

### **Introduction:**

Rural Human Services will implement the Rowdy Creek Instream Habitat Enhancement Project: Reach III. The purpose of the project is to improve spawning and rearing habitat for salmonids through pool retention, pool development and increased habitat complexity. This will be accomplished by installing 16-18 large woody debris structures along 1250 feet of Rowdy Creek. Each structure will consist of four or more logs. In addition, 500 native conifer trees will be planted to provide for future large wood recruitment. The project is necessary because Rowdy Creek continues to transport large amounts of gravel resulting in loss of salmonid habitat. Specifically pool depth, pool complexity, and in-channel large woody debris is limiting to salmonids. The objective of this project is to continue the short-term plan to increase large wood by implementing large wood structures along a reach of Rowdy Creek where pool development is occurring and cover complexity is limited. Planting trees will implement the long term plan to increase large woody debris recruitment. Woody cover provides rearing fry with protection from predation, rest from water velocity, and divides territorial units to reduce density dependent competition.

Grantee 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, Part VII and Part XI. 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 CDFW.

### **Objective(s):**

The goals of this project are to improve spawning and rearing habitat for salmonids through pool retention, pool development, and increased habitat complexity in Rowdy Creek. An additional goal is to provide for future large wood recruitment in Rowdy Creek. These goals will be achieved by installing large woody debris structures in the creek and planting native conifer trees along the riparian zone.

### **Project Description:**

**Location:** The Grantee will conduct work along a section of Rowdy Creek. The locations of the project boundaries are approximately 41.9339 ° north latitude, 124.10509° west longitude at the downstream end; and 41.93663 ° north latitude, 124.10783° west longitude at the upstream end as depicted in the Project Location Map.

**Project Set Up:** The project manager will conduct and oversee project tasks such as permitting, pre-project inspections, coordinating with landowners, subcontractors, and heavy equipment operators, manage project materials, plan exact structure locations, purchase materials, arrange for equipment

decontamination, and provide education for CCC work crews. The natural resources technician will provide support for log and boulder delivery, material staging activities, final site design, and final photo documentation. The CCC will anchor the large woody debris structures and plant riparian trees. Qualified heavy equipment operators will be subcontracted to transport and stage materials and install the large woody debris and boulder structures in the creek.

**Materials:** Materials for this project include: boulders, whole tree materials, safety equipment (such as wading gear), heavy equipment hazmat supplies, heavy equipment decontamination supplies, straw mulch, conifer seedlings, chainsaw supplies, anchoring materials, and anchoring power tools.

**Tasks:**

**Task 1. Grant Oversight:** Grant oversight will be conducted by Grantee. All reporting and billing will be pursuant to grant and regulatory guidelines. Upon final execution of the Grant and prior to receiving a Final Notice to Proceed, Grantee shall deliver the following items to the Grantor Project Manager identified in Section 6.04 – Contacts:

- Final Landowner Access Agreements as per the requirements of the 2016 Proposal Solicitation Notice, Appendix K, Funding Approval Submissions. Written permission must be obtained from landowners for access to perform grant work.
- Subcontractor Agreements. If a subcontractor is to be used, then a written copy of the sub agreement(s) shall be submitted to the Grantor Project Manager. The subcontract shall include specific language which establishes the rights of the auditors of the State to examine the records of the subcontractor relative to the services and materials provided under the grant.

A Preliminary Notice to Proceed can be requested from the Grantor Project Manager, if necessary, to prepare for project implementation (e.g., obtain permits, secure subcontracts, purchase supplies, apply for a Streambed Alteration Agreement).

A Final Notice to Proceed will be delivered to the Grantee when Final Landowner Access Agreement(s) and subcontracts are delivered to Grantor Project Manager, and when all required permits have been finalized (e.g., 401 State Water Quality Control Board Permit, Streambed Alteration Agreement).

The Grantee shall notify the Grantor Project Manager a minimum of 10 business days prior to the beginning of project implementation.

**Task 2. Final Feature Design:** Prepare site specific designs based on local channel characteristics, large wood availability and equipment access. Obtain design approval from landowner and Grantor Project Manager. Design and label all features and conduct pre-project photo documentation.

**Task 3. Project Implementation:**

**Task 3.01. Install Instream Habitat Features:** Install 16 to 18 LWD features including 85 or more pieces of LWD and 90 boulders along approximately 1250 feet of Rowdy Creek. All structures will consist of four or more logs fastened together and will include root wads wherever feasible. Structures will also be anchored to boulders. Work will consist of the following:

- Obtain and import logs with root wads intact when possible and boulders to staging sites along the creek.
- Use an excavator to place the logs and boulders near the stream then CCC hand crews will place the logs in the predetermined locations within the project reach.
- Hand crews will anchor the logs to the boulders using one inch threaded rebar,  $\frac{3}{4}$  inch cable and polyester resin adhesive as needed.

