

# Mid-Klamath Tributary Fish Passage Improvement Project 2020

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## Introduction:

The Salmon River Restoration Council (Permittee) will implement this project to improve access for juvenile and adult salmonids to cold water tributaries of the Middle Klamath, Salmon, and Lower Scott Rivers. Due to climatic changes and continuing drought conditions in the Klamath River Watershed, access to thermal refugia habitat is critical for salmonids to avoid the elevated water temperatures experienced in the main stem rivers during the summer and fall months.

The Permittee shall not proceed with on the ground implementation until all necessary permits, consultations, and/or Notice to Proceed are secured. All habitat improvements will follow techniques in the *California Salmonid Stream Habitat Restoration Manual* – All crossings treated in fish bearing reaches of streams will follow the National Marine Fisheries Service (NMFS 2001) Guidelines for Salmonid Passage at Stream Crossings and the criteria for adult and juvenile salmonid fish passage as described in Volume II, Part IX of the *California Salmonid Stream Habitat Restoration Manual*.

All habitat improvements will follow techniques described in the *California Salmonid Stream Habitat Restoration Manual Part III Habitat Inventory Methods, Part VI Project Planning and Organization, Part VII Project Implementation, Part VIII Project Evaluation and Monitoring*

## Objective(s):

This project improves juvenile and adult salmonid fish passage to over 70 tributaries in the Middle Klamath, Salmon, and Lower Scott River subbasins through manual modification of fish barriers. The project also includes habitat assessment, fish presence surveys, and the installation of brush bundles to enhance complexity of coldwater refugia sites.

## Project Description:

### Location:

Project work will take place in tributaries in the Middle Klamath, Salmon, and Lower Scott subbasins. The confluence of the Salmon and the Klamath is 66-miles upriver of the mouth of the Klamath. The confluence of the Scott and the Klamath is 143-miles upriver of the mouth of the Klamath. Project coordinates are as follows:

- Aikens Creek - Township 10N, Range 5E, Section 30 of the Weitchpec 7.5 Minute U.S.G.S. Quadrangle, 41.2287035561195<sup>0</sup> N latitude and - 123.652229453152<sup>0</sup> W longitude, Humboldt County.

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- Beaver Creek - Township 46N, Range 8W, section 6 of the McKinley Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.86918356843<sup>0</sup> N latitude and -122.816936214582<sup>0</sup> W longitude, Siskiyou County.
- Bluff Creek - Township 10N, Range 5E, section 19 of the Weitchpec 7.5 Minute U.S.G.S. Quadrangle, 41.2403175024307<sup>0</sup> N latitude and -123.652670239812<sup>0</sup> W longitude, Humboldt County.
- Boise Creek –Township 10N, Range 5E, section 11 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.2827927073427<sup>0</sup> N latitude and -123.575729710028<sup>0</sup> W longitude, Humboldt County.
- Cade Creek – Township 16N, Range 7E, section 1 of the Slater Butte 7.5 Minute U.S.G.S. Quadrangle, 41.807396398784<sup>0</sup> N latitude and -123.349102435543<sup>0</sup> W longitude Siskiyou County.
- Camp Creek - Township 10N, Range 5E, section 1 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.2928365807256<sup>0</sup> N latitude and -123.562450198356<sup>0</sup> W longitude Humboldt County.
- China Creek - Township 16N, Range 8E, section 5 of the Slater Butte 7.5 Minute U.S.G.S. Quadrangle, 41.8000126384943<sup>0</sup> N latitude and -123.314115300704<sup>0</sup> W longitude Siskiyou County.
- Clear Creek – Township 15N, Range 7E, section 7 of the Clear Creek 7.5 Minute U.S.G.S. Quadrangle, 41.7097893751552<sup>0</sup> N latitude and -123.448025349561<sup>0</sup> W longitude, Siskiyou County.
- Coon Creek - Township 14N, Range 6E, section 16 of the Ukonom Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.6126777690956<sup>0</sup> N latitude and -123.496669412005<sup>0</sup> W longitude, Siskiyou County.
- Cottonwood Creek - Township 47N, Range 6W, section 28 of the Hornbrook 7.5 Minute U.S.G.S. Quadrangle, 41.8888993170663<sup>0</sup> N latitude and -122.543520415014<sup>0</sup> W longitude, Siskiyou County.
- Bogus Creek – Township 47N, Range 5W, section 17 of the Iron Gate Reservoir 7.5 Minute U.S.G.S. Quadrangle, 41.9292648308862<sup>0</sup> N latitude and -122.443200122306<sup>0</sup> W longitude, Siskiyou County.
- Crawford (Orleans RD) Creek - Township 10N, Range 5E, section 2 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.2954627099118<sup>0</sup> N latitude and -123.565440556926<sup>0</sup> W longitude, Humboldt County.

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- Crawford (Happy Camp RD) Creek - Township 15N, Range 7E, section 31 of the Clear Creek 7.5 Minute U.S.G.S. Quadrangle, 41.6489430176387<sup>0</sup> N latitude and -123.464062604151<sup>0</sup> W longitude, Siskiyou County.
- Dillon Creek – Township 14N, Range 6E, section 30 of the Dillon Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.5760616558261<sup>0</sup> N latitude and -123.538897099845<sup>0</sup> W longitude, Siskiyou County.
- Elk Creek - Township 16N, Range 7E, section 15 of the Happy Camp 7.5 Minute U.S.G.S. Quadrangle, 41.7808474249952<sup>0</sup> N latitude and -123.394215431848<sup>0</sup> W longitude, Siskiyou County.
- Elliott Creek - Township 14N, Range 6E, section 21 of the Dillon Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.5938122050324<sup>0</sup> N latitude and -123.508867882249<sup>0</sup> W longitude, Siskiyou County.
- Fort Goff Creek - Township 47N, Range 12W, section 32 of the Slater Butte 7.5 Minute U.S.G.S. Quadrangle, 41.8637587410583<sup>0</sup> N latitude and -123.257547730137<sup>0</sup> W longitude, Siskiyou County.
- Grider Creek - Township 46N, Range 12W, section 11 of the Seiad Valley 7.5 Minute U.S.G.S. Quadrangle, 41.8413742490028<sup>0</sup> N latitude and -123.207232422343<sup>0</sup> W longitude, Siskiyou County.
- Hopkins Creek - Township 9N, Range 4E, section 1 of the Weitchpec 7.5 Minute U.S.G.S. Quadrangle, 41.2033776695771<sup>0</sup> N latitude and -123.661626235371<sup>0</sup> W longitude, Humboldt County.
- Horse Creek - Township 46N, Range 10W, section 16 of the Horse Creek 7.5 Minute U.S.G.S. Quadrangle, 41.8237298237422<sup>0</sup> N latitude and -123.004938571897<sup>0</sup> W longitude, Siskiyou County.
- Ikes Creek - Township 11N, Range 6E, section 9 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.3627233814817<sup>0</sup> N latitude and -123.493391498668<sup>0</sup> W longitude, Humboldt County.
- Independence Creek - Township 15N, Range 7E, section 31 of the Clear Creek 7.5 Minute U.S.G.S. Quadrangle, 41.6583259267471<sup>0</sup> N latitude and -123.451158912378<sup>0</sup> W longitude, Siskiyou County.
- Indian Creek - Township 16N, Range 7E, section 11 of the Happy Camp 7.5 Minute U.S.G.S. Quadrangle, 41.7901606273327<sup>0</sup> N latitude and -123.378643388002<sup>0</sup> W longitude, Siskiyou County.

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- Irving Creek - Township 12N, Range 6E, section 4 of the Somes Bar 7.5 Minute U.S.G.S. Quadrangle, 41.4679467857431<sup>0</sup> N latitude and -123.500384925987<sup>0</sup> W longitude, Siskiyou County.
- King Creek – Township 14N, Range 6E, section 10 of the Ukonom Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.6181758096982<sup>0</sup> N latitude and -123.47257022159<sup>0</sup> W longitude.
- Little Grider Creek - Township 16N, Range 7E, section 15 of the Happy Camp 7.5 Minute U.S.G.S. Quadrangle, 41.7839085902163<sup>0</sup> N latitude and -123.394727086469<sup>0</sup> W longitude, Siskiyou County.
- Little Horse Creek - Township 16N, Range 8E, section 17 of the Slater Butte 7.5 Minute U.S.G.S. Quadrangle, 41.7848169906142<sup>0</sup> N latitude and -123.318508323308<sup>0</sup> W longitude, Siskiyou County.
- Little Humbug Creek - Township 46N, Range 9W, section 13 of the McKinley Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.8356656841503<sup>0</sup> N latitude and -122.842594909606<sup>0</sup> W longitude, Siskiyou County.
- Oak Flat Creek - Township 15N, Range 7E, section 5 of the Clear Creek 7.5 Minute U.S.G.S. Quadrangle, 41.7291736440985<sup>0</sup> N latitude and -123.435753299248<sup>0</sup> W longitude, Siskiyou County.
- O’Neil Creek - Township 46N, Range 11W, section 22 of the Hamburg 7.5 Minute U.S.G.S. Quadrangle, 41.8103537703065<sup>0</sup> N latitude and -123.115336352167<sup>0</sup> W longitude, Siskiyou County.
- Pearch Creek - Township 11N, Range 6E, section 29 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.3122198650783<sup>0</sup> N latitude and -123.525153520217<sup>0</sup> W longitude, Humboldt County.
- Portuguese (Happy Camp RD) Creek - Township 46N, Range 12W, section 4 of the Seiad Valley 7.5 Minute U.S.G.S. Quadrangle, 41.8583890878468<sup>0</sup> N latitude and -123.247383959358<sup>0</sup> W longitude, Siskiyou County.
- Red Cap Creek –Township 10N, Range 5E, section 15 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.2586968618963<sup>0</sup> N latitude and -123.604777976698<sup>0</sup> W longitude, Humboldt County.
- Reynolds Creek - - Township 12N, Range 6E, section 16 of the Bark Shanty Gulch 7.5 Minute U.S.G.S. Quadrangle, 41.429419770115<sup>0</sup> N latitude and -123.503987030615<sup>0</sup> W longitude, Siskiyou County.



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- Rock Creek - Township 13N, Range 6E, section 19 of the Dillon Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.512004723306<sup>0</sup> N latitude and - 123.530474506961<sup>0</sup> W longitude, Siskiyou County.
- Rodgers Creek - Township 12N, Range 6E, section 10 of the Somes Bar 7.5 Minute U.S.G.S. Quadrangle, 41.4450208828164<sup>0</sup> N latitude and - 123.490677846782<sup>0</sup> W longitude, Siskiyou County.
- Sandy Bar Creek - Township 13N, Range 12E, section 29 of the Bark Shanty Gulch 7.5 Minute U.S.G.S. Quadrangle, 41.4858786001552<sup>0</sup> N latitude and -123.518578630947<sup>0</sup> W longitude, Siskiyou County.
- Seiad Creek - Township 46N, Range 12W, section 11 of the Seiad Valley 7.5 Minute U.S.G.S. Quadrangle, 41.8429611818926<sup>0</sup> N latitude and - 123.211768138503<sup>0</sup> W longitude, Siskiyou County.
- Slate Creek - Township 10N, Range 5E, section 19 of the Fish Lake 7.5 Minute U.S.G.S. Quadrangle, 41.2500749694317<sup>0</sup> N latitude and - 123.643606169354<sup>0</sup> W longitude, Humboldt County.
- Stanshaw Creek - Township 13N, Range 6E, section 32 of the Bark Shanty Gulch 7.5 Minute U.S.G.S. Quadrangle, 41.4764505301297<sup>0</sup> N latitude and -123.512216159296<sup>0</sup> W longitude, Siskiyou County.
- Swillup Creek - Township 14N, Range 6E, section 16 of the Dillon Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.6083217447384<sup>0</sup> N latitude and -123.501171983651<sup>0</sup> W longitude, Siskiyou County.
- Thompson Creek - Township 17N, Range 8E, section 17 of the Slater Butte 7.5 Minute U.S.G.S. Quadrangle, 41.8635835729834<sup>0</sup> N latitude and -123.308571494432<sup>0</sup> W longitude, Siskiyou County.
- Ti Creek - Township 13N, Range 6E, section 17 of the Dillon Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.5254093166938<sup>0</sup> N latitude and - 123.529023602002<sup>0</sup> W longitude, Siskiyou County.
- Titus Creek - Township 15N, Range 7E, section 9 of the Clear Creek 7.5 Minute U.S.G.S. Quadrangle, 41.671302617713<sup>0</sup> N latitude and - 123.430321394482<sup>0</sup> W longitude, Siskiyou County.
- Tom Martin Creek - Township 46N, Range 10W, section 31 of the Hamburg 7.5 Minute U.S.G.S. Quadrangle, 41.7839059151274<sup>0</sup> N latitude and -123.042285748413<sup>0</sup> W longitude, Siskiyou County.

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- Ukonom Creek – Township 14N, Range 6E, section 10 of the Ukonom Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.6165746997496<sup>0</sup> N latitude and -123.484822208613<sup>0</sup> W longitude, Siskiyou County.
- Ullathorne Creek - Township 10N, Range 5E, section 2 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.291191493876<sup>0</sup> N latitude and - 123.570893001912<sup>0</sup> W longitude, Humboldt County.
- Walker Creek - Township 46N, Range 11W, section 18 of the Hamburg 7.5 Minute U.S.G.S. Quadrangle, 41.8363805541597<sup>0</sup> N latitude and - 123.17165065021<sup>0</sup> W longitude, Siskiyou County.
- Whitmore Creek - Township 11N, Range 6E, section 20 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.335248737009<sup>0</sup> N latitude and - 123.51144190574<sup>0</sup> W longitude, Humboldt County.
- Wilson Creek - Township 11N, Range 6E, section 20 of the Orleans 7.5 Minute U.S.G.S. Quadrangle, 41.3299135535568<sup>0</sup> N latitude and - 123.521377557137<sup>0</sup> W longitude, Humboldt County.

## Tributaries to the Salmon River:

- Merrill Creek - Township 11N, Range 6E, section 3 of the Somes Bar 7.5 Minute U.S.G.S. Quadrangle, 41.3789656710799<sup>0</sup> N latitude and - 123.472959129492<sup>0</sup> W longitude, Siskiyou County.
- Butler Creek - Township 10N, Range 7E, section 20 of the Orleans Mountain 7.5 Minute U.S.G.S. Quadrangle, 41.3366294832496<sup>0</sup> N latitude and -123.409364978033<sup>0</sup> W longitude, Siskiyou County.
- Wooley Creek - Township 11N, Range 7E, section 6 of the Somes Bar 7.5 Minute U.S.G.S. Quadrangle, 41.377020195725<sup>0</sup> N latitude and - 123.422556383828<sup>0</sup> W longitude, Siskiyou County.
- Crapo Creek - Township 10N, Range 7E, section 3 of the Forks of Salmon 7.5 Minute U.S.G.S. Quadrangle, 41.2922417385435<sup>0</sup> N latitude and - 123.362899897166<sup>0</sup> W longitude, Siskiyou County.
- Nordheimer Creek - Township 10N, Range 7E, section 3 of the Forks of Salmon 7.5 Minute U.S.G.S. Quadrangle, 41.2967705451208<sup>0</sup> N latitude and -123.359771684277<sup>0</sup> W longitude, Siskiyou County.
- Knownothing Creek - Township 10N, Range 8E, section 20 of the Youngs Peak 7.5 Minute U.S.G.S. Quadrangle, 41.2434060297031<sup>0</sup> N latitude and -123.291722494562<sup>0</sup> W longitude, Siskiyou County.

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- Methodist Creek - Township 39N, Range 12W, section 30 of the Cecilville 7.5 Minute U.S.G.S. Quadrangle, 41.2217487137878<sup>0</sup> N latitude and - 123.249482893645<sup>0</sup> W longitude, Siskiyou County.
- Indian Creek - Township 39N, Range 12W, section 32 of the Cecilville 7.5 Minute U.S.G.S. Quadrangle, 41.2112079236715<sup>0</sup> N latitude and - 123.23243497276<sup>0</sup> W longitude, Siskiyou County.
- Black Bear Creek - Township 38N, Range 12W, section 4 of the Cecilville 7.5 Minute U.S.G.S. Quadrangle, 41.20413539487<sup>0</sup> N latitude and - 123.224761635407<sup>0</sup> W longitude, Siskiyou County.
- St. Claire Creek - Township 38N, Range 12W, section 25 of the Cecilville 7.5 Minute U.S.G.S. Quadrangle, 41.1409236707154<sup>0</sup> N latitude and - 123.172473086549<sup>0</sup> W longitude, Siskiyou County.
- Cecil Creek - Township 38N, Range 11W, section 29 of the Cecilville 7.5 Minute U.S.G.S. Quadrangle, 41.1389806399671<sup>0</sup> N latitude and - 123.128233284651<sup>0</sup> W longitude, Siskiyou County.
- East Fork of the Salmon River - Township 38N, Range 11W, section 21 of the Grasshopper Ridge 7.5 Minute U.S.G.S. Quadrangle, 41.1539823768385<sup>0</sup> N latitude and -123.108721368895<sup>0</sup> W longitude, Siskiyou County.
- Cronan Creek - Township 40N, Range 12W, section 23 of the Sawyers Bar 7.5 Minute U.S.G.S. Quadrangle, 41.3132966413738<sup>0</sup> N latitude and - 123.191989306522<sup>0</sup> W longitude, Siskiyou County.
- Jackass Gulch - Township 40N, Range 11W, section 30 of the Sawyers Bar 7.5 Minute U.S.G.S. Quadrangle, 41.3024682874911<sup>0</sup> N latitude and -123.158333568818<sup>0</sup> W longitude, Siskiyou County.
- Glasgow Creek - Township 40N, Range 12W, section 25 of the Sawyers Bar 7.5 Minute U.S.G.S. Quadrangle, 41.3065552677138<sup>0</sup> N latitude and - 123.165685594475<sup>0</sup> W longitude, Siskiyou County.
- Kelly Gulch- Township 40N, Range 12W, section 24 of the Sawyers Bar 7.5 Minute U.S.G.S. Quadrangle, 41.315652110033<sup>0</sup> N latitude and - 123.16864938599<sup>0</sup> W longitude, Siskiyou County.
- White's Gulch - Township 40N, Range 11W, section 26 of the Tanners Peak 7.5 Minute U.S.G.S. Quadrangle, 41.2983630796428<sup>0</sup> N latitude and -123.083740403331<sup>0</sup> W longitude, Siskiyou County.

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- Little North Fork Salmon River - Township 40N, Range 12W, section 24 of the Sawyers Bar 7.5 Minute U.S.G.S. Quadrangle, 41.320818105076<sup>0</sup> N latitude and -123.177014834928<sup>0</sup> W longitude, Siskiyou County.
- North Russian Creek - Township 40N, Range 10W, section 19 of the Tanners Peak 7.5 Minute U.S.G.S. Quadrangle, 41.3266623486482<sup>0</sup> N latitude and -123.056826881947<sup>0</sup> W longitude, Siskiyou County.
- South Russian Creek - Township 40N, Range 10W, section 19 of the Tanners Peak 7.5 Minute U.S.G.S. Quadrangle, 41.3266623486482<sup>0</sup> N latitude and -123.056826881947<sup>0</sup> W longitude, Siskiyou County.

## Tributaries to the Lower Scott River:

- Boulder Creek - Township 44N, Range 11W, section 27 of the Scott Bar 7.5 Minute U.S.G.S. Quadrangle, 41.6341948369914<sup>0</sup> N latitude and -123.099373898226<sup>0</sup> W longitude, Siskiyou County.
- Middle Creek - Township 44N, Range 11W, section 16 of the Scott Bar 7.5 Minute U.S.G.S. Quadrangle, 41.6686351806392<sup>0</sup> N latitude and -123.108934050751<sup>0</sup> W longitude, Siskiyou County.
- Thompson Creek - Township 44N, Range 11W, section 10 of the Scott Bar 7.5 Minute U.S.G.S. Quadrangle, 41.6811641598119<sup>0</sup> N latitude and -123.097317935761<sup>0</sup> W longitude, Siskiyou County.

## Project Set Up:

Permittee will subcontract with the Mid Klamath Watershed Council (MKWC) to implement treatments on Mid Klamath and Scott River tributaries, in coordination with the Permittee's Fisheries Program. MKWC will play a critical role in implementing and monitoring fish passage treatments, entering data, hosting volunteer workdays, and providing outreach to landowners.

Personnel: Permittee Restoration Director will participate in tasks 1, 5 & 6; Permittee Program Coordinator will participate in tasks 1, 2, 3, 4, 5 & 6; Permittee Crew Leader will participate in tasks 1, 2, 3, 4, 5 & 6; Permittee Field Technicians will participate in tasks 2, 3, 4 & 6; Community Volunteers will participate in task 3; MKWC (subcontractor) will participate in tasks 1, 2, 3, 4, 5 & 6.

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## Materials:

The following materials will be purchased by the applicant: Waders will be used during fish passage treatment. These are required for safety and prevention of hypothermia. Felt-soled boots will be worn during snorkel surveys and fish passage treatment. These are required for safety and to prevent slipping. Miscellaneous field supplies, including rock bars, gloves, measuring tape, clinometer, field notebooks, clipboards, and small whiteboards. Rock bars and gloves are required for safety and will be used to manually move rocks and debris to create temporary fishways. Measuring tape and a clinometer will be used for measurements of habitat conditions. Notebooks, clipboards, and whiteboards will be used to record data during fish presence assessments and project implementation and monitoring. Quat-265 disinfectant will be used to disinfect field gear in accordance with invasive species and aquatic pathogen prevention protocols. Office supplies, including printer ink, printer toner, copy paper, pens, pencils, markers, weatherproof paper, tape, paperclips, fasteners, and folders. These materials will be used for various tasks associated with the project, including for the printing of project reports and datasheets. GIS software subscription will be used to create site and fish presence/absence maps. A Garmin inReach (satellite communication and safety device) subscription will be necessary because there is no cell phone coverage on the Salmon River. Field crews use inReach devices to communicate in case of emergency.

The following materials are part of the Permittee's in-kind contribution. Wetsuits and drysuits will be worn during snorkel surveys. These are required for safety and the prevention of hypothermia. Masks and snorkels will be used during snorkel surveys to conduct fish presence assessments. These are required for safety and fish presence monitoring. Biodegradable twine will be used to tie together and install brushy materials at prioritized refugia sites in conjunction with barrier remediation efforts. Stadia rods will be used during assessments to measure habitat conditions pre- and post-implementation. These are required for accurate measurements of habitat conditions. Waterproof cameras will be used during assessments to document pre- and post-implementation habitat conditions. Field laptop computer use. This Permittee-owned computer will be used to record and process data and photos, and to create maps. These are required for implementation monitoring. Garmin inReach (satellite communication and safety device) subscription is necessary because there is no cell phone coverage on the Salmon River. Field crews use inReach devices to communicate in case of emergency. Permittee is contributing the two-year subscription cost for a second device.

The following materials will be purchased by the subcontractor: Masks and snorkels will be used during snorkel surveys to conduct fish presence assessments. These are required for safety and fish presence monitoring. Felt-soled boots will be worn during snorkel surveys and fish passage treatment.

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These are required for safety and to prevent slipping. Office supplies, including printer ink, printer toner, copy paper, pens, pencils, markers, weatherproof paper, tape, paperclips, fasteners, and folders. These materials will be used for various tasks associated with the project, including for the printing of datasheets and maps.

## **Tasks:**

Task 1. Coordinate with all collaborators to prioritize treatments, discuss techniques and standardize protocol. Train field technicians. Conduct pre-season coordination meetings (April 2021, April 2022).

Task 2. Conduct assessments of juvenile and adult fish passage on tributaries of the Mid Klamath, Salmon, and Lower Scott Rivers. Assessments will include identification of barriers and recording of qualitative features. Collect data at tributary mouths and other barriers, including channel width, depth, and gradient. Assessment data will be incorporated into an existing data set from previous years' assessments and will be used to develop a strategic plan for modification of fish barrier sites (May 2021, May 2022).

Task 3. Modify identified barriers to allow for juvenile and adult salmonid fish passage. Step-and-pool fishways are the primary model to be used for modification. In some cases, creek mouths with large, shallow alluvial fans will be channelized to improve fish passage and minimize solar heating (June 2021, November 2021 – June 2022, November 2022). No heavy equipment will be used.

Task 4. Photo points will be taken before, during, and after the modifications to document methods used on each site and provide a reference for future years (ongoing). Video will also be taken at select sites.

Task 5. Data will be shared with all interested parties to increase understanding of fish passage issues at tributary mouths and develop appropriately scaled projects to address the issue (ongoing).

Task 6. Conduct outreach to private landowners at creek mouths, identified as having fish passage issues, to gain access for assessment and modification (ongoing). Signs will be posted at locations where swimmer's dams or push-up dams are chronically affecting fish passage in order to educate landowners and river users about the need for appropriate construction of these features.



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## **Deliverables:**

- Maps of project areas with identification and type of fish barriers.
- Before, during, and after photo points of project sites. Video of creek mouths, volunteer workdays, and fish barriers.
- Data on improvements to fish passage: fish usage, velocity, pool depths, barrier heights, channel gradient, cover, and temperature measurements before and after treatment.
- Community participation in at least six volunteer workdays to manually modify barriers to allow for fish passage.
- Posting of educational signs about fish passage in swimmers' dams at public swimming holes.
- Agreements with landowners to access potential fish barriers on private lands.
- Quarterly and annual progress reports, a draft final, and Final Report describing the project, and a summary of findings and results

## **Timelines:**

1. June 2021, June 2022: Convene a coordination meeting with the Mid Klamath Watershed Council, the Karuk Tribe Fisheries Program, Salmon River Restoration Council, and USFS Fisheries to standardize survey protocol, establish techniques and discuss priorities. (Task 1)
2. June-July 2021, June-July 2022: Develop assessment prioritization strategy. Begin assessment of tributaries for fish passage barriers and pre biological monitoring at sites marked for implementation. Begin outreach to private landowners. (Task 1, 2 & 6)
3. June-November 2021, June-November 2022: Implement treatments on prioritized sites for juvenile fish passage. Collect 12 photo-points and implement pre and post structural and biological monitoring. Coordinate two volunteer workdays and begin public outreach campaign. (Task 3, 4 & 6)
4. August-November 2021, August-November 2022: Implement treatments on prioritized sites for adult fish passage and monitor implementations. Coordinate one volunteer workday. (Task 3, 4 & 6)
5. November 2021, November 2022: Monitor adult fish passage sites. Develop/submit annual progress report and final report. (Task 3, 4 & 5)

# Mid-Klamath Tributary Fish Passage Improvement Project 2020

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6. November-December 2022: Submit draft, final report. Publish and distribute collected data and findings.

