the Board/
Deputy County Administrative Officer

Meeting called to order in open session at 9:00 a.m.

Pledge of Allegiance - Supervisor Otto

Announcements - None

Public Comment - Connor Nixon, Pam Donaldson, Katie Quinn

Presentations AM

Clerk of the Board

Transportation

1.02

Mark Lancaster of the Five Counties Salmonid Conservation Program and Richard Harris, consultant address the Board on the 5C Reassessment of Management Practices and Policies for Protecting Anadromous Salmonid Habitat

[†] Truncation of minutes to show relevant references

Siskiyou County Board of Supervisors, January 17, 2012

**STATE OF CALIFORNIA, COUNTY OF SISKIYOU BOARD OF SUPERVISORS
MINUTES, JANUARY 17, 2012**

The Honorable Board of Supervisors of Siskiyou County, California, met in regular session this 17th day of January 20 1 2 ; there being present Supervisors Marcia H. Armstrong, Grace Bennett, Jim Cook, Michael N. Kobseff, and Ed Valenzuela, County Administrator Brian McDermott, Assistant County Administrator Rose Ann Herrick, Deputy County Counsel Brian Morris, County Counsel Thomas P. Guarino and County Clerk and ex - Officio Clerk of the Board of Supervisors Colleen Setzer by Deputy Wendy Winningham.

NATURAL RESOURCE POLICY SPECIALIST -Discussion, direction and possible action re presentation of the Five County Salmonid Conservation Program reassessment of management practices and policies for protecting anadromous salmonid habitat. Discussion only.

Five County Salmonid Conservation Program (5C) representative Sandra Perez and contractor to the 5C Dr. Richard Harris appeared before the Board.

Ms. Perez provided a powerpoint presentation, including a brief history of the 5C program goals and background, and summarized an inventory of county roads for migration barriers and sediment sources that was completed. Ms. Perez advised that fish passage is a major issue for the program, providing an overview of grant funded projects designed to open up habitat, improve drainage and decrease sediment and the regular training and workshops that are provided to county road departments on the importance of fish beneficial projects.

Dr. Harris continued the powerpoint presentation, summarizing the re - assessment process , Phase 1 conducted in 2008 to review/analyze county policies related Salmonid practices, and Phase 2 to focus on 'on - the - ground' practices for changes since the original assessment in 1997 - 1998. Dr. Harris summarized the assessment process, including a questionnaire for each county to complete, sites selected for field assessment and flood control channel maintenance review. Dr. Harris summarized the findings for Siskiyou County, advising of improvements in controls for non - point source pollution, standard practices which include stream and riparian buffers, restricted floodplain development in land management practices, limited impact of bridge maintenance/ replacement on anadromous fish and improved streambed modification and storm damage repair practices. Dr. Harris advised that the counties have undertaken many fish passage improvement projects and that in some instances hydrologic and fish passage objectives can conflict.

In response to Supervisor Armstrong, Dr. Harris provided an example of a county's negotiations with the National Marine Fisheries Service (NMFS) in order to replace a culvert in a fish bearing stream, with a fish friendly alternative being the outcome.

Discussion followed between members of the Board, Dr. Harris , Public Works Director Scott Sumner and Natural Resource Policy Specialist Ric Costales regarding the efforts to take human safety versus fish passage into consideration when maintaining/replacing water diversion structures (i.e. culverts) , the Road Department's efforts to keep fish passage in mind when

maintaining/repair roads and bridges and the complicated/difficult processes related to the regulatory process concerning fish needs.

Dr. Harris summarized recommendations related to land development, bridges, streambank stabilization, fish passage and stream crossing, emergency projects and road maintenance/management and recommended that each county review the recommendations for their own priorities.

Further discussion followed including regarding the potential impact of unregulated/unauthorized grading (i.e. marijuana groves, driveways, unpermitted roads), the issues related to the TMDL attainment/process and the 5C's efforts to pursue related regulatory relief , the Road Department's documentation/monitoring process related to annual road and streambank work and the need to relay the 5C's re assessment recommendations and executive summary to members of the legislature.

Del Norte County Board of Supervisors, December 13, 2012[‡]



A G E N D A
BOARD OF SUPERVISORS
DEL NORTE COUNTY
STATE OF CALIFORNIA
981 H STREET, ROOM 100

CRESCENT CITY, CA 95531

REGULAR MEETING

TUESDAY, DECEMBER 13, 2011

10:00 AM

*The Board of Supervisors of the County of Del Norte and the governing body of all other special assessment and taxing districts, for which said Board so acts, is now meeting in regular session. Only those items that indicate a specific time will be heard at the assigned time. All other items may be taken out of sequence to accommodate the public and staff availability. Items followed with a ** indicate material attached in the agenda packet.*

A closed session may be held at some time during the meeting to discuss litigation and/or personnel matters. There is a 90-day statute of limitations relating to decisions rendered after a public hearing of the Board of Supervisors and a 60-day statute of limitations relating to ministerial actions of the Board of Supervisors. NOTE: If you challenge the decision of the Board of Supervisors in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in the notice, or in written correspondence delivered to the Board of Supervisors at, or prior to, the public hearing. (Govt. Code § 65009). When providing written correspondence to the Board of Supervisors you must provide a copy to the Clerk of the Board for inclusion in the official record.

Present: Leslie McNamer, Martha McClure, Michael Sullivan, Gerry Hemmingsen and David Finigan

Absent: None

CLOSED SESSION 8:30 A.M.

Public Comment on Closed Session items only.

Hold a closed session to consider and discuss litigation and personnel matters: I) Personnel negotiations pursuant to Government Code 54957.6 between County negotiator the County Administrative Officer and the Del Norte County Employees' Association, Sheriffs Employees' Association, represented and unrepresented bargaining units. II) Conference with legal counsel – A) Existing litigation pursuant to Government code 54956.9(a); Lorenz v. Del Norte County, CVUJ 11-1053; Trinity Perry, Del Norte Superior Court, CVPT 11-1304

B) Anticipated litigation: 1) significant exposure to litigation pursuant to Govt' Code 54956.9(b) - two cases; 2) Initiation of litigation Conference with Legal Counsel pursuant to Govt' Code 54956.9(c) - 1 case. Public Employee DISCIPLINE/DISMISSAL/RELEASE (1) Deputy District Attorney (GC 54954.5 and 54957). Pursuant to Gov't Code 54997, conduct annual evaluation of the Director of Information Technology and the Building Maintenance Superintendent. Discussion regarding Real Property Negotiations with the City of Crescent City regarding Sunset Circle.

[‡] Truncation of minutes to show relevant references

ITEM 4: [11:00 A.M. Presentation on the 5 Counties Salmonid Conservation Program \(5C\). ** Document](#)

Action: Mark Lancaster and Sandra Perez gave presentation and outline the following points: 5C Program Goal, Program Background, Fish Passage Improvement, Water Quality and Training, Field Assessment of Management Practices for Protecting Anadromous Salmonid Habitat in Del Norte, Humboldt, Mendocino, Siskiyou, and Trinity Counties; land development, stream bank stabilization, storm damage repair, road maintenance and repair, stream crossings, and emergency projects.

Supervisor McClure made a comment about the destruction from illegal marijuana grows.

Supervisor Hemmingsen asked about projects specifically in the Del Norte area.

Mark Lancaster stated that there were six projects coming in the years 2012 and 2013 including Oregon Mountain Road, and paving on several roads.

Mendocino County Board of Supervisors, January 24, 2012[§]

CARRE BROWN
1st District
Supervisor

JOHN
MCCOWEN
2nd District
Supervisor
Chair

JOHN PINCHES
3rd District
Supervisor

KENDALL
SMITH
4th District
Supervisor

DAN
HAMBURG
5th District
Supervisor
Vice-Chair

CARMEL J. ANGELO
Chief Executive Officer/
Clerk of the Board



JEANINE B. NADEL
County Counsel

COUNTY ADMINISTRATION
CENTER
501 Low Gap Road, Room 1010
Ukiah, CA 95482
(707) 463-4441
Fax (707) 463-5649
cob@co.mendocino.ca.us

MENDOCINO COUNTY BOARD OF SUPERVISORS
AGENDA (AMENDED)
REGULAR MEETING
JANUARY 24, 2012 – 9:00 AM

BOARD CHAMBERS, ROOM 1070, COUNTY ADMINISTRATION CENTER

Following the posting of the Agenda, all agenda item supporting documentation, including any material submitted to the Clerk after distribution of the Agenda packet, is available for public review through the Executive Office, 501 Low Gap Road, Room 1010, Ukiah, CA 95482 during regular business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday.

TRANSPORTATION

(f) Presentation of the Phase 2 Report - Field Assessment of Management Practices, Policies and Procedures for Protecting Anadromous Salmonid Habitat in the Five Counties Salmonid Conservation Program (5C) Region (Countywide)

Recommended Action/Motion: None. This is an informational item only.

[§] Truncation of minutes to show relevant references

TRINITY COUNTY
BOARD OF SUPERVISORS
Trinity County Library
Conference Room
Weaverville, CA

MEETING MINUTES**
2012-05-01

Chairman
Supervisor Roger Jaegel - District 3
Vice Chairman
Supervisor Debra Chapman - District 4
Supervisor Judy Pflueger - District 1
Supervisor Judy Morris - District 2 - Absent
Supervisor Wendy Otto - District 5
Wendy Tyler - County Administrative Officer/Clerk of the Board
Derek P. Cole - County Counsel

Meeting called to order in open session at 9:00 a.m.

Pledge of Allegiance - Supervisor Pflueger

Announcements - Board takes a moment of silence in observance of the passing of former Supervisor

Roger Adrian; Walk through of emergency evacuation procedures

Transportation

2.14

Approves Amendment No. 1 with Northwest California Resource Conservation & Development Council for on-call biological and other resource consulting services to raise fees and maximum cost and extend the termination date

Motion: Otto

Second: Morris

Vote: Morris, Otto, Pflueger, Chapman and Jaegel - AYE

** Truncation of minutes to show relevant references

TRINITY COUNTY
BOARD OF SUPERVISORS
Trinity County Library
Conference Room
Weaverville, CA

MEETING MINUTES^{††}
2012-10-02

Chairman
Supervisor Roger Jaegel - District 3
Vice Chairman
Supervisor Debra Chapman - District 4
Supervisor Judy Pflueger - District 1
Supervisor Judy Morris - District 2 - Absent
Supervisor Wendy Otto - District 5
Wendy Tyler - County Administrative Officer/Clerk of the Board
Derek P. Cole - County Counsel
Suzie White - Administrative Coordinator

Meeting called to order in open session at 9:00 a.m.
Pledge of Allegiance - Supervisor Chapman
Announcements - None

County Matters

Board of Supervisors

6.02

Discussed the proposal to consider further development of collaborative forestry models and appointed Supervisors Jaegel and Morris to the Natural Resources Collaborative Formation Group. Received comments from Alex Cousins with Trinity County Resource Conservation District, Nick Goulette with the Watershed Research and Training Center, Dianna Sheen, Diane Richards, Terry Sheen, Kay Graves, Mark Lancaster, and Joseph Bower.

Motion: Otto
Second: Morris
Carried

^{††} Truncation of minutes to show relevant references

TRINITY COUNTY
BOARD OF SUPERVISORS
Trinity County Library
Conference Room
Weaverville, CA

MEETING MINUTES^{††}
2012-10-03

Chairman
Supervisor Roger Jaegel - District 3
Vice Chairman
Supervisor Debra Chapman - District 4
Supervisor Judy Pflueger - District 1
Supervisor Judy Morris - District 2 - Absent
Supervisor Wendy Otto - District 5
Wendy Tyler - County Administrative Officer/Clerk of the Board
Derek P. Cole - County Counsel ABSENT
Suzie White - Administrative Coordinator

Meeting called to order in open session at 9:00 a.m.
Pledge of Allegiance - Supervisor Otto
Announcements - None
Public Comment - Chris Pryson

County Matters AM

Board of Supervisors

1.01

Received presentations from Tom Stokely and Elizabeth Johnson regarding the proposed Peripheral Tunnel and discussed other water issues.

Directed staff to prepare a resolution to create the ad hoc committee and assign Supervisor Chapman, Supervisor Pflueger, and County Administrative Officer Wendy Tyler to the committee. Also discussed having conversations with Tom Stokely, Arnold Withridge, Liz Johnson and a member from TPUD regarding their participation on the committee.

Received comments from Jim White, Kay Graves, Terry Sheen, Mark Lancaster, Mark Feely, and Tom Stokely.

^{††} Truncation of minutes to show relevant references

**1. RESOURCE CONSERVATION AND DEVELOPMENT COUNCIL BOARD
MEETINGS**

Video Conference.....	1/16/12
Video Conference	3/21/12
Weaverville	7/11/12
Arcata	9/12/12

COUNCIL - Wednesday, January 16, 2012 – 1: 30PM:
Videoconference



*"A Non-Profit Community Development Corporation"
Serving Trinity, Humboldt and Del Norte Counties*

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530-623-3967 Ext. 117
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P. O. Box 2183
#40 Horseshoe Lane
Weaverville, CA 96093-2183

MEETING AGENDA
Videoconference Meeting
Wednesday, January 16, 2012 – 1:30 PM

ANYONE WISHING TO PARTICIPATE IN THE MEETING MAY DO SO AT THE FOLLOWING LOCATIONS:

Del Norte County
Flynn Administration Center
981 H Street, Suite 130
Crescent City

Humboldt County
Humboldt County Courthouse
825 Fifth Street, Room 111
Eureka

Trinity County
Trinity County Office of Education
Main Conference Room
201 Memorial Drive
Weaverville

THE NORTHWEST CALIFORNIA RC&D BOARD OF DIRECTORS MAY TAKE ACTION ON ANY OF THE FOLLOWING AGENDA ITEMS REGARDLESS OF WHETHER THE ITEM IS DESCRIBED AS AN ACTION ITEM, COMMUNICATION, REPORT, OR DISCUSSION ITEM.

- 1.0 Welcome and Introductions.
- 2.0 Review and/or Revise Agenda. * Action.
- 3.0 Review and/or Approve Minutes of Previous Meetings Held July 11, 2012 and September 12, 2012 * Action.
- 4.0 Treasurer's Report – Jerry Hauke. Action.
 - 4.1 Treasurer's Report a/o 6/30/12
 - 4.2 Treasurer's Report a/o 7/31/12
 - 4.3 Open Invoice Report a/o 1/5/2013*
 - 4.4 Accounts Payable Report a/o 1/5/2013*
 - 4.5 Report on 11/01/12 meeting with the Director of Fish and Game. Mark Lancaster. Information.
- 5.0 Correspondence. Review, Discuss and/or Take Action.
No correspondence needing attention.
- 6.0 Ratify the signing of the Following Agreements/Contracts/Grant Proposals.* Action.
Consultant/Contractor and other Documents:
 - 6.1 Memorandum of Mutual Understanding (MOMU) with North Coast Integrated Regional Water Management Plan (NCIRWMP). Presented by Sandra Perez at last meeting and approved. No fiscal impact. Makes the Council eligible to submit proposals to various grant opportunities through the NCIRWMP.
 - 6.2 Agreement between Council and Trinity Lake Resorts at Cedar Stock. Cedar Stock to provide facility to host 5C Roads Workshop from 10/22/12-10/25/12; provide overnight lodging for the duration of the workshop, meals, meeting spaces and equipment and related services needed to facilitate workshop. Amount: Not to exceed \$15,500.00.
 - 6.3 Amendment #2 to Agreement between Council and Victor "Gus" Kormeier. Extends end date of agreement entered into 11/28/2011 to 1/31/2013. No other changes in agreement.

Continued on Reverse

- 6.4 Agreement between Council and Concrete Aggregate Products relative to China Gulch Road Phase II Road Drainage & Sediment Reduction Project. Contractor agrees to install asphalt grindings or base rock as approved by Trinity County Dept. of Transportation on 0.5 miles of China Gulch Road. Term: 10/19/12-12/31/12. Amount: \$18,500.00
- 6.5 Grant Agreement between Council and CA Dept. of Food and Agriculture 2012 Specialty Block Grant for Sustainable Easter Lily Production. Grant provides funding to research generating new plant material that will meet regulatory and economic challenges by eliminating most costly and pesticide intensive 3rd year of lily growth by producing superior commercial sized bulbs in the 2nd year. Collaborators on the project include the Easter Lily Research Foundation, and technical staff from US Dept. of Agriculture and UC Davis. Time frame: 10/1/12-6/30/15. Amount: \$132,220.00
- 6.6 Grant between Council and the Del Norte County Road Department to provide environmental documents relative to Griffin Creek in Del Norte County. Time frame: 5/1/12-3/29/13. Amount: \$42,350.00
- 6.7 Annual Non-Profit Federal and State Tax Report forms filed annually.
- 6.8 Quarterly Accrual reports for USDA/NRCS grants. Reports estimated expenditures through the end of current quarters.
- 6.9 Modification #3 to Grant Agreement between Council and Trinity County RCD for the Dutch Creek Road Sediment Reduction project. Modification #3 extends the end date of the agreement to 9/30/2013. No other changes in the agreement.
- 6.10 Annual California Form RRF-1 – Non-Profit Registration Renewal Report to Attorney General of California. Annual Fee \$150.00
- 6.11 Amendment #3 to Agreement between Council and Michael Love & Associates. Amendment #3 increases the amount of the agreement from \$77,500.00 to \$80,000.00 and extends the end date of the agreement to 12/31/2013.
- 6.12 Grant Agreement between the Council and the Easter Lily Research Foundation for contractor work to be done relative to the Sustainable Easter Lily Production Grant. Time frame: 10/1/12-6/30/14. Amount: \$64,884.00

- 7.0 Proposal to change frequency of NW CA RC&D Meetings to quarterly. Jerry Hauke. Discussion and/or Action.
- 8.0 5C Program Update. Mark Lancaster, 5C Program Director. Information.
- 9.0 Director's Comments. Information.
- 10.0 Public Comments. Information.
- 11.0 The next meeting will be a videoconference meeting at 1:30 PM on March 13, 2013.
- 12.0 Adjourn.

*Items marked with * indicate enclosures in directors' packets for review before scheduled meeting.*

COUNCIL - Wednesday, March 21, 2013 – 1:30PM:



*"A Non-Profit Community Development Corporation"
Serving Trinity, Humboldt and Del Norte Counties*

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P. O. Box 2183
#25 Five Cent Gulch, Bldg. B
Weaverville, CA 96093-2183

MEETING AGENDA
Videoconference Meeting
Wednesday, March 21, 2012 – 1:30 PM

ANYONE WISHING TO PARTICIPATE IN THE MEETING MAY DO SO AT THE FOLLOWING LOCATIONS:

Del Norte County
Flynn Administration Center
981 H Street, Suite 130
Crescent City

Humboldt County
Humboldt County Courthouse
825 Fifth Street, Room 111
Eureka

Trinity County
Trinity County Office of Education
Main Conference Room
201 Memorial Drive
Weaverville

THE NORTHWEST CALIFORNIA RC&D BOARD OF DIRECTORS MAY TAKE ACTION ON ANY OF THE FOLLOWING AGENDA ITEMS REGARDLESS OF WHETHER THE ITEM IS DESCRIBED AS AN ACTION ITEM, COMMUNICATION, REPORT, OR DISCUSSION ITEM.

PLEASE NOTE: THE JANUARY 2012 MEETING WAS CANCELLED ON THE DAY OF THE SCHEDULED MEETING DUE TO BAD WEATHER. DIRECTORS WERE ASKED TO KEEP THEIR AGENDA PACKETS FOR USE AT THE MARCH MEETING. PLEASE REFER TO YOUR JANUARY AGENDA PACKET FOR THOSE AGENDA ITEMS THAT WERE PREVIOUSLY SCHEDULED FOR THE JANUARY MEETING. THOSE ITEMS ARE IDENTIFIED BELOW IN "BLUE" TYPE.

- 1.0 Welcome and Introductions.
- 2.0 Review and/or Revise Agenda. * Action.
- 3.0 Review and/or Approve Minutes of Previous Meeting Held November 30, 2011 * Action.
- 4.0 Treasurer's Report – Jerry Hauke. Action.
 - 4.1 Treasurer's Report a/o September 30, 2011*
 - 4.2 Treasurer's Report a/o October 31, 2011*
 - 4.3 Open Invoice Report a/o January 6, 2012*
 - 4.4 Accounts Payable Report a/o January 6, 2012*
 - 4.5 Treasurer's Report a/o November 30, 2011*
 - 4.6 Treasurer's Report a/o December 31, 2011*
 - 4.7 Open Invoice Report a/o February 29, 2012
 - 4.8 Accounts Payable Report a/o February 29, 2012
- 5.0 Correspondence. Review, Discuss and/or Take Action.
No correspondence needing attention.
- 6.0 Ratify the Signing of the Following Agreements/Contracts/Grant Proposals/Documents.*Action
Consultant/Contractor and other Documents:
 - 6.1 Agreement for Services between the Council and Victor "Gus" Kormeier to provide business consulting and evaluation of Council's financial system. Amount: \$13,000.00
 - 6.2 Amendment to Lease between council and David Hammer for additional 5C office space. Amount: \$200.00 more per month/ New Total: \$800.00
 - 6.3 Agreement for Services between the Council and Green Girl Land Development Solutions relative to storm water designs, tools and educational materials. Amount: \$8,000.00

Continued on Back

- 6.4 Amendment to Agreement between Council and Richard Harris to extend the agreement to 1/31/12 and increase the amount from \$16,500.00 to \$20,246.00
- 6.5 Amendment to Agreement between Council and Geoscience Services to increase amount of the agreement and the scope of work. Original Amount: \$2,500.00 New Amount: \$3,500.00
- 6.6 Agreement for Services between the Council and Mad River Biologists relative to wetland delineation on Eel River Estuary Preserve. Amount: \$5,760.00
- 6.7 Employer's quarterly Federal and State tax returns: Fed. Form 941 & Schedule B (941); State Form DE9 & DE9C; State Form DE24 Change of Account Information. No money due with filings.
- 6.8 Amendment to Grant Agreement w/ Dep. Of Fish & Game #111-DFG FRGP P-09-10312 to re-allocate line items in the budget with no change to total amount of grant.
- 6.9 Agreement for Services between the Council and Kamman Hydrology & Engineering relative to ecosystem restoration, flood hazard reduction planning & feasibility assessments in Humboldt County. Amount: \$ 72,083.00
- 6.91 Jeep Cherokee Pink Slip signed over to Mark Lancaster who is purchasing the vehicle from the Council. Amount: \$750.00

- 7.0 Presentation of Draft Salary Table.* Review, Discuss and/or Take Action. Patrick Truman
- 8.0 Update on 5C Program Activities. Mark Lancaster, Project Director. Information.
- 9.0 Report on Junction City School Garden Project.* Judy Carter, Office Manager. Information.
- 10.0 Director's Comments. Information.
- 11.0 Public Comments. Information.
- 12.0 Announce Date and Location of Next Meeting – Information.
The next meeting will be held on May 9, 2012 at the Rural Human Services Conference Room in Crescent City at 1:00 PM.
- 13.0 Adjourn.

