

EXHIBIT A
Lower Klamath River Road Decommissioning and Erosion Prevention Project
Statement of Work

Under direction of the Department of Fish and Game, and under the following conditions and terms, the Yurok Tribe Watershed Restoration Department will:

1. Implement site specific erosion control measures to protect and improve salmonid spawning and rearing habitat for Chinook and coho salmon and steelhead and coastal cutthroat trout in a selected section of Terwer Creek tributary to the Klamath River in Del Norte County. The objective is to save 10,699 cubic yards of sediment from delivery by dispersing road runoff on one mile of road, reestablishing drainage patterns at 15 stream crossings and removing or stabilizing sediment from one site along the alignment.
2. Conduct work on Terwer Creek watershed. The project is located in Township 14N, Range 2E, Section 3 and 4 of the Klamath Glen 7.5 Minute U.S.G.S. Quadrangle, 123.945 W, 41.555 N as depicted in Exhibit C, Project Location Map, which is attached and made part of this agreement by this reference.
3. Decommission one mile of road thereby saving 10,699 cubic yards of sediment from delivery to Terwer Creek. Approximately 14,282 cubic yards of fill slope and stream crossing fill from approximately 15 stream crossings and 1 landing/slide/fill slope site will be excavated and stored in stable locations. The following treatments will be implemented where appropriate:
 - Excavation of in-place stream crossings at locations where roads or landings were built across stream channels. This includes complete excavation of the fill, including the culvert or Humboldt log crossing so the original stream bed and side slopes are exhumed. A stream crossing excavation includes removing the culvert and the underlying and the adjacent fill material. Complete excavation of stream crossing fills, includes 100 year flood channel bottom widths and 2:1 or otherwise stable side slopes. When possible the excavated spoil will be stored at nearby stable locations where it will not erode. If there is a limited amount of stable storage locations at the excavation site the crossing fill material will be hauled off-site for storage.
 - Road surface treatments: 1) ripping of the surface of the road or landing using mechanical rippers to reduce surface runoff and improve revegetation; 2) in-place out-sloping or the excavation of unstable side cast material that could fail and deliver sediment to a stream along the outside edge of a road prism or landing and the replacement of the spoil on the roadbed against the corresponding adjacent cutbank, or in close proximity of the site; 3) exported out-sloping which involves not placing the material against the cutbank so the material is end hauled to a spoil disposal site; 4) installation of cross drains or deep water bars at 50, 75, 100 or 200 foot intervals or as necessary at springs and seeps to disperse road surface runoff. The cross road drains provide road surface drainage and prevent the collection of concentrated runoff on the former roadbed.

- Seeding and mulching of all exposed soils which may deliver sediment to a stream. Woody debris will be concentrated on finished slopes adjacent to stream crossings. The standard for success is 80% ground cover for broadcast planting of seed, after a period of three years.
4. All stream crossings will meet flow carrying capacity required for a 100 year flood event as identified by specifications determined by NOAA Fisheries and the California Department of Fish and Game.
 5. All crossing upgrades in fish bearing reaches of streams will follow the National Marine Fisheries Service (NMFS 2001) Guidelines for Salmonid Passage at Stream Crossings and DFG criteria for adult and juvenile salmonid fish passage as described in the Third Edition, Volume II, Part IX, February 2003, of the *California Salmonid Stream Habitat Restoration Manual*. Culvert replacement or modification designs shall be visually reviewed and authorized by NOAA Fisheries (or DFG) engineers prior to commencement of work.
 6. The Grantee will not proceed with on the ground implementation until all necessary permits and consultations are secured.
 7. Sites which are expected to erode and deliver sediment to the stream are the only locations where work will be authorized for reimbursement under the terms of this agreement. Reimbursement will not be authorized for work done to improve aesthetics only.
 8. Notify the Grant Manager a minimum of five working days before any fish bearing stream reaches are dewatered and the stream flow diverted. The notification will provide a reasonable time for Department personnel to supervise the implementation of the water diversion plan and oversee the safe removal and relocation of salmonids and other fish life from the project area. If the project requires dewatering of the site, and the relocation of salmonids, the Grantee will implement the following measures to minimize harm and mortality to listed salmonids:
 - Fish relocation and dewatering activities shall only occur between June 15 and October 31 of each year.
 - The Grantee shall minimize the amount of wetted stream channel dewatered at each individual project site to the fullest extent possible.
 - All electrofishing shall be performed by a qualified fisheries biologist and conducted according to the National Marine Fisheries Service, Guidelines for Electrofishing Waters Containing Salmonids Listed under the Endangered Species Act, June 2000.
 - The Grantee will provide fish relocation data to the Grant Manager on a form provided by the Department of Fish and Game.
 - Additional measures to minimize injury and mortality of salmonids during fish relocation and dewatering activities shall be implemented as described in Part IX, pages 52 and 53 of the *California Salmonid Stream Habitat Restoration Manual*.