## **Additional Requirements:**

The Permittee will not proceed with on the ground implementation until all necessary permits and consultations are secured. Work in flowing streams is restricted per the Army Corp of Engineers Regional General Permit. Actual project start and end dates, within this timeframe, are at the discretion of the California Department of Fish and Wildlife.

No equipment maintenance will be performed within or near the stream channel where pollutants (such as petroleum products) from the equipment may enter the channel via rainfall or runoff. Appropriate spill containment devices (e.g., oil absorbent pads, tarpaulins) will be used when refueling equipment. Any and all equipment will be removed from the streambed and flood plain areas at the end of each workday.

All equipment and gear will be brushed with a stiff brush prior to leaving each stretch of stream to avoid the transport of aquatic invasive species (AIS). When transporting traps out of the area, each numbered trap will be bagged in its own bag to avoid cross contamination during transport in and out of the work area. All crew members will decontaminate equipment and shoes for AIS according to the standards detailed in the California Department of Fish & Wildlife *Aquatic Invasive Species Decontamination Protocol*.

During project activities, all trash that may attract predators will be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris will be removed from work areas.

The Permittee shall notify the Grantor Project Manager a minimum of five working days before the project site is de-watered and the stream flow diverted. The notification will provide a reasonable time for Grantor personnel to oversee the implementation of the water diversion plan and 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 Permittee shall minimize the amount of wetted stream channel dewatered at each individual project site to the fullest extent possible.

# Mid-Klamath Tributary Fish Passage Improvement Project 2020

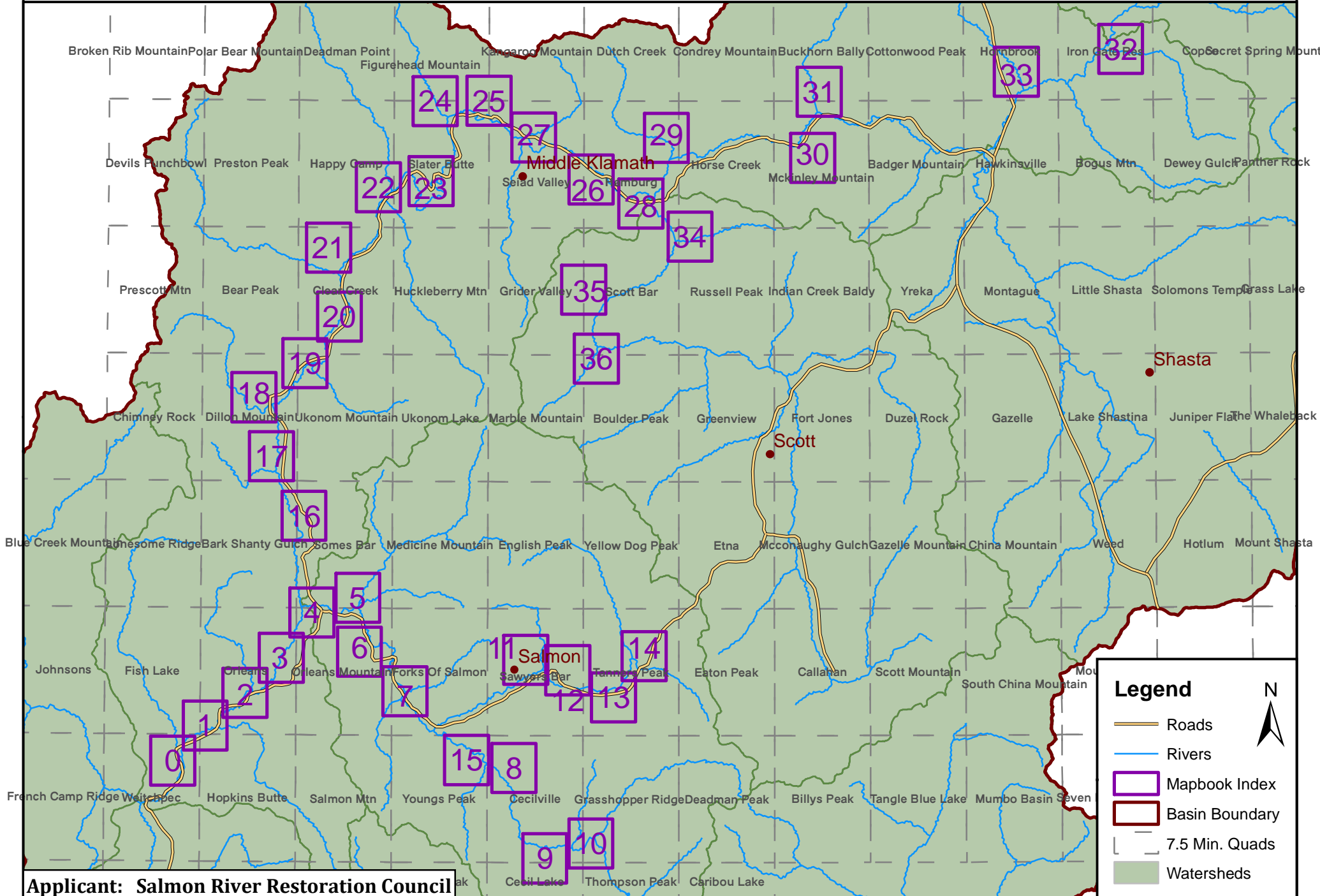
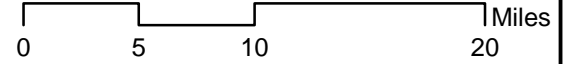
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- All electrofishing shall be performed by a qualified fisheries biologist and conducted according to the National Marine Fisheries Service, Guidelines for Electrofishing Waters Containing Salmonids Listed under the Endangered Species Act, June 2000.
- The Permittee will provide fish relocation data to the Grantor Project Manager on a form provided by the Grantor.
- Additional measures to minimize injury and mortality of salmonids during fish relocation and dewatering activities shall be implemented as described in Volume II, Part IX, pages 52 and 53 of the *California Salmonid Stream Habitat Restoration Manual*.

All habitat improvements will follow techniques described in the *California Salmonid Stream Habitat Restoration Manual Part III Habitat Inventory Methods, Part VI Project Planning and Organization, Part VII Project Implementation, Part VIII Project Evaluation and Monitoring*.

# Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Index Map



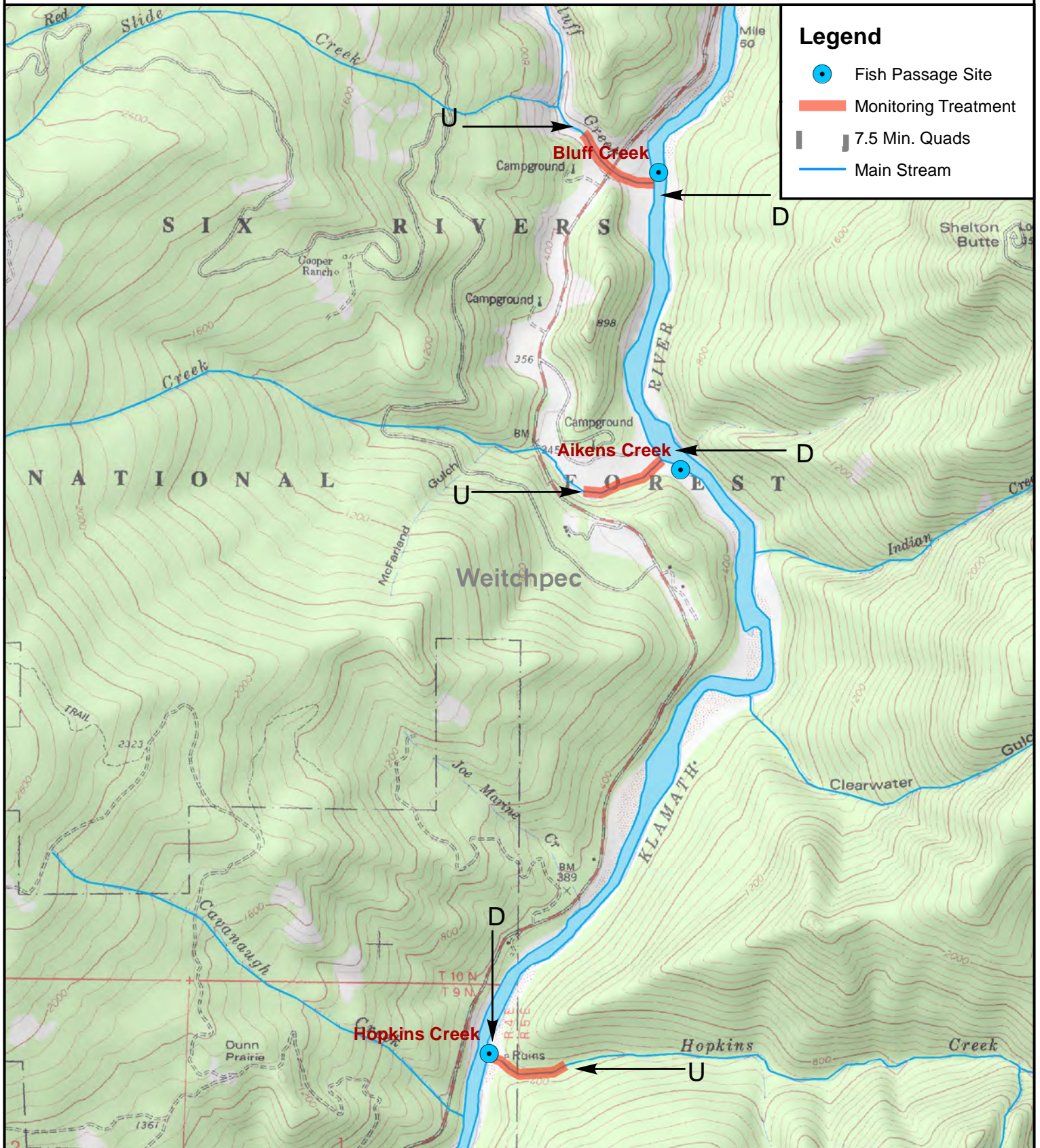
**Legend**

- Roads
- Rivers
- Mapbook Index
- Basin Boundary
- 7.5 Min. Quads
- Watersheds

**Applicant: Salmon River Restoration Council**



# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project Location Topographic Map Number 1 of 37

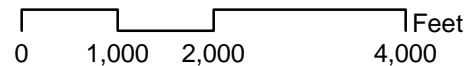


**Applicant:** Salmon River Restoration Council

**Stream name:** Bluff Creek, Aikens Creek,  
Hopkins Creek

**Quad name:** Weitchpec

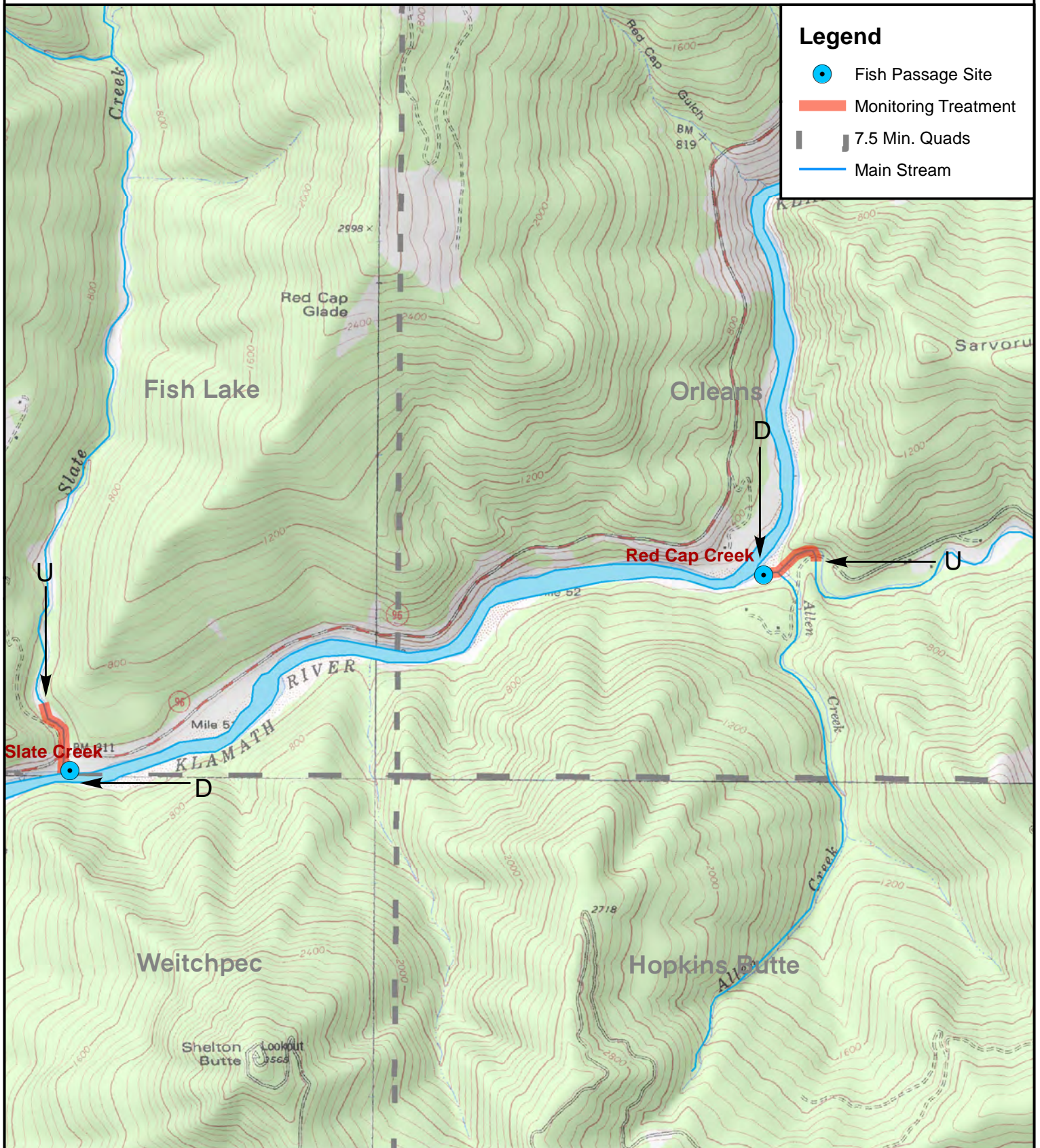
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 2 of 37

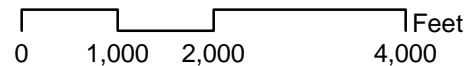


**Applicant:** Salmon River Restoration Council

**Stream name:** Slate Creek, Red Cap Creek

**Quad name:** Fish Lake, Orleans, Hopkins Butte, Weitchpec

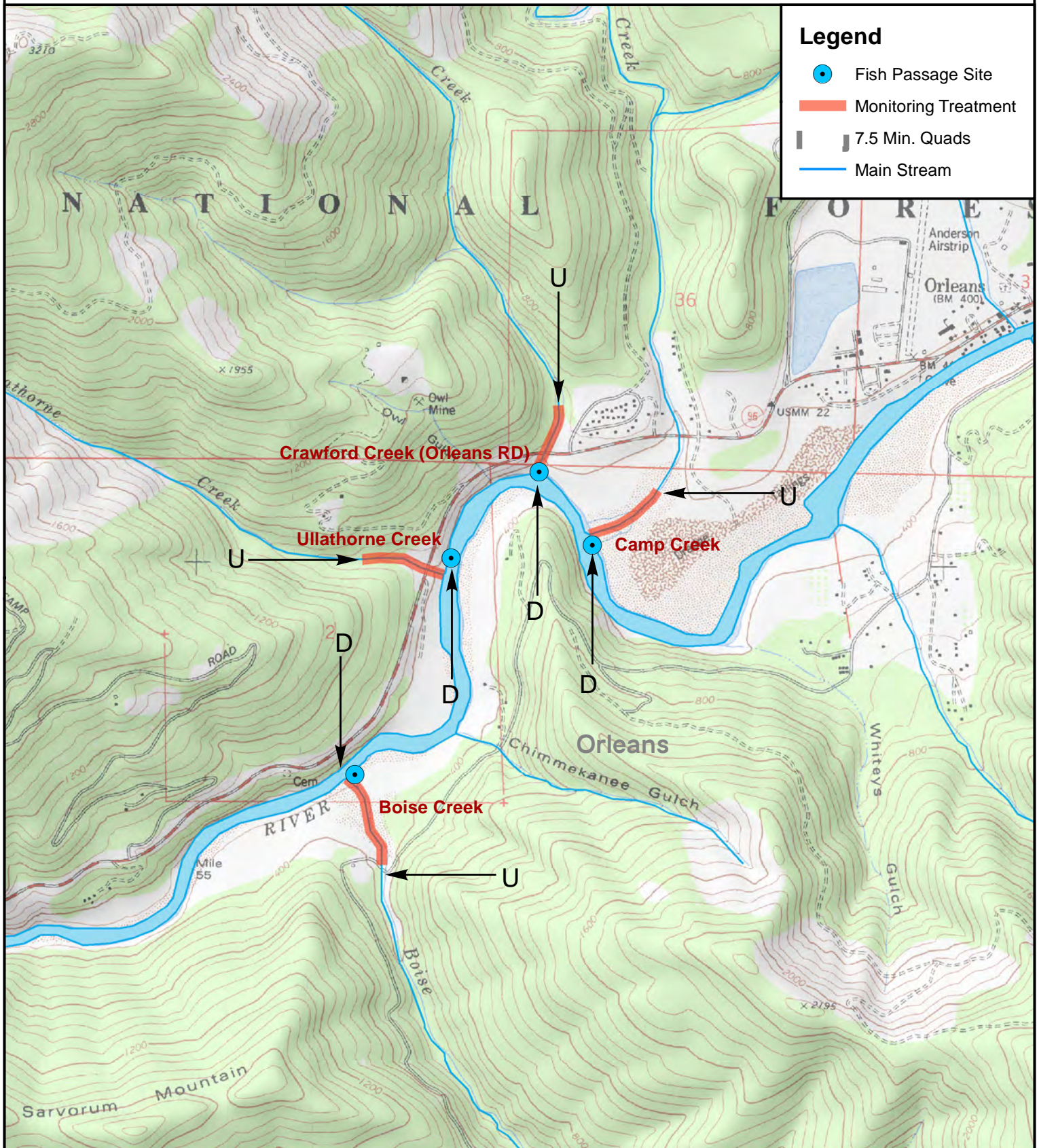
1 inch = 2,000 feet





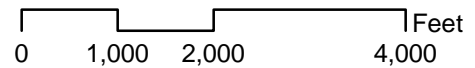
# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 3 of 37



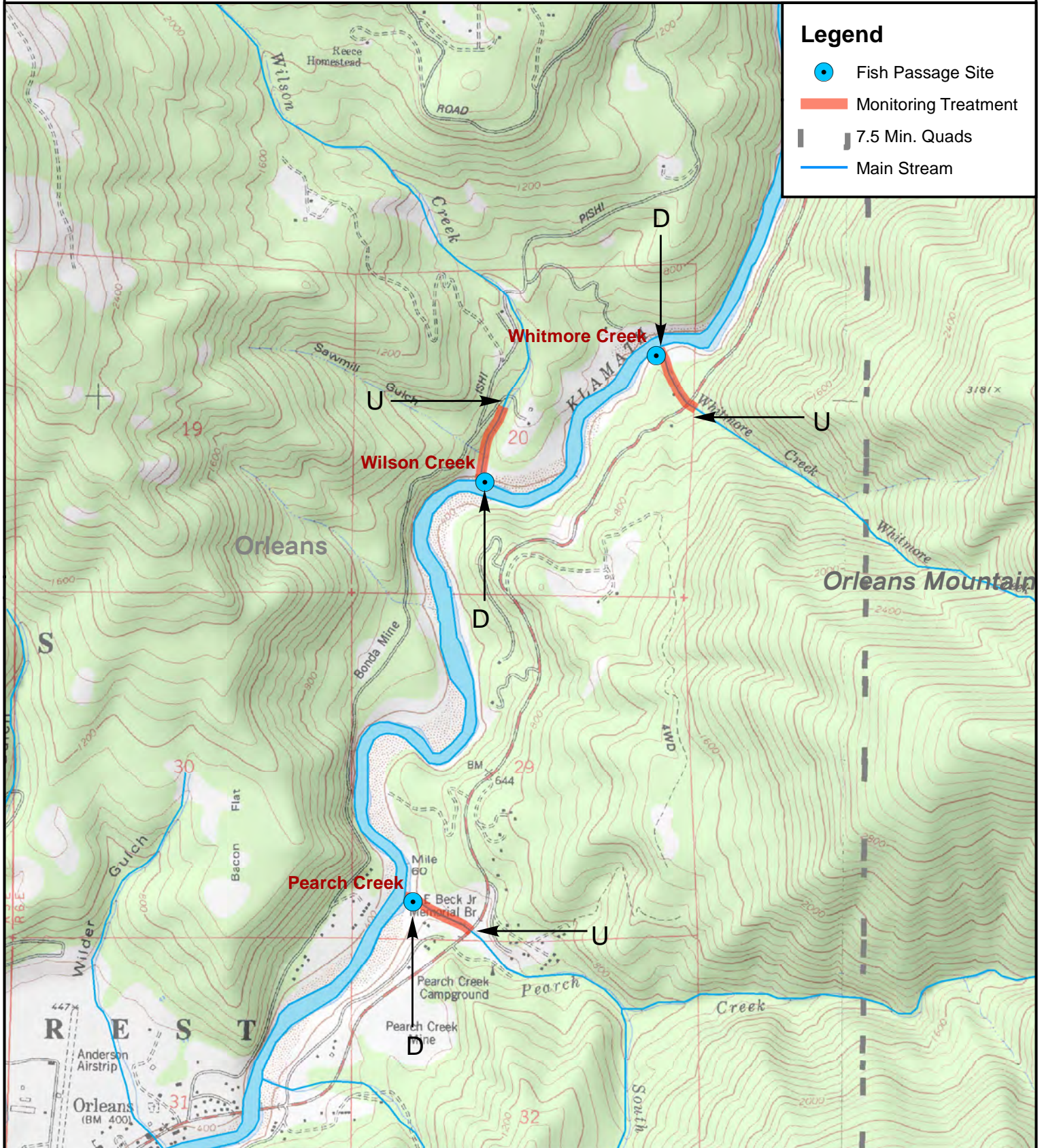
**Applicant:** Salmon River Restoration Council  
**Stream name:** Boise Cr., Ullathorne Cr., Crawford Cr.,  
 Camp Cr.  
**Quad name:** Orleans

1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project Location Topographic Map Number 4 of 37

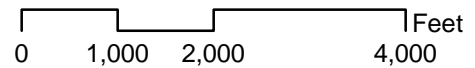


**Applicant:** Salmon River Restoration Council

**Stream name:** Pearch Cr., Wilson Cr., Whitmore Cr.

**Quad name:** Orleans, Orleans Mountain

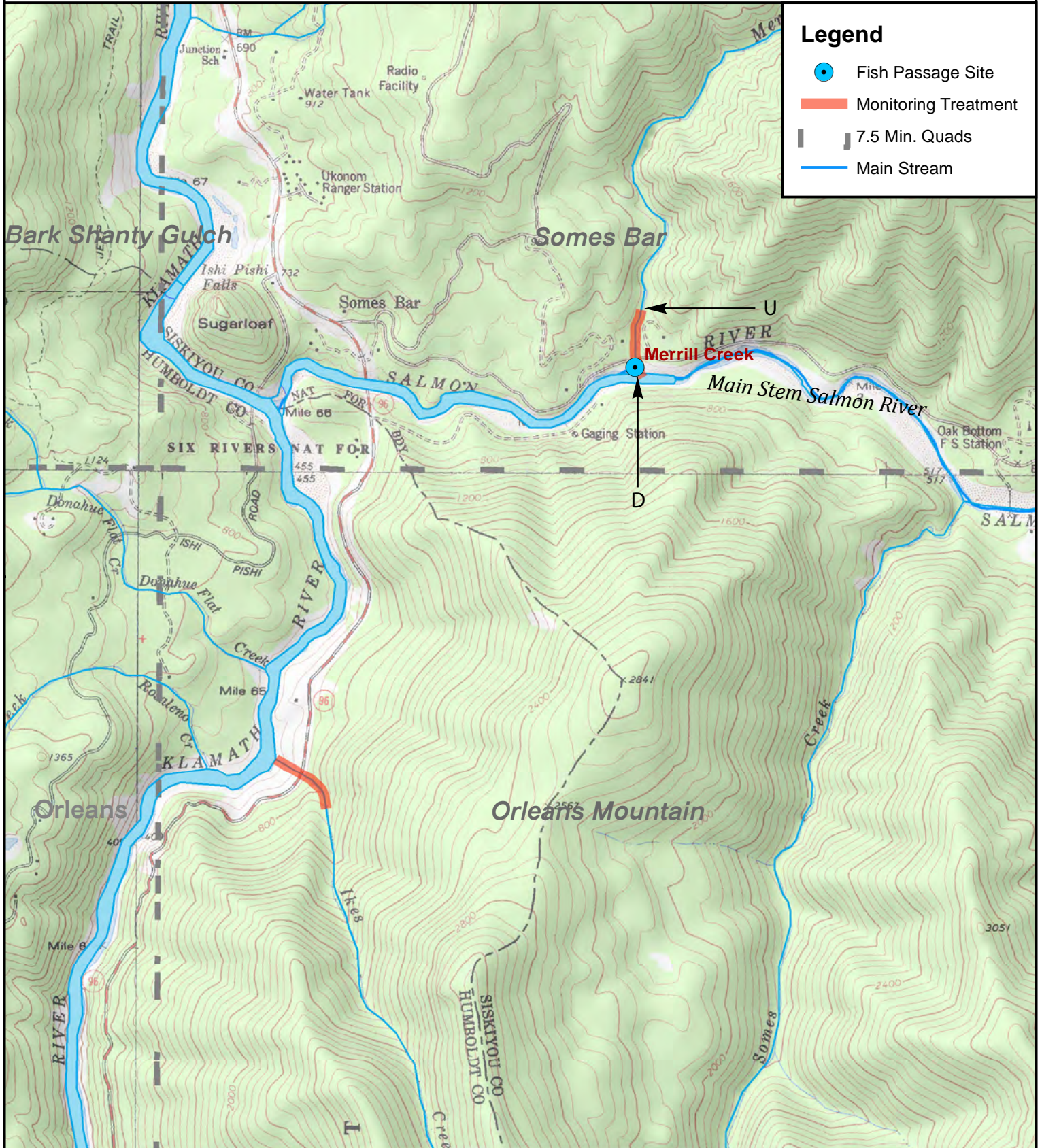
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 5 of 37