*Items marked with * indicate enclosures in directors' packets for review before scheduled meeting.
Items in "blue" type are carryover items from the cancelled January 2012 meeting.*

COUNCIL - Wednesday, July 11, 2012 – 1: 00PM:



*"A Non-Profit Community Development Corporation"
Serving Trinity, Humboldt and Del Norte Counties*

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#40 Horseshoe Lane
Weaverville, CA 96093-2183

MEETING AGENDA

Wednesday, July 11, 2012 – 1:00 PM

Trinity County Resource Conservation District Conference Room
#6 Horseshoe Lane, Weaverville
(Driving Directions Follow Agenda)

There will be a no-host luncheon prior to the meeting at 11:30 AM at the La Grange Restaurant on Main Street in Historic Weaverville.

THE NORTHWEST CALIFORNIA RC&D BOARD OF DIRECTORS MAY TAKE ACTION ON ANY OF THE FOLLOWING AGENDA ITEMS REGARDLESS OF WHETHER THE ITEM IS DESCRIBED AS AN ACTION ITEM, COMMUNICATION, REPORT, OR DISCUSSION ITEM.

- 1.0 Welcome and Introductions.
- 2.0 Review and/or Revise Agenda.* Action.
- 3.0 Review and/or Approve Minutes of Previous Meeting Held May 9, 2012. * Action.
- 4.0 Treasurer's Report – Jerry Hauke. Action.
 - 4.1 Treasurer's Report a/o March 31, 2012*. Action.
 - 4.2 Treasurer's Report a/o, April 30, 2012*. Action.
 - 4.3 Final Budget Revision 2011-2012 Fiscal Year *. Action.
 - 4.4 Proposed 2012-2013 Fiscal Year Budget. Action. (This document will be emailed and/or distributed at the meeting)
- 5.0 Correspondence. Information.

No correspondence needing attention.
- 6.0 Ratify the signing of the Following Agreements/Contracts/Grant Proposals.* Action.

Grant Proposals /Consultant/Contractor Agreements and other Documents

 - 6.1 Agreement for Services between the Council and William Rich & Assoc. to conduct archaeological surveys. Amount: \$10,000.00
 - 6.2 Amendment #2 to Agreement between the Council and the Trinity Co. RCD for the Lower Sydney Gulch Project extending the end date to 12/31/12. Amount: \$50,000.00 (no change)
 - 6.3 Trinity County Office of Education Facility Use Application and Permit Request. No charge for this permit.
 - 6.4 Alliant Special Liability Insurance 2012-2013 Renewal Application.
 - 6.5 Agreement for Services between the Council and Salmonid Restoration Federation for 2-day symposium highlighting restoration efforts at Humboldt Bay Nat'l Wildlife Refuge & Klamath River Basin. Amount \$15,580.00
 - 6.6 Non-profit Raffle Report on last year's Children's Garden Project Raffle filed with California Attorney General. Amount: No charge.

- 6.7 Application to the California Attorney General for 2012 Raffle Registration for the Children's Garden Project. Permit Fee: \$20.00.
- 6.8 Alliant Property Insurance Application for 2012-2013. Amount: \$658.00 Annual Premium.
- 7.0 Children's Garden Project Report. Information. Desiree Coutinho, Project Coordinator.
- 8.0 Personnel Committee Informational Update and Report. Judy Pflueger. Recommendations/Discussion and/or Action,
- 9.0 5C Program Update. Mark Lancaster, 5C Project Director. Information,
- 10.0 Director's Comments - Information.
- 11.0 Public Comments, Input, and Suggestions.
- 12.0 Announce Date and Location of Next Meeting – Information.
The next meeting will be held on September 12, 2012 at 1 PM at the BLM Conference Room in Arcata.
- 13.0 Adjourn.

*Items marked with * indicate enclosures in directors' packets for review before scheduled meeting.*

Driving Directions to La Grange Restaurant for Lunch

Driving East on Hwy. 299 La Grange Restaurant will be on the right hand side of the highway in the Weaverville Historic District. If you go past the Joss House, you have gone too far.

Driving Directions to Meeting Place

Trinity County Resource Conservation District Conference Room
#6 Horseshoe Lane

From Highway 299 in Weaverville take Highway 3 North. Shortly after you pass the Weaverville Elementary School on your right, there will be a car wash on your left – Horseshoe Lane is on the right directly across from the car wash. The conference room is located in the office complex on your right.

COUNCIL - Wednesday, September 12, 2012 – 1:00PM:

ANNUAL BUSINESS & MEMBERSHIP VIDEO CONFERENCE MEETING MINUTES
Wednesday, September 12, 2012 – 1 PM

Board Attendance: Patrick Truman, NW California RC&D Council President, Trinity County RCD
Jerry Hauke, NW California RC&D Council Treasurer, Director at Large, Trinity Co.
Berry Stewart, NW California RC&D Council Director at Large, Trinity Co.
Gerry Hemmingsen, NW California RC&D Council Director, Del Norte Co. BOS
Ryan Sundberg, NW California RC&D Council Director, Humboldt Co. BOS
Gary Markegard, NW California RC&D Council Director, Humboldt Co. RCD
Deborah Giraud, NW California RC&D Council Vice President, Director at Large,
Humboldt Co., UCCE. Jill Duffy, NW California RC&D Council Director at Large, Humboldt County

Staff: Mark Lancaster, NW California RC&D Council 5C Program Director
Sandra Perez-Rodriguez, NW California RC&D Council 5C Program Manager

Agenda Item 1.0 Welcome and Introductions - Patrick Truman.

Patrick Truman called the meeting to order at 1:08 PM.

Agenda Item 2.0 Review and/or Revise Agenda.

Motion by Jill Duffy, **second by** Gary Markegard to add the audit proposal to the agenda as Agenda Item 4.5 and to move 4.5 before 4.1. **Vote:** UNANIMOUS. **Motion Carried.**

Agenda Item 3.0 Review and/or Approve Minutes of Meeting Held July 11, 2012.

Jerry Hauke explained why the minutes from the July meeting were not available.

Motion by Jill Duffy, **second by** Berry Stewart to continue the minutes to the next meeting. **Vote:** UNANIMOUS. **Motion Carried.**

Agenda Item 4.0 Treasurer's Report - Jerry Hauke. Action.

4.5 Presentation of Proposals for Audit Authorization.

4.1 Treasurer's Report a/o May 31, 2012*

4.2 Open Invoice Report a/o August 31, 2012*

4.3 Accounts Payable Report a/o August 31, 2012

4.4 Proposed 2012-2013 Fiscal Year Budget*

Jerry Hauke presented proposals for audit authorization. Jerry asked for a motion to authorize the Treasurer to enter into an agreement with auditor, not to exceed \$8,000.00, based on bids received and qualifications of applicants.

Motion by Deborah Giraud, **second by** Jill Duffy to authorize the Treasurer to enter into an agreement with auditor not to exceed \$8,000.00. **Vote:** UNANIMOUS. **Motion Carried.**

Jerry Hauke discussed Agenda Item 4.1, the May 31st Balance Sheet.

Jerry Hauke discussed Agenda Item 4.2, the Accounts Receivable Report as of August 31st. Jill Duffy wonders if there are ways to help Judy meet work load and get reports caught up.

Jerry Hauke referred to Agenda Item 4.3 noting there was only one outstanding account payable.

Jerry Hauke referred to Agenda Item 4.4 and discussed the impact of the loss of the Program Grant and the effects on the operations of the overall organization. Patrick Truman indicated that uncertainty of grant programs is the "nature of the game" and we need to continue to look. Mark Lancaster discussed options to work with CDFG. Jill Duffy requested that a budget correction be presented at the next meeting to fund the additional \$5,500.00 for the audit. Jerry Hauke discussed the new budget format with Administrative Fees.

Motion by Jill Duffy, **second by** Berry Stewart to approve Agenda Items 4.1 thru 4.4. **Vote:** UNANIMOUS. **Motion Carried.**

Agenda Item 5.0 Correspondence. Review, Discuss and/or Take Action.

There was no correspondence needing attention.

Agenda Item 6.0 Ratify the Signing of the Following Agreements/Contracts/Grant Proposals/Documents. *

Grant Proposals /Consultant/Contractor Agreements and other Documents

6.1 Amendment #2 to Agreement for Services between the Council and Plumbing Plus Construction. Extends Agreement to 12/31/12.
6.2 Amendment #2 to Agreement for Services between the Council and Michael Love & Assoc. Increases Agreement Amount to \$77,500.00.
6.3 Amendment #1 to Agreement for Services between the Council and Victor Kormeier. Extends end date of Agreement to 8/31/12.
6.4 Amendment #1 to Agreement for Services between the Council and Trinity Co. RCD relative to Lower Sidney Gulch Rehab & Sediment Control. Extends end date of Agreement to 12/31/12.
6.5 MOU with Trinity Co. Children & Families First Commission for implementing & administering the Children's Garden Project. Amount: \$21,912.00 Time Frame: 7/1/12-6/30/13
6.6 Non-Profit Raffle Report filed w/ State Attorney General reporting proceeds from this year's raffle. Amount of Proceeds \$594.00
6.7 Amendment #2 to Agreement for Services between the Council and Prunuske Chatham. Amends the scope of work and Extends the Agreement to 12/31/14.
There was no discussion about Agenda Item 6.1.
Referring to Agenda Item 6.2, Jill Duffy asked why the amount increased but the scope of work did not change. Mark Lancaster and Sandra Perez discussed the reasons why the work within the existing scope increased. There was no discussion regarding Agenda Items 6.3, 6.4, 6.5, 6.6 and 6.7.
Motion by Jill Duffy, **second by** Deborah Giraud to approve Agenda Items 6.1 thru 6.7. **Vote:** UNANIMOUS. **Motion Carried.**

Agenda Item 7.0 Presentation of Memorandum of Mutual Understanding (MOMU) with the North Coast Integrated Regional Water Management Plan (NCIRWMP). Sandra Perez. Discussion and/or Action.

Motion by Jill Duffy, **second by** Berry Stewart to approve the MOMU. **Vote:** UNANIMOUS.
Motion Carried.

NW California RC&D Council Page 2 of 3 Meeting Minutes Sept. 12, 2012

Agenda Item 8.0 Election of Officers for 2012-2013. Action

Nominations: President – Patrick Truman
Vice President – Deborah Giraud
Secretary – Stephen Westbrook
Treasurer – Jerry Hauke

Motion by Berry Stewart, **second by** Gerry Hemmingsen to elect those nominated. **Vote:** UNANIMOUS.
Motion Carried.

Agenda Item 9.0 5C Program Update. Mark Lancaster, Project Director. Information. Mark Lancaster presented the 5C Program Update.

Agenda Item 10.0 Directors Comments. Information

Deborah Giraud - Deborah talked about Western SARES proposal; producers grant due in December, horse erosion boarding facilities waste workshop look for funding sources. Hoopa Rodeo Grounds interest in fair grounds or multiple use could RC&D be lead? Look into CDBG grant sources.

Berry Stewart – Staff reports are good, appreciate the staff work. Need to focus on wildland fire and clean up in the future.

Gerry Hemmingsen – Prefer meeting with Director Bonham sooner rather than later.

Jill Duffy – Talk to NCUAQMD about grants that the RC&D can tap to address fire and fuels. Call Rick Martin.

Patrick Truman - Amendize amendment to bylaws for 4 meetings per year rather than 6.

Agenda Item 11.0 Public Comments.

No public comment.

Agenda Item 12.0 Announce Date and Location of Next Meeting.

Patrick announced the next meeting will be videoconference meeting at 1:30 PM, November 14, 2012.

Agenda Item 13.0 Adjourn.

The meeting was adjourned.

Notes transcribed by Mark Lancaster.

3. Board of Forestry – VTAC

VTAC MEETINGS

Willows	8/12/2011
Willows	9/9/2011
Willows	2/3/2012
Conference Call	5/4/2012
Weaverville	6/25 & 26/2012
Willows	10/29/2012

The VTAC committee was formed in late 2010 and focuses on 1) multiple pilot projects to protect and restore the riparian zone in watersheds with listed anadromous salmonids, (2) recommendations regarding implementation guidelines for riparian projects, and (3) recommendations on guidance document development for riparian management. The 5C Director has participated in the following:

VTAC May 4, 2012

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DEPARTMENT OF FORESTRY AND FIRE PROTECTION

P.O. Box 944246
SACRAMENTO, CA 94244-2460
(916) 653-7772
Website: www.fire.ca.gov

**Anadromous Salmonid Protection Rule Section V
Technical Advisory Committee (VTAC)
Meeting Notice and Agenda
Scheduled for: May 4, 2012**

USFS Mendocino National Forest Supervisors Office
825 N. Humboldt Ave.
Willows, California
North Black Butte/Snow Mountain Conference Rooms

10:00 a.m.

1. Introductions and review/additions to the agenda.
2. Review of an updated version of the VTAC guidance document, including sections on:
 - Executive summary
 - Introduction/goals/background information.
 - Conceptual framework: summary of riparian zone beneficial functions
 - Introduction to analytical pathways
 - Analytical pathways, including matrix, situational scenarios, analytical design
 - Submission requirements
- Proposal processing (CGS, CAL FIRE, DFG, and Regional Water Boards review).
- Monitoring strategies
- Appendices
 3. Update on VTAC on pilot projects.
 4. Summary of the final SBIR Phase II grant proposal submitted by Sound Watershed Consulting.
 5. New/Old business.
 6. Public comment.

THIS AGENDA CONSTITUTES AN ANNOUNCEMENT OF THE MEETING. THE PUBLIC IS INVITED TO ATTEND. The meeting room is accessible to disabled persons. Persons wishing to bring matters to the attention of the Committee may do so under new and unfinished business. Committee staff should be advised of such matters as early as possible.

Note: Those requiring further information regarding this meeting notice may contact Pete Cafferata, Staff Person, California Department of Forestry and Fire Protection, P.O. Box 944246, Sacramento, CA 94244-2460, (916) 653-9455. Pursuant to GC §11125, this meeting notice is also available in electronic format at: http://www.bof.fire.ca.gov/board_committees/vtac/meeting_agendas/. Other documents relevant to these proceedings are also available in electronic format at: <ftp://frap.cdf.ca.gov/pub/incoming/VTAC>.

VTAC February 3, 2012

STATE OF CALIFORNIA NATURAL RESOURCES AGENCY Edmund G. Brown, Jr., *Governor*
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**Anadromous Salmonid Protection Rule Section V Pilot Projects
Technical Advisory Committee (VTAC)
Meeting Notice and Agenda
Scheduled for: February 3, 2012
USFS Mendocino National Forest Supervisors Office
825 N. Humboldt Ave.
Willows, California
North Black Butte/Snow Mountain Conference Rooms
10:00 a.m.**

1. Introductions and review/additions to the agenda.
2. Discussion on the revised VTAC pre-consultation guidance document example filled out for the East Branch Soquel Creek watershed.
3. Review of an updated version of the VTAC guidance document, including sections on:
 - Introduction/goals/background information.
 - Analytical methods, including situational scenarios.
 - Toolbox for potential riparian assessment techniques.
 - Templates for RPFs to facilitate use of the guidelines.
 - Watershed context assessment.
 - Submission requirements.
 - Proposal processing.
 - Monitoring strategies.
4. Update on identification of landowners willing to collaborate with the VTAC on pilot projects.
5. New/Old business.
6. Public comment.

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VTAC August 12, 2011

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Anadromous Salmonid Protection Rule Section V Pilot Projects Technical Advisory Committee (VTAC) Meeting Notice and Agenda Scheduled for: August 12, 2011

USFS Mendocino National Forest Supervisors Office
825 N. Humboldt Ave., Willows, California
North Black Butte/Snow Mountain Conference Rooms
10:00 a.m.

1. Introductions and review/additions to the agenda.
2. Discussion of the "Take-Home Messages" list compiled from the Soquel Demonstration State Forest field meeting held on June 21, 2011 (see pages 2 and 3 at: http://www.bof.fire.ca.gov/board_committees/vtac/meeting_minutes/2011_vtac_meeting_mi_nutes/vtac_meeting_minutes_june_21_2011_sdsf__3_.pdf). This revised list will be used to help with development of the VTAC guidance document.
3. Discussion of the revisions suggested by Mike Liquori to the VTAC pre-consultation guidelines document.
4. Mike Liquori will provide an update on progress made in refining the draft pilot project guidelines document, with situational sentence concepts incorporated.
5. Update from Dr. Matt O'Connor on progress made in generating a draft list of potential information sources available to RPFs for obtaining watershed "context" information (to be included in the final VTAC guidance document).
6. Mike Liquori will provide an update on Sound Watershed Consulting's USFS SBI Grant deliverables.
7. New/Old business.
8. Public comment.

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VTAC: September 09, 2011

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**Anadromous Salmonid Protection Rule Section V Pilot Projects
Technical Advisory Committee (VTAC)
Meeting Notice and Agenda
Scheduled for: September 09, 2011**

USFS Mendocino National Forest Supervisors Office
825 N. Humboldt Ave., Willows, California
North Black Butte/Snow Mountain Conference Rooms
10:00 a.m.

1. Introductions and review/additions to the agenda.
2. Approval of final VTAC pre-consultation guidance document (subject to revisions).
3. Discussion of select portions of Sound Watershed Consulting's USFS SBI Grant draft document.
4. Continued discussion led by Mike Liquori on progress made in refining the draft pilot project guidance document, incorporating the situational sentence/example scenario concepts discussed at the August 12th meeting.
5. Continued discussion of potential VTAC pilot project locations.
6. New/Old business.
7. Public comment.

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VTAC: June 25-26, 2012

VTAC Meeting Minutes
June 25-26, 2012
Weaverville, California

Attendance

The following VTAC members attended the meeting:

Mike Liquori (SWC-Chair), Peter Ribar (CTM), Richard Gienger (public), Dr. Kevin Boston (OSU), Dr. Matt O'Connor (OEI), and Mark Lancaster (5C).

The following VTAC agency representatives attended the meeting:

Bill Short (CGS), Bryan McFadin (NCRWQCB), Bill Stevens (NMFS), and Pete Cafferata (CAL FIRE).

Attendees:

Bill Snyder (CAL FIRE), Duane Shintaku (CAL FIRE), Dennis Hall (CAL FIRE), and Claire Lindstrand (5C).

[Action items are shown in bold print]

I. Summary of the Weaverville Field Sites Visited by the VTAC on June 25th

The main purpose of the first day of this VTAC meeting was to provide field sites to view and discuss topics that will assist the VTAC in finalizing the VTAC guidance document. A brief summary of the discussions and "take-home" messages from the field portion of the meeting are provided below.

Stop 1. West Weaver Creek Habitat Improvement Project

The group viewed a location on West Weaver Creek where a 8 foot CMP was removed and replaced with a 24 foot open bottom arch in 2000, providing 2.4 miles of additional habitat for coho salmon and 3.5 to 4 miles for steelhead (Figure 1). The 2001 Oregon Fire burned most of the 3,000 acre watershed above the crossing. A recent winter storm event with a 1.2 year return interval mobilized 35-40 yr old alder logs above the crossing, but did not produce a jam at the open bottom arch. Riparian canopy above the crossing is good and natural wood jams currently exist in the system (Figure 2). Levees were constructed several decades ago, were rebuilt in 1994, and continue to constrain the channel above the crossing, limiting channel migration. Gold mining with dredging occurred approximately 150 years ago and heavily disturbed this watershed. Currently the channel is providing poor over-wintering habitat for anadromous fish. Possible restoration approaches discussed here included: (1) planting conifers in the riparian zone, (2) removal of levees to restore floodplain function, and (3) installation of large wood structures in the channel.

Stop 2. East Weaver Creek Large Wood Installation Site

The next field stop was an East Weaver Creek site where large wood will be installed in the near future (Figure 3). A large sewer line passes under the channel and is currently threatened by channel downcutting. Large wood will be installed in the channel to encourage floodplain

meandering and deposition of sediment to bury the pipe. This will be the first wood installation project in the Weaver Creek drainage. Thirty to forty logs 40 feet long from the Weaverville mill will be used for the project. The group also observed the main stem Weaver Creek channel below the confluence of the two main tributaries (Figure 4). A temporary summer wood dam has been installed to produce a swimming hole. Water temperatures can reach 25°C (77°F) here, at or near the lethal range for juvenile coho salmon. Existing wood loading is very low in this part of the watershed and the channel would benefit from wood enhancement projects. Other watershed problems include extensive water diversions along East Weaver Creek, greatly reducing summer flow quantities, and barrier problems in Middle Weaver/ Sidney Gulch.

Stop 3. Sidney Gulch (Middle Weaver Creek) Barrier for Fish Passage

Sidney Gulch (Middle Weaver Creek) was observed along Weaver Bally Loop Road. Sidney Gulch has been identified as a priority watershed for coho recovery under the California coho recovery strategy due to the presence of year-over-year coho populations. The Sidney Gulch channel was first lined with concrete in the 1920's and this historical structure is currently protected (Figure 5). Concrete baffle structures were installed in 1996 but anadromous fish passage is severely limited and fish do not make it through this 1000 foot reach with any consistency. A habitat improvement project for Sidney Gulch is in the planning stages.