9. All road decommissioning will be done in accordance with techniques described in the Handbook for Forest and Ranch Roads, (PWA, 1994c.) and the *California Salmonid Stream Habitat Restoration Manual*, Third Edition, Volume II, Part X, January 2004. All road decommissioning and upgrade sites and techniques shall be approved by the Grant Manager before any equipment work takes place.
10. All habitat improvements will follow techniques described in the Third Edition, January 1998, of the *California Salmonid Stream Habitat Restoration Manual*, Flosi et al and the *California Salmonid Stream Habitat Restoration Manual*, Third Edition, Volume II, Part XI, January 2004.
11. Work in flowing streams is restricted to June 15 through October 31. Actual project start and end dates, within this timeframe, are at the discretion of the Department of Fish and Game.
12. Upon completion of the project, the Grantee shall submit two hard copies of a final written report and one electronic, Microsoft Word compatible, copy on a CD. If the project is not completed in the current year, the Grantee will submit a summary of the completed portion no later than December 1 and again each year until completed. The report shall include, but not necessarily be limited to the following information:
 - Grant number
 - Project name
 - Geographic area (e.g., watershed name)
 - Location of work – show project location using U.S.G.S. 7.5 minute topographical map or appropriately scaled topographical map
 - Geospatial reference/location (lat/long is preferred – defined as point, line, or polygon)
 - Project start and end dates and the number of person hours expended
 - Total of each fund source, by line item, expended to complete the project, breaking down Grant dollars, by line item, and any other funding, including type of match (cash or in-kind service)
 - Expected benefits to anadromous salmonids from the project
 - Labeled before and after photographs of any restoration activities and techniques
 - Specific project access using public and private roads and trails, with landowner name and address
 - Complete as built project description
 - Report measurable metrics for the project by responding to the restoration project metrics listed below.

Habitat Protection and Restoration Projects– Reporting Metrics (HU) (Report N/A to those that do not apply)

Habitat Projects: (all)

- Identify the watershed/sub-basin plan or assessment in which the project is identified as a priority.
- Name the priority habitat limiting factors identified in that plan that are addressed by the project
- Type of monitoring included in the project
 - Design spec achieved
 - Fish movement/abundance
- Number of stream miles treated/affected by the project within the project boundaries.

Upland Habitat Projects (HU)