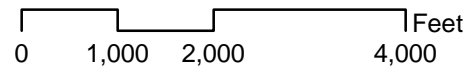


**Applicant:** Salmon River Restoration Council

**Stream name:** Merril Creek

**Quad name:** Somes Bar

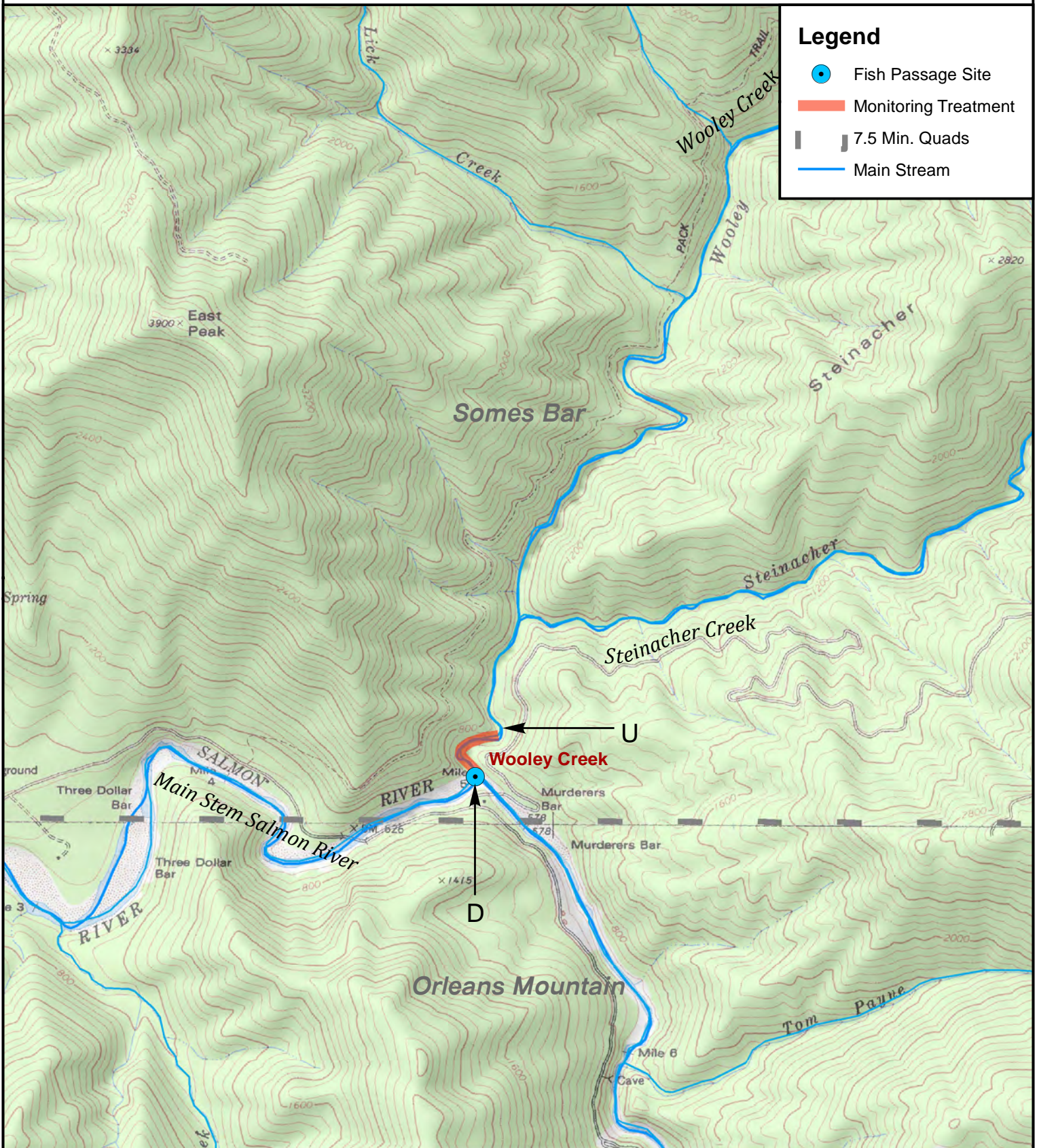
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 6 of 37

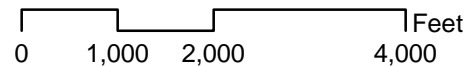


**Applicant:** Salmon River Restoration Council

**Stream name:** Woolley Creek

**Quad name:** Somes Bar

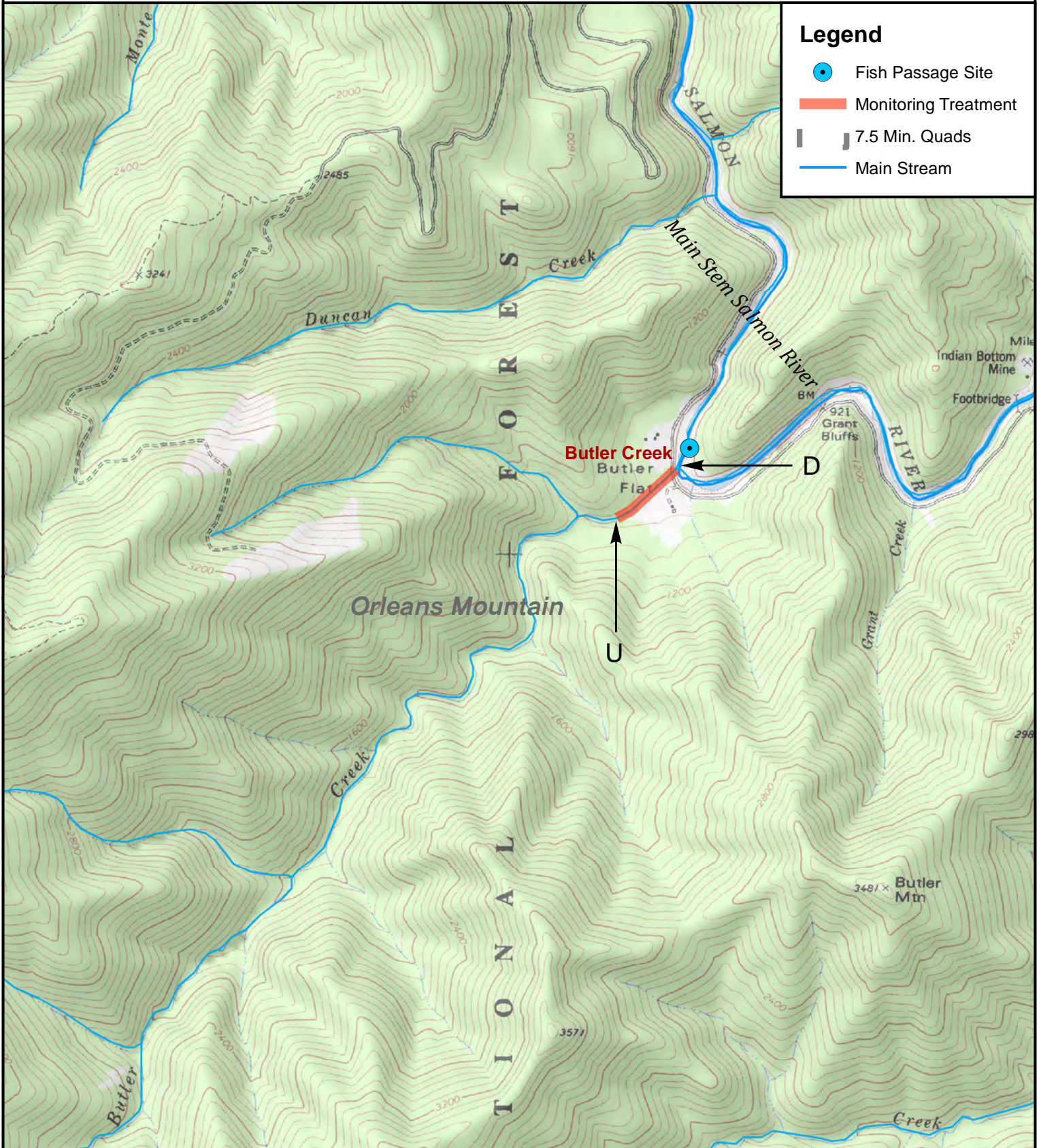
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 7 of 37

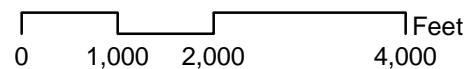


**Applicant:** Salmon River Restoration Council

**Stream name:** Butler Creek

**Quad name:** Orleans Mountain

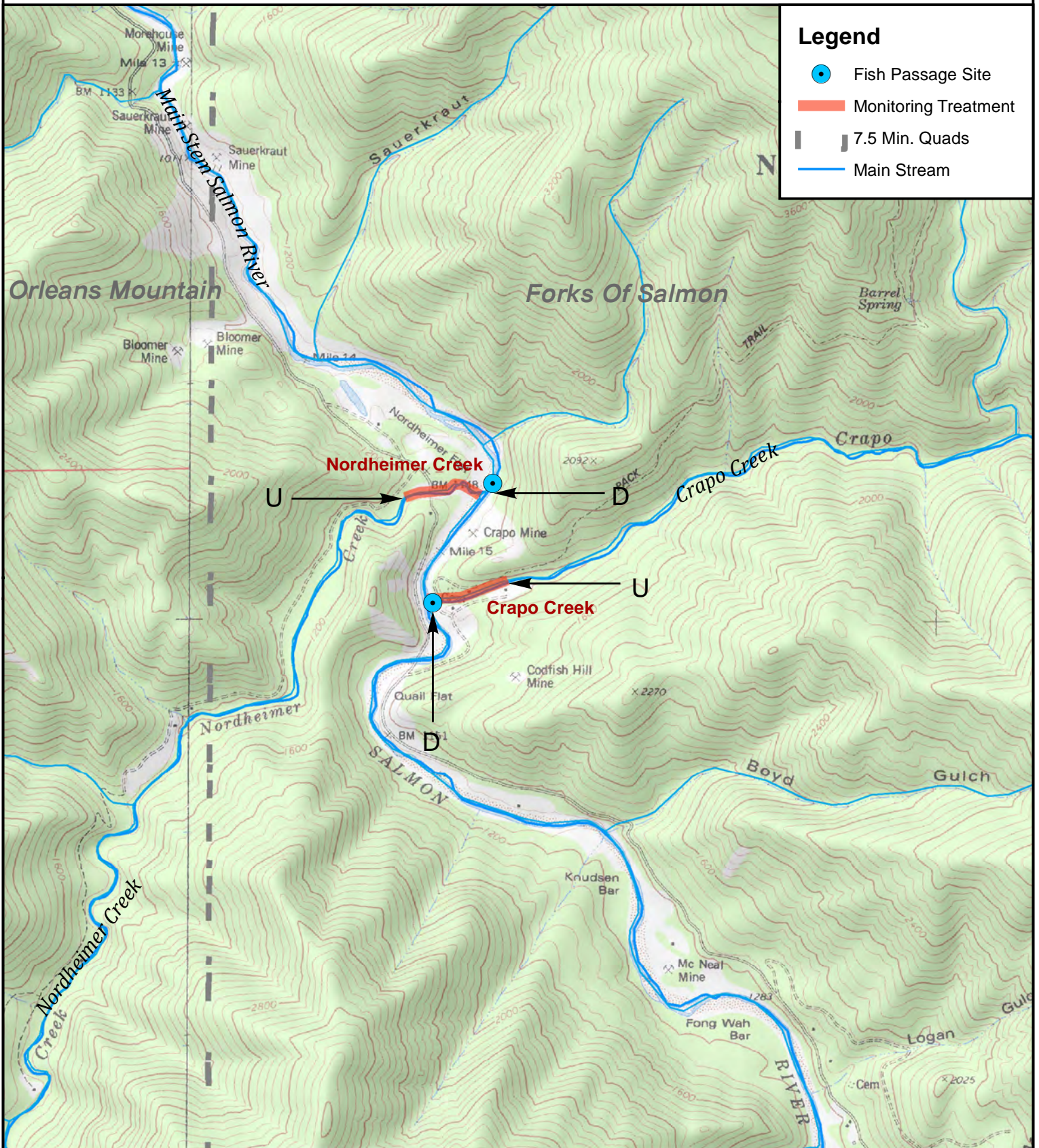
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 8 of 37

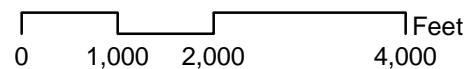


**Applicant:** Salmon River Restoration Council

**Stream name:** Nordheimer Creek, Crapo Creek

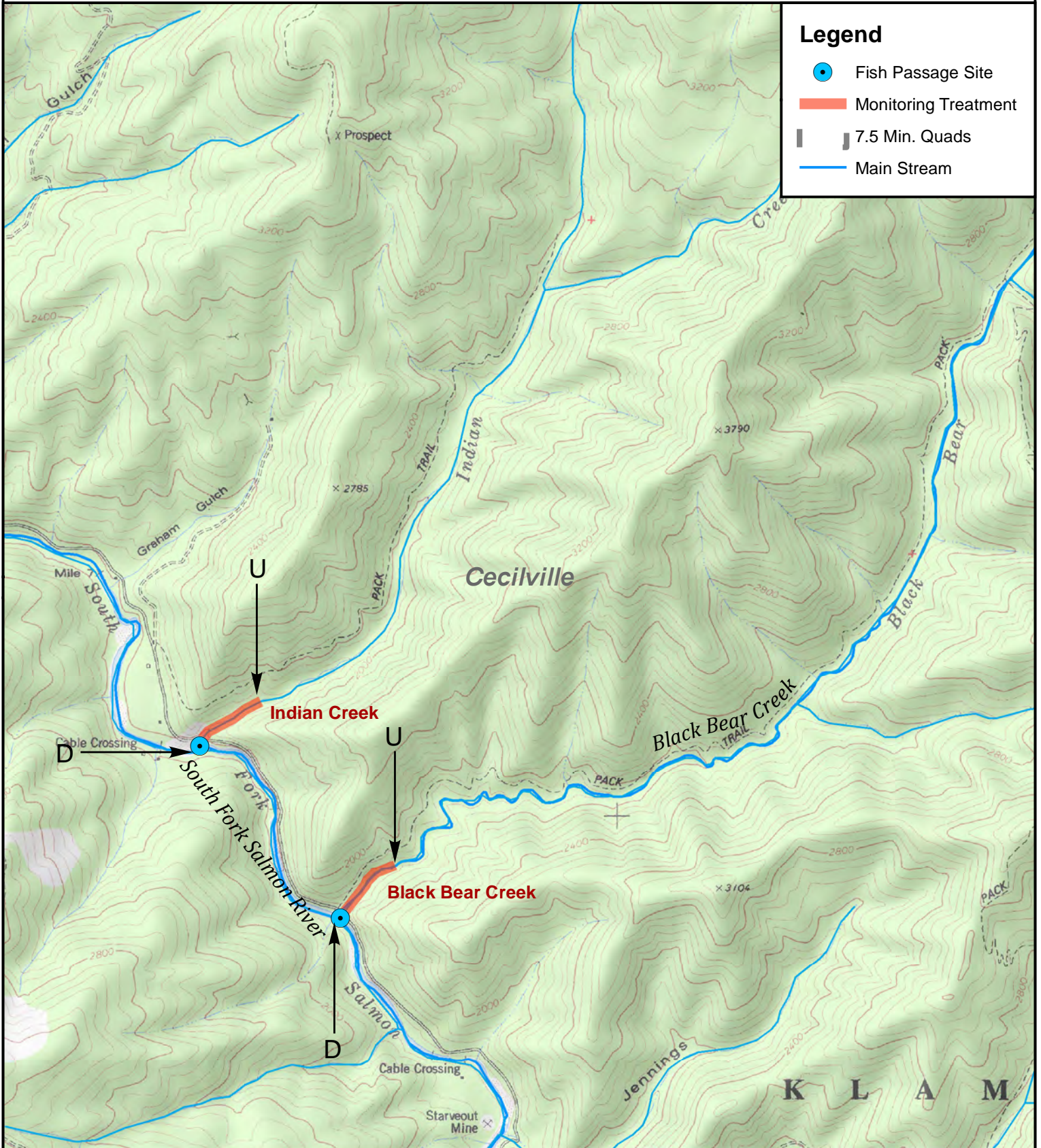
**Quad name:** Forks of Salmon

1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project Location Topographic Map Number 9 of 37

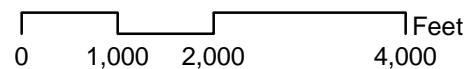


**Applicant:** Salmon River Restoration Council

**Stream name:** Indian Creek, Black Bear Creek

**Quad name:** Cecilville

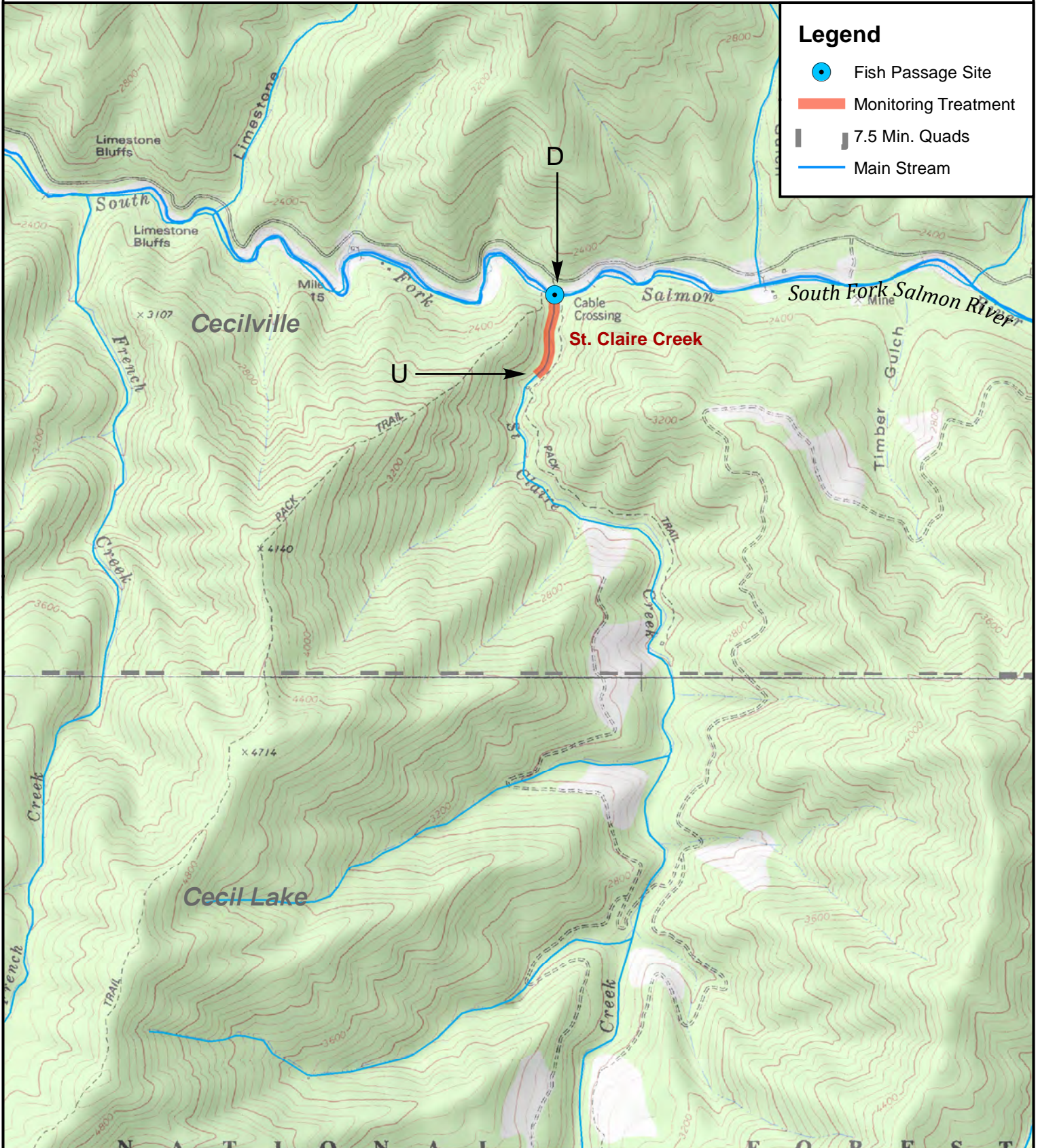
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 10 of 37

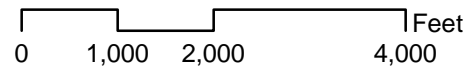


**Applicant:** Salmon River Restoration Council

**Stream name:** St. Claire Creek

**Quad name:** Cecilville

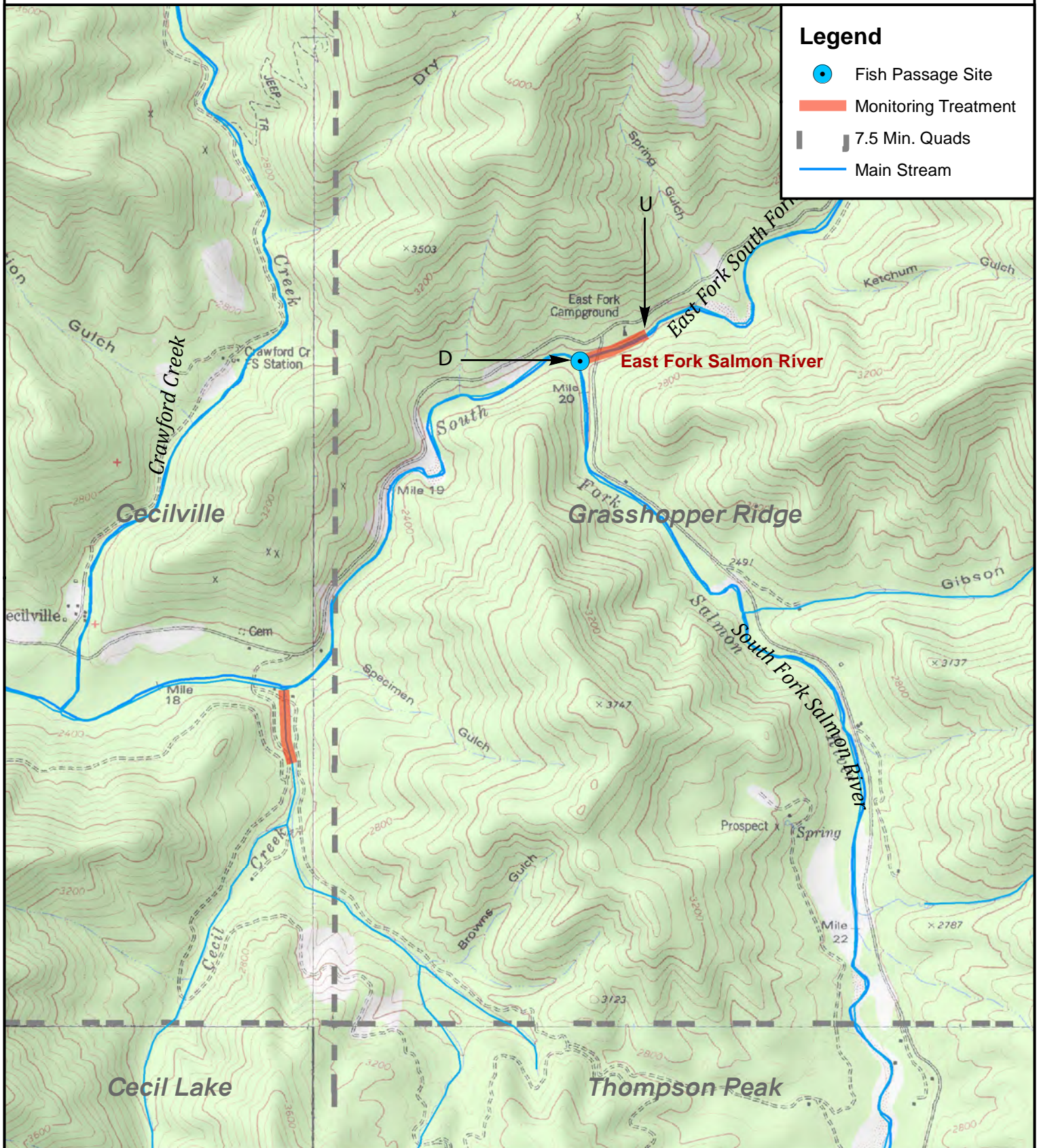
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 11 of 37

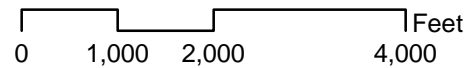


**Legend**

- Fish Passage Site
- ▬ Monitoring Treatment
- 7.5 Min. Quads
- ▬ Main Stream

**Applicant:** Salmon River Restoration Council  
**Stream name:** East Fork Salmon River  
**Quad name:** Grasshopper Ridge