Stop 4. Garden Gulch Tributary to Sidney Gulch, near the Lancaster Parcel

Mark Lancaster explained to the group that there is an 11 foot waterfall that limits anadromy on Garden Gulch (a tributary of Sidney Gulch) below his 40 acre parcel. The channel below the barrier has relatively deep pools and fine sediment loading is not excessive. A large landslide feature was observed below the road that occurred prior to 1985. As with other parts of the watershed, Garden Gulch was heavily disturbed by gold mining around 1850 and the original road was located in the channel.

Stop 5. Lancaster 40 acre Parcel Observation and Discussion Summary

Mark Lancaster's 40 acre parcel has been logged selectively five times in the past. Mixed conifer species, up to 110 years old, grow on site II/III timberland. Due to the configuration of the parcel (660' x 2640'), up to 42% of the ownership can be considered to be within Class I ASP rule WLPZ boundaries. Timber growth is estimated to be 1-1.5% per year. The last wildfire occurred approximately 90 years ago. The main Class II channel that flows down into Garden Gulch was examined by the VTAC for several hundred feet (72 acre watershed). The January 1997 flood event (~40 yr RI) caused significant downcutting to occur. Significant pools were found in the channel in early June (Figure 6), but currently very few pools remain with surface water present. There was considerable discussion about whether this was a Class II-L or II-S, but the consensus was that it is a Class II-S due to very limited flow in mid summer, despite the significant channel dimensions observed and a small trickle of flow at the confluence with Garden Gulch. There appears to be little reason to propose a Section V project for a Class II-S to allow limited harvest in the 10 foot Core Zone to reduce the risk of catastrophic wildfire; the exiting canopy cover in the WLPZ was estimated to be less than 70%.

The group then walked down to the Class I WLPZ and observed the canopy cover and stand stocking from a large ridge (possibly constructed for gold mining operations) protruding into the

WLPZ. Parts of the riparian zone are dominated by alder stands (Figure 7), while other parts have large conifer snags and a mixture of conifer size classes (Figure 8). Mark Lancaster led a prolonged discussion on what could be proposed under Section V for this type of Class I WLPZ under small nonindustrial timberland ownership. We discussed the possibility of cutting large conifer trees and moving them off-site to channel locations with anadromy present, in exchange for an opportunity to conduct management in the WLPZ. This scenario is considered to be more feasible when logs would be moved from one site on a given ownership to another site on the same ownership. Possible incentives that could be used to entice landowners to take such a course of action were outlined. Mitigation banking was discussed as one alternative that is allowed under CEQA.

The group decided that it would be worth having the VTAC outline a viable process that could allow small landowners to move wood off-site in exchange for added management opportunities within the WLPZ. Mark Lancaster, Mike Liquori, and Richard Gienger (as well as Duane Shintaku the following day) volunteered to serve on a VTAC Incentives Subcommittee to generate a short white paper documenting the issue and possible solutions. A hierarchy of opportunities is to be included in the paper: 1) installation of wood on-site, (2) installation of wood off-site, but within the same ownership, and (3) installation of wood off-site, outside of the ownership, but in the same planning watershed. The white paper is to be finished by July 20th.

II. Summary of Office Meeting (Trinity Co. Office of Education) on June 26th

The office meeting began with a short conversation on landowner incentives and offsetting mitigation, continuing the field discussion from the previous afternoon. Duane Shintaku stated that the existing CA Forest Practice Rules already incorporate the concept of offsetting off-site mitigation [e.g., 14 CCR § 913.1 (933.1, 955.1)(a)(2)(E)], and that CEQA fully embraces this concept. Other possible incentives for active management in WLPZs to enhance salmonid habitat under Section V, such as tax relief, mitigation banking, and regulatory permitting relief (e.g., exemption process to allow streamlined restoration work, programmatic permit, etc.) would require significant changes, and will be explored in the brief white paper to be developed by the VTAC Incentives Subcommittee established on June 25th.

Most of the meeting was spent reviewing the draft VTAC guidance document, including recent revisions and comments incorporated by Mike Liquori and Pete Cafferata. While not comprehensive (complete notes were recorded by Mike Liquori and Pete Cafferata), some of the significant points raised for each section of the document included:

General Comments

- Add a glossary.
- Add more dialogue on incentives for landowners, explaining why Section V work is important for landowners and why it is important for the resource (i.e., salmonid stocks need rapid help).

Executive Summary

- First paragraph—add “operational flexibility and benefits to landowners” to the last sentence.

- Change “pathways” to “options” in the summary table and text when referring to V(2) and V(3) ; use 916.9(v)(2) and 916.9(v)(3) in the table, not V(2) and V(3).

Introduction

- Add to the second paragraph verbiage emphasizing that active management is needed due to the current poor condition of salmon stocks in California (urgency issue).
- First bullet: Change to “Guidance should provide approaches that are applicable to all landowners regardless of ownership size or permitting requirements.”
- Third bullet: Change to “Guidance should offer broad-based incentives to landowners to encourage use of Section V where appropriate.”
- Fourth bullet: Change to “Guidance must be environmentally beneficial and operationally feasible.”
- Sixth bullet: Change to “Guidance should seek to identify opportunities to streamline permitting requirements.”
- **Add a paragraph listing examples for the six situational examples, using bullet points (Mike Liquori has a list of bullet points from this discussion).**
- Figure 1: Make changes needed in the boxes, as discussed at the last meeting.
- Remove the last paragraph in this section.

Goals, Incentives, and Desired Outcomes

- Rename this section; change it in the Table of Contents.
- Add an expanded incentives discussion to this section, based on the short white paper developed by the VTAC Incentives Subcommittee.
- Table 1: Change “level of protection” to “management.” Change wording in the “Generally Available” boxes.
- Make minor changes to the last paragraph.

Conceptual Framework: Summary of Riparian Zone Beneficial Functions

Add the map generated by Jonathan Ambrose, NMFS, for the Wood for Salmon Workgroup showing ownership within the Central California Coast coho ESU.

- **Add a final paragraph under the first section describing that listed fish species need added wood enhancement projects now to accelerate recovery, due to declining salmonid stocks. Bill Stevens is to develop this paragraph.**
- Make minor change to the last paragraph on page 7.

Introduction to Analytical Pathways

- Make minor changes to the brief descriptions of the three pathways.
- **Add Mike Liquori’s list of bullet points on when to use pathways 1, 2, and 3 (i.e., they are most applicable in these cases...). Insert on page 11, and at the beginning of each pathway.**

Pathway 1) Standardized Rule Matrix

- Define how “≥70% coniferous species” is to be considered (canopy cover, basal area, stem count, etc.?).
- Relative stand density: remove “cohort” and make under minor changes.
- **Add a simple diagram illustrating confluence angles (Mike Liquori).**
- Alter the overview figure on page 16 to make it clearer to the reader.

- Table 2: remove the red arrow and box referring to Plane Bed channel types.
- Sub-section 2C—change to “Segment Decision Matrix.”
- Table 4: Title change to “Segment decision matrix.” Add the “restore” objective to the table.
- Sub-section 2D—change to “Segment Action Matrix.”
- Table 5: Title change to “Segment action matrix.” Change Segment Objectives to “Segment Actions” in the table.
- **Develop two examples: the East Branch Soquel Creek example for large wood enhancement (Pete Cafferata to develop and incorporate); Lancaster parcel for reduced catastrophic wildfire risk—Mike Liquori to assist Mark Lancaster.**

Pathway 2) Situational Scenarios

- Add a flowchart showing steps 1-5.
- For every situation (1-6), add a hypothetical example, explaining what the advantages are for landowners (“what is in it for me?”).
- Under Situation 2 (headcutting/incised channels): Add a paragraph elaborating that this is a difficult situation to address and will likely require considerable extra expertise (refer the reader to Pathway 3).
- Replace the Figure 8 photo with an example that has a incised channel and an elevated floodplain that could be reconnected.
- Under Situation 4 (catastrophic fire risk), hazards sub-section, change bullet point to “risk to nearby dwellings or subdivisions.”
- Under Situation 6 (sediment reduction within riparian zones):
 - **Replace Figure 21 with a better photo of a crossing abandonment in the interior part of the state (Mark Lancaster to supply photo).**
 - Reword, recognizing that the topic is broader than just referring to roads, skid trails, landings, and crossings. In the first paragraph, broaden this situation to include discussion on other erosion source areas in WLPZs, including: bank cutting, channel incision, channel diversion, unstable areas, etc. Include verbiage on potentially laying back oversteepend banks, bioengineering approaches for bank erosion, etc.
 - Include a paragraph describing possible incentives for landowners to complete sediment reduction work in the WLPZ, providing a long-term benefit to watershed resources. This may include offsite mitigation (outside the plan area), which could possibly allow limited WLPZ harvest (offsetting mitigation). Consider adding a “benefit balancing crosswalk” that includes sediment reduction work in the THP area, within the ownership, in the planning watershed, and in the super planning watershed (~50K ac).
 - **Under typical suitability criteria, Bill Short agreed to write treatment descriptions for unstable areas (e.g., using sub-drains, bioengineering approaches, etc.)**
 - Under typical suitability, include a bullet point for repairing existing stream diversions or treating potential diversion sites.
 - **Under treatment options, Mike Liquori agreed to add a paragraph with reference citations. This will include a description of the three treatment options available (source controls, transport controls, and mitigation controls). It will reference readers to existing documents that describe acceptable**

approaches for use in WLPZs (e.g., Riparian Restoration: Roads Field Guide (http://www.fs.fed.us/t-d/pubs/pdf/hi_res/05771801hi.pdf)).

Pathway 3) Analytical Design Process (Customized Design)

- Add a paragraph at the beginning of this section explaining how, where, when, and who should use this pathway. Explain that this pathway would not usually be used by small landowners, but rather by larger companies without an HCP. Pathway 3 will be used for very complex projects or for situations that differ from areas that perform as per “status quo” information.
- **Table 10: explain what mid valley, low valley, and confined/headwater mean so that the reader is clear on the meaning of these terms (Mike Liquori will provide this information).**

Appendices

- Add a new Appendix E, “Definition and schematics for channel types.” Attempt to use DFG Salmonid Stream Habitat Restoration Manual (<http://www.dfg.ca.gov/fish/resources/habitatmanual.asp>) terminology and figures, not Montgomery and Buffington 1997.

VTAC Pilot Project Update

Pete Cafferata provided the VTAC with the Collins Pine Company VTAC pre-consultation form filled out by RPF Andy Juska for a potential Section V site-specific proposal to mechanically thin and restore aspen along Swamp Creek, a tributary to Deer Creek (as part of THP 2-12-002 TEH). Several suggestions for improvement were made:

- Make a better nexus between the site-specific proposal and listed anadromous fish stocks/potential improvements to the stream channel and aquatic habitat (page 13-- “Key Assumptions of Proposed Benefits (to Anadromy).”
- State that the area to be treated has a continuum of ladder fuels, while other areas are not in the same condition.
- The watershed context assessment needs improvement and should not just repeat the cumulative impacts assessment language prepared for the THP.
- Consider including verbiage on nutrient inputs from aspen stands and the watershed benefits possible.
- Provide more specific information on how the site-specific proposal deviates from the standard rules.
- Check boxes that apply to aspen restoration, not just for fire hazard reduction.
- Provide a project title.
- Provide missing information on page 15 (Proposed Design Elements/Metrics/Standards). For example, this might mean: no mechanical harvesting closer than x ft from the WTL; retain x % overstory canopy; use existing skid trails no closer than x ft from the WTL; over x ft, x large trees will be removed; WLPZ canopy will be reduced x %, etc.)

This information is to be shared with RPF Juska, along with the VTAC’s thanks for undertaking this exercise. The VTAC will ask Mr. Juska to consider revising the pre-consultation document.

Mike Liquori asked Pete Cafferata to determine if Collins Pine Co. would be willing to host the VTAC for a site visit to THP 2-12-002 TEH in early August. This would include the Review Team agency pre-consultation team of Adam Wyman, Drew Coe, Stacy Stanish, and Don Lindsay. A pre-field meeting would be needed with the agency pre-consultation team prior to the field inspection. A conference room at CAL FIRE's Tehama-Glenn Unit Headquarters in Red Bluff may be available for a brief indoor meeting prior to field inspection of the site.

No new information has been received from Green Diamond Resource Company on their VTAC pilot project. Pete Cafferata will check with Gary Rynearson for an update.

VTAC Schedule

Mike Liquori stated that new version of the VTAC guidance document will be developed by the end of July, with the next VTAC meeting to be held in August. Pete Cafferata will circulate a Doodle poll for a date, following coordination with Collins Pine Company and the pilot project field inspection. The goal is to finish the VTAC work by the end of 2012. Duane Shintaku suggested that the VTAC have 6 RPFs from CLFA and CFA peer review the document prior to finalizing it and presenting it to the BOF (i.e., usability check by practicing foresters). **Peter Ribar stated he would speak to Mike Tadlock, who is on the Board of Directors of CLFA, regarding this concept.** It was also suggested that a BOF workshop could be scheduled to receive feedback on the guidance document prior to finalizing the paper.

4. NORTH COAST INTEGRATED REGIONAL WATER MANAGEMENT (NCIRWMP) MEETINGS

Weaverville	7/21/2011
Yreka	7/19/2012
Eureka	10/18/2012
Weaverville	11/15/2012
Tech Review of Grants	1/9 and 10/2013



NORTH COAST INTEGRATED REGIONAL WATER MANAGEMENT PLAN

**North Coast Integrated Regional Water Management Plan (NCIRWMP)
Policy Review Panel (PRP) & Technical Peer Review Committee (TPRC)
Meeting Agenda**

July 19, 10 am – 3 pm, Holiday Inn Express, Yreka

- 9:30 Coffee/light breakfast
- 10:00 Welcome and Introductions
- 10:10 Review and Approve Agenda
- 10:15 Public Comment for items not on the agenda
- 10:20 Approval of NCIRWMP resolution for Vice-chair Jimmy Smith (DECISION)
- 10:40 Updates
- Executive Committee action
 - Re-allocation of funds from Orick Community Services District per approved PRP policy
 - PRP direction and staff action
 - TPRC Updates
 - Regional Administrator (Jen Jenkins, Humboldt County)
 - Staff, Contracts & Prop 50/84 Implementation projects
 - Strategic Growth Council Sustainable Communities grant (Karen Gaffney, West Coast Watershed)
 - Legislative news (Tim Anderson, Sonoma County Water Agency)
 - IRWM Program tentative schedule, funding opportunities & Guideline changes (Joe Yun, IRWM Planning Grants Program Manager, California Department of Water Resources)
- 11:30 NCIRWMP Project Application, Review and Selection Process (Staff and Ad-Hoc Committee)
- Ad-hoc Committee action
 - Ongoing Project Inclusion Process Update
 - PRP Directed Guidelines for Project Scoring and Selection (DECISION)
 - Public Input Guidelines (DECISION)
 - Draft NCIRWMP Proposition 84, Project Implementation Round 2 application (DECISION)

12:15 Support & Technical Assistance to Rural & Small Water and Wastewater Service Providers (Jen Jenkins, Natural Resources Division, Department of Public Works, Humboldt County)

- Program objectives and staffing
- Working group establishment and outreach
- Strategy for PRP, TPRC and stakeholder input
- Project identification and development
- Trainings and workshop themes

12:30 WORKING LUNCH (PROVIDED)

1:00 NCIRWMP Proposition 84 Planning Grant

- Draft outreach strategy (Karen Gaffney, West Coast Watershed)
- Regional meetings and outreach (Paul Kelley, Paul Kelley Consulting)
- PRP input on staff planning activities (Karen Gaffney, West Coast Watershed)
 - Conference planning (DECISION)
 - Proposal: standing agenda item for updated priorities, actions, projects

1:20 PRP Direction re. website, name, re-branding and logo refinement (DECISION)

1:45 Regional presentations/updates

- Bruce Courtright, Siskiyou Biomass Utilization Group: It's Mission, Projects and Accomplishments
- Modoc County: Sage Steppe Restoration on USFS/BLM Lands and Potential Biomass Solutions
- Karen Mallory, Shasta Valley Resource Conservation District: Araujo and Shasta Water Association Dam Restoration Projects

2:45 Public Comment

2:55 Next meeting date confirmation: October 18th, Eureka

3:00 ADJOURN (3:30 pm Adjournment if agenda items exceed the time allotted)

NCIRWMP Project Review and Selection Process Guidelines and Application

The North Coast Integrated Regional Water Management Plan (NCIRWMP) is committed to transparency, stakeholder inclusion and process improvement. At the July 21, 2011 NCIRWMP meeting, the Policy Review Panel (PRP) directed the formation of an ad hoc committee comprised of PRP and Technical Peer Review Committee (TPRC) members and staff to evaluate the existing approach to project evaluation and ranking and develop a draft approach for consideration at future NCIRWMP PRP meetings. An on-line survey and interviews were conducted of ad-hoc committee members, TPRC members, and project proponents to gather information about the existing process and recommendations for improvement of the process. The interview summary and summary of recommendations can be found at (<http://www.northcoastirwmp.net/docs.php?ogid=1000002175>). With this information as the basis, the ad-hoc committee developed the Draft Project Review and Selection Process Guidelines and Project Application which includes:

- Schedule for the development and approval of the Proposed Project Application, Review and Selection Process
- Description of the NCIRWMP Project Evaluation Roles
- Multi-step NCIRWMP Project Application, Review & Selection Process description
- Guidelines for Public Input and Project Proponent Input during the Project Review Process
- NCIRWMP Conflict of Interest Policy
- PRP Directed Guidelines for Project Scoring and Selection
- On-Going Project Inclusion Process into the NCIRWM Plan
- Project Budget Under-runs and Funding Reallocation Process
- Supplemental Implementation Project Information application
- TPRC Scoring Criteria

You are invited to review and provide input of the [NCIRWMP Project Review and Selection Process Guidelines and Project Application](http://www.northcoastirwmp.net/docManager/1000008736/NCIRWMP_Project_Review_Guidelines_Application_draft_0912.pdf) (http://www.northcoastirwmp.net/docManager/1000008736/NCIRWMP_Project_Review_Guidelines_Application_draft_0912.pdf). Please provide suggested edits and written comments to Katherine at kgledhill@westcoastwatershed.com by October 12, 2012.

The PRP will be considering the NCIRWMP Project Review and Selection Process Guidelines and Project Application for approval at the NCIRWMP meeting on October 18 in Eureka. As with all PRP meetings – there will be time for public comment.



**North Coast Integrated Regional Water Management Plan (NCIRWMP)
Policy Review Panel (PRP) & Technical Peer Review Committee (TPRC) Meeting
Agenda**

October 18, 10 am – 3 pm, Humboldt Bay Aquatic Center, 921 Waterfront Drive, Eureka

- 9:30 Coffee/light breakfast
- 10:00 Welcome and Introductions
- 10:10 Review and Approve Agenda
- 10:15 Public Comment for items not on the agenda
- 10:20 Review of Chair, Vice-chair and Executive Committee Election Process (DECISION)
 - NCIRWMP Elections (Jake Mackenzie, PRP Chair) (DECISION)
- 10:50 NCIRWMP Planning Sub-contracts (Karen Gaffney, West Coast Watershed)
 - Proposition 84 Planning Grant & Strategic Growth Council (SGC) Grant Overview
 - Tribal Outreach Coordinator RFP (Supervisor Grace Bennett)
 - Proposed Process and Criteria for Sub-contracts to counties and Tribes (DECISION)
 - Formation of ad-hoc committees: Tribal Coordinator, Prop 84 Planning Grant, & SGC Planning Grant (DECISION)
- 11:40 NCIRWM Plan – Version 3
 - Draft NCIRWMP Plan outline (Karen Gaffney, West Coast Watershed)
- 11:50 North Coast IRWMP Logo and Name (Karen Gaffney, West Coast Watershed) (DECISION)
- 12:30 WORKING LUNCH (PROVIDED)
- 1:00 North Coast IRWMP Conference (Karen Gaffney, West Coast Watershed)
 - Confirm date and conference name (DECISION)
 - Review draft agenda
 - Review sponsorship strategy

- 1:30 NCIRWMP Project Application, Review and Selection Process (DECISION)**
NCIRWMP Proposition 84, Round 2 Project Implementation grant application development
(Katherine Gledhill/Ad Hoc Committee) (DECISION)
- 2:00 Updates**
- Executive Committee action (Katherine Gledhill, West Coast Watershed)
 - PRP direction and staff action (Katherine Gledhill, West Coast Watershed)
 - TPRC Updates (PRP members)
 - Outreach efforts (Paul Kelley, Paul Kelley Consulting)
 - Regional Administrator (Jen Jenkins, Humboldt County)
 - Staff, Contracts & Prop 50/84 Implementation projects
 - Legislative news (Tim Anderson, SCWA)
 - DWR IRWM update (Margie Graham, California Department of Water Resources)
- 2:25 Martin Slough Project Presentation (Kurt Gierlich, City Engineer, Eureka)**
- 2:45 Public Comment**
- 2:55 Next meeting date confirmation: January 17, 2013, Ukiah**
NCIRWMP 2013 Meetings:
- January 17 – Ukiah
 - April 18 – Yreka
 - July 18 – Weaverville
 - October 17 – Eureka
- 3:00 ADJOURN**

Policy Review Panel Members

Chair: Mayor Jake Mackenzie, City of Rohnert Park, Sonoma County

Vice-Chair: vacancy

Supervisor Gerry Hemmingsen, Del Norte County

Supervisor Martha McClure, Del Norte County

Supervisor Ryan Sundberg, Humboldt County

Alternate: Supervisor Mark Lovelace, Humboldt County

Supervisor John McCowen, Mendocino County

Supervisor Kendall Smith, Mendocino County

Alternate: Supervisor Dan Hamburg, Mendocino County

Supervisor Geri Byrne, Modoc County

Alternate: Supervisor Shorty Crabtree, Modoc County

Supervisor Marcia Armstrong, Siskiyou County

Supervisor Grace Bennett, Siskiyou County

Supervisor Efren Carrillo, Sonoma County

Alternate: Dale Roberts, TPRC member, Sonoma County

Alternate: Wayne Haydon, TPRC member, Sonoma County

Supervisor Judy Morris, Trinity County

Supervisor Debra Chapman, Trinity County

Troy Fletcher, Yurok Tribe

Carol Cook, Sherwood Valley Rancheria

Shawn Padi, Hopland Band of Pomo Indians

Alternate: Leaf Hillman, Karuk Tribe

Alternate: Isi Mesa Jr., Redwood Valley Rancheria

Technical Peer Review Committee Members

Chair: vacancy

Jim Barnts, Director of Public Works, City of Crescent City, Del Norte County

Zack Larson, Smith River Watershed Coordinator, Del Norte County

Hank Seemann, Deputy Director, Environmental Services, Public Works Department, Humboldt County
vacancy, Humboldt County

Patty Madigan, Mendocino County RCD, Mendocino County

Sean White, Russian River Flood Control and Water Conservation Improvement District, Mendocino
County

Kimberly Hunter, Modoc County

Amy Hoss, The Nature Conservancy, Siskiyou County

Marilyn Seward, City of Etna, Siskiyou County

Dale Roberts, Sonoma County Water Agency, Sonoma County

Wayne Haydon, California Geologic Survey, Sonoma County

Mark Lancaster, Five Counties Salmonid Conservation Program, Trinity County

David Van Denver, Weaverville CSD, Trinity County

Sandra Perez, Five Counties Salmonid Conservation Program, Trinity County

Toz Soto, Karuk Tribe

Javier Silva, Sherwood Valley Rancheria

Koiya Tuttle, Potter Valley Tribe

Alternate: Sarah Beesley, Yurok Tribe



North Coast IRWMP Implementation Project Solicitation for Proposition 84, Round 2 IRWM Funding

We are pleased to announce that the NCIRWMP Implementation Project Solicitation has been launched and project applications will be accepted until 5 pm December 10th 2012. For more information and to download application materials and instructions go to:

http://www.northcoastirwmp.net/Content/10434/North_Coast_IRWMP_Implementation_Project_Application.html

Background

In June 2012, the Department of Water Resources (DWR) released the [Draft Integrated Regional Water Management Program Guidelines and Proposal Solicitation Packages](#) (PSP) for the Round 2 Implementation Grant, and Stormwater Flood Management Grant programs. The Guidelines and PSPs will be used to distribute IRWM grant funding according to Proposition 84, Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 and Proposition 1E, Disaster Preparedness and Flood Prevention Bond Act of 2006. The final guidelines and PSPs are expected to be released in November, 2012. Information about IRWM funding opportunities and the guidelines and PSPs can be found at <http://www.water.ca.gov/irwm/grants/index.cfm>.