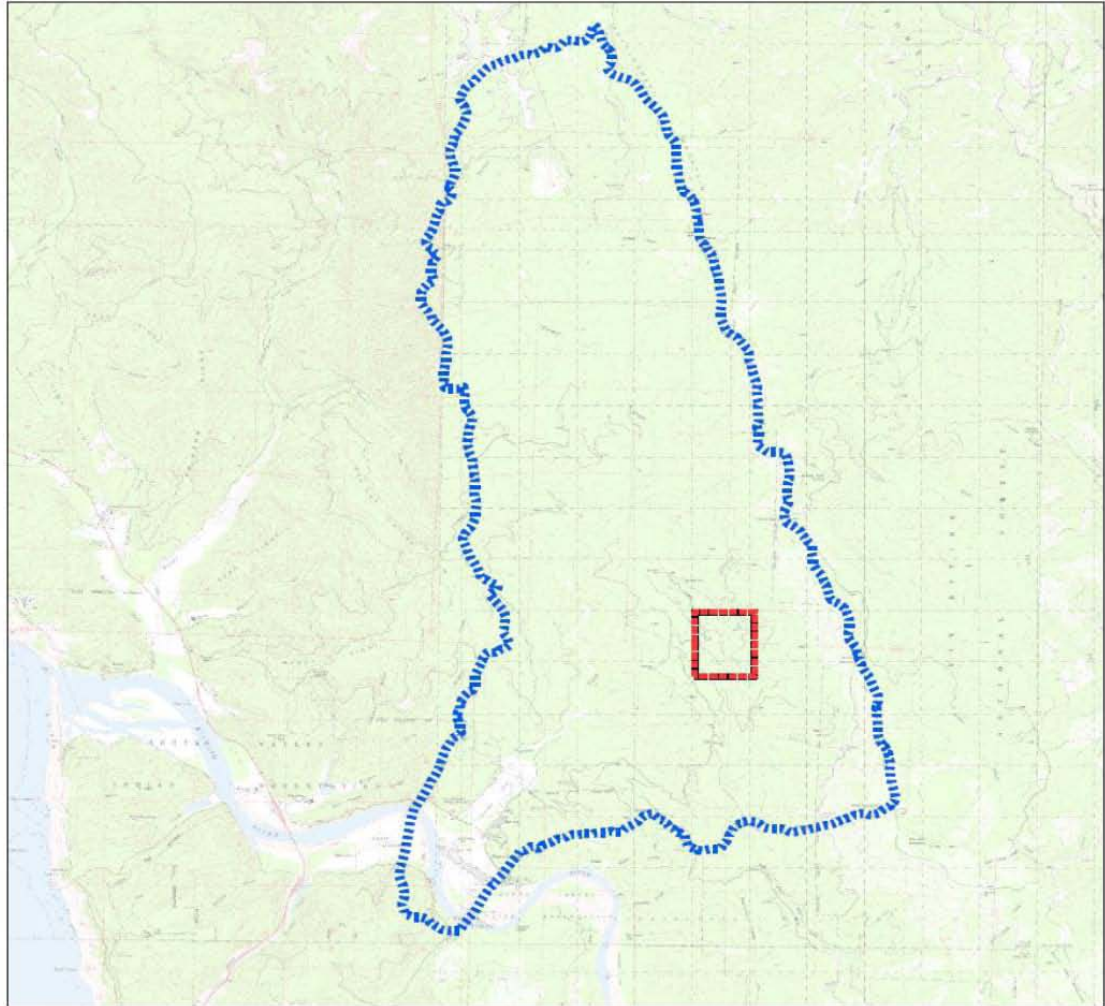
- Number of actions (road decommission / upgrade)
- Total acres of upslope area treated.
- Total miles of road treated.
- Miles of road treated for road drainage system improvements.
- Miles of road decommissioned.
- Number of cubic yards of sediment saved from entering the stream.

Riparian Habitat Projects (HR, HS)

- Miles of stream treated overall, count stream reach only once.
- Miles of riparian stream bank treated, measure both sides of the bank.
- Total acres of riparian area treated.
- Acres of riparian area planted.
- Species scientific names of plants planted.

13. The Grantee will acknowledge the participation of the Department of Fish and Game, Fisheries Restoration Grant funds on any signs, flyers, or other types of written communication or notice to advertise or explain the Klamath River Road Decommissioning and Erosion Prevention Project.