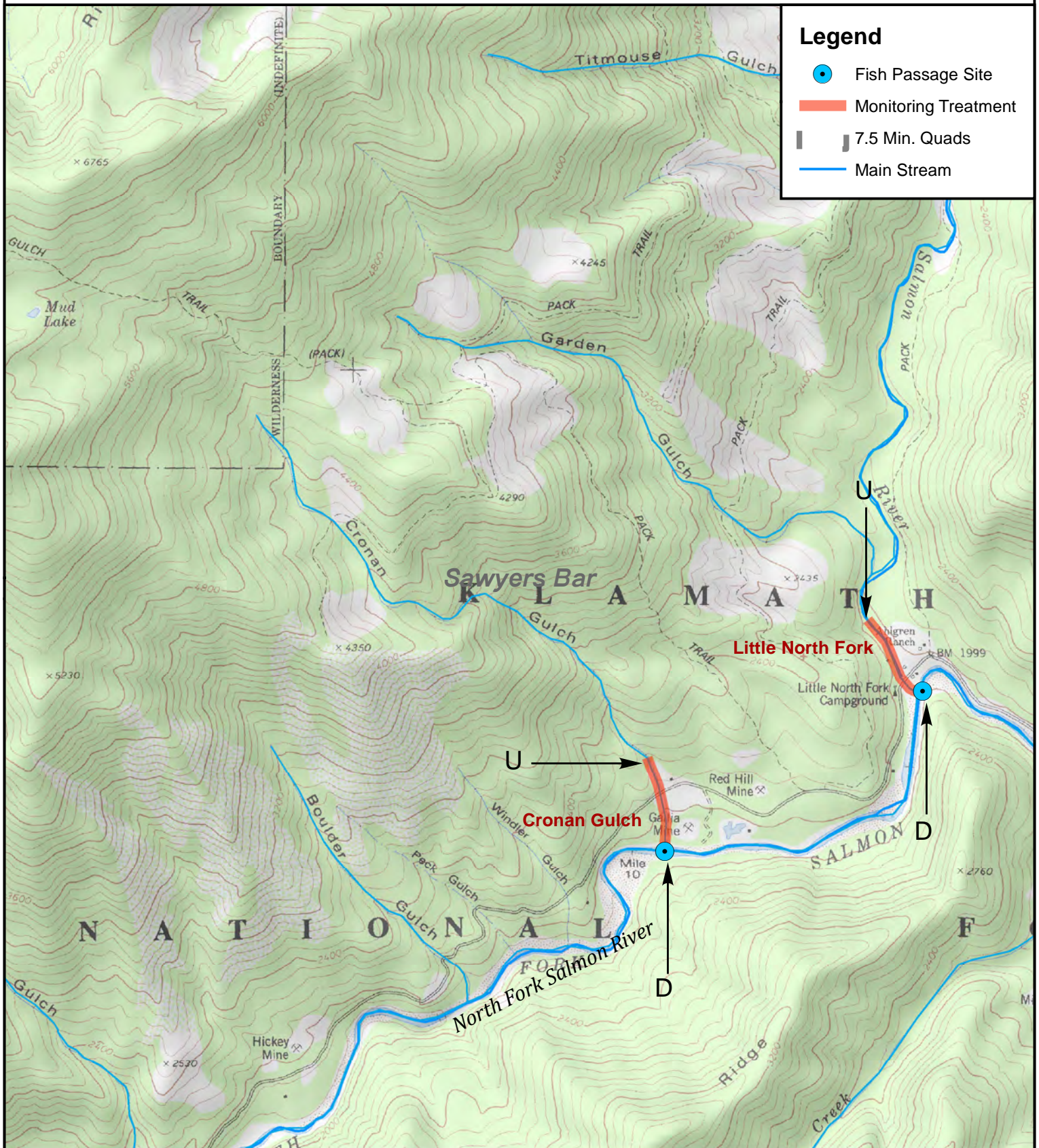
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 12 of 37

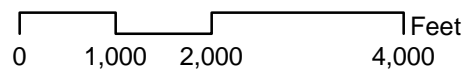


**Applicant:** Salmon River Restoration Council

**Stream name:** Cronan Gulch, Little North Fork

**Quad name:** Sawyers Bar

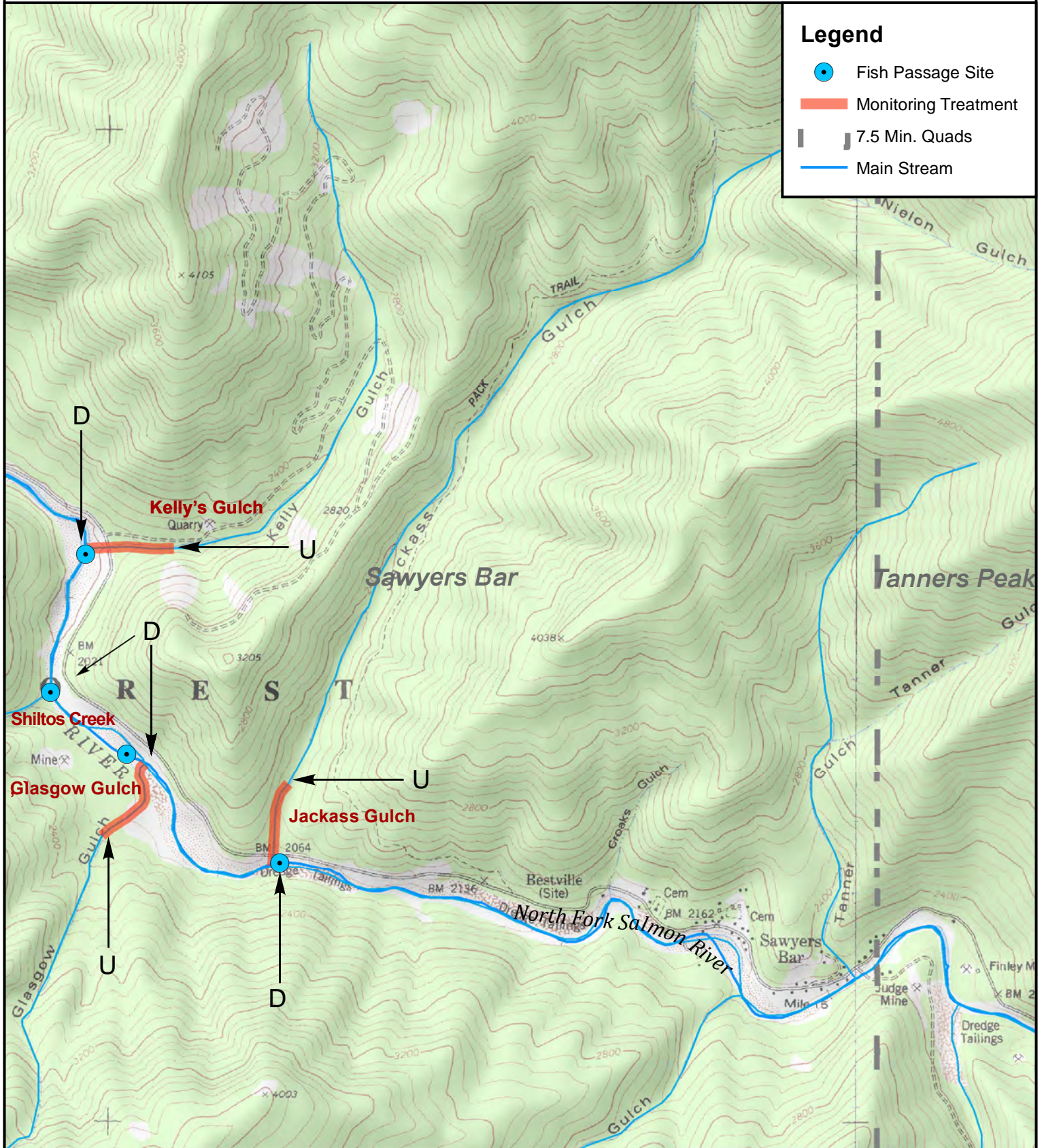
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 13 of 37

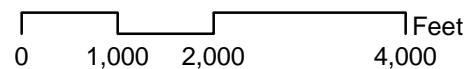


**Applicant:** Salmon River Restoration Council

**Stream name:** Kelly Gulch, , Shiltos Creek,  
Glasgow Gulch, Jackass Gulch

**Quad name:** Sawyers Bar

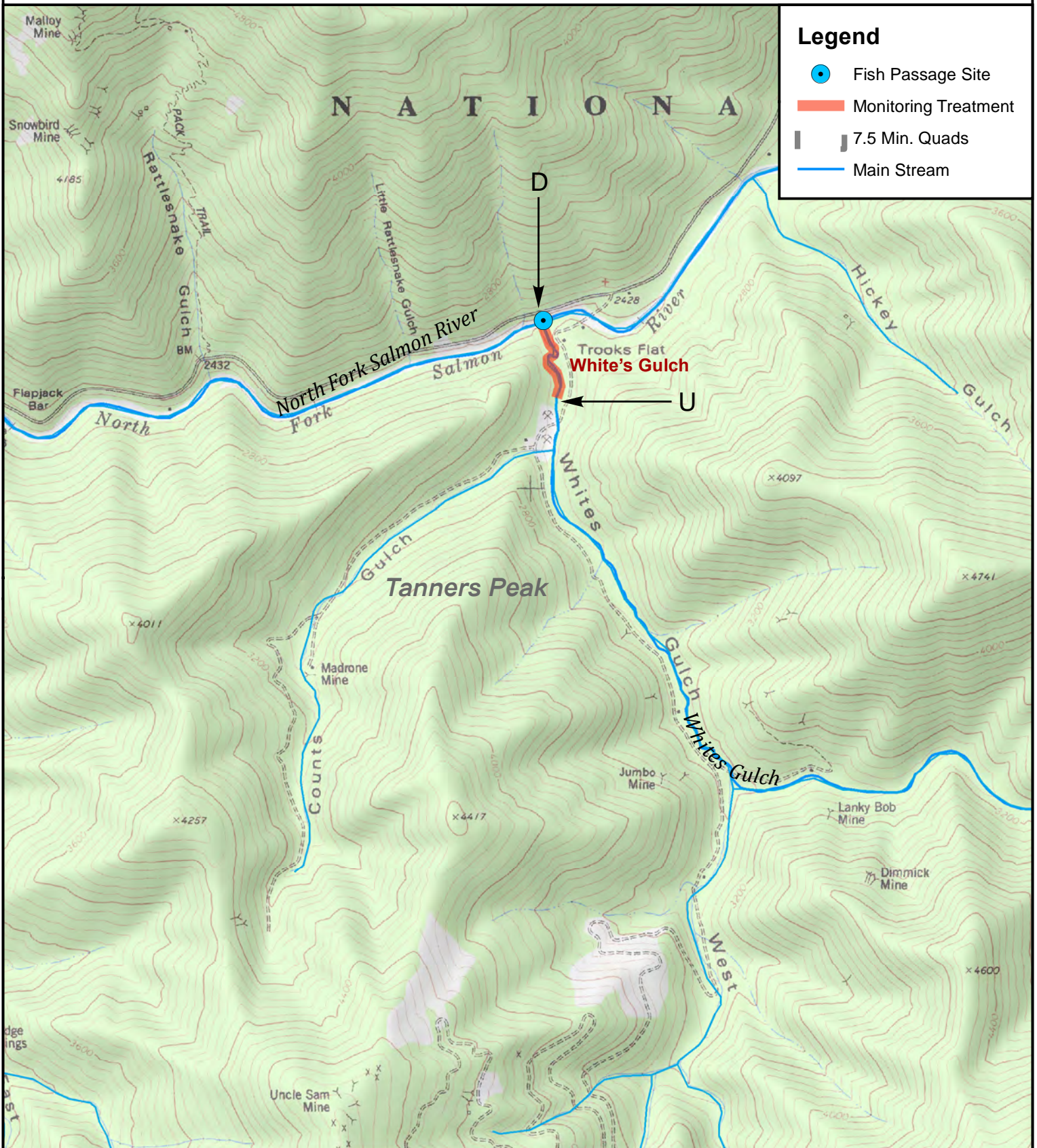
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 14 of 37

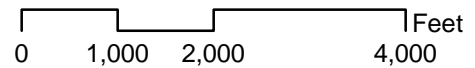


**Applicant:** Salmon River Restoration Council

**Stream name:** Whites Gulch

**Quad name:** Tanners Peak

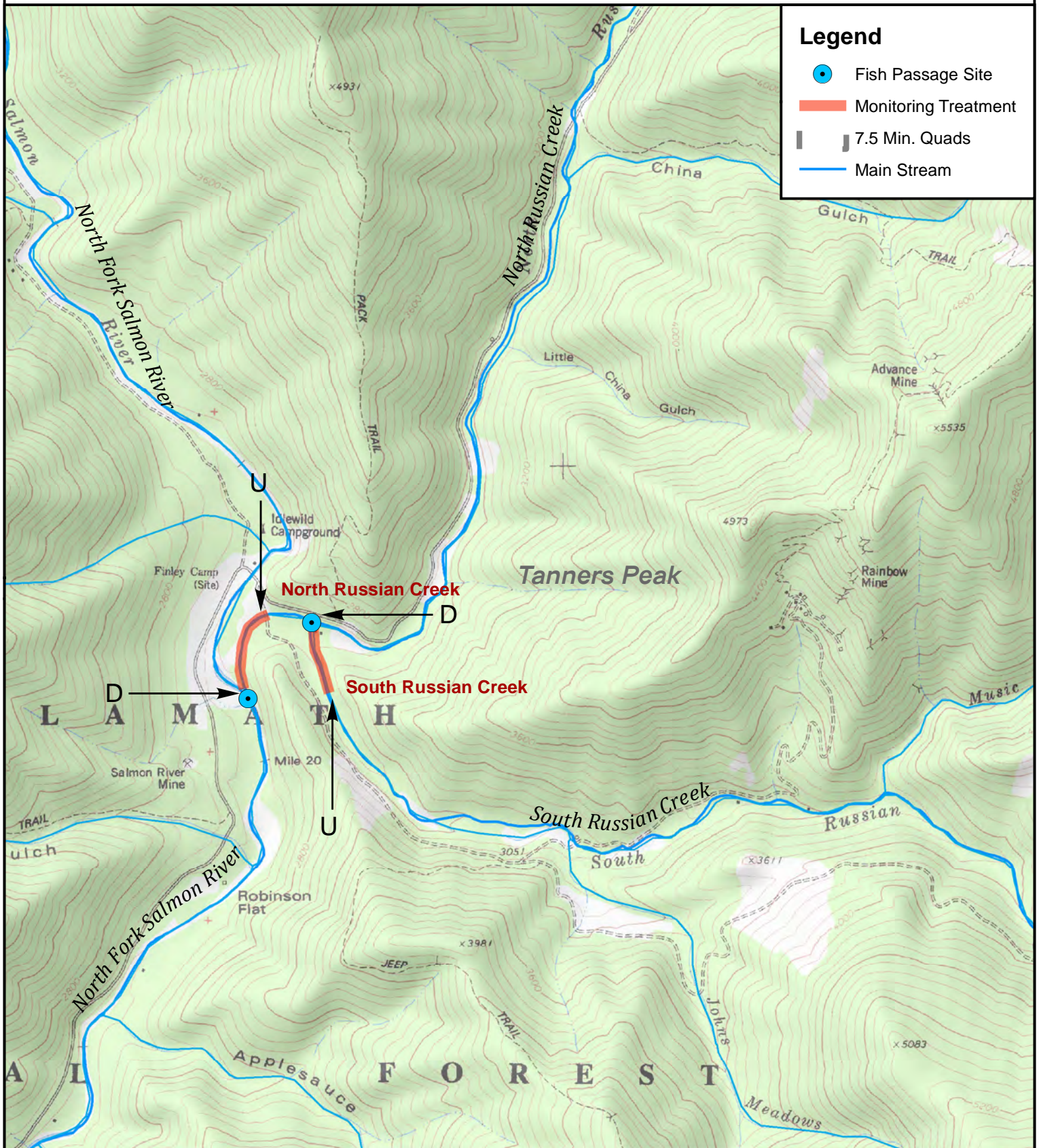
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 15 of 37

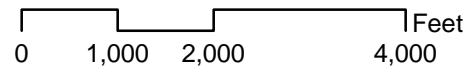


**Legend**

- Fish Passage Site
- Monitoring Treatment
- 7.5 Min. Quads
- Main Stream

**Applicant:** Salmon River Restoration Council  
**Stream name:** South Russian Cr., North Russian Cr.  
**Quad name:** Tanners Peak

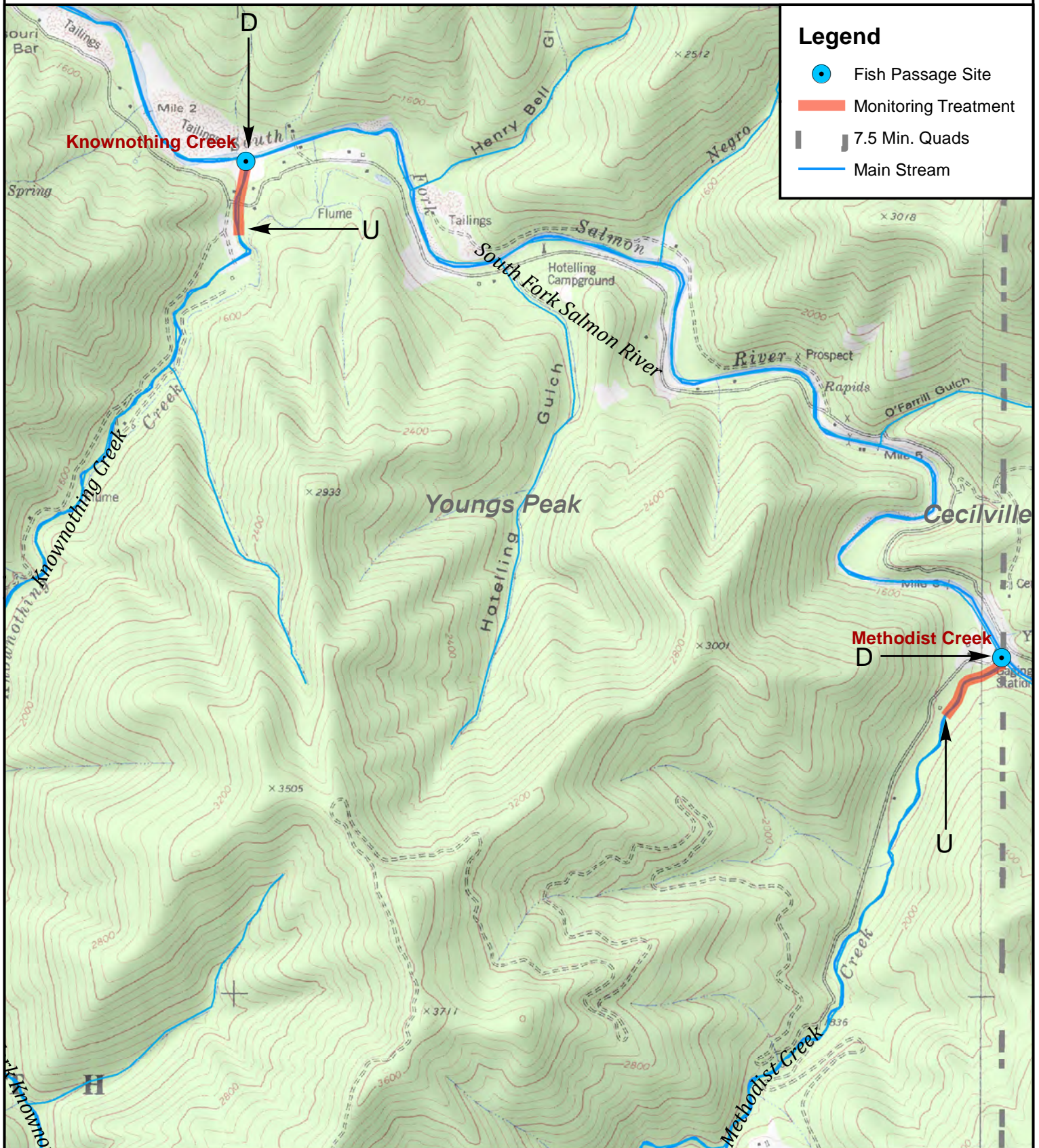
1 inch = 2,000 feet





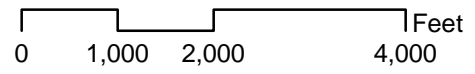
# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 16 of 37



**Applicant:** Salmon River Restoration Council  
**Stream name:** Knownothing Creek, Methodist Creek  
**Quad name:** Youngs Peak, Cecilville

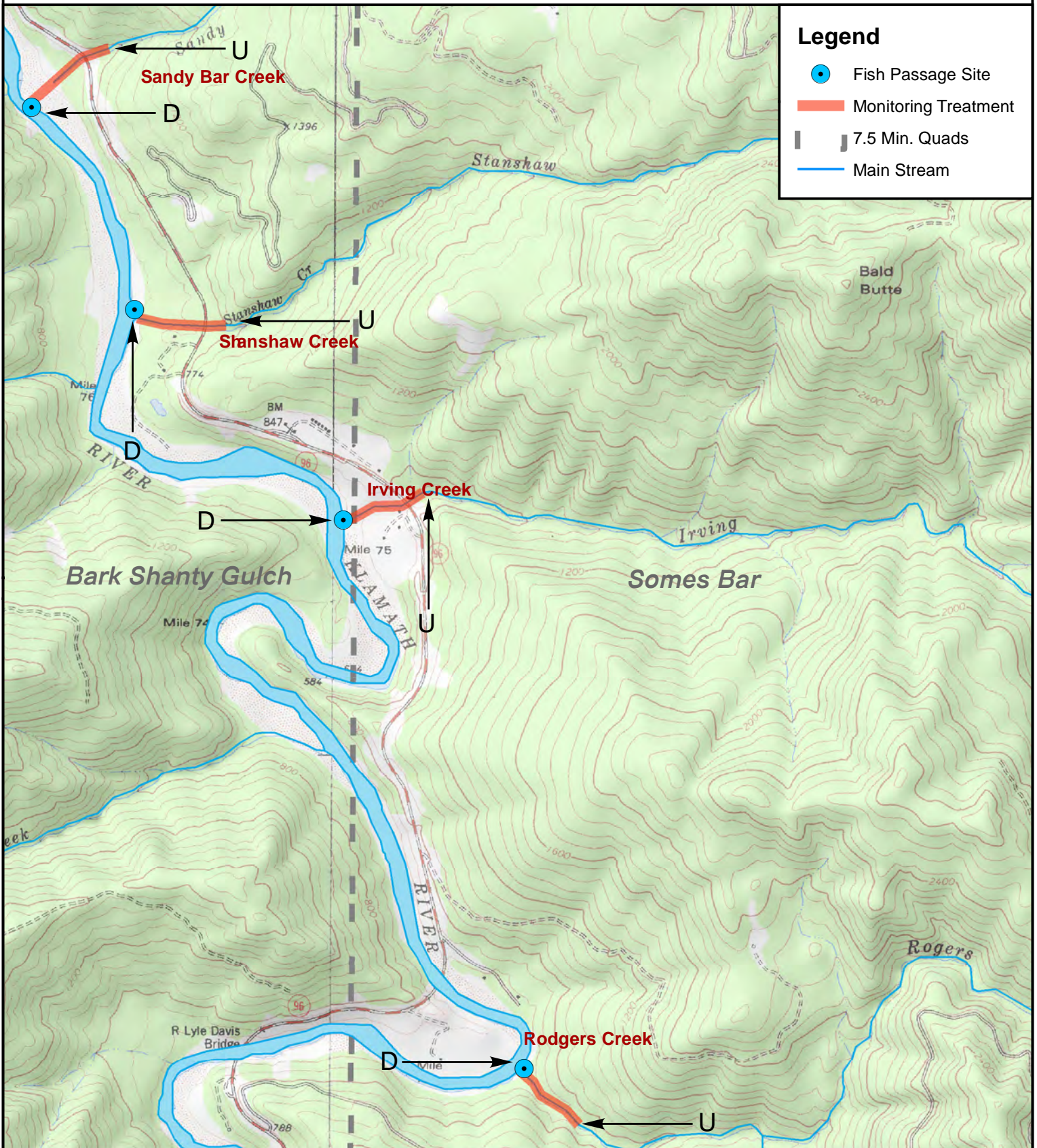
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 17 of 37

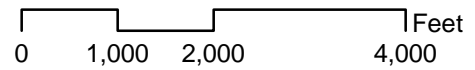


**Legend**

- Fish Passage Site
- Monitoring Treatment
- 7.5 Min. Quads
- Main Stream

**Applicant:** Salmon River Restoration Council  
**Stream name:** Sandy Bar Cr., Stanshaw Cr., Irving Cr., Rogers Creek  
**Quad name:** Bark Shanty Gulch, Some's Bar

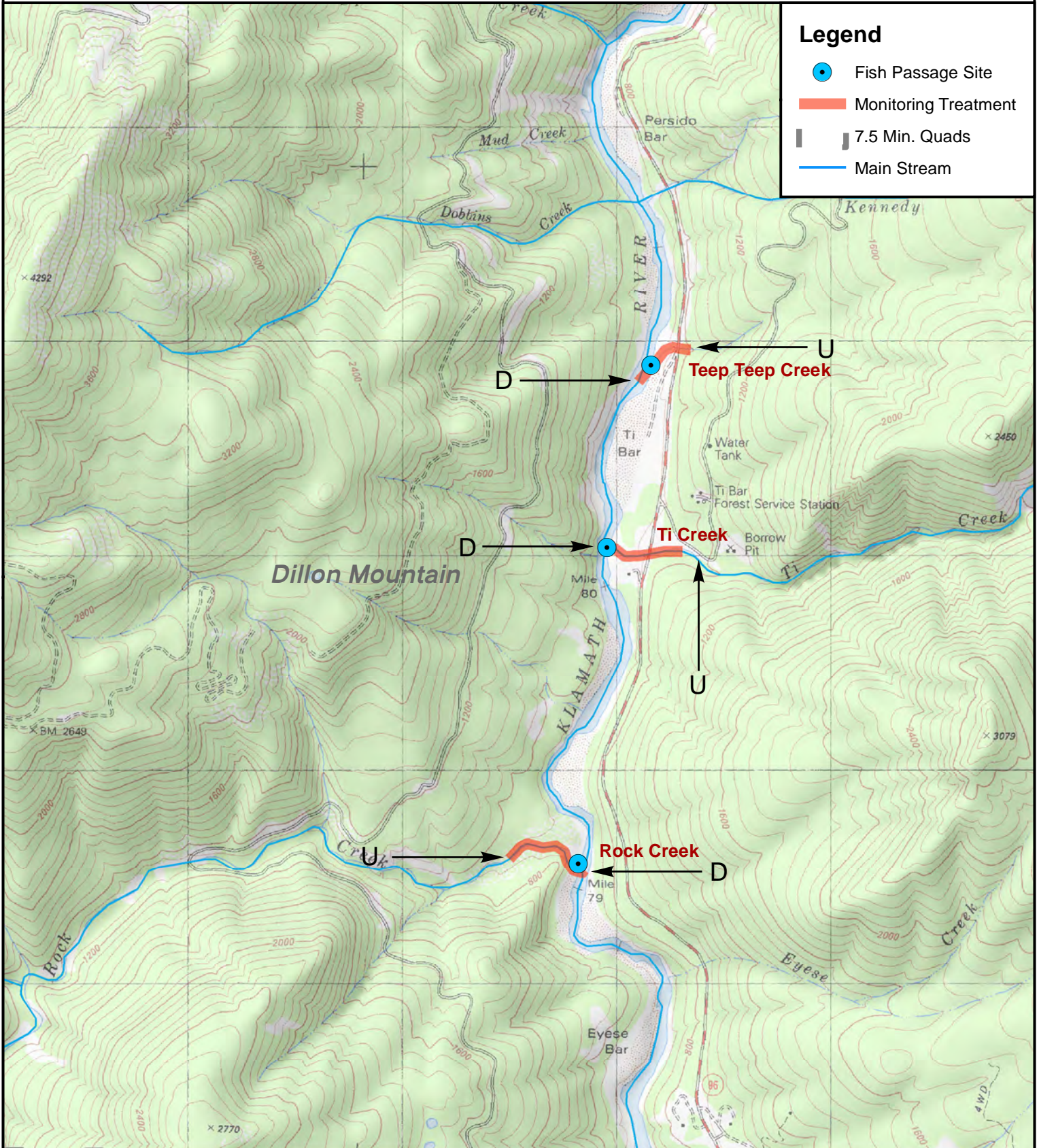
1 inch = 2,000 feet





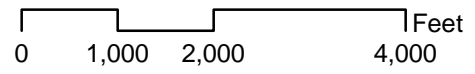
# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 18 of 37