Proposition 84 Funding

[Proposition 84, Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006](#) provides \$900 million in regional funds to be allocated to 11 California Funding Areas. The North Coast's allocation is \$37 million and the funding available for Round 2 is likely to be \$5.4 million.

Schedule

- November 1 – December 10: NCIRWMP Implementation Project Proposal Solicitation
- Mid-November: Department of Water Resource release Final IRWM Guidelines and Proposal Solicitation Package (expected)
- November 15 - 20: Informational & Technical Assistance Workshops held throughout the North Coast Region
- December 10, 5 pm: NCIRWMP Implementation Project Proposals Due
- December 13 – January 4, 2013: Technical Peer Review Committee (TPRC) Implementation Project Proposal review
- January 9 – 10: TPRC Project Review meeting
- January 17: NCIRWMP Policy Review Panel and TPRC meeting, Ukiah
- March 2013: NCIRWMP Prop 84, Round 2 Application due (expected)

NCIRWMP Implementation Project Solicitation Workshops

To provide information about the NCIRWMP Implementation Project Proposal Solicitation and to discuss how stakeholders can participate.

Trinity County

Thursday, November 15, 2 pm

Trinity County Library

351 Main St., Weaverville

Phone: [530.623.1373](tel:530.623.1373)

Siskiyou/Modoc Counties

Friday, November 16, 10 am

Klamath National Forest Offices

1711 South Main Street, Yreka

Phone: [530.841.4500](tel:530.841.4500)

Del Norte County

Monday, November 19, 9 am

The Lighthouse Inn

681 Highway 101 South, Crescent City

Phone: [707.464.3993](tel:707.464.3993)

Humboldt County

Monday, November 19, 2 pm

Humboldt County Agricultural Center

5630 South Broadway, Eureka

Phone: [707.445.7351](tel:707.445.7351)

Mendocino County

Tuesday, November 20, 9 am

University of California Cooperative Extension

890 North Bush Street, Ukiah

Phone: [707.463.4495](tel:707.463.4495)

Sonoma County

Tuesday, November 20, 2 pm

Sonoma County Water Agency

Redwood Conference Room

404 Aviation Blvd., Santa Rosa

Phone: [707.526.5370](tel:707.526.5370)

NCIRWMP Implementation Project Application

The [NCIRWMP Implementation Project Application](#) consists of two sections:

1. Preliminary Project Information – for project inclusion into the NCIRWM Plan

Project proponents may upload Preliminary Project information to the NCIRWMP website and/or submit the Preliminary Project section of Microsoft Word version of the [NCIRWMP Implementation Project Application](#)

2. NCIRWMP Supplemental Project Information: Proposition 84 Round 2 Implementation Grant

To be considered for inclusion in the NCIRWMP regional application for Proposition 84 Round 2 IRWM Implementation funding, project proponents will need to submit the Supplemental Project Information section of the Microsoft Word version of the [NCIRWMP Implementation Project Application](#) in addition to the Preliminary Project Information

A Microsoft Word version of the NCIRWMP Implementation Project Application is available for reference and for application development. The document can be downloaded at http://www.northcoastirwmp.net/docManager/1000008757/NCIRWMP_Prop84R1_Project_Application_ProjectName.docx

NCIRWMP Implementation Project Application Instructions

Instructions, tips and helpful resources for filling out the NCIRWMP project application forms can be downloaded and printed for reference. Potential project proponents should read through this entire document before beginning to develop a project application.

http://www.northcoastirwmp.net/docManager/1000008761/NCIRWMP_Prop84R1_Project_Application_Instructions_103112.pdf.

NCIRWMP Project Review and Selection Process Guidelines

As approved by the PRP, these guidelines define the process for project compilation, review, ranking and selection. The [NCIRWMP Project Application, Review and Selection Process Guidelines](#) include procedures for public input during the project review process, conflict of interest guidelines and project review scoring criteria. See the following link for responses to the [NCIRWMP Project Review and Selection Process Guidelines Public Review Comments](#).

If you have questions, need additional information or need technical assistance please contact Katherine Gledhill at kgledhill@westcoastwatershed.com or 707.795.1235.

Important Note: Project Applications will be accepted until 5:00 pm, December 10th. The project application will be closed at this date/time and edits to project applications and/or new project applications will no longer be accepted.

NCIRWMP January 9 and 10, 2013



North Coast Integrated Regional Water Management Plan (NCIRWMP) Technical Peer Review Committee (TPRC) Project Review Meeting Agenda

Mendocino County Administrative Offices, Conference Room C, 501 Low Gap Road Street, Ukiah
Conference call-in number: 1-888-947-3988; Conference code: 371890

Meeting Materials:

http://www.northcoastirwmp.net/Content/10434/NCIRWMP_Implementation_Project_Solicitation_Review_Selection.html

January 9, 9:00 am – 4:00 pm

- 9:00 Welcome and Introductions
- 9:10 Review and Approve Agenda
- 9:15 Review [NCIRWMP Project Application, Review and Selection Process Guidelines](#)
 - NCIRWMP Project Proposal Review & Selection Process Overview
 - Procedures for public input during the project review process
 - Conflict of interest guidelines
- 9:30 Public Comment for items not on the agenda
- 10:00 Selection of TPRC Representative to present TPRC recommendations and materials to the Policy Review Panel at the January 17th NCIRWMP meeting in Ukiah
- 10:10 NCIRWMP Proposition 84, Round 2 Implementation Projects Review (Technical Peer Review Committee):
 - review of averaged individual TPRC project proposal scores
 - group review of project proposals
- 12:30 WORKING LUNCH (PROVIDED)
- 1:00 NCIRWMP Proposition 84, Round 2 Implementation Project proposal group review (continued)
- 3:30 Public Comment
- 4:00 **ADJOURN**

**North Coast Integrated Regional Water Management Plan (NCIRWMP)
Technical Peer Review Committee (TPRC) Project Review Meeting Agenda**
Mendocino County Administrative Offices, Conference Room C, 501 Low Gap Road Street, Ukiah
Conference call-in number: 1-888-947-3988; Conference code: 371890
Meeting Materials:
http://www.northcoastirwmp.net/Content/10434/NCIRWMP_Implementation_Project_Solicitation_Review_Selection.html

January 10, 9:00 am – 4:00 pm

- 9:00 Welcome and Introductions
- 9:10 Review and Approve Agenda
- 9:15 Public Comment for items not on the agenda
- 9:45 NCIRWMP Proposition 84, Round 2 Implementation Projects Review (Technical Peer Review Committee):
 - review of updated averaged TPRC project proposal scores
 - group review of project proposals (continued)
- 12:30 WORKING LUNCH (PROVIDED)
- 1:00 NCIRWMP Proposition 84, Round 2 Implementation Draft Suite of NCIRWMP Priority Projects selection to be presented to the PRP during the January 17th NCIRWMP meeting in Ukiah
- 3:30 Public Comment
- 4:00 ADJOURN

Technical Peer Review Committee Members

Co-Chair: Sandra Perez, Five Counties Salmonid Conservation Program, Trinity County
Co-Chair: Wayne Haydon, California Geologic Survey, Sonoma County
Jim Barnts, Director of Public Works, Del Norte County
Zack Larson, Smith River Watershed Coordinator, Del Norte County
Hank Seemann, Deputy Director, Environmental Services, Public Works Department, Humboldt County
Carol Reich, General Manager, Humboldt Bay Municipal Water District, Humboldt County
Patty Madigan, Mendocino County Resource Conservation District, Mendocino County
Sean White, Russian River Flood Control & Water Conservation Improvement District, Mendocino County
vacancy, Modoc County
Marilyn Seward, City of Etna, Siskiyou County
Richard Tinsman, Planning Division, Siskiyou County
Dale Roberts, Sonoma County Water Agency, Sonoma County
Mark Lancaster, Five Counties Salmonid Conservation Program, Trinity County
Toz Soto, Karuk Tribe
Javier Silva, Sherwood Valley Rancheria of Pomo Indians
Koiya Tuttle, Potter Valley Tribe
Alternate: Sarah Beesley, Yurok Tribe
Alternate: Mario Hermsillo Jr., Cloverdale Rancheria of Pomo Indians

5. FISH PASSAGE FORUM

Fish Passage Forum efforts have focused on barrier site ranking criteria, outreach development, permit streamlining, and NFHAP participation. Throughout the contract period the 5C Director has:

Davis	4/26/12
Conference Call	5/14/12
Conference Call	6/20/12
Conference Call	7/23/12
Conference Call	9/21/12
Davis	10/27/12

CALIFORNIA FISH PASSAGE FORUM, April 25 - 26, 2012

CALIFORNIA FISH PASSAGE FORUM

Meeting Agenda

April 25 - 26, 2012

9.00 a.m. – 4:00 p.m.

Yolo Wildlife Area Headquarters, 45211 County Road 32 B (Chiles Road), Davis, CA 95618

Alternate Public Meeting sites:

State Coastal Conservancy: 1330 Broadway, 13th floor; Oakland, CA 94612

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Agenda Items

Day 1

Meeting commences at 9:00 a.m.

Welcome

Housekeeping

Introductions

Announcements

Prioritization Presentation

Dr. O'Hanley will present his work on the prioritization of projects

Breaks (approximate times): 10:30 a.m.;

12:00p.m.; 3:00 p.m.

Meeting resumes after lunch at 1:00p.m

Prioritization cont.

Continued discussion of prioritization

Questions for Dr. O'Hanley

Meeting Wrap-Up

Review commitments, assignments and due dates

Final Announcements/Reminders (meeting the next day)

Meeting adjourns at: 4:00 p.m.

Day2

Working Group Updates

Governance Work Group

Outreach and Education Work Group

Permitting and Policy Work Group

Prioritization Work Group

Engineering Work Group

Discussion

Forum vote on:

Accepting the Forum's strategic plan

Funding the Forum's Website

The scope of work and funding for a Forum

Coordinator

Selecting Connor Creek for \$30,000 of NFHAP funding

The need for Fish Passage Forum Science and Data Committee

Alternate Forum members

Meeting Wrap-Up

Action Items, assignments and due dates

Next 4 Meeting locations

Final Announcements/Reminders

For information and lodging in Oakland contact:

Michael Bowen, Oakland, (510) 286-0720,

mbowen@scc.ca.gov

For reasonable accommodation at the Alternate meeting sites contact:

Michael Bowen, Oakland, (510) 286-0720,

mbowen@scc.ca.gov

Tom Schroyer, Sacramento, (916) 445-0008,

tschroyer@dfg.ca.gov

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Public Comments will be allowed at the start of each day. Comments will be held to 5 minutes and may be shorter at the discretion of the chairperson.

CALIFORNIA FISH PASSAGE FORUM, June 20th 2012

Lancaster participated in the Fish Passage Forum's Education & Outreach Committee via conference call on. Discussions focused on update of the Forum brochure, logo, website, and partner trainings.

Fish Passage Forum Education & Outreach Committee Conference Call

June 20, 2012
2:00-4:00 pm

Minutes

1. Participating: Heather McIntire, Michael Kellett, Marc Commandatore, Mark Lancaster, Sam Herzberg, Stan Allen, Fred Jurick, Robin Carlson.
2. Forum website (**Lead: Marc Commandatore**)
 - a. New Forum website: <http://www.cafishpassageforum.org/>
 - b. Megan Sheely (DWR) may be able to assist with website content and design. Marc will find out if she is available. Robin will set up a meeting with Marc, Megan, and Greg Wilke (PSMFC) before June 28.
 - c. Priorities for content updates
 - i. Home
 - ii. Success Stories
 1. Sample formats available: DFG Fisheries Restoration Grant Program, Forest Service reports, others?
 2. Forest Service has two different formats:
 - a. "Show and Shine" reports are for very specific funding sources.
 - b. Wildlife, Fish and Rare Plants reporting database exports an accomplishment report that is more general
 3. We will look into creating a simple database for Forum success stories that agencies could enter project information into and then generate a standard report on the Forum website. The reports should be searchable by watershed and county.
 - iii. Training & Education
 - iv. Calendar
 - d. Timeline: for the July Forum meeting, we will plan to have an outline of what will be updated on the new website before it goes live, and an expected date for going live.
3. Publicity
 - a. Writing a "talking points" document for the Forum (**Lead: Heather McIntire, with assistance from Fred Jurick**)
 - i. A one or two page document highlighting Forum mission, goals, activities, and accomplishments. Content can be taken from the draft strategic plan.
 - ii. Quantitative/graphic presentation of accomplishments.

- iii. Look into the current priorities of the Coho Recovery Team: prioritization efforts and comparative role of barriers in ESUs/DPSs. Check with Kevin Shaffer.
 - iv. Timeline: prepare a draft for the July Forum meeting.
 - b. Writing and distributing publicity about Conner Creek (selected as one of the NFHAP "10 Waters to Watch" in 2012) **(Lead not needed)**
 - i. Forest Service has been doing a lot of publicity. Including a current project for video documentation of construction this year. This is being done by Steve and Anne Dunskey, who directed and edited *Greenfire*, the documentary about Aldo Leopold. This is part of a larger series commissioned by the Forest Service about ecological restoration.
 - 1. An effectiveness monitoring study coordinated through the Pacific Northwest Research Station (Corvallis, OR) and started this summer will be included in the video series. The study selected 10-20 completed projects and will be doing a combination of mark-recapture, telemetry, and detailed habitat observations.
 - ii. Conner Creek will be featured at the Coho Confab (Aug 17-19) with a field tour.
 - iii. NFHAP is planning to do a site visit and further advertising.
 - iv. Robin will check on whether the press release went out through the DFG media release process, and make sure it is announced on the main CalFish site.
 - c. Developing an updated Forum presentation **(Lead: Robin Carlson, with assistance from Stan Allen)**
 - i. Develop a general presentation that can be used by Forum members for a variety of opportunities:
 - 1. PSMFC Annual Meeting in 2012 (August 19-22, San Francisco)
 - a. Agenda is full, so a poster or other literature are needed instead.
 - 2. Fish and Game Commission (TBD)
 - ii. There are several older presentations that can be used to start with.
4. Water quantity issues **(Lead: Sam Herzberg, with assistance from Mark Lancaster)**
 - a. Lack of water is a significant problem and there is a need for public education, especially with a focus on educating farmers about illegal diversions.
 - b. The full Forum should discuss quantity barriers and whether/how to approach the issue.
 - c. Is there a need to engage the SWRCB? Approaching this from the perspective of compliance is likely not the best approach; education is likely to be more successful.
 - d. Sam will develop some recommendations for how the Forum and the Education and Outreach Committee could approach the issue, including an overview of other efforts currently underway.
 - e. Robin will ask Tom Schroyer to add a 30 minute agenda item for the July Forum meeting.
5. Outreach materials
 - a. Updating the Forum brochure **(Lead: Mark Lancaster)**
 - i. Development of new content

1. Robin will find the amount spent on the first version of the brochure and send it to Mark.
 - ii. Timeline: TBD
 - b. Updating the Fish Passage Success Stories video (**Lead: TBD**)
 - i. Focus of video
 - ii. Coordination with Forum goals
6. Forum logo (**Lead: Robin Carlson**)
 - a. Concepts
 - i. Connectivity, whole-watershed access, lifecycle geography.
 - ii. 5C has image generated by the Forest Service that contains these themes. Mark will send to Robin.
 - b. Timeline: draft logo(s) for July Forum meeting.
7. Training
 - a. 5C is putting on a passage design workshop this year, and would like Forum members to consider the following questions and email Mark their thoughts:
 - i. Where should it be held?
 - ii. What should it focus on? Another design workshop similar to past workshops? New elements of design?
8. Committee organization and members
 - a. **Next interim committee coordinator: Michael Kellett**
 - b. Michael will stand in as the committee coordinator while Robin is on maternity leave. Committee leadership will be considered again November.
9. Next meeting
 - a. Michael will send out a poll to set up a meeting after the next Forum meeting.

CALIFORNIA FISH PASSAGE FORUM, July 23, 2012

CALIFORNIA FISH PASSAGE FORUM

Meeting Agenda

July 23, 2012

9.00 a.m. – 4:00 p.m.

NOAA Field Office 1655 Heindon Road Arcata, CA 95521

Alternate Public Meeting site: Department of Fish and Game 830 S Street Sacramento, CA 95811

¹

Agenda Items

Meeting commences at 9:00 a.m.

Welcome

Housekeeping

Introductions

Announcements

Committee Updates

Governance Committee

Outreach and Education Committee

Permitting and Policy Committee

Prioritization Committee

Informational Items

Barriers Identified in San Mateo County

Critical Linkages

LUNCH BREAK @12:00PM

Discussion Items

Education and Outreach for Water Conservation

Formation of Data Science Working Group

Presentation

Damon Goodman (USFWS) will talk about Lampreys

Meeting Wrap-Up

Review commitments, assignments and due dates

Confirm Next Forum Meeting date(s) and location

Final Announcements/Reminders

For information or reasonable accommodation contact:

Bob Pagliuco, 1655 Heindon Road, Arcata, CA 95501, (707) 825-5166, Bob.Pagliuco@noaa.gov





Robin Carlson, 830 S Street Sacramento Ca, 95811, (510) 735 9513, rcarlson@dfg.ca.gov

¹

Public Comments will be allowed following any decision the Forum makes. Public Comment will also be scheduled for the end of the meeting. Comments will be held to 3 minutes and may be shorter if multiple persons wish to speak.

CALIFORNIA FISH PASSAGE FORUM, September 21, 2012

Lancaster participated in the Fish Passage Forum (FPF) Engineering Working Group Meeting on Sept. 21st. The working group discussed their purpose and role within the FPF and developed a prioritized work plan.