Exhibit C
2010 Lower Klamath River Road Decommissioning and Erosion Prevention Project Location Map 1
T14N, R2E Sec. 33 T13, R2E Sec.'s 3,4
Klamath Glen Quad
Del Norte County



Terwer Creek Watershed Boundary



Project Area

Project Location: Terwer Creek

Childs Hill, Can't Hook Mountain,
Requa and Klamath Glen 7.5' USGS Quadrangles

RF 1:95,040
1 inch = 1.5 miles
NAD 1983, UTM Zone 10

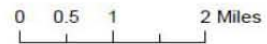
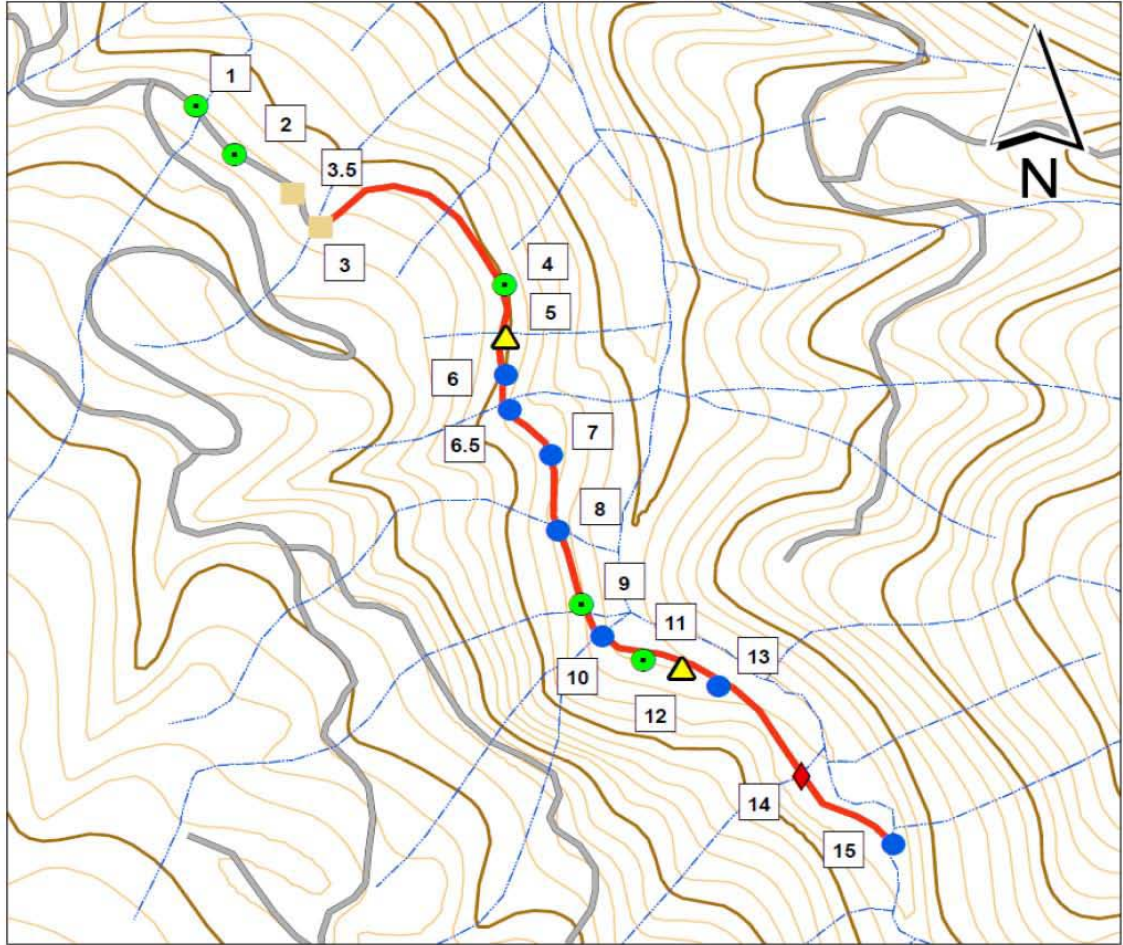