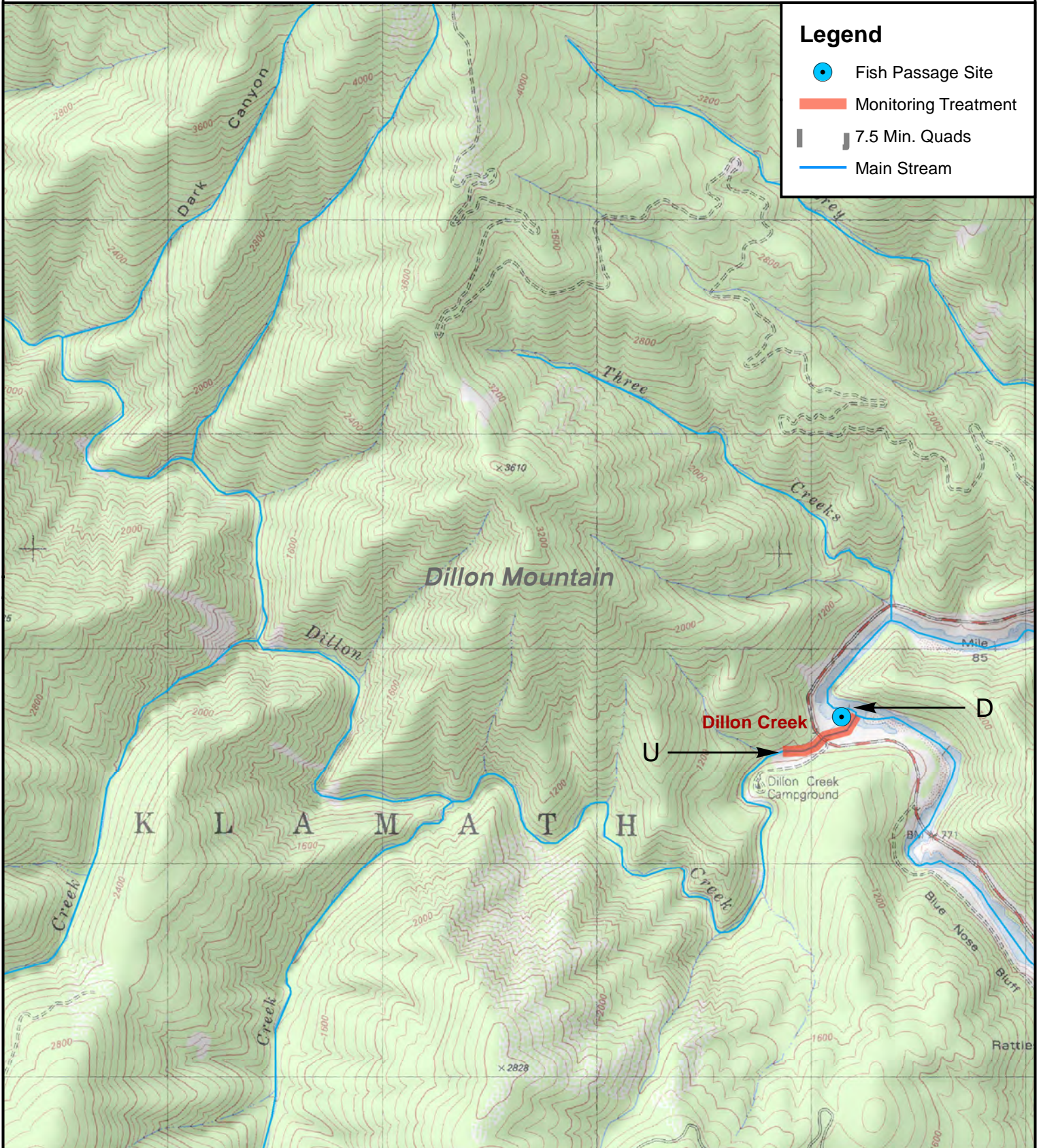
**Applicant:** Salmon River Restoration Council  
**Stream name:** Teep Teep Creek, Ti Creek, Rock Creek  
**Quad name:** Dillon Mountain

1 inch = 2,000 feet









# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project Location Topographic Map Number 19 of 37



## Legend

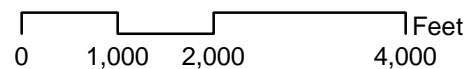
-  Fish Passage Site
-  Monitoring Treatment
-  7.5 Min. Quads
-  Main Stream

**Applicant:** Salmon River Restoration Council

**Stream name:** Dillon Creek

**Quad name:** Dillon Mountain

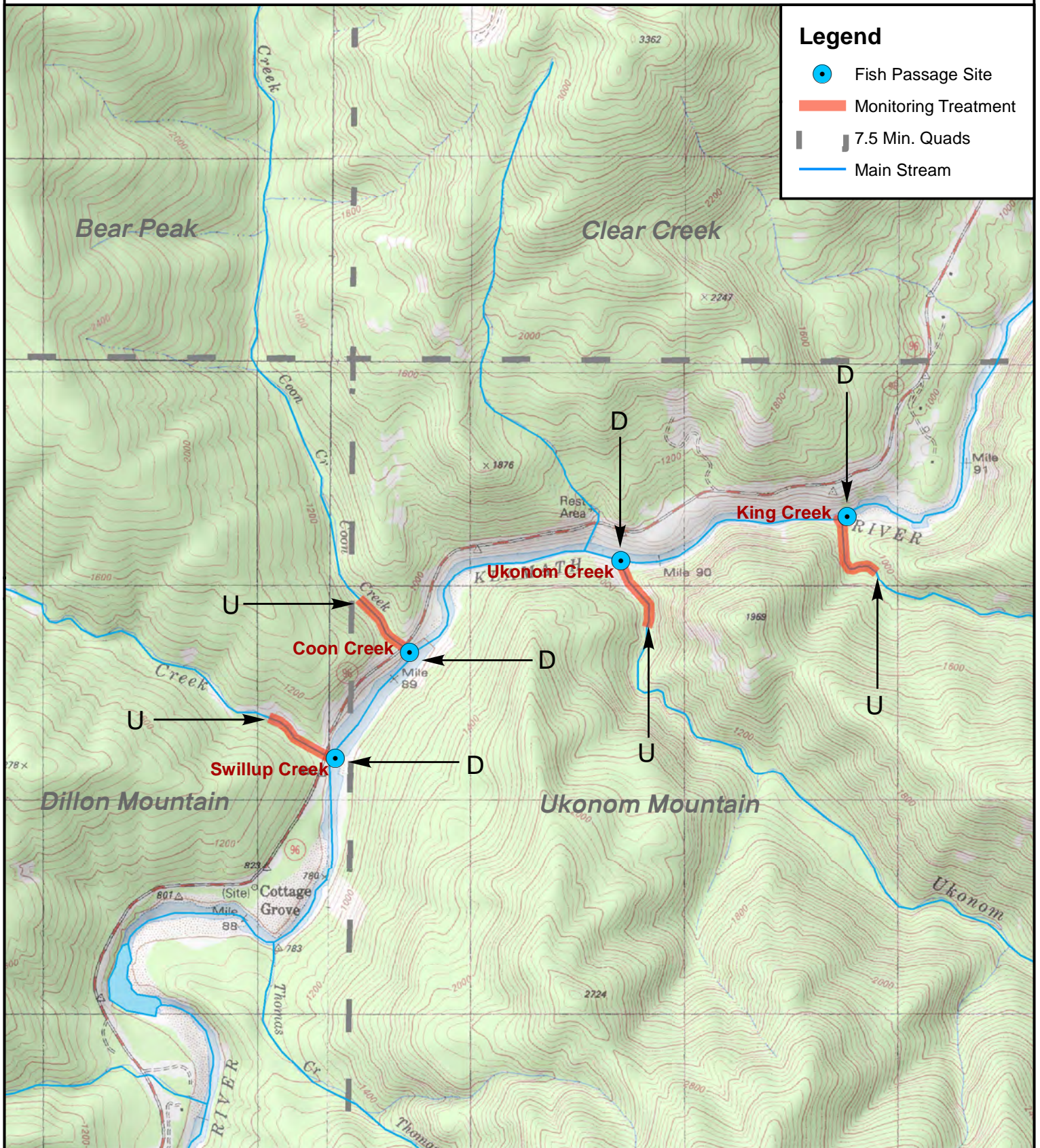
1 inch = 2,000 feet





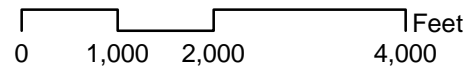
# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 20 of 37



**Applicant:** Salmon River Restoration Council  
**Stream name:** King Cr., Ukonom Cr., Coon Cr., Swillup Cr.  
**Quad name:** Dillon Mountain, Ukonom Mountain

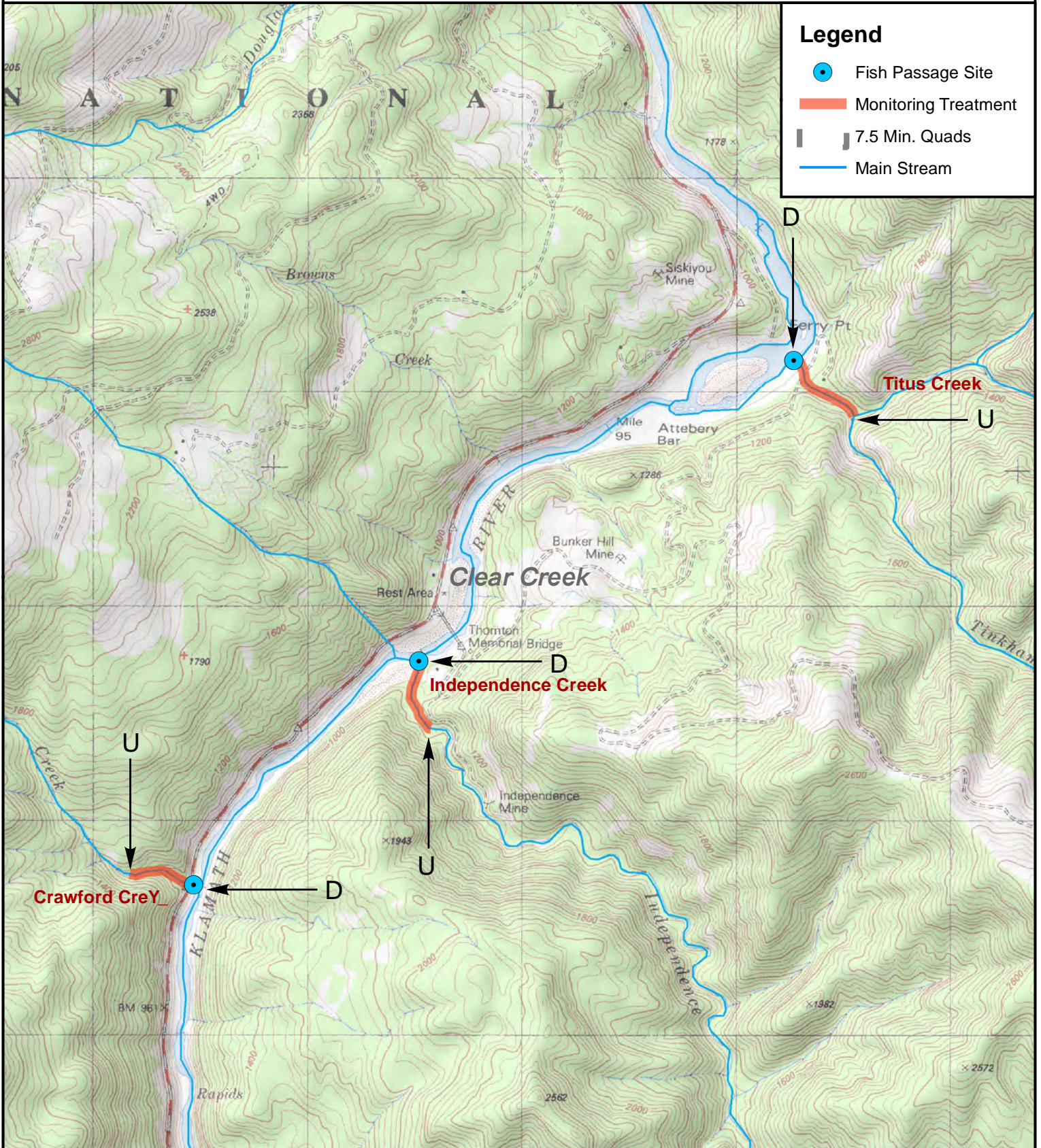
1 inch = 2,000 feet





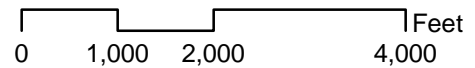
# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 21 of 37



**Applicant:** Salmon River Restoration Council  
**Stream name:** Titus Cr., Independence Cr., Crawford Cr.  
**Quad name:** Clear Creek

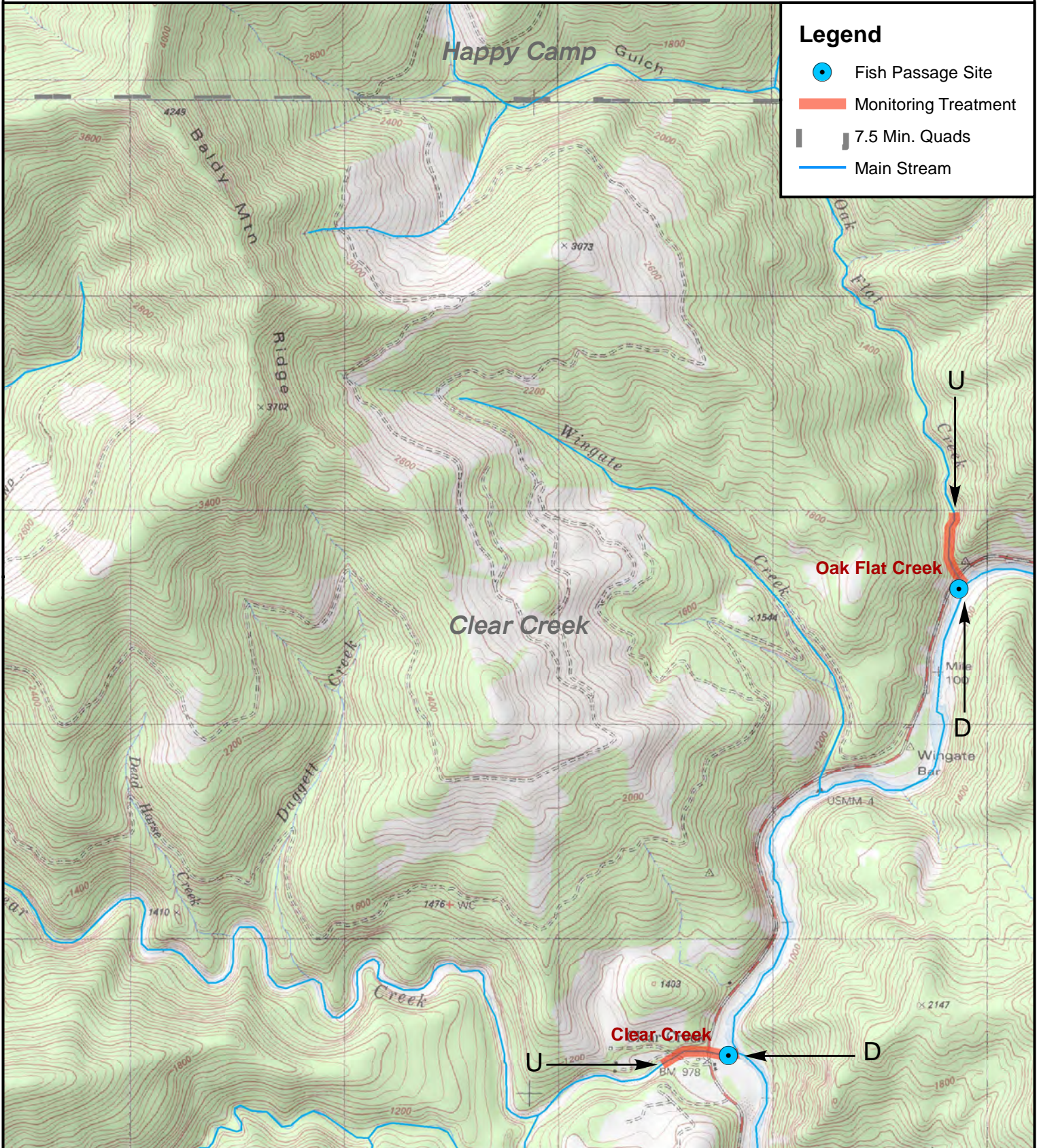
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 22 of 37

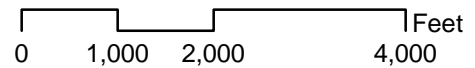


**Applicant:** Salmon River Restoration Council

**Stream name:** Oak Flat Creek, Clear Creek

**Quad name:** Clear Creek

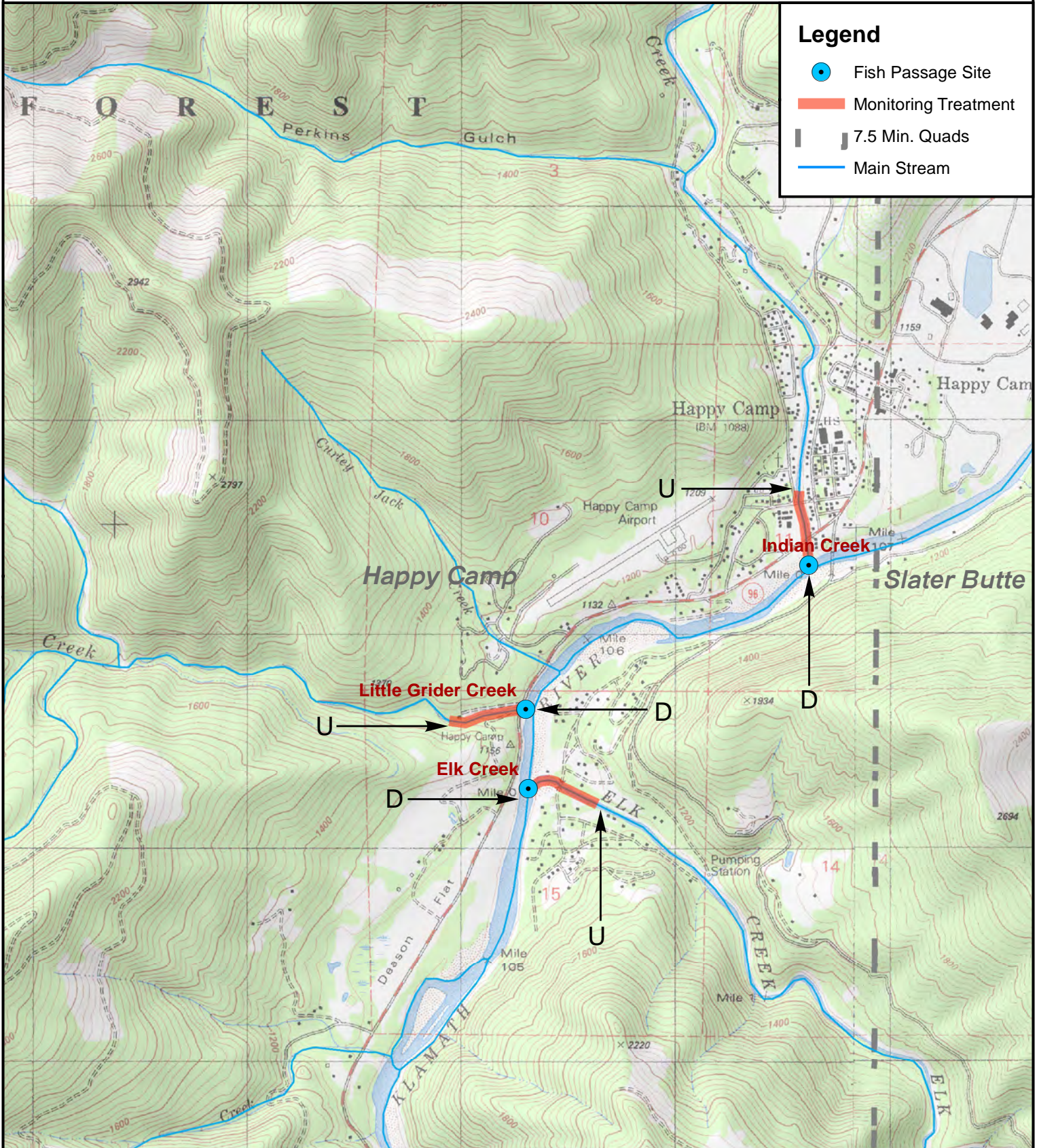
1 inch = 2,000 feet





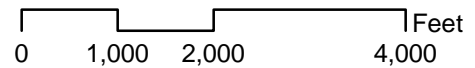
# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 23 of 37



**Applicant:** Salmon River Restoration Council  
**Stream name:** Indian Creek, Little Grider Cr., Elk Creek  
**Quad name:** Happy Camp

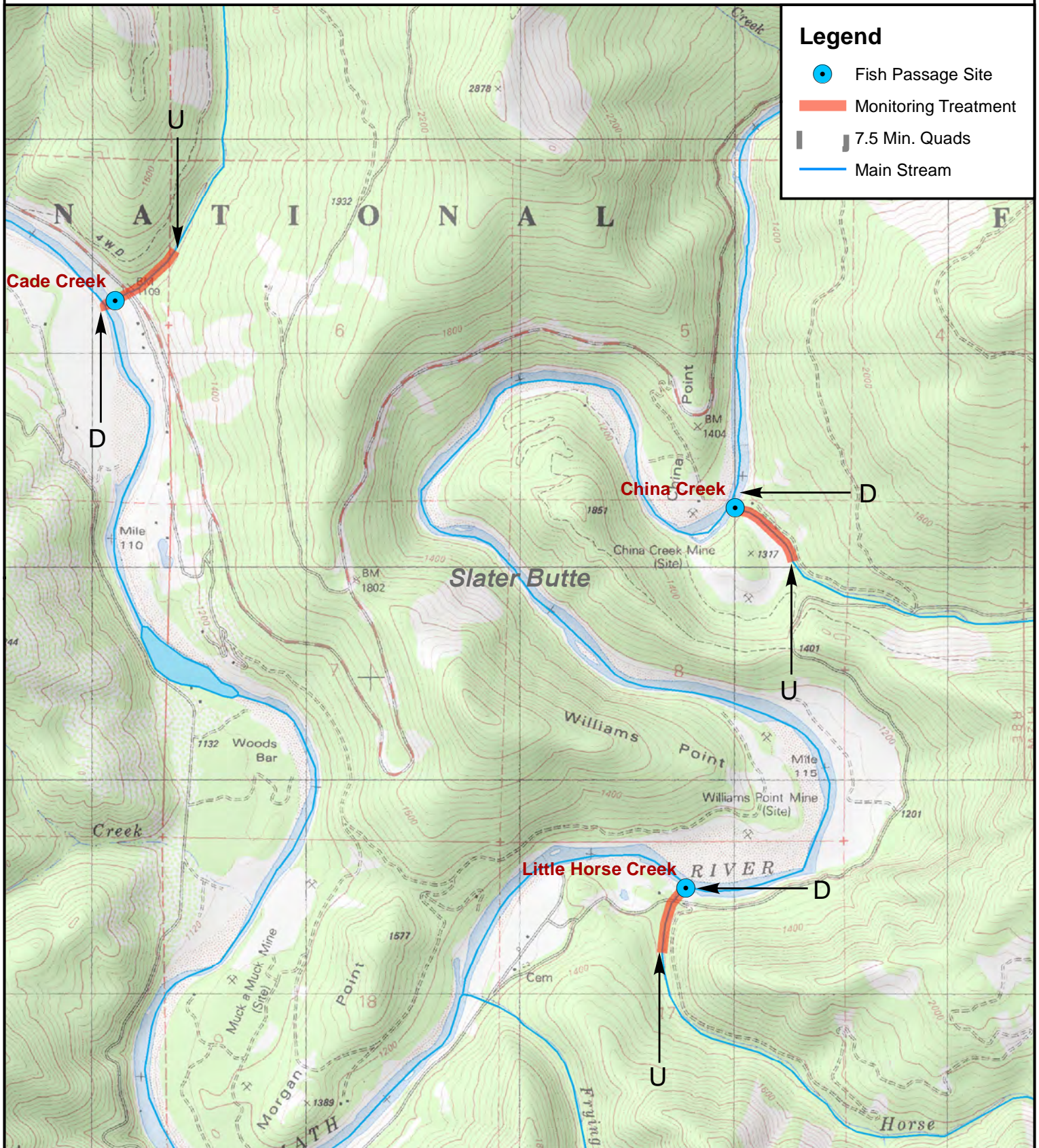
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

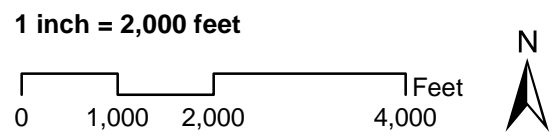
## Location Topographic Map Number 24 of 37