	  	<p>DATE: September 21, 2012 TIME: 10:00am-noon</p> <p>LOCATION: Santa Rosa and Arcata NMFS Field Offices</p> <p>SR: 777 Sonoma Ave. Arcata: 1655 Heindon Rd.</p> <p>Phone Bridge: 866-745-3453 Participant Code:7173416</p>
	<p>AGENDA</p> <p>1. <u>California Fish Passage Forum</u> Engineering Working Group</p>	

Meeting called by:	Tim Ash	
Facilitator:	Tim Ash	
Scribe:	Tim Ash et al	
Attendees:	Engineering Working Group	Guests:

Agenda Topics			
Time	Topic	Who	Desired Outcome
10:00-10:10	Intro/Agenda review	All	Focus
10:10-10:25	Purpose of Engineering Working Group--Expectations	All	Review Role/Work Capacity
10:25-11:15	Brainstorm Potential Tasks/Topics	All	Develop List of Potential Tasks/Discussion Items/Potential Recommendations
11:15-11:45	Prioritize Task/Topics—Develop Workplan for next year	All	Develop prioritized workplan with responsible facilitators
11:45-11:55	Parking Lot Discussion Items	All	Address topics that came up during meeting
11:55-12:00	Set next meeting and adjourn	All	Set meeting date, time location(s)



California Fish Passage Forum Quarterly Meeting Agenda

Meeting called by: FORUM Chair & Members		Date: November 27, 2012	
Meeting place: Yolo Wildlife Area Headquarters 45211 County Rd. 32B (Chiles Rd.) Davis CA 95618		Alternate site: CDFG 1455 Sandy Prairie Court, Suite J Fortuna, California 95540	
Please bring: Any hard copy materials, hand-outs, CD's, DVD's, flash drives, etc. that you would like to share with the Forum Members, lunch if you wish		Starting time: 9:00 am Ending time: 4:00 pm	
Meeting Objective(s): Quarterly Fish Passage Forum Meeting – Committee updates, informational items, decision-making Participants/Invitees: Forum Members, Alternates, Guest Presenters, Public			
Agenda Item	Presented By:	Notes/Expected Outcomes	Time:
1. Welcome : Housekeeping, Agenda Review, Intro's, Announcements	J. Carboni/T. Schroyer	Start-Up, Review the day's meeting items	9:00 am
2. Committee Updates	Governance Committee Outreach & Ed Committee Permitting/Policy Committee Prioritization Working Group Engineering Working Group	~ <u>20 minutes each</u> to provide updates on recent committee activities	9:30 am
3. Informational Items	S. Allen S. Allen S. Allen T. Schroyer	New Forum Coordinator NFHAP Board Meeting Science and Data Committee Proposal	11:10 am 11:25 am 11:40 am -----



California Fish Passage Forum

Quarterly Meeting Agenda

		<i>Distribute DFG Priorities List</i>	
4. Lunch Break	ONE HOUR		12:00 noon
5. Discussion Items	S. Herzberg/All	<i>Fishnet 4C Funding How to Support Central Coast Recovery Efforts</i>	1:00 pm
	B. Pagliuco	<i>Watershed Inventories</i>	1:20 pm
	K. Shaffer	<i>2013 Strategy Document</i>	1:40 pm
6. Presentations	R. Kearney (USFWS)	<i>Landscape Conservation Cooperatives</i>	2:00 pm
	L. Mahan (NOAA)	<i>Monitoring Results From NOAA's Fish Passage Program</i>	3:00 pm
7. Meeting Wrap Up	J. Carboni/T. Schroyer	<ul style="list-style-type: none"> - Review Commitments, Assignments and Due Dates - Confirm Next FOUR Forum Meeting Dates and Potential Locations - Propose, List, & Confirm Future Topics for Discussion - Final Announcements & Reminders 	3:30 pm
8. Meeting Adjourns			4:00 pm

6. COHO RECOVERY TEAM

Sacramento.....6/12/12
Sacramento.....11/26/12

Coho Recovery Team, June 12-13, 2012

State Coho Salmon Recovery Team
Draft Meeting Agenda
June 12-13, 2012

1740 North Market Blvd.
Sacramento, CA 95834

All items appearing on this agenda may be deliberated upon and may be subject to action. The agenda order is subject to change.

Tuesday, June 12

09:00 Meeting Commencement

Welcome-

Review of Agenda

Public comment

Updates and discussions

1. DFG Recovery Efforts
2. NOAA Recovery Report Updates
3. PACT Central Coast Priority Action Coho Recovery

Discussion

12:00 LUNCH BREAK

1:30 Resumption of meeting

CRT Working Groups Presentations:

1. Forestry management and coho salmon recovery
2. Instream wood for coho salmon recovery

DISCUSSION

4:30 ADJOURN

Wednesday, June 13

8:30 Resumption of meeting

Public comment

Discussion of current topics of concern/interest: importance, issues, potential solutions, a role for the CRT- all topics are only tentative:

1. Coordination of recovery efforts in the CCC ESU
2. Expansion of captive rearing/conservation propagation efforts
3. Coho Help Bill AB 1961
4. Role of beavers in coho salmon recovery
5. Shasta River Coho Recovery
6. SONCC Coho Recovery Plan Development

Discussion

11:30 LUNCH BREAK

12:45 Resumption of meeting

Discussion of next steps:

Next steps

CRT Working groups- assignments, leads, time, product

CRT role in federal plan role out

CRT role in PACTs

Meeting(s) for 2012/13

Public comment

Final comments

4:30 ADJOURN

Public Comment- Public comments will be taken at the beginning and end of each day. Comment time will be 3 minutes but may be limited at the discretion of the Chair.

If you have any questions or require reasonable accommodation, please contact Stephen Swales at (916) 324-6903 or sswales@dfg.ca.gov.

Coho Recovery Team, November 26, 2012

The PD attended a Coho Recovery Team meeting in Sacramento on Nov 26th



California Coho Recovery Team Quarterly Meeting Agenda

<i>Meeting called by: CRT Chair</i>		<i>Date: Nov 26, 2012</i>	
<i>Meeting place: DFG Office of Training & Development 1740 North Market Blvd. Sacramento, CA 95834</i>		<i>Alternate site: None</i>	
<i>Please bring: Any hard copy materials, hand-outs, CD's, DVD's, flash drives, etc. that you would like to share with Recovery Team Members, lunch if you wish</i>		<i>Starting time: 8:30 am Ending time: 4:30 pm</i>	
<i>Meeting Objective(s): DFG, NOAA, CRT Working Group Updates; Current informational items, and Member Presentations Participants/Invitees: CRT Members, Alternates, Guest Presenters, Public</i>			
<i>Agenda Item</i>	<i>Presented By:</i>	<i>Notes/Expected Outcomes</i>	<i>Time:</i>
<i>1. Welcome : Housekeeping, Agenda Review, Intro's, Announcements</i>	<i>J. Carboni/S. Swales</i>	<i>Start-Up, Review the day's meeting items</i>	<i>8:30 am</i>
<i>2. Commission Coho Recovery Update Report</i>	<i>S. Swales</i>	<i>Summary & Update Presentation</i>	<i>9:00 am</i>
<i>3. Beavers & coho recovery report</i>	<i>S. Swales</i>	<i>Summary & Update Presentation</i>	<i>9:20 am</i>
<i>4. Marijuana cultivation and coho recovery</i>	<i>S. Downie</i>	<i>Informational Presentation</i>	<i>9:40 am</i>
<i>5. CCC and SONCC recovery plans</i>	<i>C. Ambrose/J. Weeder</i>	<i>Status Update Presentation</i>	<i>10:15 am</i>
<i>6. Priority Action Coho Team Technical Working Groups</i>	<i>S. Swales/ C. Ambrose</i>	<i>Progress Update</i>	<i>11:00 am</i>
<i>Lunch Break (Working Lunch)</i>	<i>All Participants Invited</i>	<i>Discussion, Q&A on Above</i>	<i>12:00 pm</i>
<i>7. AB 1961 – (Coho 'Help' Act)</i>	<i>K. Shaffer</i>	<i>DFG Implementation Update</i>	<i>1:00 pm</i>



California Coho Recovery Team

Quarterly Meeting Agenda

8. CRT Working Groups - Forestry	<i>R. Gienger</i>	<i>Progress Update Presentation</i>	1:20 pm
9. CRT Working Groups - Large Wood	<i>S. Beesley</i>	<i>Progress Update Presentation</i>	1:50 pm
10. Coho Recovery in Weaver Cr.	<i>M. Lancaster</i>	<i>Presentation</i>	2:20 pm
11. AB 1492	<i>R. Gienger</i>	<i>Presentation</i>	2:45 pm
BREAK			3:10 pm
12. Meeting Wrap-Up	<i>S. Swales/K. Shaffer/ J. Carboni</i>	<ul style="list-style-type: none"> - Review Commitments, Assignments and Due Dates - Confirm Next CRT Meeting Date(s) and Location - List/Confirm Topics for Next Meeting - Final Announcements & Reminders 	3:30 pm
12. Meeting Adjourns			4:30 pm

AGENDA

Coho Recovery Team Meeting

Meeting place: CDFW Office of Training & Development,
1740 North Market Blvd.,
Sacramento CA 95834

Dates: 03/26-27/2013

Time: 9:00 a.m. – 4:00 p.m.

Meeting called by Stephen Swales

Meeting facilitator: Joe Carboni

DAY 1

9:00 – 9:15 a.m. *Welcome and Introductions*

9:15 a.m. – 10:30 p.m. *Coho Recovery Updates:*

- CDFW (S. Swales)
- NOAA (J. Weeder, C. Ambrose)
- PACT (S. Swales, C. Ambrose)
- HELP (M. Olswang, K. Shaffer)
- CMP (K. Shaffer)

1045 a.m. -1230 p.m.

Presentations:

1. Coho Recovery in the Russian River (Mariska Obedzinski, CA Sea Grant)
 2. TNC Salmon Recovery Update (Lisa Hulette, TNC)
 3. Forestry & coho salmon working groups update (Duane Shintaku, CalFire)
 4. Marijuana cultivation & coho recovery update (Scott Bauer, CDFW)
 5. CalTrout coho recovery update (Darren Mierau, CalTrout)
 6. Trout Unlimited coho recovery update (Mary Ann King, TU)
-
-

12:30 – 1:30 p.m. Lunch

1:30 – 4:00 p.m. Discussion

DAY 2

9 a.m. - 12.30 p.m.

Coho Recovery Plan Implementation

Presentations from Salmonid Restoration Federation Annual Meeting,
Fortuna, March 13-16:

1. Julie Weeder, NOAA – Implementing California’s Salmonid Recovery Plans
2. Stephen Swales, CDFW – The Recovery Strategy for California Coho Salmon – An Update and the Way Forward

3. Darren Mierau, CalTrout – Pacific Salmonid Recovery at a Crossroads: Toward a More Unified Approach to Recovery Implementation
4. Jeanette Howard, TNC – Engaging the Public in the Recovery Planning Process

12.30 – 1.30	Lunch
1.30 – 3.45 p.m.	Discussion
4 p.m.	Meeting Close

- The PD also participated in the Coho Recovery Team meeting on June 12-13th in Sacramento. Discussions focused on the efforts in the Shasta River and Mattole River, woody debris, beavers in restoration, and various CRT working group updates..

CRT Meeting, June 12/13
Notes

1. Shasta River Coho Supplementation

- Table of options
- Hiring a coordinator (TNC grant)
- Workshop # 2 in Fortuna next year (SRF)
- Use DFG of calFish websites?
- SRF to help coordinate Shasta and Mattole working groups

2. Wood in Creeks

- Implement a wood symposium/workshop
- Coordinate with ‘Wood for Salmon’ group
- Logistics and regulations need to be the focus of this group consistent with the adopted CRS Recommendations including:
 - *RW-LW-08 Encourage Federal, State, and county agencies and private landowners to protect instream LWD to the greatest extent practicable without endangering public safety, life or property.*
 - *RW-XII-B-01a Identify those riparian vegetation communities that provide good opportunities for conifer LWD recruitment to coho salmon habitat. Communicate the importance of these riparian communities to appropriate agencies, restoration funding groups, and landowners, and work to maintain them in a healthy condition. Address and identify possible solutions to potential conflicts between flood management activities and maintenance of riparian vegetation and large woody debris.*
 - *RW-X-B-02 Offer funding and permit incentives to restore stream habitat where lack of LWD, riparian cover, simplified stream morphology and other conditions have been determined to be limiting factors to coho salmon habitat.*
 - *RW-XXXIII-A-01 Support enforcement of existing laws, codes, regulations, and ordinances that address the protection of coho salmon*

and their habitat. Habitat includes but is not limited to water (quality and quantity), pools, riffles, instream LWD, riparian vegetation and estuaries. Existing laws, codes, regulations, and ordinances include, but are not limited to FGC §§1600, 5650, 5900 through 6100 (with an emphasis on 5901, 5937, and 6100), PRC §§ 10000-10005, CESA, and the ESA. The term “enforcement” includes, but is not limited to, education, issuing warnings, issuing citations, developing cases for referral to district attorneys offices and/or the Office of the Attorney General.

- Costs:
 - *RW-XXII-A-04 Encourage restoration of LWD and shade by improvement of existing riparian zones through planting, release of conifers or other appropriate native species, and control of blackberries and other competitors. The Department and others should provide incentives to landowners, such as technical support.*
- Caution against use of targets- consider using improving trend metrics instead of targets. For example use pre-project inventory and post project by key species, volumes, linear ft, etc. to show a trend of improvement. This is consistent with the LWD target language used in nearly all watersheds where LWD is proposed to be added.

In a very few instances the CRS includes “target” like language for LWD as follows:

8.1.2.2 Wilson Creek HSA

SR-WC-01 Work with landowners to determine the amount of LWD necessary for improved flushing, pooling and habitat conditions for coho salmon, facilitate immediate placement, and develop a plan for long-term recruitment. SR= Smith River

CM-MW-01 Assess current levels of LWD, determine amount necessary for improved flushing, pooling and habitat conditions for coho salmon, facilitate immediate placement and develop a plan for long-term recruitment. CM= Western Subbasin of the Mattole River

MC-GA-09 Encourage coordination of LWD in streams as part of logging operations and road upgrades to maximize size, quality, and efficiency of effort. MC-GA= Garcia River

- At what point do fish respond?
 - Develop info. on what fish need
 - Wood storage sites
 - RR-HU-14 Sonoma and Mendocino County’s Public Works, Water Agencies and Flood Control District’s should reduce native riparian vegetation clearing and sediment removal adjacent to and in streams with coho salmon. Retain LWD within streams to the extent possible. When woody material is removed it should be stored and made available for stream enhancement projects.*
 - Contact list
 - Equipment
 - Incentives vs. regulation
- See relevant recommendations above as well as the following:

RW-XXII-A-04 Encourage restoration of LWD and shade by improvement of existing riparian zones through planting, release of conifers or other appropriate native species, and control of blackberries and other competitors. The Department and others should provide incentives to landowners, such as technical support.

KR-KG-13 Supplement ongoing efforts to provide short-term and long-term benefits to coho salmon by restoring LWD and shade through:

- a. LWD placement;*
- b. Management to promote conifer recruitment;*
- c. Improvement of existing riparian zones through plantings, release of conifers, and control of alders, blackberries, and other competitors; and*
- d. Incentives to landowners, such as technical support.*

NOTE: There are many with the same language as d above and I did not put them here.

- Wood decay rates and type (e.g. redwood vs. eucalyptus)
 - Hold formal meetings to produce a guidance document
 - SRF/CohoConfab Workshop Session
 - Send “concepts” that should be addressed to Kevin and Sarah by June 30
 - TNC will commit staff and search for funding for knowledge base & training
3. Mattole supplementation program
 - Funding needs - \$100 K
 - Workshop within 6 months
 - Work through PACT TWG
 - Mattole Working Group
 4. CRT Working Groups
 - SONCC Barriers Group – FPF will address
 - Forestry Group
 - Wood Group
 5. Beavers as a recovery tool
 - Re-introduction – not introductions
 - Avoid impact on irrigation systems
 - Must deal with “downstream assets”
 - Relocation is a separate management & science issue
 - California Beaver working Group
 - Change DFG regs on beaver control and bag limit
 - Pro-beaver non-lethal management tools
 - Scott/Shasta working group looking into protection/education policy changes/relocation
 - Beaver-riparian protection link
 - DFG evaluation plan?

6. Forestry Group

- Investigate use of DB's to consolidate and integrate cumulative effects info
- Speak with Department staff re. above

7. Barriers

- Share links to PAD & NOAA version
- Set up Barriers Working group
- FPF will address

8. TNC Salmon Report Card

- Unintended consequences of how info is interpreted
- Sends out a 'message of hope'
- Include habitat restoration actions
- Start by year—end?
- Grading categories?

7. RURAL ROADS EDUCATIONAL WEBINAR SERIES

Remote 4/7, 4/14, 4/21



RURAL ROADS EDUCATIONAL WEBINAR SERIES

May 7, 14 & 21, 11 am - 1pm

<http://ucanr.org/roadswebinar>



What are Rural Roads?

Rural roads are defined as low traffic roads located in forested and rangeland settings that serve residential, recreational and resource management uses. Rural roads may be owned and/or managed by governmental or private parties.

Why Are Rural Roads Important?

Rural roads are the backbone of the transportation system in rural California. They are critically important to residents, recreationists and resource managers. Rural roads are also associated with environmental impacts on water quality, fisheries and wildlife.

Webinar Series Goal

The goal of this educational program is to provide governmental and non-governmental personnel involved with road management with a comprehensive understanding of issues, design considerations and best management practices associated with rural roads in California. Specific objectives are:

- Review the main environmental issues associated with rural roads in California.
- Describe the fundamental principles of rural road design and operations.
- Describe practices used to minimize the environmental impacts of road construction, operations and maintenance.
- Review methods used for road assessment and inventory and prioritizing road treatments.

Webinar Logistics

Updated information and registration at:

<http://ucanr.org/roadswebinar>

Additional information can be obtained by contacting Dr. Richard Harris, rharris2464@sbcglobal.net, (707) 678-3504.

Program

There will be three series offered over the coming months. The first series will be held May 7, 14 and 21 from 11 a.m. until 1 p.m. The agenda is presented below.

Series 1: Rural Roads and the Environment

Session 1 May 7

- Rural Roads Defined: Dr. Richard Harris, Northern California Society of American Foresters
- Hydrologic and Water Quality Impacts: Drew Coe, Central Valley Regional Water Quality Control Board
- Geologic Constraints on Road Design and Operations: Dr. Michael Wopat, California Geological Survey

Session 2 May 14

- Effects of Roads on Wildlife: Sandra Jacobson, Pacific Southwest Research Station, USDA-Forest Service
- Roads and Exotic Species: Dr. Joseph Di Tomaso, University of California, Davis

Session 3 May 21

- Case Studies on Fish Passage and Sediment Reduction: Mark Lancaster, Five County Salmonid Conservation Program
- Case Study on Forest Roads: Kirk Vodopols, Mendocino Redwood Company

The second and third series are in the advanced planning stages. The second series will cover road drainage alternatives, stream crossings, road maintenance and erosion control practices. It will be scheduled in July or August on consecutive Mondays. The third series will cover road assessment, remedial and restoration treatments and treatment and maintenance costs. It will be held in September or October on consecutive Mondays. Presenters will include specialists from universities, resource agencies and private industry.

There will be related field trips held in several regions of California. The field trips will be designed to illustrate the principles and approaches covered in the webinar series. Locations and scheduling will be announced at the provided website.

Offered by the Northern California Society of American Foresters in Collaboration with the University of California Cooperative Extension

Funding provided by the USDA-Forest Service, State and Private Forestry with endorsement by the following:



The University of California, in compliance with the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and the Rehabilitation Act of 1973, does not discriminate on the basis of race, creed, religion, color, national origin, sex, or mental or physical handicap in any of its programs or activities, or with respect to any of its employment policies, practices, or procedures. The University of California does not discriminate on the basis of age, ancestry, sexual orientation, marital status, citizenship, medical condition (as defined in section 12926 of the California Government Code), nor because individuals are disabled or Vietnam era veterans. Inquiries regarding this policy may be directed to the Director, Office of Affirmative Action, Division of Agriculture and Natural Resources, 300 Lakeside Drive, Oakland, California 94612-3550, (510) 987-0097.

Issued in furtherance of Cooperative Extension work Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. B Allen-Diaz, Director

- Lancaster participated in a Board of Forestry (BOF) Forest Practice Committee workshop on proposed Road Rules, 2012 on May 24th.

STATE OF CALIFORNIA THE NATURAL RESOURCES AGENCY
EDMUND G. BROWN, Jr. *Governor* JOHN LAIRD, *Secretary*

STAN L. DIXON, CHAIRMAN

BOARD OF FORESTRY & FIRE PROTECTION
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SACRAMENTO, CA 94244-2460
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(916) 653-0989 FAX
Website: <http://www.bof.fire.ca.gov/>

SPECIAL MEETING ANNOUNCEMENT AND AGENDA

**FOREST PRACTICE COMMITTEE WORKSHOP ON
“ROAD RULES, 2012” REGULATORY PROPOSAL**

Meeting Date and Time: May 24, 2012, 9:00 am – 3 pm

Meeting Location: 15th Floor Large Conference Room, Resources Building
1416 9th Street, Sacramento, California

The purpose of this special meeting is to review and discuss comments to date and the various elements of the “Road Rules, 2012” rulemaking proposal. No actions will be taken on the rulemaking proposal. For those who cannot attend in person, it may be possible to participate by teleconference or a web-based remote conferencing system. Board staff is working on these arrangements. For more information on these options, please contact Cal Fire regulations coordinator, Eric Huff at 916-616-8643 or by email to eric.huff@fire.ca.gov.

AGENDA

1. Call to Order and Introductions.
2. Explanation of Purpose of Meeting.
3. Review and Discussion of Comments to Date and Elements of Rule Proposal.

ADJOURN

Those requiring further information regarding this meeting notice may contact George D. Gentry, Executive Officer, State Board of Forestry and Fire Protection, P.O. Box 944246, Sacramento, CA, 94244-2460, (916) 653-8007. This meeting notice is also available in electronic format at: http://www.bof.fire.ca.gov/board_business/meeting_agendas/

Page 1 of 1

6. On Sept. 24th, the PD and PM attended a joint Trinity River Watershed Council and TRRP Watershed.

Meeting Summary

WATERSHED GROUP

Trinity County Resource Conservation District Office, Weaverville, CA

Monday September 24, 2012

Monday September 24, 2012 10:00 AM

Participants

Core members: Kent Steffens, Trinity River Restoration Program (TRRP) and workgroup coordinator; Dave Gaeuman – Trinity River Restoration Program (TRRP); George Kautsky, Hoopa Valley Tribe (HVT); Doug Chow National Marine Fisheries Service (NMFS); Shane Quinn, Yurok Tribe; Andy Hill, California Department of Fish and Game (CDFG); Bill Brock, US Forest Service (USFS); Mark Lancaster, Five Counties Salmonid Conservation Program (5 C's).

Other members: Alex Cousins, Trinity County Resource Conservation District (TCRCD).

Other attendees: Josh Smith, South Fork Trinity Watershed Center; Sandra Perez (5 C's).

Note Taker: Gus Kormeier, Ecosystems Northwest (ENW).

Action Items derived during the Meeting

Kent Steffens will send out the updated Annual Watershed Flow Chart diagram to the group by October 1, 2012.

Watershed Workgroup members will develop detailed proposals and budgets for projects identified for FY2013 by November 15, 2012.

