Mr. Michael Bird
Inland Fisheries Division

April 28, 1997

California Environmental Quality Act (CEQA) Review for 1996/97 Fishery Restoration Grants

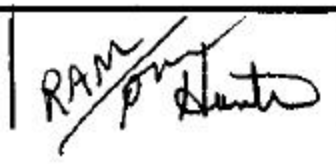
We have reviewed the California Conservation Corps' proposals (Numbers 22, 94, 95 and 96) which affect Bottom Creek, Little North Fork Navarro River, North Branch North Fork Navarro River, and Daugherty Creek. We believe that these projects should qualify for a categorical exemption under CEQA for this year.

If you have any questions, please contact Mr. Ken Aasen, Senior Fishery Biologist, at 8-547-5532.

Brian Hunter
Regional Manager
Region 3

bc: R. Macedo (IFD - Sacramento)
Aasen, Jones, Snyder (R3)
RAM/ram/pm

SURNAME
FG-455 (REV. 1/92)



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NORTH BRANCH NORTH FORK NAVARRO RIVER GRANT PROPOSAL
SUMMARY SHEET

95
R3

1. **Contractor:** California Conservation Corps
2. **Type of Contractor:** Public Agency - contractor to the State
3. **Street Address:** 2600 Eastside Road
4. **City:** Ukiah
5. **State:** CA
6. **Zip Code:** 95482
7. **Contact Person:** Mark Covella
8. **Telephone Number:** (707) 463-2822
9. **Project Title:** North Branch North Fork Navarro River Stream Enhancement Project #1
10. **Funding Request:** $41,959.00
11. **Obective:** Enhance a 8,505 foot section of the North Branch of the North Fork of the Navarro River by implementing 30 cover/scour structures, as well as 10 riparian revegetation projects, beginning at the confluence of John Smith creek and ending at the confluence of Dutch Henry creek.
12. **Species**: Benefitted: Steelhead, coho
13. **Work Schedule:** 3 weeks in the summer of 1997
14. **County:** Mendocino
15. **Stream:** North Branch North Fork Navarro River.
16. **Tributary to:** North Fork Navarro River
17. **Major Drainage System:** Navarro River
18. **Assembly District:** 1
19. **Senate District:** 2
20. **Past Contractor:** Yes
21. **Federal Taxpayer ID #:** N/A
22. **Project Site Falls Within Coastal Zone?** No

North Branch of the North Fork Navarro River
Enhancement Project Additional Information

BACKGROUND

The North Branch of the North Fork of the Navarro River is a tributary to the North Fork of the Navarro River, a tributary to the Navarro River. The watershed area is 27.3 square miles. North Branch North Fork Navarro River is a third order stream, with approximately 4.6 miles of blue line designation. Summer base flows are intermittent. Most of the watershed is privately owned, with elevations ranging from 10 feet at the mouth of the creek to 1600 feet in the headwater regions. In the summer of 1994 a biological inventory directed by the Inland Fisheries Division of the California Department of Fish and Game (DFG) found juvenile steelhead and coho salmon.
The stream is impacted in some sections by fine sediment, caused by eroding stream banks associated with steep slopes and both past and present land use.

The 1994 DFG North Branch North Fork Navarro River Stream Inventory Report indicates that pool habitat types comprise 22% of the stream by length (26,621' surveyed). The report also indicates that the mean shelter rating was 84 for pools and 64 for flatwater habitat units. A number of erosion sites, as well as areas of insufficient canopy, were identified by the 1994 habitat survey.

The North branch of the North Fork of the Navarro River has two reaches; the lower 19,203' reach is a C4 channel type and the upper 7,418' reach is an F4. The second edition of the California Salmonid Stream Habitat Restoration Manual says that C4 channel types are excellent for bank-placed boulders and log cover, and that F4 channels are suitable for low-stage weirs, single and opposing wing-deflectors, and log cover.

The DFG report recommends that new pools should be created as well as enhancing existing pools. The percent of pools by length, 22%, is considered low by DFG, which considers 40% to be the minimum target. The mean pool shelter rating of 84 is considered low when compared with the DFG target rating for pools of 100 (the possible range is from 0 to 300). The shelter rating in the flatwater habitat units was lower at 64. The report recommends adding high quality complexity with woody material to flatwater units, as well as to pool units to increase the shelter for salmonids. The stream bank erosion sites identified need to be treated. The mean percent canopy for the stream was 69.8%, and 80% is considered optimal for coastal north coast streams. The planting of indigenous species of trees will help stabilize erosion as well as to increase the canopy closure over the stream.