Exhibit C
2010 Lower Klamath River Road Decommissioning and Erosion Prevention Project Location Map 2
T14N, R2E Sec. 33 T13, R2E Sec.'s 3,4
Klamath Glen Quad
Del Norte County



- | | |
|---|--|
| ● Ditch Relief | — Proposed Road For Treatment |
| ◆ Landslide | --- Stream |
| ▲ Spring | --- Other Roads |
| ■ Swale | |
| ● Stream Crossing | |

U.S.G.S. 7.5' Topographic Map,
Klamath Glen Quadrangle

RF 1:6,000
1 inch = 500 feet
NAD 1983, UTM Zone 10

Contour Interval = 40 feet



California Department of Fish and Game

Natural Diversity Database

Selected Elements by Common Name - Portrait

Possible species within the Klamath Gen Quad and surrounding quads for: Lower Klamath Road Decommissioning and Erosion Prevention Project, T14N, R2E Sec. 33 T13, R2E Sec.'s 3,4, Del Norte County.

Common Name/Scientific Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 Del Norte buckwheat <i>Eriogonum nudum var. paralinum</i>	PDPGN08498			G5T2T4	S2?	2.2
2 Del Norte salamander <i>Plethodon elongatus</i>	AAAAD12050			G4	S3	SC
3 Fort Dick limnephilus caddisfly <i>Limnephilus atercus</i>	IITRI15020			G4	S1	
4 Humboldt marten <i>Martes americana humboldtensis</i>	AMAJF01012			G5T2T3	S2S3	SC
5 Oregon coast paintbrush <i>Castilleja affinis ssp. litoralis</i>	PDSCR0D012			G4G5T4	S2.2	2.2
6 Pacific fisher <i>Martes pennanti (pacific) DPS</i>	AMAJF01021	Candidate	unknown code...	G5	S2S3	SC
7 Pacific tailed frog <i>Ascaphus truei</i>	AAABA01010			G4	S2S3	SC
8 Sonoma tree vole <i>Arborimus pomo</i>	AMAFF23030			G3	S3	SC
9 Wolf's evening-primrose <i>Oenothera wolfii</i>	PDONA0C1K0			G1	S1.1	1B.1
10 Yuma myotis <i>Myotis yumanensis</i>	AMACC01020			G5	S4?	
11 coast cutthroat trout <i>Oncorhynchus clarkii clarkii</i>	AFCHA0208A			G4T4	S3	SC
12 coastal triquetrella <i>Triquetrella californica</i>	NBMUS7S010			G1	S1.2	1B.2
13 double-crested cormorant <i>Phalacrocorax auritus</i>	ABNFD01020			G5	S3	
14 ghost-pipe <i>Monotropa uniflora</i>	PDMON03030			G5	S2S3	2.2
15 great blue heron <i>Ardea herodias</i>	ABNGA04010			G5	S4	
16 leafy reed grass <i>Calamagrostis foliosa</i>	PMPOA170C0		Rare	G3	S3.2	4.2
17 marbled murrelet <i>Brachyramphus marmoratus</i>	ABNNN06010	Threatened	Endangered	G3G4	S1	
18 naked flag moss <i>Diselium nudum</i>	NBMUS2E010			G3G4	S1.2	2.2
19 northern red-legged frog <i>Rana aurora</i>	AAABH01021			G4T4	S2?	SC
20 northern spotted owl <i>Strix occidentalis caurina</i>	ABNSB12011	Threatened		G3T3	S2S3	SC
21 osprey <i>Pandion haliaetus</i>	ABNKC01010			G5	S3	
22 pink sand-verbena <i>Abronia umbellata ssp. breviflora</i>	PDNYC010N2			G4G5T2	S2.1	1B.1
23 serpentine catchfly <i>Silene serpentinicola</i>	PDCAR0U2B0			G2	S2.2	1B.2

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Common Name/Scientific Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24 southern torrent salamander <i>Rhyacotriton variegatus</i>	AAAAJ01020			G3G4	S2S3	SC