Alex Cousins, Mark Lancaster, Sandra Perez, Josh Smith, and Andy Hill will interact locally to prioritize the Watershed Workgroup projects for submittal.

Kent Steffens will put out a Doodle Poll for a TRRP meeting on the 3rd week November.

Summary of Meeting by Agenda Items

2. Introductions/Agenda Review

Kent Steffens, Watershed Workgroup coordinator, opened the meeting and went through the introductions and the agenda. The Annual Watershed Flow Chart diagram had been presented in July; during this meeting he noted that he was seeking feedback and approval of the diagram for the next meeting.

3. 2012 Watershed Implementation Contract Update

Kent Steffens reported that \$497,000 was awarded from Trinity River Restoration Program (TRRP) budget with matching funds for projects in 2012. The late date of awarding was somewhat expected and projects had been planned with FY2013 December completion.

Projects approved by TRRP were Connor Creek, Sidney Gulch, LIDAR for East Weaver and Indian Creek, and BLM Road decommissioning. LIDAR was done last year for West Weaver, East Branch of East Weaver and Indian Creek.

The Watershed Workgroup formally submitted three bids for the watershed assessment; all three bids submitted were competitive and presented unique solutions. The bids were not approved by the Trinity Management Council (TMC), as there was a desire to review bid proposals to see what they were getting. However, the federal bid rules forbid this sharing. There was not time to put another contract together during the 2012 fiscal year.

4. 2013 Watershed Budget update

Kent Steffens reported that currently, the FY2013 budget is still in progress with the expectation of \$0.5 million for watersheds. If there are some good projects, there is some expectation of being able to increase the allocation to the Watershed Group.

5. Group Discussion on Watershed Flow Diagram

Kent Steffens and Alex Cousins reported that they have been working on the Annual Watershed Flow Chart diagram to show the order of how things work for the funding cycle. The workgroup discussed the planning process. George Kautsky asked if the flow chart is based on experience or need. Steffens responded that the diagram is based on getting everything ready for the contractors to do their work when

needed. The contracts have to be after the budget and before bid. Mark Lancaster noted that the optimum time for having a contract done is November. He explained that if the bids are out in the spring, the contractors typically will have already filled their summer work schedules and will need to increase staffing to meet the need. The more lead time, the better cost savings from the contractor. Steffens suggested having a three-year or two-year agreement so that the contractor is able to plan further out and the seasonal factors or any delays are not as big an effect. Steffens asked Alex Cousins, Josh Smith and Mark Lancaster what works better for them.

Cousins said that a May award date with 18 months till completion gives time to line up work and arrange the matching funds. There was some concern about having overlapping grants. Steffens remarked that he does not know of any issues of having grants overlapping but needs to check on it.

Kautsky and Cousins entered into a discussion of budgeting and how the TCRCDC can spend 2012 money in 2013 or 2014 with a three-year agreement. Dave Gaeuman suggested that the project be delinked from the funding, to “get them on the shelf” in Kautsky’s words. Steffens brought up, and Lancaster agreed, the fact that scrutiny on projects and funding is getting “tougher.” Cousins noted that typically, with the Forest Service, the TCRCDC will have three- to five-year agreements. The money can be budgeted out and reported. Lancaster and Cousins pointed out that the TRRP gets the most “bang for its buck” from multi-year agreements, and the organizations are able to find opportunities to combine projects or other matching funding to better achieve results. While discussing the typical fiscal year timeline, Lancaster noted the current situation with the Weaver Creek exposed sewage line project. He stated that the Five Counties is trying hard to get the work done this year in spite of a late award and has plans to attempt to do in-stream work on October 21, 2012.

Steffens noted that last year, the TRRP selected final project scopes in October to December with decisions typically happening in early January. The Watershed Workgroup needs to discuss desired projects in July and August. Kautsky suggested if those discussions are moved to May, then they can be included with the TRRP deliberations in June. Lancaster stated that the flow chart, as long as it is with a three-year completion date, works with matching organizations and that May-June is better timing for project prioritization (before in-stream work season begins). Cousins stated that the TRRP can set the schedule and they will adjust, as long as it is set. Lancaster pointed out that, the further dates are pushed back, the more “time crunch” that is created for the TRRP. One idea considered in the past is for the organizations to have five year revolving plans.

Cousins suggested an inside line on the flow diagram in June where the Watershed Workgroup would present projects that could be put in mind by the TMC when doing their budget. Cousins noted that one challenge for the Watershed Workgroup is knowing what is needed by the TMC. Steffens responded that the narratives presented last year with broad category budgets fit well. This information could then be used by the TMC to budget. Cousins then suggested changes to the flow diagram. Gaeuman pointed out that the bottom portion of the flow diagram is beyond this group’s control.

There was more consideration of having five-year working plans that would allow the partners to help coordinate projects to make them more likely to occur. Lancaster gave the example of flood control in Garden Gulch in Weaverville which will involve lining up Trinity County Department of Transportation, Cal-Trans, Forest Service, and TRRP funding.

Steffens asked if there was understanding of Andrea’s (TRRP) comments that had been sent to group members.

Steffens noted that the unofficial watershed budget is \$500,000. There was a discussion that the greater the number of good project ideas that are presented, the more likelihood that the TRRP will possibly sign on.

Break

6. Discussion of Potential FY2013 Projects

Alex Cousins introduced the discussion of potential FY2013 projects and described some ideas from TCRCDC. Cousins brought up a project for land stewardship in Grass Valley Creek that would protect the work already done in that area. The project involved fixing roads for access, and fuels reduction, using variable funding levels to make it a sustained effort. TCRCDC signed a 10-year agreement with the BLM for land stewardship in the entire Grass Valley watershed. The main concern is avoiding catastrophic fires that then lead to excessive erosion.

TCRCD wants to develop a native plant nursery locally to incorporate the Forest Service and high schools to provide plugs, seed collection, and revegetation for restoration projects. Bill Brock noted the history of the TRRP funding the Six Rivers nursery in McKinleyville during the 1990's. Cousins also stated that the TCRCD often gets request for expertise, the nursery would be part of having expertise available. Cousins noted that the TCRCD knows there is a market, and that "we are the market." The TCRCD can get the schools involved to help make it happen and connect kids to local restoration jobs. Josh Smith added that the Watershed Center is already jumping into the idea of developing a nursery by starting a relationship with Hayfork High School. Mark Lancaster asked about the existing need for a tree cooler and noted the availability of Shasta College students. Cousins responded that the TCRCD already has a 53-foot cooler that can be used. The TCRCD would like to develop a business plan for initial capital outlays and ongoing costs. The high school contacts discussed were Mike Rourke of Trinity High School and Tad Drain of Hayfork High School. Mike Rourke has timber industry contracts that would also "dove-tail" into this project. Lancaster noted that a local, native-plant nursery would then be able to provide the local communities with native plants for landscaping and that would encourage reduced water usage through xeric landscaping. Brock stated that the Forest Service has had problems in the past with sourcing plants from significant distances.

Lancaster suggested ongoing funding for the Forest Service to use GIS to maintain the road inventory within the 40-mile river section. Brock noted that, in the past, there were instances of blocked culverts during wet winters causing massive destruction due to a lack of maintenance.

Josh Smith presented photos from the Browns Creek drainage mapping of private property that the Watershed Center and Five Counties have been working on. Typically, the group has been excluded from larger private timber lands. He noted that there are many examples of poor road maintenance, improper culvert sizing, road erosion, and a general need to educate landowners. The Five Counties and the Watershed Center are working to get the inventory done by the end of the year. The projects have been prioritized within Browns Creek which is a prioritized watershed by the TMC. Smith stated that he has spent more time educating landowners than actually doing the work, which is a major aspect of this project. Cousins noted the opportunity for the TRRP to educate the populace on good practices and how the TRRP's funding can help landowners and solve a public need. The Watershed Center is planning on starting an immediate implementation project that will show both problem areas and fixed areas.

Cousins and Lancaster asked about the slide on East Branch and TRRP funding for LIDAR, but there was no clarity on the TRRP plans. Cousins expressed interested in combining funding to expand the area covered while the flight is already up. For instance Lancaster needs LIDAR for the dam removal on East Weaver. Lancaster expressed that his concern with the slide on East Branch is with the culvert near the confluence with East Weaver being affected by increased sediment. The group decided to put together a proposal for LIDAR on East Branch, if it is tagged onto an ongoing flight.

Sandra Perez stated that she is finishing up Sidney Gulch, in-stream improvement. Phase II, which is not currently covered, is to finish up design and move to implementation. The concept designs are done and some of the initial environmental and archaeological studies have begun. It was clarified that this project was done to address sediment yield.

There was a group discussion of presenting projects for habitat improvement on tributaries. Lancaster began a presentation of project ideas. He noted that there is a diversion ditch from Schofield Gulch which is yielding large amounts of sediment into East Weaver Creek. Another project proposal similar to Smith and Perez's Brown's Creek project is to do something similar for private property on Weaver Creek. This would take advantage of the methodology that was developed for Brown's Creek. For migration barriers, Lancaster noted Scharber Creek but that it is below the 40-mile stretch. Lancaster stated that Upper East Weaver Dam removal has a feasibility proposal out to Fish and Game, and that he will not know the status until March 2013.

Lancaster included a Canyon Creek barrier reassessment. There are five barriers in tributaries to Canyon Creek but Lancaster believed that they are not worth pursuing but would like to send his biologist. After a discussion with Andy Hill, this issue was resolved.

Lancaster continued with Weaver Bally Loop barrier removal. This project has design and they are working on permitting.

Lancaster then detailed a list of projects involving Garden Gulch in Weaverville. These include a 10-foot-tall, dam-barrier that is easy to remove. Where Garden Gulch intersects with Highway 299, he expects a

minimum of \$200,000 for the design and permitting phase. Garden Gulch at Barbara Avenue there is a potential project to replace a culvert.

On other potential projects, Lancaster noted that where East Branch runs under East Weaver Road, there is a barrier that could become a priority based on the behavior of the slide on East Branch.

Lancaster discussed a Sediment Based Education Outreach Project, that is designed to help develop a County grading ordinance.

Cousins noted the potential for an assessment of West Weaver basin.

Cousins lead the group in looking at the schedule by working backwards. January is when final scopes and detailed budget for selected projects are due. Final proposals with detailed budgets are due by November 15. At this point the group will discuss them and decide which to elevate to the top. November 15 is later than the flow chart, but combines two parts.

Next the group prepared a spreadsheet listing of projects discussed and then assigned implementation years and went over prioritization. The focus was put on making the list longer than expected funding for a single year.

The group had a discussion about the lack of studies on the effects of marijuana cultivation. Group discussed the next steps that could be taken to develop studies.

Adjourn meeting 1:00 PM

Watershed Group Meeting Agenda

September 24th

10:00 pm to 3:00 pm

Location: Trinity County RCD Office in Weaverville, CA

Coordinator/Facilitator:

Kent Steffens and Alex Cousins

Desired Outcomes:

- 3.1. Approve Watershed Flow Diagram
- 3.2. Discuss Upcoming Work Possibilities

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- a. Watershed Flow Diagram

Agenda Items

Date: Monday September 24th 2012 from 10:00 am to 3:00 pm	
Time	Topic
10:00	Introductions / Agenda Review
10:15	2012 Watershed Implementation Contract Update
10:30	2013 Watershed Budget Update
11:00	Group Discussion on Watershed Flow Diagram
11:30	Break
12:00	Discussion of Potential FY 2013 Projects
3:00	Adjourn Meeting

7. Board of Forestry

The Program Director participated in a Board of Forestry (BOF) Forest Practice Committee workshop on proposed Road Rules, 2012 on May 24th via web conference. The BOF is considering costs and strategies for road work implemented by various entities in order to develop cost estimates of implementing proposed BOF road rules. The Program Director conveyed the experiences of the 5C in relevant sediment reduction and similar work

STATE OF CALIFORNIA
EDMUND G. BROWN, Jr. *Governor*

THE NATURAL RESOURCES AGENCY
JOHN LAIRD, *Secretary*

STAN L. DIXON, **CHAIRMAN**

BOARD OF FORESTRY & FIRE PROTECTION
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SPECIAL MEETING ANNOUNCEMENT AND AGENDA

FOREST PRACTICE COMMITTEE WORKSHOP ON “ROAD RULES, 2012” REGULATORY PROPOSAL

Meeting Date and Time: May 24, 2012, 9:00 am – 3 pm

Meeting Location: 15th Floor Large Conference Room, Resources Building
1416 9th Street, Sacramento, California

The purpose of this special meeting is to review and discuss comments to date and the various elements of the “Road Rules, 2012” rulemaking proposal. No actions will be taken on the rulemaking proposal. For those who cannot attend in person, it may be possible to participate by teleconference or a web-based remote conferencing system. Board staff is working on these arrangements. For more information on these options, please contact Cal Fire regulations coordinator, Eric Huff at 916-616-8643 or by email to eric.huff@fire.ca.gov.

AGENDA

1. Call to Order and Introductions.
2. Explanation of Purpose of Meeting.
3. Review and Discussion of Comments to Date and Elements of Rule Proposal.

ADJOURN

Those requiring further information regarding this meeting notice may contact George D. Gentry, Executive Officer, State Board of Forestry and Fire Protection, P.O. Box 944246, Sacramento, CA, 94244-2460, (916) 653-8007. This meeting notice is also available in electronic format at: http://www.bof.fire.ca.gov/board_business/meeting_agendas/

Page 1 of 1

The Program Director gave a presentation on the 5C Program to the Board of Forestry in Sacramento on Apr 3rd. Approximately 45-50 persons present representing timber, environmental, agency and general public interests attended. Four members of the Board of Forestry sat as the Committee.

STATE OF CALIFORNIA
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MEETING ANNOUNCEMENT AND AGENDA^{§§}

Announcement Date: March 22, 2012

FULL BOARD:

EXECUTIVE SESSION

Location: Resources Bldg., 1416 Ninth Street ,Sacramento, California

April 3, 2012

Time: 3:30 p.m.

REGULAR SESSION

Location: Resources Auditorium. 1416 Ninth Street ,Sacramento, California

April 4, 2012

Time: 8:00 a.m.

COMMITTEES:

FOREST PRACTICE COMMITTEE

Location: Resources Auditorium. 1416 Ninth Street ,Sacramento, California

April 3, 2012

Time: 9:00 a.m. – 11:30 a.m.

RESOURCE PROTECTION COMMITTEE

Location: Resources Auditorium. 1416 Ninth Street ,Sacramento, California

April 3, 2012

Time: 1:00 p.m. – 3:30 p.m.

FOREST PRACTICE COMMITTEE

Location: Resources Auditorium, 1416 Ninth Street, Sacramento, California

§§ Agenda truncated to include only relevant information

April 3, 2012

Time: 9:00 a.m. – 11:30 a.m.

1. Presentation by the Five Counties Salmonid Conservation Program (5C). Mark Lancaster, Program Director.

The goal of the Five Counties Salmonid Conservation Program (5C) is to seek opportunities to contribute to the long-term recovery of salmon and steelhead in Northern California. 5C is a project of the Northwest California Resource Conservation & Development Council.

10. WORKSHOPS

SRF Coho Confab	8/17-19
Coastal Off-channel and Tidal Habitat Restoration Symposium Agenda.....	11/15-16
SRF 31st Annual Salmonid Restoration Conference	3/13-16
Water Conservation Workshop.....	3/23/2013
Beaver Workshop.....	2/9/2013
Roads Workshop.....	10/22-25/2012
Fish Passage Design and Implementation Workshop.....	2/6-8/2013

Coho CONFAB, August 17-19, 2012



Coho Confab August 17-19, 2012

Sponsored by Trees Foundation, Salmonid Restoration Federation,
California Department of Fish & Game, Five Counties Salmonid Program

Working Together Towards Coho Recovery

Friday, August 17

5:00-6:30pm Check-in Meet at Indian Creek Lodge on the Trinity River

6:30pm Community Dinner

7:30pm Confab Welcome with Trees Foundation and Salmonid Restoration Federation

7:45pm Keynote Presentations

Weaver Creek: a Microcosm of Coho Challenges in California. Where Do We Go From Here? Mark Lancaster, Five Counties Salmonid Program

Will the \$16 Million per Year Trinity River Restoration Program Help Restore Coho? Arnold Whitridge, Trinity River Advocate
Coho Salmon Population Structure in the Klamath Basin, Carlos Garza, PhD, Research Geneticist, Southwest Fisheries Science Center, NOAA Fisheries

Saturday, August 18

7:30-8:30am Breakfast Pack lunches for field day and check-in for Saturday arrivals

8:30-9:30am Opening Circle Workshop announcements and presenter introductions

9:30am-4:30pm Passage through Time: Viewing a Decade's Work of Large Wood Management and Migration Barriers (full-day tour), Mark Lancaster, Five Counties Salmonid Program, and Christine Jordan, U.S. Forest Service

9:30am-12:30pm Concurrent Morning Tours

1. **Fun with Bugs and How They Can Help Make your Restoration Project Look Good,** Dr. John Sandberg and Joe Slusark, Aquatic Entomologists, California Department of Fish & Game Aquatic Bioassessment Lab

2. **Sediment Reduction, Excavating Stream Crossings and Road Upgrades in the Weaverville Basin,** Cynthia Tarwater, Project Coordinator, Trinity River Resource Conservation District

1:30-4:30pm Concurrent Tours

1. **Underwater Fish Identification,** Joshua Smith, South Fork Trinity River Watershed Coordinator

2. **Sidney Gulch: An Urban Stream with High Affinity for Coho,** Sandra Perez, Five Counties Salmonid Program, and Eric Wiseman, U.S. Forest Service

5:00-6:30pm Saturday Open Forum

Landscape of Coho Recovery, Julie Weeder, Recovery Coordinator, NOAA Fisheries, and Darren Miereu, CalTrout

Saturday Evening

7:00-8:00pm BBQ Dinner

8:00pm Music with Alice DiMichele, River Troubadour

Sunday, August 19

8:30-10:30am Pack Up and Breakfast

10:30-11am Closing Circle

11:00am-3pm Concurrent Tours

1. **River Restoration Tour from Lewiston Dam to Indian Creek,** Yurok Tribal Fisheries Program

2. **Fun with Bugs and How They Can Help Make your Restoration Project Look Good,** Dr. John Sandberg and Joe Slusark, Aquatic Entomologists, California Department of Fish & Game Aquatic Bioassessment Lab

3. **Evolution of Mainstem Channel Rehabilitation Design on the Trinity River,** Dave Gaeuman and Brandt Guturmuth, Trinity River Restoration Program

Coastal Off-channel and Tidal Habitat Restoration Symposium Agenda (Task 9b)

November 15-16, 2012, Eureka, California

Humboldt Bay Aquatic Center

Symposium Agenda, 9am to 5pm, November 15

The Background and Development of Off-Channel and Estuary Habitat Restoration for Coho Salmon in California, *Mitch Farro*, Pacific Coast Fish, Wildlife and Wetlands Restoration Association

Response of Juvenile Salmonids to Habitat Restoration in the Tidal Portions of Humboldt Bay Tributaries, *Michael Wallace*, Environmental Scientist, Natural Stocks Assessment Project, California Department of Fish & Game

Regulatory Compliance and Constraints in the Coastal Zone; Case Studies on Humboldt Bay Tributaries, *Aldaron Laird*, Environmental Planner, Trinity Associates

Addressing Geomorphic and Hydraulic Controls in Off-channel Habitat Design, *Conor Shea*, U.S Fish and Wildlife Service

DFG's Design Guidelines for Off-Channel and Side Channel Habitat Restoration Projects, *Mark Smesler*, Regional Engineering Geologist, California Department of Fish and Game

Salmon Creek Tidal Sloughs and Off-Channel Roads: The Design Process and Post-Construction Observations, *Michael Love*, Michael Love and Associates

Biogeomorphic Approaches to Creating Off-Channel Habitat, *Rocco Fiori*, Yurok Tribal Fisheries Program

Modern Tidegates and Muted Tidal Regulators, *Leo Kuntz*, Tidegate Specialist, Nehalem Marine

Poster Session and Reception, 6pm to 8pm, November 15

Please join Salmonid Restoration Federation for a poster session and reception to highlight Coastal Off-channel and Tidal Habitat Restoration Efforts on the North Coast. To present at the poster session you must be registered for the symposium and email srf@calsalmon.org to reserve a space.

This two day symposium will provide overviews and methodologies of innovative restoration techniques that were employed in the Humboldt Wildlife Refuge, coastal tributaries, and the Klamath estuary including restoring the natural meander of the estuarine side-channel, wood loading to provide structure and diversity, and restoring the salt marsh. Participants will tour estuary and wetlands restoration sites, coho off-channel habitat, and tide gate designs.

Concurrent Field Tours, 9am to 5pm, November 16

Field Tour #1: Salmon Creek Delta and Jacoby Creek Off-Channel Pond

The tour will include the Salmon Creek Delta on the Humboldt Bay National Wildlife Refuge. Participants will view and learn about the constructed slough channel, five new off-channel ponds, and large wood structures. Each pond was constructed with different objectives and have varying shapes and connections to Salmon Creek. Mitch Farro, Michael Love, and Conor Shea

will discuss the project design and construction, and physical the geomorphic and hydraulic processes at work. Mike Wallace with DFG will discuss his techniques and finding from ongoing fish utilization monitoring. The group will then visit the new tide gates designed to restore a muted tide to Salmon Creek and the restored salt marshes created by raising subsided lands from project spoils. Participants will also visit the abandoned off-channel pond on Jacoby Creek Land Trust. Through a FRGP grant, the project site is currently being studied for restoring fish access to the pond. Participants will learn about the site characterizations employed for off-channel habitat design development, and the considerations that go into developing a project.