**Legend**

- Fish Passage Site
- Monitoring Treatment
- 7.5 Min. Quads
- Main Stream

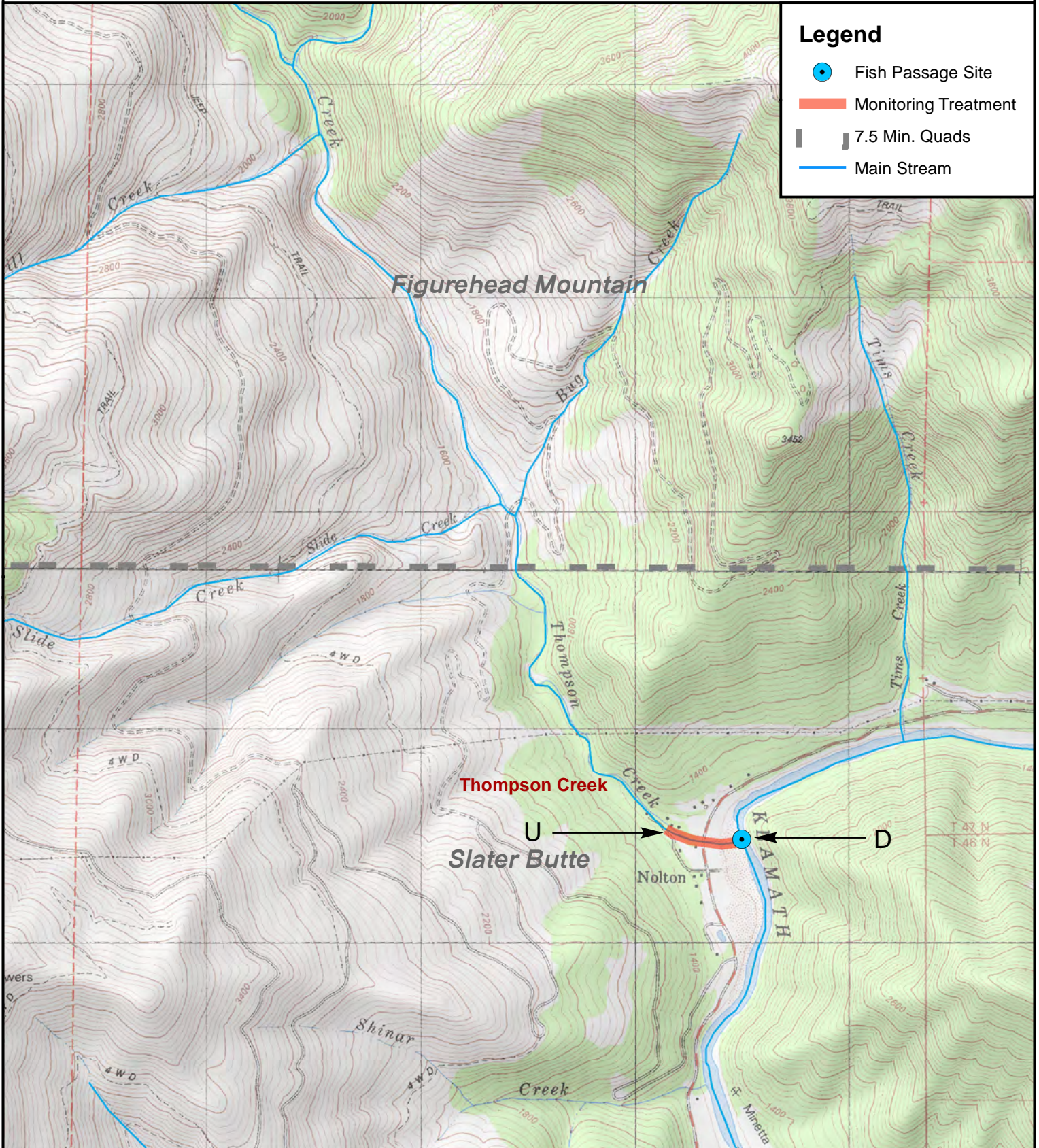
**Applicant:** Salmon River Restoration Council  
**Stream name:** Cade Creek, China Creek, Little Horse Creek  
**Quad name:** Slater Butte





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 25 of 37

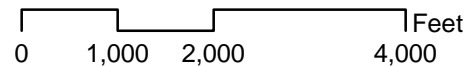


**Applicant:** Salmon River Restoration Council

**Stream name:** Thompson Creek

**Quad name:** Slater Butte

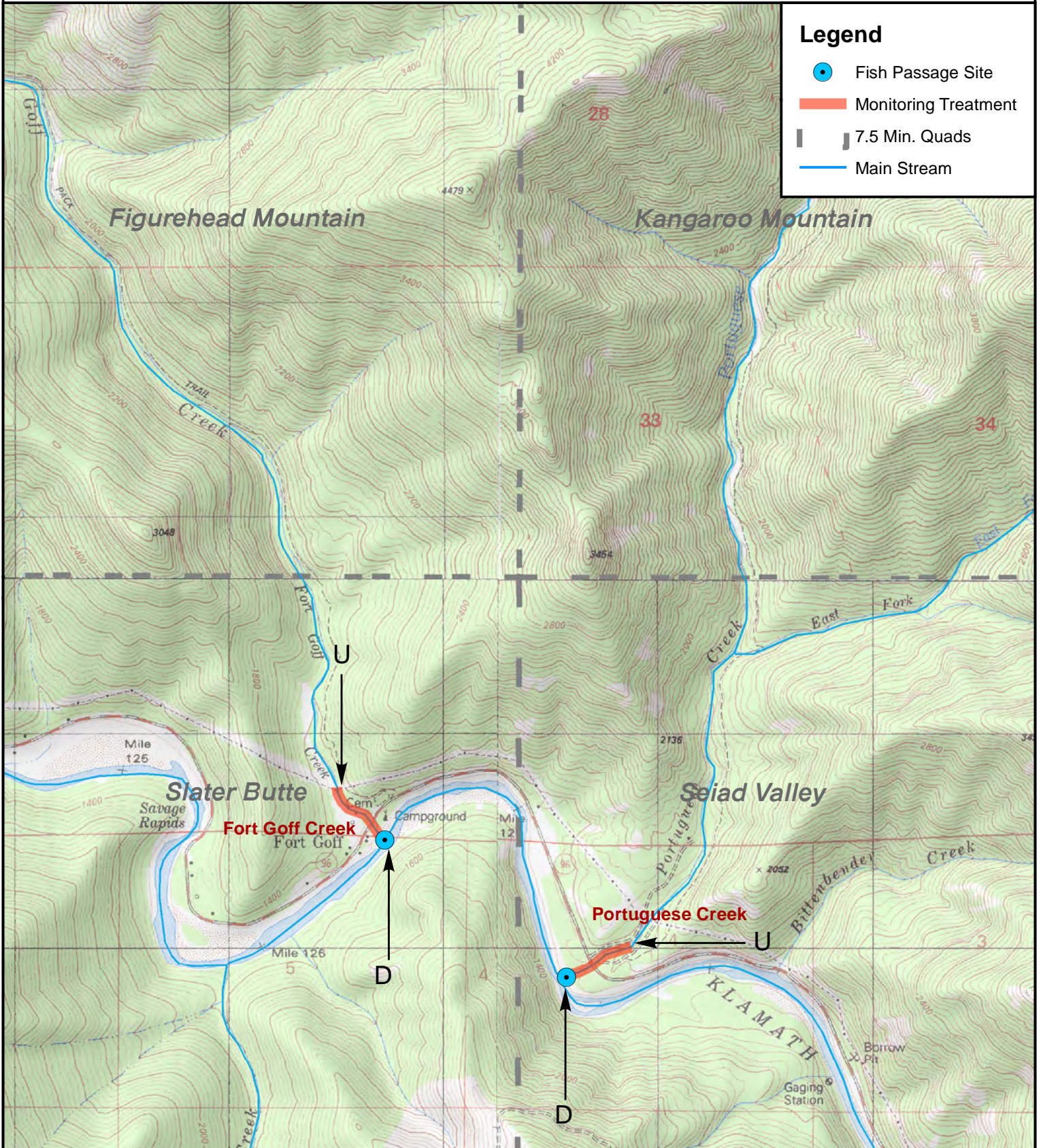
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 26 of 37

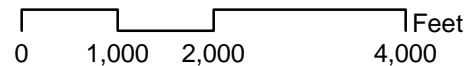


**Applicant:** Salmon River Restoration Council

**Stream name:** Fort Goff Creek, Portuguese Creek

**Quad name:** Slater Butte, Seiad Valley

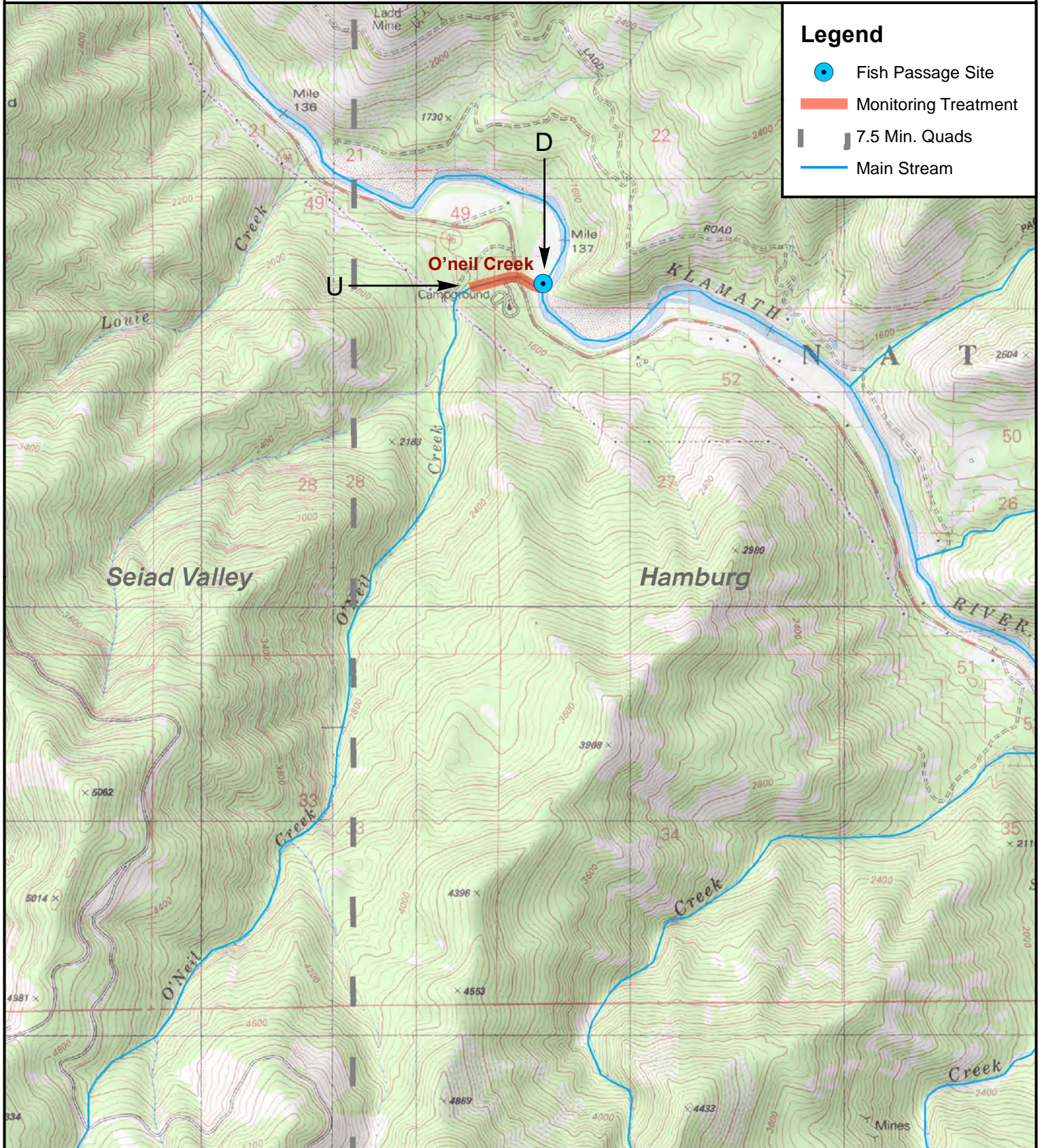
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 27 of 37



**Legend**

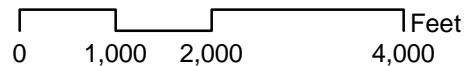
- Fish Passage Site
- Monitoring Treatment
- 7.5 Min. Quads
- Main Stream

**Applicant:** Salmon River Restoration Council

**Stream name:** O'neil Creek

**Quad name:** Hamburg

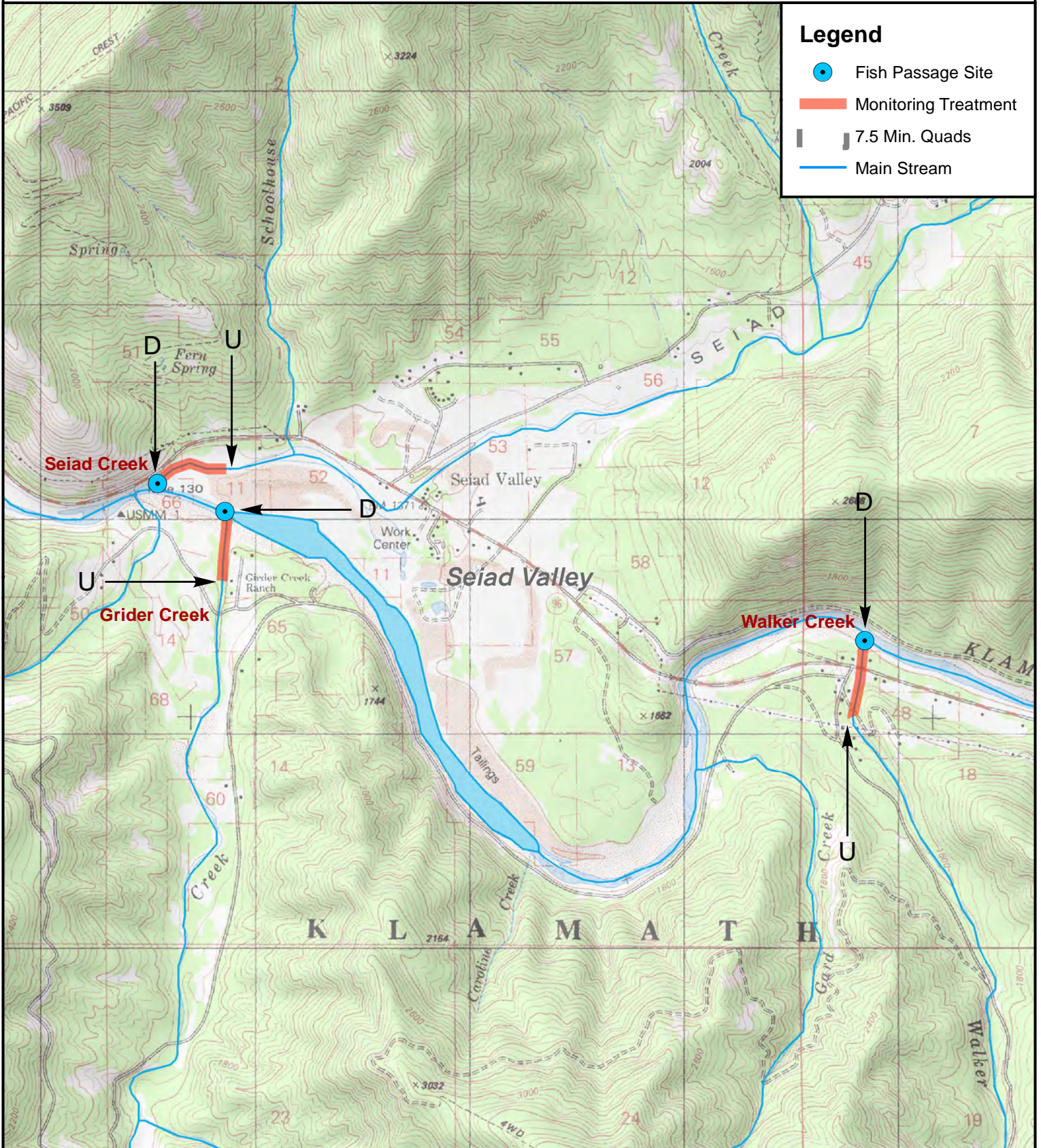
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 28 of 37

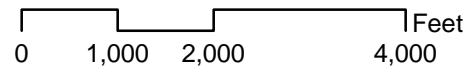


**Legend**

- Fish Passage Site
- Monitoring Treatment
- 7.5 Min. Quads
- Main Stream

**Applicant:** Salmon River Restoration Council  
**Stream name:** Seiad Creek, Grider Creek, Walker Creek  
**Quad name:** Seiad Valley

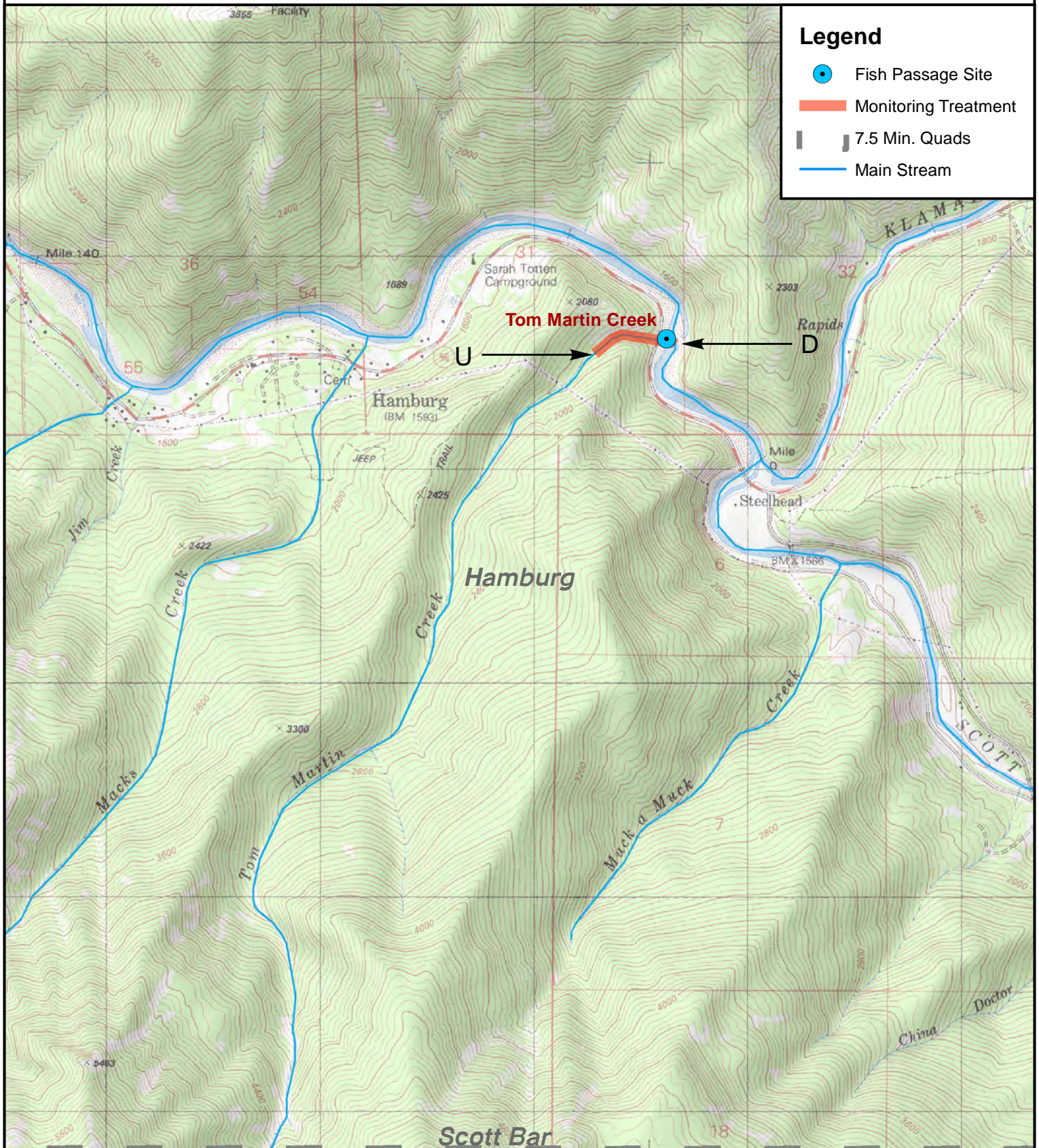
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 29 of 37

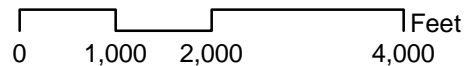


**Applicant:** Salmon River Restoration Council

**Stream name:** Tom Martin Creek

**Quad name:** Hamburg

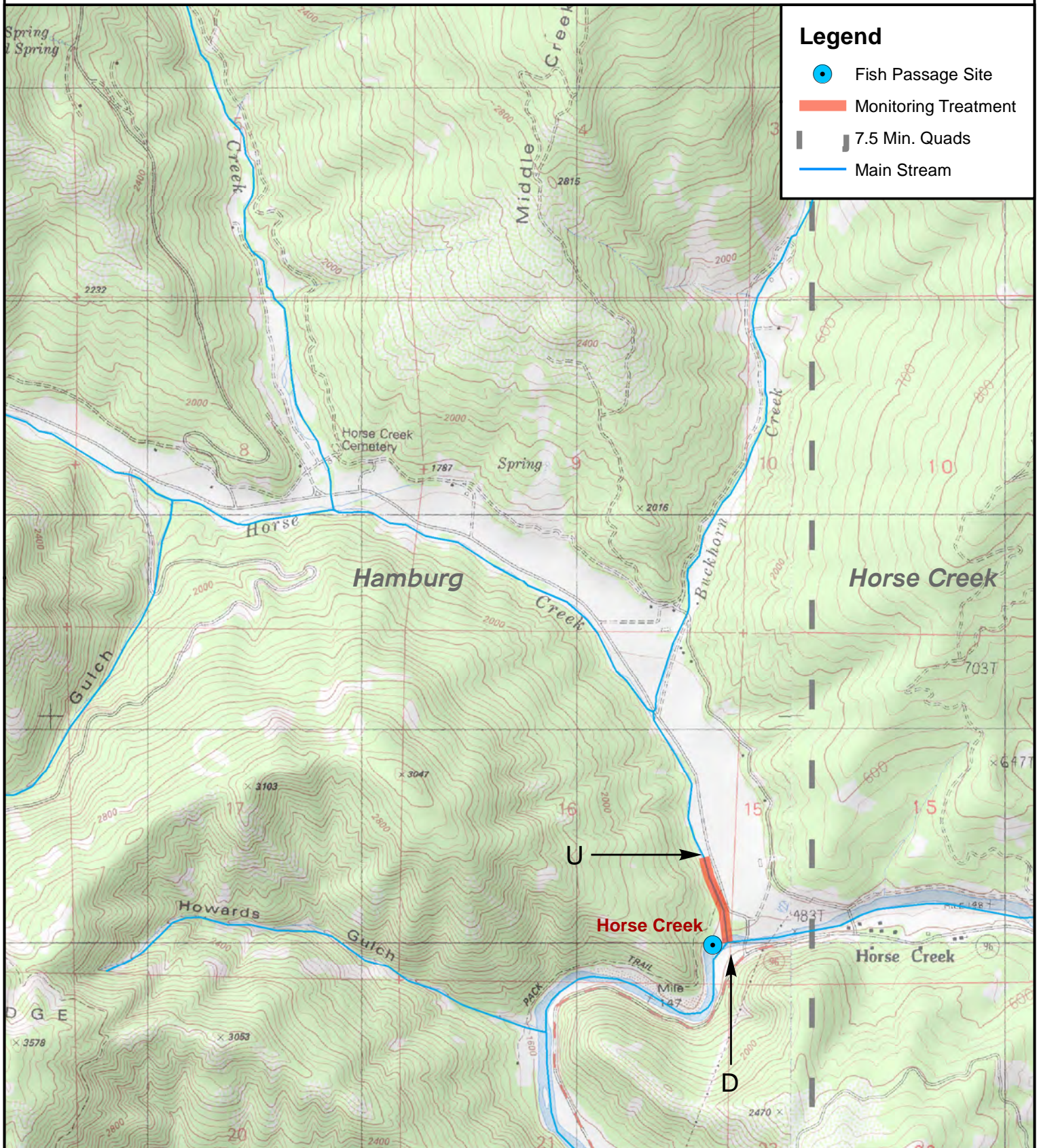
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 30 of 37

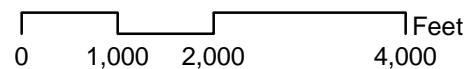


**Applicant:** Salmon River Restoration Council

**Stream name:** Horse Creek

**Quad name:** Hamburg

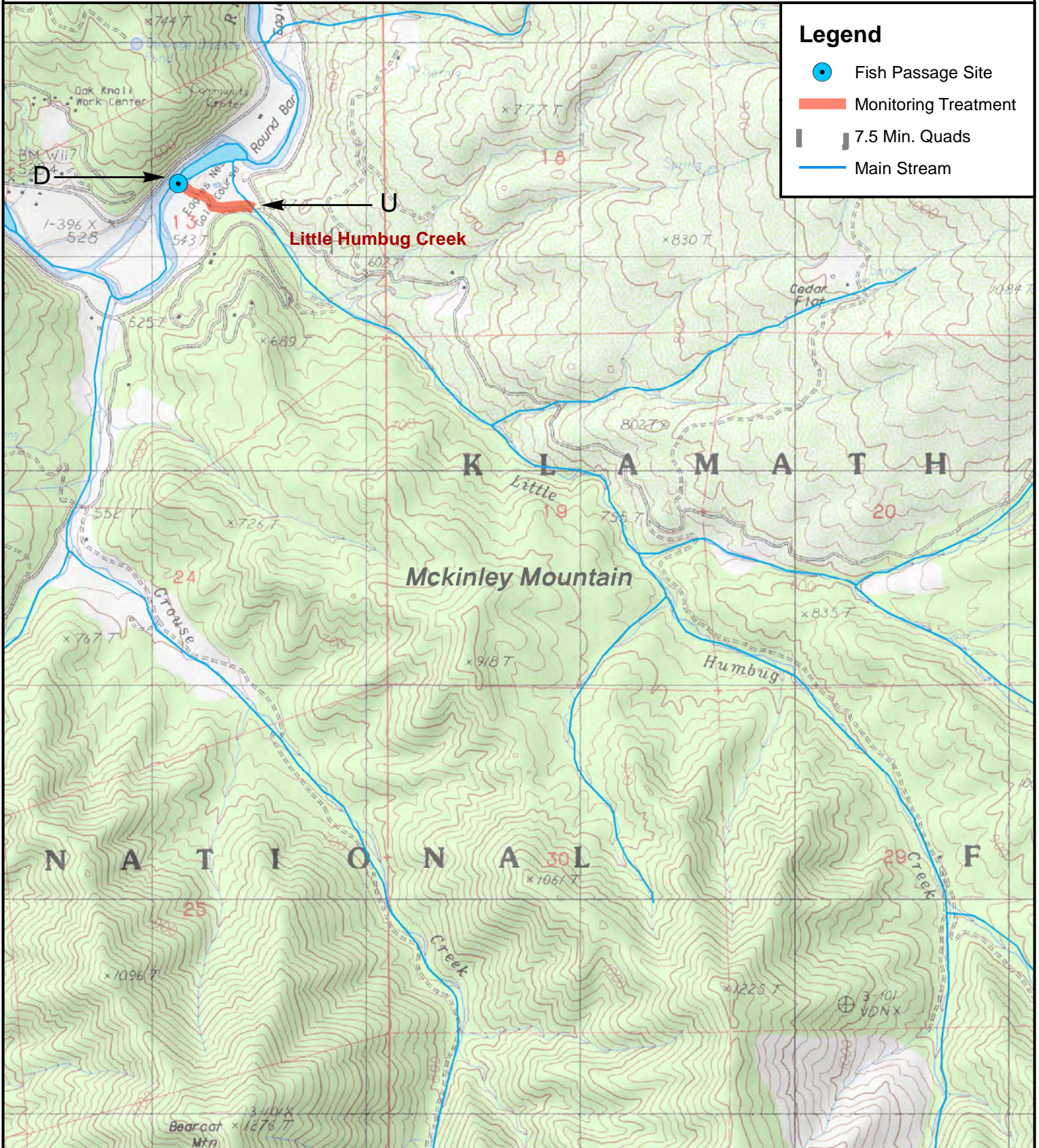
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 31 of 37