PROPOSED LAND USE

The basin is managed for timber production, and there is a possibility that timber harvest may take place in the next five years.

OBJECTIVE

The objective of this project is to improve juvenile coho salmon and steelhead trout summer rearing habitat. This will be accomplished in part by increasing numbers and depths of pools in a 8505 foot length of North Branch North Fork Navarro River. In addition, available large wood will be recruited into the stream and used to enhance flatwater and pool shelter. Wood creates more habitat complexity than does boulder. Native tree species, such as willow, alder, Douglas fir and redwood will be used to help stabilize stream bank erosion as well as to increase canopy. Large wood and boulders will be used in the stream where necessary to protect the base of stream bank erosion sites.

LOCATION

The North Branch of the North Fork of the Navarro River is located between the towns of Navarro and Comptche in Mendocino County (Township 15 North, Range 15 West, Section 07). The location of the enhancement section is from the confluence of Dutch Henry Creek upstream 8,505 feet to the confluence of John Smith creek. There are 41 projects spaced somewhat evenly over the length of the enhancement section. Thirty-one of the sites are designed as cover/scour structures and ten are riparian revegetation projects. Vehicle access is via a private road on the right bank.

PROJECT DESCRIPTION

Fourteen structures will be "simple", meaning that they will incorporate at least 1 log that is a minimum of 10 feet long and 1 foot in diameter. Seventeen structures will be "complex", meaning that they will incorporate at least 3 logs, each at least 10 feet long and 1 foot in diameter. The 10 riparian are located at 700', 3155', 4425', 4905', 5275', 5880', 6580', 6980', 7260', 7455' and 8505'. The proposed riparian revegetation will help stabilize this area through the planting of trees.

All methods employed will follow closely the recommendations and procedures outlined in the second edition of the *California Salmonid Stream Habitat Restoration Manual*. All the projects will be carried out by California Conservation Corps hand crews in a low-impact manner with hand and power tools such as grip hoists, chainsaws and drills. All materials used (logs and boulders) will be garnered from the immediate area of the projects. All instream structures installed will be securely anchored to existing rock and embedded wood to facilitate their proper function and continued existence over time. Any land

disturbed by enhancement activities will be reseeded or planted with species indigenous to the area.

PERMITS

DFG 1601/03 Streambed Alteration Agreement; Landowner Access Agreement; U.S. Army Corps of Engineers 404 permit; Regional Water Quality Control Board 401 permit and California Environmental Quality Act compliance.