Field Tour #2: Biogeomorphic Approaches to Creating Off-Channel Habitat

In 2009, the NOAA Restoration Center awarded the Yurok Tribe \$547,000 in Recovery Act funds to improve habitat in tributaries to the Lower Klamath River near the Oregon border. Early monitoring results have already shown promising signs—fish have moved into this newly-created habitat, and they are growing bigger and faster than in headwater streams, which lack slow-moving winter habitat. With the Recovery Act funding, the Tribe working with Rocco Fiori was able to plant and restore 200 acres of riparian buffers on Terwer and McGarvey Creeks; Install engineered log jams and 200 willow baffles (rows of brush and rocks on the creek banks to stabilize the bank and prevent erosion); and Create two offchannel ponds on lower Terwer Creek. Soon after the off-channel ponds were completed, they quickly provided crucial winter habitat for Klamath River coho and Chinook salmon and steelhead trout. The ponds act as a slow water refuge for salmonids. Participants will have a chance to see these innovative projects.

Coastal Off-channel and Tidal Habitat Restoration Symposium Attendance List (task 9b)

LastName	FirstName	Email	Affiliation
Allan	Don	don@nrsrcaa.org	NRS-RCAA
Asarian	Eli	eli@riverbendsci.com	Riverbend Sciences
Ash	Tim	tim_ash@dot.ca.gov	CalTrans
Ashton	Diane	diane.ashton@noaa.gov	NOAA - National Marine Fisheries Service
Barber	Drew	drew@mattolesalmon.org	Mattole Salmon Group
Barnard	Keith	k_barnard@suddenlink.net	Graham Matthews and Associates
Beesley	Sarah	sbeesley@yuroktribe.nsn.us	Yurok Tribal Fisheries Program
Benson	Craig	craig@nrsrcaa.org	RCAA
Bolton	Lisa	lbolton@tu.org	Trout Unlimited
Bridy	Laura	laura@pcfwwra.org	PCFWWRA
Butterworth	Charles	cbforging@yahoo.com	ERWIG
Carah	Jennifer	jcarah@tnc.org	The Nature Conservancy
Diaz	Carlos	cdiaz@esassoc.com	ESA PWA
Donnell	AJ	adonnell@blm.gov	US Bureau of Land Management
Eicher	Annie	aeicher@harveyecology.com	H. T. Harvey and Associates
Farro	Mitch	pcfwwra@reninet.com	PCFWWRA
Feral	Dave	theferals@suddenlink.net	Mad River Alliance
Fetcho	Ken	kfetcho@yuroktribe.nsn.us	Yurok Tribe
Fiori	Rocco	rocco.fiori@gmail.com	Fiori Geosciences
Fox	Patrick	patrick.fox@ccc.ca.gov	AmeriCorps Watershed Stewards Project
Frederickson	Jason	frederickson@me.com	California Conservation Corps
Garrett	Kelley	karrett1962@sbcglobal.net	
Griggs	Ken	kenneth_griggs@fws.gov	Humboldt Bay National Wildlife Refuge
Guensch	Greg	Gregory.Guensch@scwa.ca.gov	Sonoma County Water Agency
Hall	Jessica	jessica@humboldtbykeeper.org	Humboldt Baykeeper
Halligan	Dennis	dennis@stillwatersci.com	Stillwater Sciences
Hanington	Matt	mhanington@yuroktribe.nsn.us	Yurok Tribe
Hennessey	Kathryn	kathryn.hennessey@ccc.ca.gov	AmeriCorps Watershed Stewards Project
Herbst	Chris	chrish@pacificwatershed.com	Pacific Watershed Associates
Hiner	Monica	mhiner@yuroktribe.nsn.us	Yurok Tribe
Horton	Gregg	ghorton@scwa.ca.gov	Sonoma County Water Agency
Hulette	Lisa	lhulette@TNC.ORG	The Nature Conservancy
Israel	Joshua	jaisrael@usbr.gov	U. S. Bureau of Reclamation
Iverson	Rachel	riverson@dfg.ca.gov	AmeriCorps Watershed Stewards Project
Jackson	Jeff	jeffrey.b.jackson@state.or.us	OR Dept of Fish and Wildlife
James	Travis	travis.james@ghd.com	GHD Winzler and Kelly
Kalt	Jennifer	jkalt@humboldtbykeeper.org	Humboldt Baykeeper
Kraemer	Todd	toddk@pacificwatershed.com	Pacific Watershed Associates
Kramer	Sharon	skramer@harveyecology.com	H. T. Harvey and Associates
Kuntz	Leo	tidegates@oregoncoast.com	Nehalem Marine MFG.
Laird	Aldaron	riverplanner@sbcglobal.net	Trinity Associates
Lancaster	Mark	mlancaster@5counties.org	5 Counties Salmonid Conservation Program
Ledwith	Tyler	tyler@nrsrcaa.org	Redwood Community Action Agency
Leroy	Tom	TomL@pacificwatershed.com	Pacific Watershed Associates
Leroy	Susan	susan_leroy@dot.ca.gov	CalTrans
Llanos	Antonio	llanos@h2odesigns.com	Michael Love & Associates

Love	Michael	mlove@h2odesigns.com	Michael Love & Associates
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Madrone	Sungnome	sungnome@madroneenterprises.	Madrone Enterprises, Mattole Salmon Group
Manning	David	dmanning@scwa.ca.gov	Sonoma Co. Water Agency
Martini-Lamb	Jessica	jessicam@scwa.ca.gov	Sonoma County Water Agency
Meyer	Keytra	keytra.meyer@gmail.com	SRF Board of Directors
Mierau	Darren	DMierau@caltrout.org	California Trout
Miles	Mike	mmiles@hrcllc.com	Humboldt Redwood Company
Miller	Michael	mmiller@mendocinolandtrust.org	Mendocino Land Trust
Miller	Michael	mmiller@mendocinolandtrust.org	Mendocino Land Trust
Moore	Chris	chrism@pacificwatershed.com	Pacific Watershed Associates
Nelson	Eric		US Fish and Wildlife Service
Obedzinski	Mariska	mobedzinski@ucsd.edu	UC Cooperative Extension
Pagliuco	Bob	bob.pagliuco@noaa.gov	NOAA's Restoration Center
Peters	Jeff	jeff.peters@icfi.com	ICF International
Porter	Daniel	dporter@tnc.org	The Nature Conservancy
Poteet	Andrea	apoteet@ccc.ca.gov	California Conservation Corps
Pounds	Jacob	jpounds@bluelakerancheria-nsn.g	Blue Lake Rancheria Environmental Division
Pryor	Bonnie	bonnie@northernhydrology.com	Northern Hydrology and Engineering
Ralson	Neil		H. T. Harvey and Associates
Ruttenberg	Denis	denis.ruttenberg@ca.usda.gov	NRCS
Scriven	Joe	joe.scriven@mcrcd.org	Mendocino County RCD
Shea	Rachel	shea@h2odesigns.com	Michael Love and Associates
Shea	Conor	conor_shea@fws.gov	US Fish and Wildlife Service
Sheahan	Joseph	joseph.e.sheahan@state.or.us	OR Dept of Fish and Wildlife
Short	Darci	darci_short@nps.gov	Redwood National Park
Simpson	Nicholas	nsimpson@hrcllc.com	Humboldt Redwood Company
Smelser	Mark	msmelsers@dfg.ca.gov	California Department of Fish and Game
Smith	Justin	jpsmith@scwa.ca.gov	Sonoma County Water Agency
Starks	Brian	Brian.Starks@ccc.ca.gov	AmeriCorps Watershed Stewards Project
Stolzman	Dana	srf@calsalmon.org	Salmonid Restoration Federation
Strange	Joshua	joshstrange@hotmail.com	Stillwater Sciences
Tauzer	Margaret	margaret.tauzer@noaa.gov	NOAA Fisheries
Torso	Kathleen	ktorso@yuroktribe.nsn.us	AmeriCorps Watershed Stewards Project
Troyer	Josh	jtroyer@dfg.ca.gov	Pacific States Marine Fisheries Commission
Vasquez	Vanessa	vanessa@humboldtbykeeper.org	Humboldt Baykeeper
Wallace	Michael	mwallace@dfg.ca.gov	Calif. Dept. of Fish & Game
Weeder	Julieulie	julie.weeder@noaa.gov	National Marine Fisheries Service
Weseloh	Tom	tom.weseloh@asm.ca.gov	Joint Committee on Fisheries and Aquaculture
White	Louis	lwhite@esassoc.com	ESA PWA
Wilson	Carol	carol_wilson@dot.ca.gov	CalTrans
Wright	David	dwright@cambellgroup.com	Campbell Timberland Mgmt.

SRF 31st Annual Salmonid Restoration Conference 3/13-16

31st Annual Salmonid Restoration Conference***

Innovative Approaches to Fisheries Restoration

**March 13-16, 2013
Fortuna, CA**

Addressing Water Diversions That Impact Salmonids and Watershed Health

Session Coordinator:

Mark Lancaster, Five Counties Salmonid Conservation Program

Fisheries Impacts of Marijuana Cultivation: Policy Implications

Scott Greacen, Friends of the Eel River

A Strategy for Improving Spring-run Chinook Salmon and Steelhead Passage in Lower Antelope Creek

Jay Stallman, Stillwater Sciences

Water Conservation and Off-channel Storage to Restore Instream Flows in Sonoma County

John Green, Gold Ridge Resource Conservation District

Giving Can Be Complicated--Instream Dedications to the Environment from a Water Right Owner's Point of View

John Letton, Owner of Indian Creek Lodge

Changing Community Water Use Practices to Increase Flows for Salmonids

Tasha McKee, Sanctuary Forest

Climate, Cumulative Effects and Conditions to Counter Them

Mark Lancaster, Five Counties Salmonid Conservation Programs

*** Truncation of agenda to show relevant items

WATER CONSERVATION WORKSHOP

March 23, 2013

On Saturday, March 23, 2013, the 5 Counties hosted a water conservation workshop from 10am-1pm. The workshop was held at our office at 40 Horseshoe Lane in Weaverville. The workshop was attended by 1-community member, 3- Five Counties Staff, 1- RC&DC employee, 1- representative from Bushman Tanks, and 1- Bushman Tank distributor.

A PowerPoint presentation was given by Bruce Hallinan on rooftop calculations, sizing systems, the benefits of rainwater catchment systems, and native plant landscaping.

We provided informative brochures on water conservation devices & techniques for participants. We also provided coffee and light snacks.

Attendees:

Name	Number	Agency
Jesse Cox	778-3965	Public
Duane Heryford	623-0320	Public

BEAVER WORKSHOP

Workshop was attended by 33 individuals.

16—Fish & Wildlife Biologists

10—Resource Conservation District and NWCARC&DC employees

5—Roads and Department of Transportation employees

2—Private Landowners & community members

The Workshop was held on Saturday February 9, 2013 at the Douglas City Volunteer Fire Department from 10am-4pm. Mark Lancaster began by giving a presentation on the statistics and facts of Weaver Creek Watershed and a brief introduction of the Five Counties Salmonid Conservation Program.

Mike Callahan, of Beaver Solutions, provided a PowerPoint presentation on beaver history, habitat, behavior, and identified challenges associated with beaver activity and man made infrastructure. He provided in-depth solutions for protecting culverts, roads, trees, and private property. A handout highlighting the assembly, materials, and costs associated with his three techniques was distributed to all workshop participants.

Bob Schaefer, Department of Fish & Wildlife biologist, spoke on the California state rules and regulations regarding beaver trapping, removal, and relocating. He spoke of specific experiences impacting roads, ranchers, and wildlife in Siskiyou County.

The group toured a nearby site with recent beaver activity. Discussion topics included assessing the site, identifying why the beavers would choose such a location, what techniques would have protected private lands and prevented trees from being harvested, and how motorists on the adjacent highway were impacted.

Roads personnel and ranchers shared their personal experiences with beavers and what techniques were successful and those that failed. Wildlife biologists expressed interest in upcoming research that will improve existing techniques for fish passage success.

Beaver Workshop February 9, 2013 (10am-4pm) Douglas City VFD Meeting Hall, 100 Steiner Flat Rd, Douglas City 10am - 4pm

AGENDA

- | | |
|---|-------------|
| 1. Mark Lancaster: Introduction (30minutes) | 10:15-10:45 |
| a. Who is the 5 Counties | |
| b. Why are we here, why do we care? | |
| c. Beavers & Fish | |
| 2. Mike Callahan, Beaver Solutions. (65minutes) | 11:00-12:05 |
| a. Introduce Beaver Solutions | |
| b. Background Beaver Information | |
| c. Connection between Beavers & Riparian Ecosystems | |

- d. Assessing beaver activities
- e. Protection techniques: DVD?
- BREAK FOR LUNCH (45 minutes) 12:05-12:50
- 3. Bob Schaefer, Fish & Wildlife (45minutes) 1:00-2:00
 - a. Wildlife law in California
 - b. Nuisance or not?
 - c. Balancing interests
- 4. FIELD DEMONSTRATION (90minutes): Mike Callahan & Bob Schaefer
 - a. Walk to site & discuss complexity of issues
 - Private land owners, roads, stream conditions
 - b. How to assess & approach the site
 - c. Demonstrate tree protection techniques

Return to Fire Hall, BREAK for afternoon snacks, coffee & Allow for Q & A sessions....

2013 Road Workshop, October 22-25, 2012

SALMONID, WATER QUALITY, & ROADS WORKSHOP (TASK 7)

2012 Five Counties Salmonid Conservation Program Roads Workshop

AGENDA

October 22-25, 2012

Oct 22, Monday		
START	END	
Oct 22, Mon		<u>Plenary Session</u>
10:00	11:45	Check-in
11:45	12:00	Introductions - <i>Mark Lancaster/David Colbeck</i>
12:00	13:00	LUNCH
13:00	13:30	Presentation on 5C Program - <i>Mark Lancaster</i>
13:30	14:30	Lamprey - Life history, population trends and the possibility of Federal listing : <i>Damon Goodman</i>
14:30	15:15	Roads Manual Introduction, Status, & Updates in Progress - Vegetation Management and LITH Standards: <i>Sandra Pérez</i>
15:15	15:30	BREAK
15:30	16:15	Aquatic Invasives in 5 Counties - <i>Breck McAlexander</i>
16:15	16:45	Coho Status/Recovery/Restoration Legislation/Climate Change <i>M. Lancaster</i>
16:45	17:15	Summary of Past BMP work - Examples of BMP Innovation: Conner Creek - <i>David Colbeck</i>
17:15	17:30	Workshop Session Overview: Structure, How to Select Sessions and field tour outline - <i>D. Colbeck</i>

Oct 23, Tuesday					
START	END				
Oct 23	Tues	Session 1		Session 2	
8:00	9:00	Geologic Constraints on Road Design and Operations: <i>Dr. Michael Wopat</i>	8:00	9:45	5C Waiver of Waste Discharge: An In Depth Look - <i>Maggie Robinson & 5C staff</i>
9:00	10:00	Road Drainage Alternatives: <i>Don Lindsay</i>			
10:00	10:15	BREAK			
10:15	10:45	Stream Zones/Large Wood Management/Oversizing Designs <i>Mark Lancaster</i>			
10:45	12:00	The Revised Universal Soil Loss Equation - <i>Alex Straessle</i>	10:45	12:00	5C Waiver of Waste Discharge: An In Depth Look - <i>M. Robinson & 5C staff</i>
12:00	13:00	LUNCH			
13:00	13:20	DIRT Inventory Presentation	13:00	14:00	DFG Judisdiction on county facilities - 1600 permit requirments - <i>Brad Henderson and Kate Grossman</i>
13:20	14:50	Inventory Road & Demonstration, Culvert Sock, Waddle/Silt Fence, Unplug Culvert - <i>5C Staff</i>			
14:50	16:00	Effects of Roads on Wildlife - <i>Sandra Jacobson</i>			
16:00	16:15	BREAK			
16:15	17:00	Geosynthetics - <i>D. Lindsay</i>			
17:00	17:30	Ditch Maintenance - <i>M. Lancaster</i>			
17:30	17:45	Lease to Own Equipment - <i>Art Reeve</i>			

Oct 24, Wednesday		
START	END	
Oct 24, Wed		<u>Session 1</u>
		<u>Session 2</u>
8:00	10:00	Presntations - Preview of Field Site Topics
10:00	12:25	China Gulch Road West Weaver Creek Conner Creek
12:25	13:00	Lunch - Junction City Grange Hall
13:00	15:45	Dutch Creek Slide Upper Junction City Trinity River Restoration Program Site Schofield Gulch
15:45	16:30	Retutn to Resort
16:30	18:00	Debrief from site visit and work completed

Oct 25, Thursday		
START	END	
Oct 25, Thurs		<u>Plenary Session</u>
8:00	8:30	5C Waiver of Waste Discharge: An overview- 5C staff
8:30	9:00	Climate Change, Stream Zones/Ditch Maintenance/Restoration Legislation/Oversizing Designs: <i>M. Lancaster</i>
9:00	10:00	Streambed Mix - Design, Water Quality Protection and Implementation
10:00	10:15	BREAK
10:00	15:30	<u>Lower East Weaver</u> - Large Wood Debris Project Design

Agenda Notes:

Session 1: For Road Crews and Maintenance Staff

Session 2: For Supervisors, Permitting and Engineers staff.

Field Tours: Carpooling will be coordinated due to limited parking.

**2012 Five Counties Salmonid Conservation Program
Salmon, Water Quality & Roads Workshop**

October 22nd - 25th

Trinity Lake Resorts at Cedar Stock

SIGN-IN SHEET

	<u>Name</u>	<u>Title</u>	<u>Phone</u>	<u>E-mail</u>	<u>COUNTY</u>
1	Tom Morrison	Rd. worker	435-2202	Sehayou	
2	Scott Burket	Rd. worker	435-2202	"	
3	Keith Towne	Rd worker	468 2421	"	
4	Glenn Hall	Rd worker	468 2421	"	
5	Ted Wilson	Rd worker	623-3627	TRINITY	
6	Benji McLellan	Rd Worker	623-3627	"	
7	MARTY MESSENGER	ROAD MAN SUPERVISOR	(707) 498-2026		GARRERVILLE PW & CO. HUMBOLDT, CA. US
8	Denton Carrick	Rd. Worker	707 497-4413		Humboldt
9	Gary Gillihan	Rd worker	623-3627	Trinity	
10	NATE DOOLEY	Rd worker	598-1930	Siskiyou	
11	CLAIRE LINDSTRAUD	Fish Biologist		clindstrand@scanties.org	TRINITY
12	Dillon Fry	RD worker	524-9321	Trinity	(Boomer)
13	Sue Rhodes	SC-Asst CLK	623-3967		
14	MICHAEL LAYTON	ASSISTANT ENGINEER	707-445-7428	MLAYTON@HUMBOLDT.CO.HUMBOLDT.CO.US	
15	Todd Thevkar	Rd worker	707 839-1264		County of Humboldt
16	SCOTT CURNS	Rd Worker	707-839-1264		County of Humboldt
17	Jeff Klingel	RD worker	707-445-7423		County of Humboldt
18	JIM RILETSKI	Rd worker III	(707) 445-7423		County of Humboldt
19	ART REEVES	Rd Deputy Dir	(707) 445-7422		County of Humboldt
20	BEO FLEEK	Rd work	707-445-7421		County of Humboldt

Name	Title	Phone	E-mail	COUNTY
21. David Colbeck	SC- Project Coord.		dcolbeck@scprogram.org	
22. Samantha Smith	RMW II			Humboldt
23. Adrian Wauit	R.M.W. III			Humboldt
24. Kelly C. Eastlick	RMW II			Siskiyou
25. Paul m. I. Dowho	R.M.W. III			HUMBOLDT
26. Rob Jackson	RMW II			Siskiyou
27. Matthew Solus	RMW II			SISKIYOU
28. DJ Fullerton	Road Super			Trinity
29. Fred McNamee	Roads			DN County
30. Lee Dutton	Roads			DN county
31. Kyle Hansen	ROADS			DN county
32. Martin Luttrell	Roads			PN county
33. Johnny Rodriguez	Roads			Humboldt
34. Wayne Tomusina	Roads			Humboldt
35. Alex Strausse	Engineer II			Mendocino
36. SEAN LESLIE	Road Supervisor			Mendocino
37. Steven Bill Archuleta	RCW			mendo
38. Walter Cmin	Equipment operator			mendo
39. Michael Peery	Equipment Operator			MENDOCINO
40. Stephen Swingle	Equipment Op			Mendocino
41. Damon Goodman	Biologist			Humboldt
42. I. Buck Alexander	Env. Scientist			CDFG
43. MAGGIE ROBINSON	ENG. GEOLOGIST			WO - NORTH COAST
		707-576-2292		

	Name	Title	Phone	E-mail	COUNTY
45	Jan Smith	Sr. Environmental Comp Spe	623-1365	j.smith@trinitycounty.org	trinity
46	Don Lindsey	Engineer biologist	227-9312	don.lindsey@fire.ca.gov	
47	Michael Woford	" "	949-7814	woford.michael@gmail.com	count
48	Scott Waite	Engineering Manager	842-8275	swaite@co.siskiyou.or.us	
49	Judy McLaughlin	RmWTH		Powell5913@yphoo	Trinity
50	CRAIG LINDSEY	ENG TECH		C.lindsey@TRINITY COUNTY	TRINITY
51	Jeff Davis	Superintendent	707-951-9611		del Norte
52	Kate Grossman	Env. Scientist	530 225-2239	kgrossman@dfg.ca.gov	
53	Brod Henderson	Staff Env. Scientist	530-225-2362	bhenderson@dfs.ca.gov	
54	Sandra Jacobson	Wildlife Biologist		sjacobson@fs.fed.us	
55	DOUGLAS FIAT	EQ Superintendent	707445-2575		humilis CO. CA, U.S
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FISH PASSAGE DESIGN AND IMPLEMENTATION WORKSHOP (TASK 8)

Fish Passage Design Workshop

Ukiah Valley Conference Center

February 6-8, 2013

AGENDA 5 Counties Salmonid Conservation Program Fish Passage at Stream Crossings Design Workshop Agenda February 6-8, 2013 Page 1
5 Counties Salmonid Conservation Program and
California Department of Fish & Wildlife