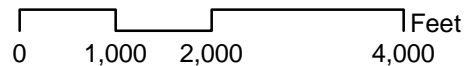


**Applicant:** Salmon River Restoration Council

**Stream name:** Little Humbug Creek

**Quad name:** Mckinley Mountain

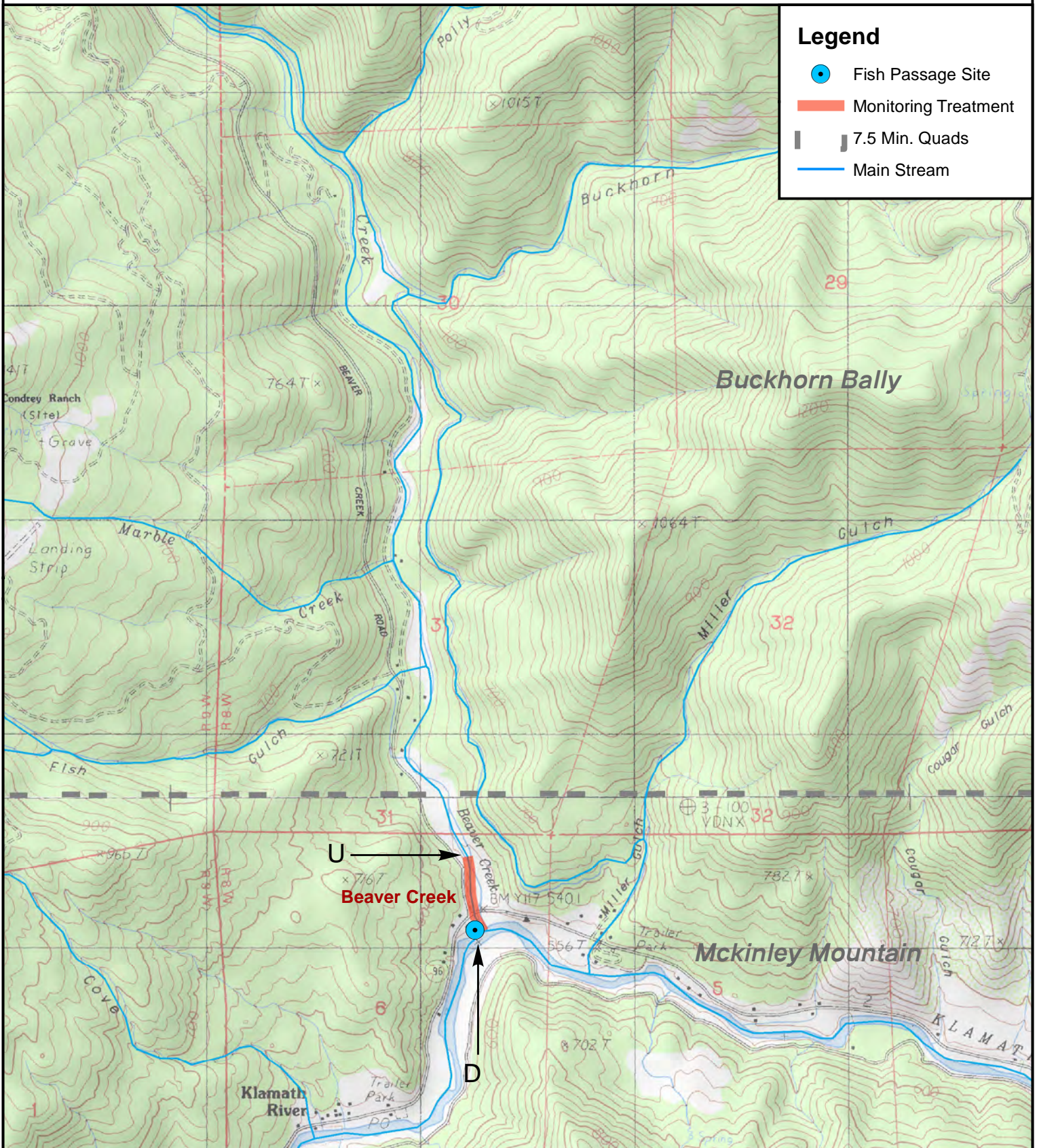
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 32 of 37

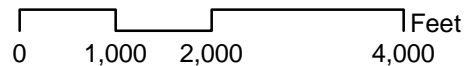


**Applicant:** Salmon River Restoration Council

**Stream name:** Beaver Creek

**Quad name:** McKinley Mountain

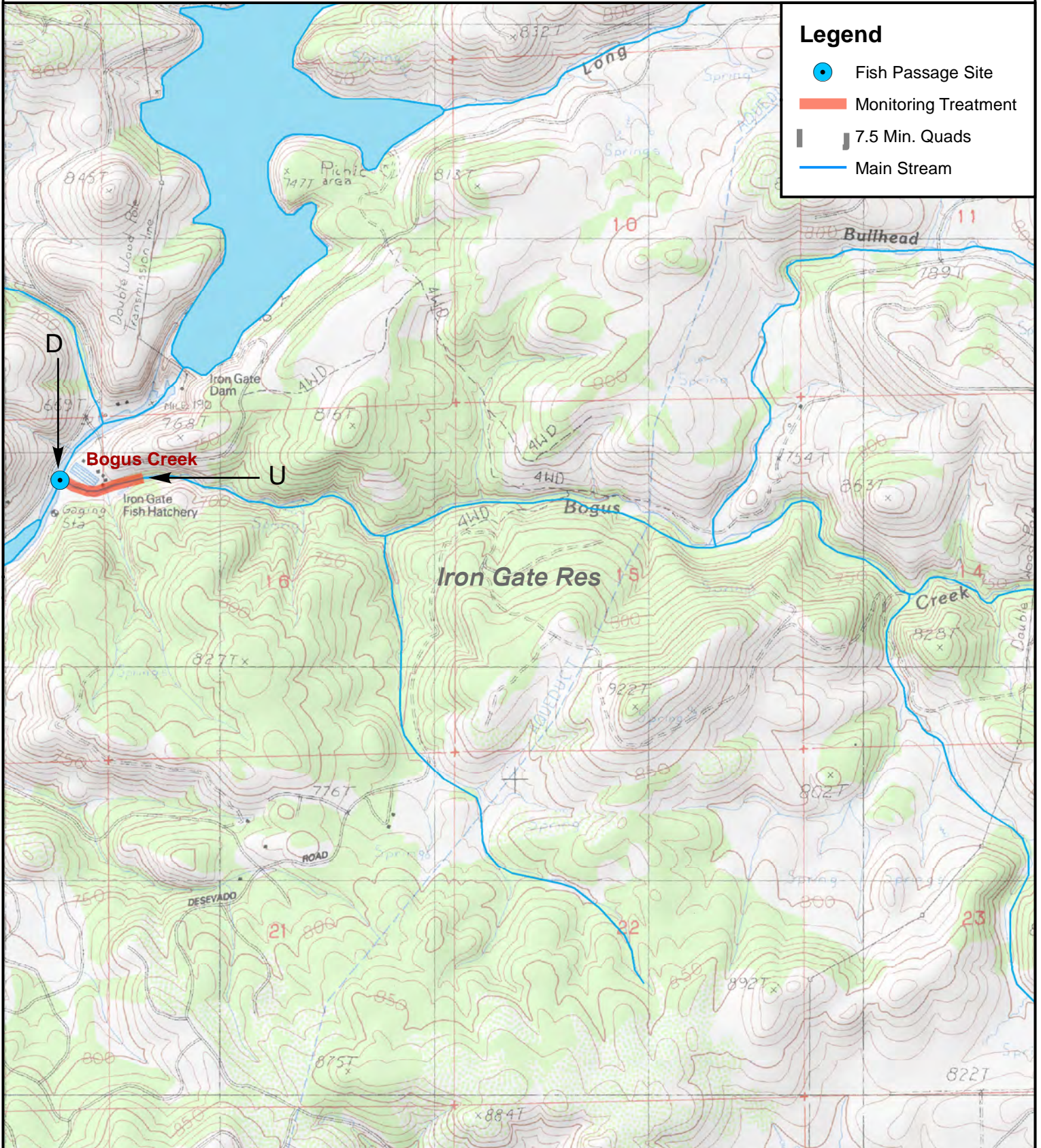
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 33 of 37



**Legend**

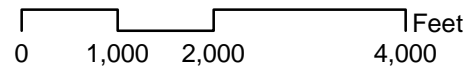
- Fish Passage Site
- Monitoring Treatment
- 7.5 Min. Quads
- Main Stream

**Applicant:** Salmon River Restoration Council

**Stream name:** Bogus Creek

**Quad name:** Iron Gate Res

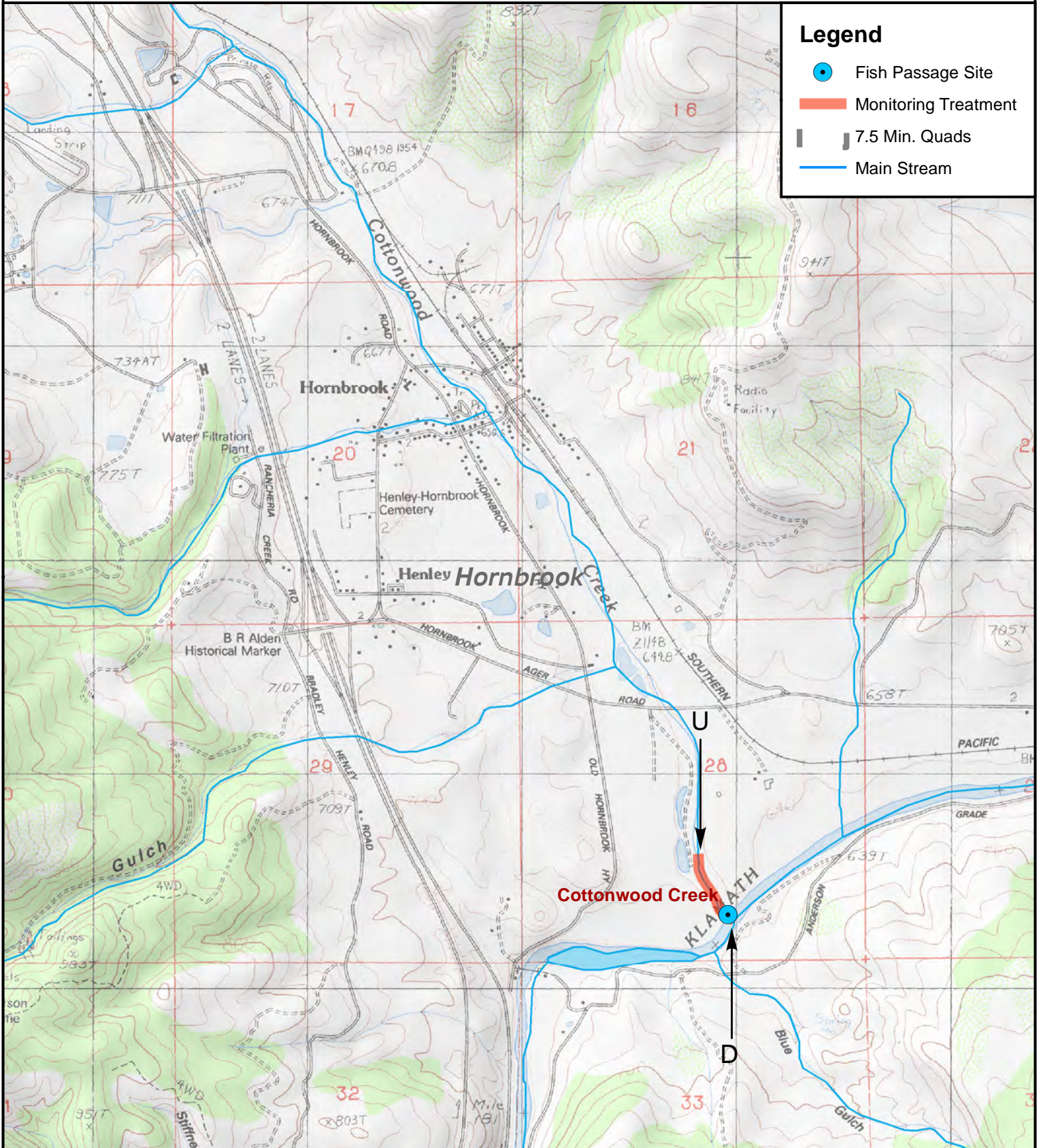
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 34 of 37

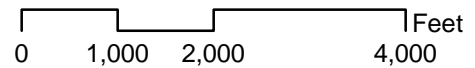


**Applicant:** Salmon River Restoration Council

**Stream name:** Cottonwood Creek

**Quad name:** Hornbrook

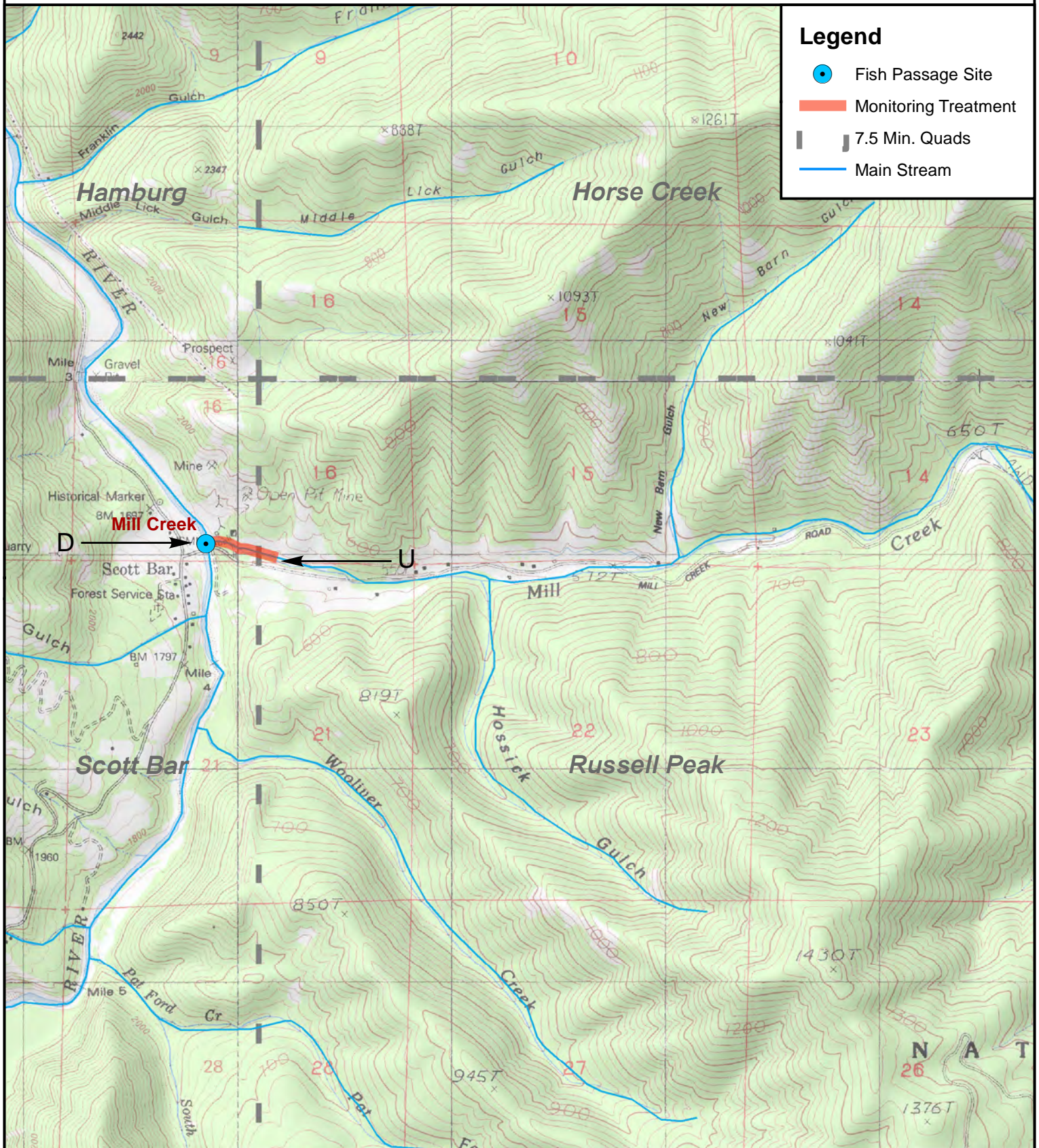
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 35 of 37



**Legend**

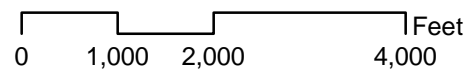
- Fish Passage Site
- Monitoring Treatment
- 7.5 Min. Quads
- Main Stream

**Applicant:** Salmon River Restoration Council

**Stream name:** Mill Creek

**Quad name:** Scott Bar, Russell Peak

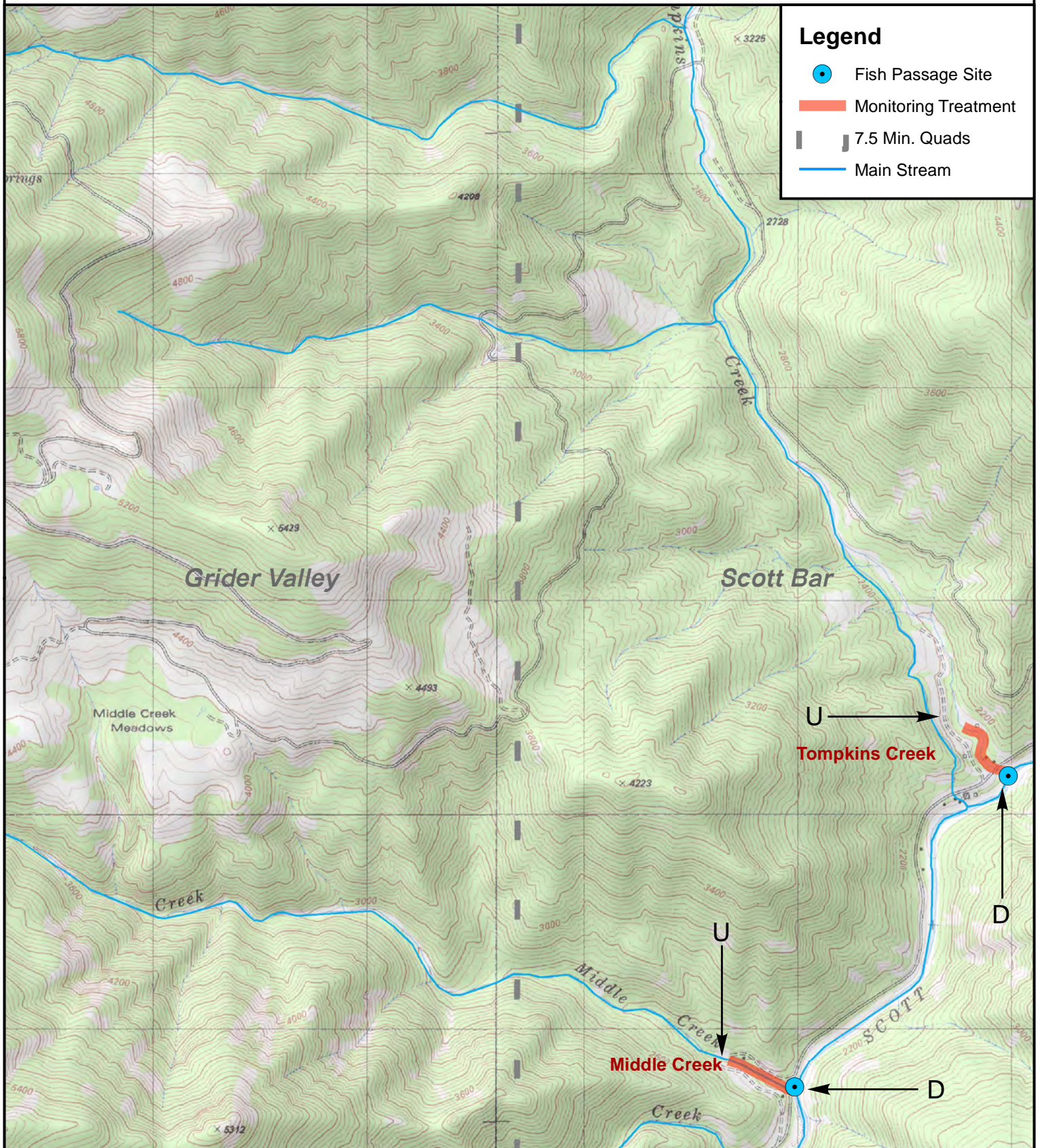
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 36 of 37

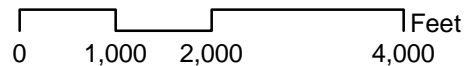


**Applicant:** Salmon River Restoration Council

**Stream name:** Tompkins Creek, Middle Creek

**Quad name:** Scott Bar

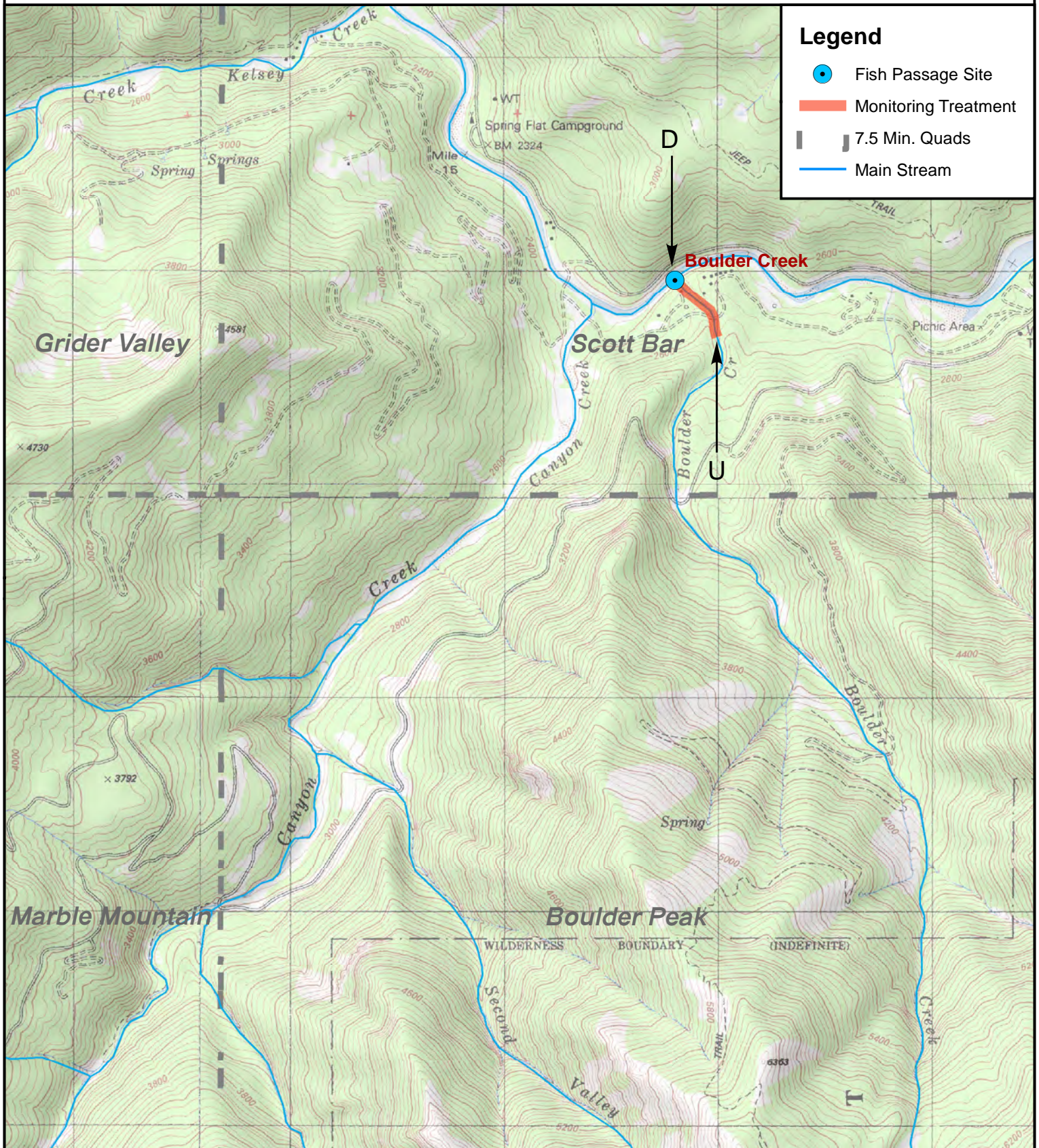
1 inch = 2,000 feet





# Salmon and Mid-Klamath Tributary - Fish Passage Improvement Project

## Location Topographic Map Number 37 of 37



**Legend**

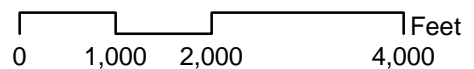
- Fish Passage Site
- Monitoring Treatment
- 7.5 Min. Quads
- Main Stream