SCHEDULING

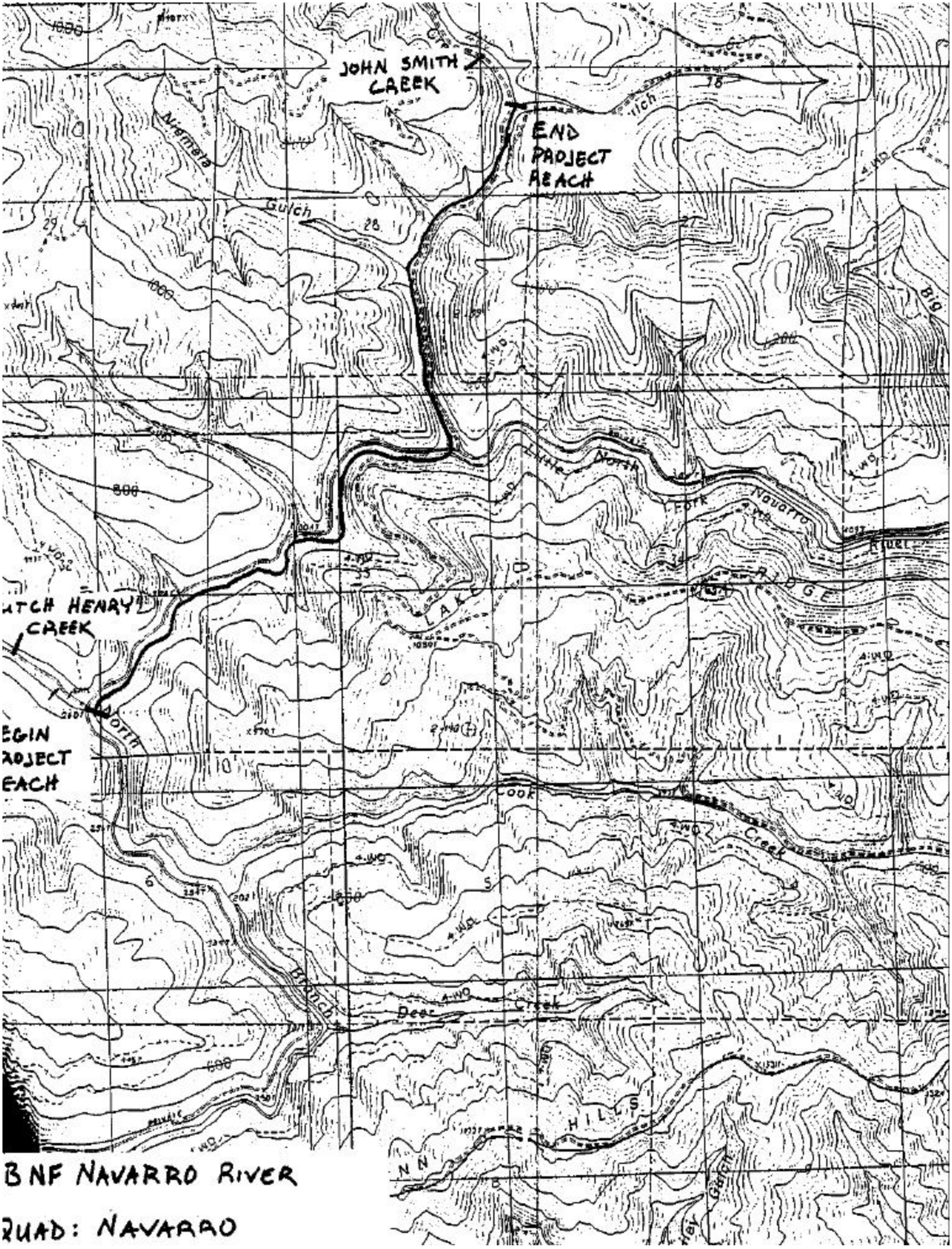
Work will be accomplished during summer low-flow periods when there will be minimal effects on developing juvenile salmonids. It is estimated that the entire project will require three weeks to complete, and the work is scheduled for the summer of 1997.

ESTIMATED BUDGET

FOR NORTH BRANCH NORTH FORK
NAVARRO RIVER PROPOSAL

			Amount Requested	Amt. of Cost Share	Project Total
PERSONNEL COSTS					
Level of Staff	No. hrs.	Hourly rate			
CCC laborers	3424	$11.75	$40,232.00	$000.00	$40,232.00
TOTAL PERSONNEL COSTS			$40.232.00	$000.00	$40,232.00
MATERIALS AND SUPPLIES					
110ft. 5/8" cable ($0.80/ft.)			$88.00	$ 0.00	$88.00
84 ea. 5/8" cable clamp ($1.00 ea.)			84.00	0.00	84.00
73 8 ft. 1 " threaded rebar ($ 1 .00/ft.)			738.00	0.00	738.00
246 ea. washer and nut ($2.00/set)			492.00	0.00	492.00
6 ea. polyester resin adhesive($20)			120.00	0.00	120.00
1 ea. rock drill bit ($50.00 ea.)			50.00	0.00	50.00
1 ea. wood auger bit ($35.00 ea.)			35.00	0.00	35.00
300 ea. Douglas fir/redwood ($0.20 ea.)			60.00	0.00	60.00
misc. tools and supplies			60.00	0.00	60.00
TOTAL MATERIALS AND SUPPLIES			$1727.00	$0.00	$1727.00
OPERATING EXPENSES					
			$ 0.00	$ 0.00	$ 0.00
TOTAL OPERATING EXPENSES			$ 0.00	$ 0.00	$ 0.00
TOTAL ESTIMATED BUDGET			$41,959.00	$ 0.00	$41,959.00

PERCENT COST SHARE: 0.0



BNF NAVARRO RIVER

QUAD: NAVARRO