Wednesday, February 6th

8:00 a.m. Registration Opens

8:30 a.m. Welcome and Outline of the Day

Mark Lancaster, 5 Counties Salmonid Conservation Program

- Introductions
- Pre-course survey

8:45 a.m. Aquatic Species and Stream Crossings

Ross Taylor

- Ecological continuity of stream channels
- Impacts of fragmenting populations
- Overview of aquatic species of concern in California's coastal streams
- Characteristics of instream structures that create fish migration barriers
- Fish swimming abilities and requirements
- Ranking and prioritization of barriers for treatments

10:00 a.m. "What makes a successful project?" Group Exercise - Ross Taylor
Facilitates

10:15 a.m. BREAK

10:30 a.m. Overview of Channel Morphology - Stream Crossing Interactions

Michael Love

- Causes and impacts of channel incision and aggradation
- Channel in-stability and channel evolution
- Interaction of stream crossings with channels
- Causes of perched culverts; plunge pool vs. incision

11:15 a.m. Pre-design & Project Layout

Kozmo Bates

- Spectrum of fish passage approaches
 - Hydraulic verses Geomorphic design approaches
 - Range of ecological benefits
- Project alignment and project profile
- Determining Vertical Adjustment Profiles (VAP)
- Headcut considerations

- Selecting a design approach

12:15 p.m. Lunch Provided

1:15 p.m. NOAA Fisheries and CDFG Fish Passage Design Guidance and Project Review Requirements

Steve Thomas, National Marine Fisheries Service, Hydraulic Engineer

- Overview of fish passage design guidelines
- FEMA and funding replacements for fish passage
- Project Specific Requirements Submittal Checklist
- Design Plan Criteria requirements in the Fisheries Restoration Grants Program (FRGP)

2:15 p.m. Geomorphic Based Designs

Kozmo Bates

- Overarching principals of stream simulation
- Stream simulation design process
 - Reference reach
 - Bed design – bed materials and shape
 - Structure sizing
 - Stability/mobility analysis: Models, design flows, bed mobility, bed stability, flood capacity
- Low-slope design process
- Construction techniques

3:00 p.m. BREAK

3:15 p.m. Geomorphic Based Designs (Continued)

4:00 p.m. BREAK

4:15 p.m. Unique Biology and Passage Considerations for the Other Anadromous Fish, Pacific Lamprey

Invited Speakers: Stewart B. Reid, Western Fishes and Damon H. Goodman, USFWS

4:55 p.m. Outline of the next day's activities

Claire Lindstrand, 5 Counties Salmonid Conservation Program

Thursday, February 7th

8:30 a.m. Profile Control Techniques

Michael Love

- Geomorphic based approaches to profile control
 - Basis of approach
 - Types and applications
 - Design process
- Drop structures
 - Types (boulder, log, concrete, sheetpile weirs)
 - Shape, spacing, slope, and stability
 - Design Process
- Construction techniques

10:00 a.m. BREAK

10:15 a.m. Hydraulic Designs using Baffles and Fishways

Kozmo Bates

- Design criteria and fish behavior
- Use of baffles
- Design and analysis procedures
- Fishway types, applications, layouts
- The Do's and Don'ts

11:45 a.m. Introduce Group Exercises

12:00 p.m. Working Lunch (Provided)

1:45 p.m. Small Group Reports

Ross Taylor and Michael Love Facilitate

2:30 p.m. Monitoring and Adaptation

Ross Taylor

- What questions should monitoring answer?
- Monitoring techniques
- Examples from previous fish passage monitoring
- Monitoring and Success Stories

3:45 p.m. BREAK

4:00 p.m. Post-Course Survey and Evaluations

4:15 p.m. Integrating Terrestrial and Aquatic Organism Passage Considerations: Why they Don't Always Work Together

Invited Speaker: Sandra Jacobson, Wildlife Biologist, US Forest Service Pacific Southwest Research Station

4:55 p.m. Field Trip Logistics

Claire Lindstrand, 5 Counties Salmonid Conservation Program

Friday, February 8th

OPTION A Full Day Field Tour of Fish Passage Projects

8:30 a.m. to 4:00 p.m. Tour fish passage project sites in Mendocino County.

Depart from Ukiah Valley Conference Center

OPTION B Engineering Practicum followed by Half-Day Field Tour

Michael Love and Kozmo Bates

8:30 a.m. Guided exercises applying design procedures and equations for the following fish passage project types:

- Stream simulation bed design and specifications
- Roughened rock chute bed material sizing and fish passage analysis

12:00 p.m. Join field tour and visit afternoon field sites

4:00 p.m. Return to Ukiah Valley Conference Center

Name	Staff/Participant	Location	Job Title	Affiliation
Alicia Ives Ringstad	Participant	Redwood Valley, CA	Wildlife Biologist	Jacobszoon & Associates
Michael Sherwood	Participant	Healdsburg, CA	Geologist	O'Connor Environmental Inc.
Joshua Courter	Participant	Springville, CA	District Hydrologist	USDA Forest Service
Moosub Eom	Participant	Denver, CO	Water Resources Engineer	CDM Smith
Alexis Phillips-Dowell	Participant	Fresno, CA	Senior Engineer, Water Resources	California Department of Water Resources
Tom Snyder	Participant	Fresno, CA	Engineer, Water Resources	California Department of Water Resources
Xizao Yang	Participant	Fresno, CA	Engineer, Water Resources	California Department of Water Resources
Cecile Morris	Participant	Redwood Valley, CA	Water Resources Control Engineer	Water Resources Control Board
Peter Cafferata	Participant	Sacramento, CA	Watershed Protection Program Manager	Cal Fire
Cathy McKeon	Participant	Ukiah, CA	PE	Rau and Associates Inc.
JR Ashcraft	Participant	Ukiah, CA	CPESC	Rau and Associates Inc.
Deborah Ulrich	Participant	Truckee, CA	Fisheries and Aquatics Biologist	USDA Forest Service - Tahoe National Forest
Sharon Falvey	Participant	Truckee, CA	Hydrologist	USDA Forest Service -Tahoe National Forest
Dave Longstreth	Participant	Willits, CA	Geologist	California Geological Survey
Don Lindsay	Participant	Redding, CA	Engineer/Engineering Geologist	California Geological Survey
Stephen Reynolds	Participant	Sacramento, CA	Senior Engineering Geologist	California Geological Survey
Neil Kalsou	Participant	Arcata, CA	Fish Ecologist	H.T. Harvey and Associates
Maija Meneks	Participant	Fort Jones, CA	Fish Biologist	USDA Forest Service - Klamath National Forest
Mike Callahan	Participant	Southampton, MA	Owner	Beaver Solutions, LLC
Maura Santora	Participant	South Lake Tahoe, CA	Aquatic Biologist	USDA Forest Service - Lake Tahoe Basin Management Unit
Tim Salamunovich	Participant	Arcata, CA	Fisheries Biologist	Normandeau Associates
Danding Gan	Participant	St. Ignace, MI	Hydrologist	USDA Forest Service
Gabriel Rossi	Participant	Arcata, CA	Fisheries Hydrologist	McBain & Trush, Inc.
Chris Herbst	Participant	Arcata, CA	Project Geologist	Pacific Watershed Associates
Chris Alford	Participant	Nevada City, CA	Associate Director California Conservation	American Rivers
Nanette Nickerson	Participant	Arcata, CA	Assistant Engineer	Michael Love & Associates Inc.
Trien Le	Participant	Susanville, CA	Civil Engineer	USDA Forest Service
John Wooster	Participant	Sacramento, CA	Hydrologist	NOAA Fisheries
Andra Speck	Participant	Marysville, CA	Transportation Engineer	Cal Trans
John Hudson	Participant	Marysville, CA	Transportation Engineer	Cal Trans
Cheryl Hayhurst	Participant	Sacramento, CA	Engineering Geologist	California Geological Survey
Scott Lee	Participant	Eureka, CA	District Hydraulics/Major Drainage /Senior Transpotation Engineer	Cal Trans
Thomas Holley	Participant	Sacramento, CA	Hydrologist	NOAA Fisheries
Melissa Farinha	Participant	Napa, CA	Environmental Scientist	California Department of Fish and Wildlife
Denis Ruttenberg	Participant	Santa Cruz, CA	Engineer/Hydrologist	Balance Hydrologics , Inc
Kristine Pepper	Participant	Eureka, CA	Hydraulic Engineer	Cal Trans
Richard Lis	Participant	Redding, CA	Environmental Scientist	California Department of Fish and Wildlife
Samantha Chilcote	Participant	Weaverville, CA	Fisheries Biologist	USDA Forest Service
Tom Schroyer	Participant	Sacramento, CA	Environmental Scientist	California Department of Fish and Wildlife
Joe Pisciotto	Participant	Sacramento, CA	Biologist	California Department of Fish and Wildlife
George Edwards	Participant	Dixon, CA	Environmental Scientist	California Department of Fish and Wildlife
Amber Villalobos	Participant	West Sacramento, CA	Environmental Scientist	California State Water Resources Control Board
Michael Miller	Participant			Mendocino Land Trust
Lisa Bolton	Participant-Wait	Weaverville, CA	North Coast Coho Project Manager	Trout Unlimited
Kozmo Ken Bates	Staff	Olympia, WA		
Ross Taylor	Staff	McKinleyville, CA		Ross Taylor and Associates
Michael Love	Staff	Eureka, CA		Michael Love & Associates Inc.
David Colbeck	Staff	Weaverville, CA		Five Counties Salmonid Conservation Program
Claire Lindstrand	Staff	Weaverville, CA		Five Counties Salmonid Conservation Program
Mark Lancaster	Staff	Weaverville, CA		Five Counties Salmonid Conservation Program
Dimitri Dolci	Staff	Weaverville, CA		Five Counties Salmonid Conservation Program
Bonnie Szabo	Staff	Weaverville, CA		Five Counties Salmonid Conservation Program
Sandra Jacobson	Staff	Davis, CA	Presentation Feb 7th	USDA Forest Service - Pacific Southwest Research Station
Damon Goodman or Stewart Reid	Staff	Arcata, CA	Presentation Feb 6th	US Fish and Wildlife Service
Alex Straussle	Staff	Ukiah, CA		Mendocino DOT
Scott Harris	Staff	Ukiah, CA		California Department of Fish and Wildlife
Sandra Perez	Staff	Weaverville, CA		Five Counties Salmonid Conservation Program
Dennis Slota	Staff	Ukiah, CA		Mendocino County Water Agency

ATTACHMENT B

5C MIGRATION BARRIER PROGRESS MATRIX

Completed 5C Migration Barrier Projects (updated 3/2012)															
Year Built	County	Stream Name	Road Name	Milepost	Presumed Species Diversity	Species Diversity Score	Extent of Barrier Score	Fill Estimate (CYDS)	Current Sizing Score	Current Condition Score	Habitat Quantity (ft)	Habitat Quantity Score	Habitat Quality Modifier	Total Habit at Score	TOTAL SCORE
1998	Siskiyou	Barkhouse Creek	Barkhouse Creek Road	Unknwn	ST			NA			63,360				
1998	Siskiyou	East Fork Scott River	Rail Ck. Rd.	0.334	ST			NA			137,280				
1998	Siskiyou	Deep Creek	Scott River Rd.	18.184	ST			NA			10,560				
1998		3						Miles of Habitat Restored			40.0				
2000	Del Norte	Jordan Creek #1	Parkway Drive	2.776	CO, ST, CUT	4	15	1,122	5	1	13,500	10.0	0.75	7.5	32.5
2000	Siskiyou	Little Humbug Creek	Walker Road	Unknwn	ST,CO	1	15	251	5	1	9,000	9.0	0.5	4.5	26.5
2000	Trinity	West Weaver Creek	Oregon Street	1.46	ST,CO	3	15	1,228	4	3	20,000	10.0	0.75	7.5	32.5
2000		3						Miles of Habitat Restored			8				
2001	Humboldt	Lindsay Creek	Murray Road	Unknwn	CO, CH, ST, CU	7	15	3,636	4	3	13,800	10.0	0.75	7.5	36.5
2001	Humboldt	Trib to Ryan Creek	Mitchell Road	Unknwn	CO, ST, CUT	5	15	732	5	5	19,200	10.0	0.50	5	35.0
2001	Humboldt	North Anker Creek	Fieldbrook Road	Unknwn	CO, CH, ST, CU	7	15	951	5	3	7,600	7.6	0.50	3.8	33.8
2001	Humboldt	Cloney Gulch	Kneeland Road	Unknwn	CO, CH, ST, CU	7	15	NA	1	0	11,200	10.0	0.75	7.5	30.5
2001	Humboldt	Morrison Gulch	Quarry Road	Unknwn	CO, ST, CU	5	15	1,592	4	3	3,400	3.4	1.00	3.4	30.4
2001	Humboldt	South Anker Creek #1	Fieldbrook Road	Unknwn	CO, CH, ST, CU	7	15	3,129	1	1	4,000	4.0	0.50	2	26.0
2001	Humboldt	Clear Creek	Mattole Road	Unknwn	CO, SH	4	15	5,308	2	1	7,400	7.4	0.50	3.7	25.7
2001	Humboldt	Sullivan	Riverside	Unknwn	CO, CH,	6	12	1,282	2	1	3,700	3.7	0.75	2.775	23.8

		Gulch	Drive		ST										
2001	Coastal Mendo	Bear Creek	Branscomb Road	Unknwn	ST	2	15	NA	1	0	4,100	4.1	0.75	3.075	21.1
2001	Coastal Mendo	Windem Creek	Branscomb Road	Unknwn	ST	2	15	NA	0	0	5,900	5.9	0.5	2.95	20.0
2001	Coastal Mendo	Pruitt Creek - Unnamed Trib to SF Big River	Orr Springs Road	30.44	CO,ST	4	15	NA	3	0	2,900	2.9	0.75	2.175	22.7
2001	Coastal Mendo	Taylor Creek	Branscomb Road	Unknwn	STHD	2	0	NA	1	1	2,900	2.9	0.75	2.175	6.2
2001		12					Miles of Habitat Restored				16.31				
2002	Siskiyou	Merrill Creek	Salmon River Road	Unknwn	ST,CO	3	15	3,457	0	1	12,700	10.0	0.75	7.5	26.5
2002	Trinity	Little East FK CC	Canyon Creek Road	11.55	CO, STHD			NA			3,000				
2002	Humboldt	East Mill Creek #1	Conklin Creek Road	Unknwn	CO, ST, CH (?)	6	15	1,789	4	3	14,000	10.0	0.50	5	33.0
2002	Humboldt	South Anker Creek #2	Anker Road	Unknwn	CO, CH, ST, CU	7	15	NA	5	3	3,600	3.6	0.50	1.8	31.8
2002	Humboldt	Mather Creek	Murray Road	4.92	CO, ST, CU	5	15	3,287	5	3	15,200	10.0	0.25	2.5	30.5
2002	Humboldt	East Anderson Creek	Whitethorn Road	Unknwn	CO,ST	4	12	2,707	3	3	8,000	8.0	0.50	4	26.0
2002	Humboldt	Mill Creek	Lighthouse Road	Unknwn	CO, CH, ST	6	15	316	1	0	3,800	3.8	1.00	3.8	25.8
2002	Trinity	Mud Creek	Alder Point Bluff Road	4.2	ST	1	15	1,122	4	3	500	0.5	0.25	0.125	23.1
2002	Del Norte	Clarks Creek	Walker Road	0.095	CH, CO, ST, CUT	5	15	500	4	3	7,400	7.4	1	7.4	34.4
2002	Trinity	Olsen Creek	Mad River Road	1.7	ST	1	15	242	4	1	3,400	3.4	0.25	0.85	21.9
2002		10					Miles of Habitat Restored				13.56				
2003	Del Norte	Mynot Creek	Mynot Creek Road	0.119	CO, ST, CUT	4	15	NA	3	0	13,600	10.0	0.25	2.5	24.5
2003	Del Norte	Peacock Creek	Tan Oak Drive	0.01	CH (?), CO, ST, CUT	5	15	2,384	5	3	7,100	7.1	0.75	5.325	33.3

2003	Del Norte	Jordan Creek #2	Elk Valley Road	3.322	CO, ST, CUT	4	15	202	5	1	9,300	9.3	0.75	6.975	32.0
2003	Coastal Mendo	Digger Creek	Ocean Drive	0.1	CO, ST	4	15	1,443	5	1	11,800	10.0	0.5	5	30.0
2003	Coastal Mendo	Deer Creek	Wilderness Lodge Road	2.6	CO(?), ST	4	15	511	5	1	3,700	3.7	0.75	2.775	27.8
2003	Humboldt	Widow White Creek #2	McKinleyville Ave.	Unknwn	CO, ST, CU	5	15	142	2	0.0	9,400	9.4	0.50	4.7	25.7
2003		6					Miles of Habitat Restored				10.40				
2004	Humboldt	Stanley Creek	Whitethorn Road	Unknwn	CO, ST	4	15	2,087	1	5	9,200	9.2	0.50	4.6	29.6
2004	Humboldt	Gibson Creek	Whitethorn Road	Unknwn	CO, ST	4	15	2,782	3	3	7,200	7.2	0.50	3.6	28.6
2004	Humboldt	Stansberry Creek	Lighthouse Road	Unknwn	CO, ST	4	15	316	4	1	3,000	3.0	0.50	1.5	25.5
2004		3					Miles of Habitat Restored				3.67				
2005	Humboldt	Saunders Creek	Mattole Road	4.5	CO, ST	4	15	14,207	2	1	3,600	3.6	0.50	1.8	23.8
2005	Trinity	Deadwood Creek	Hatchery Rd	0.74	ST,CO,CH	4	13	NA	5	1	41,800	10.0	0.75	7.5	30.5
2005	Trinity	Soldier Creek #1	Evans Bar Rd	0.3	ST	1	13	540	5	0	11,200	10.0	0.75	7.5	26.5
2005	Trinity	Soldier Creek #2	Dutch Creek Rd	4.23	ST	1	14	547	5	0	0	8.9	0.75	6.675	26.7
2005	Mendocino	Johnson Creek	Orr Springs Road	26.1	CO,ST	4	15	906	2	0	8,900	8.9	0.75	6.675	26.7
2005	Humboldt	Graham Gulch	PALCO Camp Road	Unknwn	CO, ST, CU	5	15	1,853	1	1	13,400	10.0	0.50	5	27.0
2005		6					Miles of Habitat Restored				14.94				
2006	Coastal Mendo	Marsh Creek	Flynn Creek Road	Unknwn	CO, STHD	4	15	2,955	5	3	12,900	10.0	0.5	5	32.0
2006	Coastal Mendo	Albion River	Flynn Creek Road	Unknwn	CO, STHD	4	15	2,663	3	1	24,100	10.0	0.75	7.5	30.5

2006	Siskiyou	Kelly Gulch	Sawyer's Bar Road	Unknwn	Steelhead, coho salmon	3	15	243	3	1	7,900	7.9	0.5	3.95	26.0
2006	Del Norte	Yonker's Creek #2	Wonderstump Road	Unknwn	CO, STHD, CUT	4	12	873	3	3	4,800	4.8	0.5	2.4	24.4
2006		4					Miles of Habitat Restored				9.41				
2007	Humboldt	Rocky Gulch	Old Arcata Highway	Unknwn	CO, ST, CU	5	15	153	5	1	9,200	9.2	0.25	2.3	28.3
2007	Trinity	Little Browns Ck	Roundy Road	0.10	CO,ST	3	15	531	4	3	16,900	10.0	0.75	7.5	32.5
2007	Humboldt	Warren Creek	Warren Creek Road	0.127	CO, ST, CUT	5	15	1,372	3	1	14,200	10.0	0.50	5	29.0
2007		3					Miles of Habitat Restored				7.63				
2008	Trinity	Hall City Creek	Wildwood Road	15.05	ST	1	15	305	5	3	25,000	10.0	0.25	2.50	22.50
2008	Humboldt	Grassy Creek	Fieldbrook Road	Unknwn	ST	5	15	1,453.00	5	1	2,200	2.2	0.50	1.10	24.10
2008	Siskiyou	Horse Creek	China Grade Road	6.8	ST	1	15	356	4	3	3,000	3.0	0.25	0.75	20.30
2009	Humboldt	Chamise Mtn Rd	SF Bear Creek	UKN	ST,CO,CH	NA	NA	55	NA	NA	7,500	NA	NA	NA	NA
2008		4					Miles of Habitat Restored				7.14				
2009	Siskiyou	Whites Gulch	White's Gulch Road	0.43	ST,CO	3	15	826	3	0	25,300	10.0	0.75	7.50	27.00
2009	Coastal Mendo	Ancestor Creek	Briceland Road	3.75	CO, STHD	4	15	320	4	1	10,800	10.0	1.00	10.00	34.00
2009	Trinity	Finley Gulch	Roundy Road	0.09	STHD, CO?	NA	NA	55	NA	NA	2,534	NA	NA	NA	NA
2009	Humboldt	Bulwinkle Creek	Crannel Road	1	ST, CO, CH, CT	NA	NA	105	NA	NA	5,400	NA	NA	NA	NA
2009		4					Miles of Habitat Restored				8.34				
2010	Humboldt	Indian Creek	Mattole Road	10	CO, ST	4	15	2,271.00	0	0.0	4,500	4.5	0.50	2.25	21.25
2010		1					Miles of Habitat Restored				0.85				

2011	Mendocino	Ryan Creek	Ryan Creek Road	Unknwn	CO, CH, STHD	6	15	7975	3	3	15,100	10.0	0.50	5.00	32.00	
2011	Humboldt	Mill (Watek) Creek	Riverside Drive	UKN	CO, ST	4	6	5	3	4.0	3,000	3.0	0.25	0.75	14.8	
2011	Trinity	Conner Creek #1	Conner Creek Road	0.06	ST	1	15	79	3	1	1,000	9.5	0.75	7.13	25.10	
2011		3						Miles of Habitat Restored		3.62						
2012	Trinity	Conner Creek #2	Red Hill Road	2.40	ST	1	12	1209	3	0	8,500	8.4	0.75	6.30	20.80	
2012		1						Miles of Habitat Restored		1.61						

62	TOTAL PROJECTS	145.54	MILES
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