**Applicant:** Salmon River Restoration Council

**Stream name:** Boulder Creek

**Quad name:** Scott Bar

1 inch = 2,000 feet







# Selected Elements by Scientific Name

## California Department of Fish and Wildlife

### California Natural Diversity Database



**Query Criteria:** Quad IS OR  Fish Lake (4112336) OR  Orleans (4112335) OR  Orleans Mtn. (4112334) OR  Forks of Salmon (4112333) OR  Youngs Peak (4112323) OR  Cecilville (4112322) OR  Grasshopper Ridge (4112321) OR  Sawyers Bar (4112332) OR  Tanners Peak (4112331) OR  Bark Shanty Gulch (4112345) OR  Somes Bar (4112344) OR  Medicine Mtn. (4112343) OR  English Peak (4112342) OR  Dillon Mtn. (4112355) OR  Ukonom Mtn. (4112354) OR  Clear Creek (4112364) OR  Happy Camp (4112374) OR  Slater Butte (4112373) OR  Seiad Valley (4112372) OR  Hamburg (4112371) OR  Scott Bar (4112361) OR  McKinley Mtn. (4112277) OR  Hornbrook (4112285) OR  Iron Gate Reservoir (4112284) OR  Hopkins Butte (4112325) OR  Tish Tang Point (4112315) OR  Bear Peak (4112316) OR  Hupa Mountain (4112317) OR  French Camp Ridge (4112327) OR  Johnsons (4112337) OR  Blue Creek Mtn. (4112347) OR  Lonesome Ridge (4112346) OR  Chimney Rock (4112356) OR  Prescott Mtn. (4112288) OR  Buckhorn Bally (4112287) OR  Preston Peak (4112375) OR  Polar Bear Mtn. (4112385) OR  Deadman Point (4112384) OR  Figurehead Mtn. (4112383) OR  Kangaroo Mtn. (4112382) OR  Dutch Creek (4112381) OR  Condrey Mtn. (4112288) OR  Cottonwood Peak (4112286) OR  Badger Mtn. (4112276) OR  Yreka (4112266) OR  Indian Creek Baldy (4112267) OR  Russell Peak (4112268) OR  Horse Creek (4112278) OR  Greenview (4112258) OR  Boulder Peak (4112351) OR  Marble Mountain (4112352) OR  Grider Valley (4112362) OR  Huckleberry Mtn. (4112363) OR  Ukonom Lake (4112353) OR  Yellow Dog Peak (4112341) OR  Etna (4112248) OR  Eaton Peak (4112238) OR  Deadman Peak (4112228) OR  Caribou Lake (4112218) OR  Thompson Peak (4112311) OR  Cecil Lake (4112312) OR  Dees Peak (4112313) OR  Trinity Mtn. (4112314) OR  Salmon Mtn. (4112324) OR  Hawkinsville (4112275) OR  Bogus Mountain (4112274) OR  Dewey Gulch (4112273) OR  Copco (4112283) OR  Parker Mtn. (4212213) OR  Soda Mountain (4212214) OR  Siskiyou Pass (4212215) OR  Mt. Ashland (4212216)

Possible species within the quads of Weitchpec, Fish Lake, Orleans, Orleans Mtn., Forks of Salmon, Youngs Peak, Cecilville, Grasshopper Ridge, Sawyers Bar, Tanners Peak, Bark Shanty Gulch, Somes Bar, Medicine Mtn., English Peak, Dillon Mtn., Ukonom Mtn., Clear Creek, Happy Camp, Slater Butte, Seiad Valley, Hamburg, Scott Bar, McKinley Mtn., Hornbrook, Iron Gate Reservoir, and surrounding quads for 1723367 - Mid-Klamath Tributary Fish Passage Improvement Project, Humboldt and Siskiyou Counties

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Abies amabilis</i> Pacific silver fir	PGPIN01010	None	None	G5?	S2	2B.3
<i>Abies lasiocarpa var. lasiocarpa</i> subalpine fir	PGPIN01072	None	None	G5T5	S3	2B.3
<i>Accipiter gentilis</i> northern goshawk	ABNKC12060	None	None	G5	S3	SSC
<i>Ambystoma macrodactylum sigillatum</i> southern long-toed salamander	AAAAA01085	None	None	G5T4	S3	SSC
<i>Ancotrema voyanum</i> hooded lancetooth	IMGAS36130	None	None	G1G2	S1S2	
<i>Androsace filiformis</i> slender-stemmed androsace	PDPRI02040	None	None	G4	S1	2B.3
<i>Anemone multifida var. multifida</i> cut-leaf anemone	PDRAN040E6	None	None	G5T5	S1S2	2B.2
<i>Anomobryum julaceum</i> slender silver moss	NBMUS80010	None	None	G5?	S2	4.2





Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Antigone canadensis tabida</i> greater sandhill crane	ABNMK01014	None	Threatened	G5T4	S2	FP
<i>Aplodontia rufa humboldtiana</i> Humboldt mountain beaver	AMAF01017	None	None	G5TNR	SNR	
<i>Arabis aculeolata</i> Waldo rockcress	PDBRA06010	None	None	G4	S2	2B.2
<i>Arabis mcdonaldiana</i> McDonald's rockcress	PDBRA06150	Endangered	Endangered	G3	S3	1B.1
<i>Arabis rigidissima</i> var. <i>rigidissima</i> Trinity Mountains rockcress	PDBRA061R2	None	None	G3T3	S3	1B.3
<i>Arborimus pomo</i> Sonoma tree vole	AMAFF23030	None	None	G3	S3	SSC
<i>Ardea herodias</i> great blue heron	ABNGA04010	None	None	G5	S4	
<i>Asarum marmoratum</i> marbled wild-ginger	PDARI02070	None	None	G4?	S2	2B.3
<i>Ascaphus truei</i> Pacific tailed frog	AAABA01010	None	None	G4	S3S4	SSC
<i>Astragalus umbraticus</i> Bald Mountain milk-vetch	PDFAB0F990	None	None	G4	S2	2B.2
<i>Atractelmis wawona</i> Wawona riffle beetle	IICOL58010	None	None	G3	S1S2	
<i>Balsamorhiza lanata</i> woolly balsamroot	PDAST11047	None	None	G3	S3	1B.2
<i>Boechea koehleri</i> Koehler's stipitate rockcress	PDBRA060Z0	None	None	G3G4	S3	1B.3
<i>Boechea rollei</i> Rolle's rockcress	PDBRA064H0	None	None	G1	S1	1B.1
<i>Bombus caliginosus</i> obscure bumble bee	IIHYM24380	None	None	G4?	S1S2	
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G3G4	S1S2	
<i>Bombus franklini</i> Franklin's bumble bee	IIHYM24010	Proposed Endangered	Candidate Endangered	G1	S1	
<i>Bombus morrisoni</i> Morrison bumble bee	IIHYM24460	None	None	G4G5	S1S2	
<i>Bombus occidentalis</i> western bumble bee	IIHYM24250	None	Candidate Endangered	G2G3	S1	
<i>Bombus suckleyi</i> Suckley's cuckoo bumble bee	IIHYM24350	None	Candidate Endangered	GU	S1	
<i>Bonasa umbellus</i> ruffed grouse	ABNLC11010	None	None	G5	S3S4	WL





Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Botrychium pinnatum</i></b> northwestern moonwort	PPOPH010V0	None	None	G4?	S2	2B.3
<b><i>Botrypus virginianus</i></b> rattlesnake fern	PPOPH010H0	None	None	G5	S2	2B.2
<b><i>Buxbaumia viridis</i></b> buxbaumia moss	NBMUS1B040	None	None	G3G4	S2	2B.2
<b><i>Calochortus greenei</i></b> Greene's mariposa-lily	PMLIL0D0H0	None	None	G3	S2S3	1B.2
<b><i>Calochortus monanthus</i></b> single-flowered mariposa-lily	PMLIL0D0W0	None	None	GX	SX	1A
<b><i>Calochortus persistens</i></b> Siskiyou mariposa-lily	PMLIL0D140	None	Rare	G1	S1	1B.2
<b><i>Campanula wilkinsiana</i></b> Wilkin's harebell	PDCAM020Z0	None	None	G2	S2	1B.2
<b><i>Carex halliana</i></b> Oregon sedge	PMCYP035M0	None	None	G4	S2	2B.3
<b><i>Carex hystericina</i></b> porcupine sedge	PMCYP036D0	None	None	G5	S2	2B.1
<b><i>Carex nardina</i></b> nard sedge	PMCYP03920	None	None	G4G5	S1	2B.2
<b><i>Carex praticola</i></b> northern meadow sedge	PMCYP03B20	None	None	G5	S2	2B.2
<b><i>Carex serpenticola</i></b> serpentine sedge	PMCYP03KM0	None	None	G4	S3	2B.3
<b><i>Castilleja elata</i></b> Siskiyou paintbrush	PDSCR0D213	None	None	G3	S2S3	2B.2
<b><i>Catostomus snyderi</i></b> Klamath largescale sucker	AFCJC02200	None	None	G3	S3	SSC
<b><i>Chaenactis suffrutescens</i></b> Shasta chaenactis	PDAST200H0	None	None	G2G3	S2S3	1B.3
<b><i>Chasmistes brevirostris</i></b> shortnose sucker	AFCJC03010	Endangered	Endangered	G1	S1	FP
<b><i>Cirsium ciliolatum</i></b> Ashland thistle	PDAST2E0P0	None	Endangered	G3	S1	2B.1
<b><i>Coptis laciniata</i></b> Oregon goldthread	PDRAN0A020	None	None	G4?	S3?	4.2
<b><i>Cornus canadensis</i></b> bunchberry	PDCOR01040	None	None	G5	S2	2B.2
<b><i>Corynorhinus townsendii</i></b> Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
<b><i>Cottus klamathensis polyporus</i></b> Lower Klamath marbled sculpin	AFC4E02153	None	None	G4T2T4	S2S4	SSC





Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Cryptantha dissida</i></b> serpentine cryptantha	PDBOR0A0H2	None	None	G3	S3	1B.2
<b><i>Cypseloides niger</i></b> black swift	ABNUA01010	None	None	G4	S2	SSC
<b><i>Darlingtonia Seep</i></b> Darlingtonia Seep	CTT51120CA	None	None	G4	S3.2	
<b><i>Deltistes luxatus</i></b> Lost River sucker	AFCJC12010	Endangered	Endangered	G1	S1	FP
<b><i>Draba carnosula</i></b> Mt. Eddy draba	PDBRA112T0	None	None	G2	S2	1B.3
<b><i>Drosera anglica</i></b> English sundew	PDDRO02010	None	None	G5	S2	2B.3
<b><i>Empidonax traillii</i></b> willow flycatcher	ABPAE33040	None	Endangered	G5	S1S2	
<b><i>Emys marmorata</i></b> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<b><i>Entosphenus folletti</i></b> northern California brook lamprey	AFBAA02110	None	None	G1G2Q	S1S2	SSC
<b><i>Entosphenus similis</i></b> Klamath River lamprey	AFBAA02140	None	None	G3G4Q	S3	SSC
<b><i>Epilobium luteum</i></b> yellow willowherb	PDONA060H0	None	None	G5	S1	2B.3
<b><i>Epilobium oregonum</i></b> Oregon fireweed	PDONA060P0	None	None	G2	S2	1B.2
<b><i>Epilobium siskiyouense</i></b> Siskiyou fireweed	PDONA06100	None	None	G3	S3	1B.3
<b><i>Erethizon dorsatum</i></b> North American porcupine	AMAFJ01010	None	None	G5	S3	
<b><i>Erigeron bloomeri var. nudatus</i></b> Waldo daisy	PDAST3M0M2	None	None	G5T4	S3	2B.3
<b><i>Eriogonum diclinum</i></b> Jaynes Canyon buckwheat	PDPGN081S0	None	None	G3	S3	2B.3
<b><i>Eriogonum hirtellum</i></b> Klamath Mountain buckwheat	PDPGN082T0	None	None	G2G3	S2S3	1B.3
<b><i>Eriogonum umbellatum var. glaberrimum</i></b> Warner Mountains buckwheat	PDPGN086U2	None	None	G5T2?	S2	1B.3
<b><i>Eriogonum umbellatum var. lautum</i></b> Scott Valley buckwheat	PDPGN086UX	None	None	G5T1	S1	1B.1
<b><i>Eriogonum ursinum var. erubescens</i></b> blushing wild buckwheat	PDPGN08632	None	None	G3G4T3	S3	1B.3
<b><i>Erythronium hendersonii</i></b> Henderson's fawn lily	PMLIL0U070	None	None	G4	S2	2B.3





Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Erythronium howellii</i> Howell's fawn lily	PMLIL0U080	None	None	G3G4	S2	1B.3
<i>Erythronium oregonum</i> giant fawn lily	PMLIL0U0C0	None	None	G4G5	S2	2B.2
<i>Erythronium revolutum</i> coast fawn lily	PMLIL0U0F0	None	None	G4G5	S3	2B.2
<i>Eucephalus vialis</i> wayside aster	PDASTEC0A0	None	None	G3	S1	1B.2
<i>Falco mexicanus</i> prairie falcon	ABNKD06090	None	None	G5	S4	WL
<i>Falco peregrinus anatum</i> American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
<i>Fissidens aphelotaxifolius</i> brook pocket moss	NBMUS2W290	None	None	G3G4	S1	2B.2
<i>Fritillaria gentneri</i> Gentner's fritillary	PMLIL0V080	Endangered	None	G1	S1	1B.1
<i>Galium serpenticum ssp. scotticum</i> Scott Mountain bedstraw	PDRUB0N1Y6	None	None	G4G5T2	S2	1B.2
<i>Gentiana plurisetosa</i> Klamath gentian	PDGEN060V0	None	None	G2G3	S2	1B.3
<i>Gilia capitata ssp. pacifica</i> Pacific gilia	PDPLM040B6	None	None	G5T3	S2	1B.2
<i>Gonidea angulata</i> western ridged mussel	IMBIV19010	None	None	G3	S1S2	
<i>Gulo gulo</i> California wolverine	AMAJF03010	Proposed Threatened	Threatened	G4	S1	FP
<i>Haliaeetus leucocephalus</i> bald eagle	ABNKC10010	Delisted	Endangered	G5	S3	FP
<i>Helminthoglypta hertleini</i> Oregon shoulderband	IMGASC2280	None	None	G3Q	S1S2	
<i>Helminthoglypta talmadgei</i> Trinity shoulderband	IMGASC2630	None	None	G2	S2	
<i>Hemieva ranunculifolia</i> buttercup-leaf suksdorfia	PDSAX0W010	None	None	G5	S2	2B.2
<i>Horkelia hendersonii</i> Henderson's horkelia	PDROS0W090	None	None	G1	S1	1B.1
<i>Hydroporus leechi</i> Leech's skyline diving beetle	IICOL55040	None	None	G1?	S1?	
<i>Hymenoxys lemmonii</i> alkali hymenoxys	PDAST530C0	None	None	G4	S2S3	2B.2
<i>Iliamna latibracteata</i> California globe mallow	PDMAL0K040	None	None	G2G3	S2	1B.2





Selected Elements by Scientific Name  
 California Department of Fish and Wildlife  
 California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Juga acutifilosa</i> topaz juga	IMGASK4010	None	None	G2	S2	
<i>Juncus dudleyi</i> Dudley's rush	PMJUN01390	None	None	G5	S1	2B.3
<i>Juncus regelii</i> Regel's rush	PMJUN012D0	None	None	G4	S1	2B.3
<i>Klamath/No Coast Spring Run Chinook/Summer Steelhead Stream</i> Klamath/No Coast Spring Run Chinook/Summer Steelhead Stream	CARB2333CA	None	None	GNR	SNR	
<i>Klamath/North Coast Fall/Winter Run Chinook Salmon River</i> Klamath/North Coast Fall/Winter Run Chinook Salmon River	CARB2332CA	None	None	GNR	SNR	
<i>Klamath/North Coast Interior Headwater Fishless Stream</i> Klamath/North Coast Interior Headwater Fishless Stream	CARB2220CA	None	None	GNR	SNR	
<i>Klamath/North Coast Rainbow Trout Stream</i> Klamath/North Coast Rainbow Trout Stream	CARB2312CA	None	None	GNR	SNR	
<i>Kopsiopsis hookeri</i> small groundcone	PDORO01010	None	None	G4?	S1S2	2B.3
<i>Lanx alta</i> highcap lanx	IMGASL7010	None	None	G2G3	S1S2	
<i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010	None	None	G5	S3S4	
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4	
<i>Lewisia cotyledon var. heckneri</i> Heckner's lewisia	PDPOR04052	None	None	G4T3	S3	1B.2
<i>Limnanthes floccosa ssp. floccosa</i> woolly meadowfoam	PDLIM02043	None	None	G4T4	S3	4.2
<i>Lomatium martindalei</i> Coast Range lomatium	PDAPI1B140	None	None	G5	S2	2B.3
<i>Lomatium peckianum</i> Peck's lomatium	PDAPI1B1G0	None	None	G4	S1	2B.2
<i>Margaritifera falcata</i> western pearlshell	IMBIV27020	None	None	G4G5	S1S2	
<i>Martes caurina</i> Pacific marten	AMAJF01030	None	None	G5	S3	
<i>Martes caurina humboldtensis</i> Humboldt marten	AMAJF01012	Proposed Threatened	Endangered	G5T1	S1	SSC
<i>Meesia longiseta</i> long seta hump moss	NBMUS4L010	None	None	G5	S1	2B.3
<i>Meesia uliginosa</i> broad-nerved hump moss	NBMUS4L030	None	None	G5	S3	2B.2





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<b><i>Mertensia bella</i></b> Oregon bluebells	PDBOR0N040	None	None	G4	S1	2B.2
<b><i>Microseris laciniata ssp. detlingii</i></b> Detling's silverpuffs	PDAST6E0A1	None	None	G4T3	S1	2B.2
<b><i>Mielichhoferia elongata</i></b> elongate copper moss	NBMUS4Q022	None	None	G5	S3S4	4.3
<b><i>Mielichhoferia mielichhoferiana</i></b> Mielichhofer's copper moss	NBMUS4Q020	None	None	G4	S1	2B.3
<b><i>Mitellastra caulescens</i></b> leafy-stemmed mitrewort	PDSAX0N020	None	None	G5	S4	4.2
<b><i>Monadenia callipeplus</i></b> downy sideband	IMGASC7110	None	None	G1?	S1S2	
<b><i>Monadenia chaceana</i></b> Siskiyou shoulderband	IMGASC7150	None	None	G2G3	S2	
<b><i>Monadenia cristulata</i></b> crested sideband	IMGASC7120	None	None	G1?	S1S2	
<b><i>Monadenia fidelis leonina</i></b> A terrestrial snail	IMGASC7037	None	None	G4G5T1T2	S1S2	
<b><i>Monadenia infumata ochromphalus</i></b> yellow-based sideband	IMGASC7051	None	None	G2T1	S1	
<b><i>Monotropa uniflora</i></b> ghost-pipe	PDMON03030	None	None	G5	S2	2B.2
<b><i>Montia howellii</i></b> Howell's montia	PDPOR05070	None	None	G3G4	S2	2B.2
<b><i>Myotis evotis</i></b> long-eared myotis	AMACC01070	None	None	G5	S3	
<b><i>Nebria gebleri siskiyouensis</i></b> Siskiyou ground beetle	IICOL6L091	None	None	G4G5T4	S1S2	
<b><i>Nebria sahlbergii triad</i></b> Trinity Alps ground beetle	IICOL6L081	None	None	G1T1	S1	
<b><i>Oenothera wolfii</i></b> Wolf's evening-primrose	PDONA0C1K0	None	None	G2	S1	1B.1
<b><i>Oncorhynchus clarkii clarkii</i></b> coast cutthroat trout	AFCHA0208A	None	None	G4T4	S3	SSC
<b><i>Oncorhynchus mykiss irideus pop. 36</i></b> summer-run steelhead trout	AFCHA0213B	None	Candidate Endangered	G5T4Q	S2	SSC
<b><i>Oncorhynchus tshawytscha pop. 30</i></b> chinook salmon - upper Klamath and Trinity Rivers ESU	AFCHA02056	Candidate	Candidate Endangered	G5	S1S2	SSC
<b><i>Orthocarpus pachystachyus</i></b> Shasta orthocarpus	PDSCR1H0L0	None	None	G1	S1	1B.1
<b><i>Orthotrichum holzingeri</i></b> Holzinger's orthotrichum moss	NBMUS560E0	None	None	G3G4	S2	1B.3





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<i>Pandion haliaetus</i> osprey	ABNKC01010	None	None	G5	S4	WL
<i>Parnassia cirrata</i> var. <i>intermedia</i> Cascade grass-of-Parnassus	PDSAX0P044	None	None	G5T4	S3	2B.2
<i>Pekania pennanti</i> fisher - West Coast DPS	AMAJF01021	Endangered	Threatened	G5T2T3Q	S2S3	SSC
<i>Penstemon filiformis</i> thread-leaved beardtongue	PDSCR1L2A0	None	None	G4	S4	4.2
<i>Penstemon tracyi</i> Tracy's beardtongue	PDSCR1L6A0	None	None	G2	S2	1B.3
<i>Phacelia greenei</i> Scott Valley phacelia	PDHYD0C1V0	None	None	G2	S2	1B.2
<i>Phacelia leonis</i> Siskiyou phacelia	PDHYD0C2N0	None	None	G3	S2?	1B.3
<i>Phlox hirsuta</i> Yreka phlox	PDPLM0D100	Endangered	Endangered	G1	S1	1B.2
<i>Picea engelmannii</i> Engelmann spruce	PGPIN03030	None	None	G5	S2	2B.2
<i>Pinguicula macroceras</i> horned butterwort	PDLNT01040	None	None	G4	S2	2B.2
<i>Piperia candida</i> white-flowered rein orchid	PMORC1X050	None	None	G3	S3	1B.2
<i>Pisidium ultramontanum</i> montane peaclam	IMBIV51220	None	None	G1	S1	
<i>Plethodon asupak</i> Scott Bar salamander	AAAAD12560	None	Threatened	G1G2	S1S2	
<i>Plethodon elongatus</i> Del Norte salamander	AAAAD12050	None	None	G4	S3	WL
<i>Plethodon stormi</i> Siskiyou Mountains salamander	AAAAD12180	None	Threatened	G3?	S1S2	
<i>Pohlia tundrae</i> tundra thread moss	NBMUS5S1B0	None	None	G3	S3	2B.3
<i>Polemonium carneum</i> Oregon polemonium	PDPLM0E050	None	None	G3G4	S2	2B.2
<i>Potamogeton robbinsii</i> Robbins' pondweed	PMPOT030Z0	None	None	G5	S3	2B.3
<i>Potentilla cristae</i> crested potentilla	PDR0S1B2F0	None	None	G2	S2	1B.3
<i>Prosartes parvifolia</i> Siskiyou bells	PMLIL0R014	None	None	G2	S1S2	1B.2
<i>Ptilidium californicum</i> Pacific fuzzwort	NBHEP2U010	None	None	G4G5	S3S4	4.3





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<b><i>Raillardella pringlei</i></b> showy raillardella	PDAST7X030	None	None	G2G3	S2S3	1B.2
<b><i>Rana aurora</i></b> northern red-legged frog	AAABH01021	None	None	G4	S3	SSC
<b><i>Rana boylei</i></b> foothill yellow-legged frog	AAABH01050	None	Endangered	G3	S3	SSC
<b><i>Rana cascadae</i></b> Cascades frog	AAABH01060	None	Candidate Endangered	G3G4	S3	SSC
<b><i>Rhyacotriton variegatus</i></b> southern torrent salamander	AAAAJ01020	None	None	G3G4	S2S3	SSC
<b><i>Rorippa columbiae</i></b> Columbia yellow cress	PDBRA27060	None	None	G3	S2	1B.2
<b><i>Rosa gymnocarpa var. serpentina</i></b> Gasquet rose	PDROS1J1V1	None	None	G5T3T4	S2	1B.3
<b><i>Rubus nivalis</i></b> snow dwarf bramble	PDROS1K4S0	None	None	G4?	S1	2B.3
<b><i>Sabulina howellii</i></b> Howell's sandwort	PDCAR0G0F0	None	None	G4	S3	1B.3
<b><i>Sabulina stolonifera</i></b> Scott Mountain sandwort	PDCAR0G110	None	None	G2	S2	1B.3
<b><i>Sanicula tracyi</i></b> Tracy's sanicle	PDAP11Z0K0	None	None	G4	S4	4.2
<b><i>Saussurea americana</i></b> American saw-wort	PDAST8B020	None	None	G5	S1	2B.2
<b><i>Saxifraga cespitosa</i></b> tufted saxifrage	PDSAX0U0C0	None	None	G5	S1	2B.3
<b><i>Schoenoplectus subterminalis</i></b> water bulrush	PMCYP0Q1G0	None	None	G4G5	S3	2B.3
<b><i>Scirpus pendulus</i></b> pendulous bulrush	PMCYP0Q160	None	None	G5	S1	2B.2
<b><i>Sedum divergens</i></b> Cascade stonecrop	PDCRA0A0B0	None	None	G5?	S2	2B.3
<b><i>Sedum laxum ssp. flavidum</i></b> pale yellow stonecrop	PDCRA0A0L2	None	None	G5T3Q	S3	4.3
<b><i>Sedum oblancoletatum</i></b> Applegate stonecrop	PDCRA0A0T0	None	None	G3	S1	1B.1
<b><i>Sidalcea oregana ssp. eximia</i></b> coast checkerbloom	PDMAL110K9	None	None	G5T1	S1	1B.2
<b><i>Silene marmorensis</i></b> Marble Mountain campion	PDCAR0U0Z0	None	None	G2	S2	1B.2
<b><i>Smilax jamesii</i></b> English Peak greenbrier	PMSMI010D0	None	None	G3G4	S3S4	4.2





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<b><i>Stachys pilosa</i></b> hairy marsh hedge-nettle	PDLAM1X1A0	None	None	G5	S3	2B.3
<b><i>Stellaria obtusa</i></b> obtuse starwort	PDCAR0X0U0	None	None	G5	S4	4.3
<b><i>Strix nebulosa</i></b> great gray owl	ABNSB12040	None	Endangered	G5	S1	
<b><i>Stygobromus mysticus</i></b> Secret Cave amphipod	ICMAL05A00	None	None	G1	S1	
<b><i>Tauschia howellii</i></b> Howell's tauschia	PDAPI27050	None	None	G2G3	S2S3	1B.3
<b><i>Thermopsis robusta</i></b> robust false lupine	PDFAB3Z0D0	None	None	G2	S2	1B.2
<b><i>Tonestus lyallii</i></b> Lyll's tonestus	PDASTE0050	None	None	G5	S1	2B.3
<b><i>Trifolium siskiyouense</i></b> Siskiyou clover	PDFAB402S0	None	None	GH	SH	1B.1
<b><i>Trilobopsis tehamana</i></b> Tehama chaparral	IMGASA2040	None	None	G2	S1	
<b><i>Triteleia grandiflora</i></b> large-flowered triteleia	PMLIL21060	None	None	G4G5	S1	2B.1
<b><i>Triteleia hendersonii</i></b> Henderson's triteleia	PMLIL21070	None	None	G4	S1	2B.2
<b><i>Upland Douglas Fir Forest</i></b> Upland Douglas Fir Forest	CTT82420CA	None	None	G4	S3.1	
<b><i>Vaccinium scoparium</i></b> little-leaved huckleberry	PDERI180Y0	None	None	G5	S3	2B.2
<b><i>Vespericola karokorum</i></b> Karak hesperian	IMGASA4040	None	None	G2	S2	
<b><i>Viola howellii</i></b> Howell's violet	PDVIO040U0	None	None	G4	S1	2B.2

Record Count: 190