**Task 3.02. Erosion Control:** Mulching and seeding will take place as features are completed to avoid erosion. Seeding and mulching will take place on all exposed soils which may deliver sediment to a stream. The standard for success is 80% ground cover for broadcast planting of seed, after a period of three years. Plant 250 mixed conifer trees to enhance the riparian zone.

**Task 4. Post-Project Data and Photo Collection:** Following implementation, post-project photos will be taken and metrics shall be collected which satisfy the Grant Agreement Annual Progress Report(s) and Final Report.

**Task 5. Reporting:** Write and deliver progress reports for invoicing, Annual Progress Report(s), and a Final Report to Grantor Project Manager.

**Deliverables:** Photo documentation of the project sites and a final report prepared for CDFW. Placement of 16 to 18 log, rootwad and boulder combination

structures. Placement of 85 or more logs for in-channel habitat improvements. Placement of 90 or more boulders as anchor points for placed logs. Planting of 250 conifers within the project reaches. Submission of final report containing required detail contained in agreement.

### **Timelines:**

Grant Oversight: June 1, 2017 to February 28, 2021.

Project Implementation: June 1, 2017 to October 30, 2017 and June 1, 2018 to October 31, 2018

Conifer Planting: December 15, 2017 to March 15, 2018 and December 15, 2018 to March 2019

Project documentation and report preparation. November 2018 to February 2021

Final report due February 28, 2021.

### **Additional Requirements:**

The Grantee shall 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 aquatic species 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 CDFW.
- 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.

The Grantee will seed and mulch all exposed soils which may deliver sediment to a stream. Mulching and seeding can occur at any time during construction but will need to be completed prior to Oct. 15. The standard for success is 80% ground cover for broadcast planting of seed, after a period of three years. Planting of tree seedlings will take place after December 1 or when sufficient rainfall has occurred to insure the best chance of survival of the seedlings. The standard for success is 80% survival of plantings, after a period of three years.



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



**Query Criteria:** Quad IS (Biscuit Hill (4212318) OR Crescent City (4112472) OR Fourth of July Creek (4212411) OR Gasquet (4112378) OR High Divide (4112481) OR High Plateau Mtn. (4112388) OR Hiouchi (4112471) OR Mt. Emily (4212412) OR Smith River (4112482))

Possible species within the High Divide Quad and surrounding quads for 725159 Rowdy Creek Instream Habitat Enhancement Project Reach III, T18N R01E S19, Del Norte County

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b>alpine marsh violet</b> <i>Viola palustris</i>	PDVIO041G0	None	None	G5	S1S2	2B.2
<b>angel's hair lichen</b> <i>Ramalina thrausta</i>	NLLEC3S340	None	None	G5	S2?	2B.1
<b>arctic starflower</b> <i>Lysimachia europaea</i>	PDPRI0A030	None	None	G5	S1	2B.2
<b>bald eagle</b> <i>Haliaeetus leucocephalus</i>	ABNKC10010	Delisted	Endangered	G5	S3	FP
<b>bank swallow</b> <i>Riparia riparia</i>	ABPAU08010	None	Threatened	G5	S2	
<b>black crowberry</b> <i>Empetrum nigrum</i>	PDEMP03020	None	None	G5	S1?	2B.2
<b>black swift</b> <i>Cypseloides niger</i>	ABNUA01010	None	None	G4	S2	SSC
<b>bluff wallflower</b> <i>Erysimum concinnum</i>	PDBRA160E3	None	None	G3	S2	1B.2
<b>Butte County morning-glory</b> <i>Calystegia atriplicifolia ssp. buttensis</i>	PDCON04012	None	None	G5T3	S3	4.2
<b>cackling (=Aleutian Canada) goose</b> <i>Branta hutchinsii leucopareia</i>	ABNJB05035	Delisted	None	G5T3	S3	
<b>Chace juga</b> <i>Juga chacei</i>	IMGASK4180	None	None	G1	S1	
<b>coast checkerbloom</b> <i>Sidalcea oregana ssp. eximia</i>	PDMAL110K9	None	None	G5T1	S1	1B.2
<b>coast cutthroat trout</b> <i>Oncorhynchus clarkii clarkii</i>	AFCHA0208A	None	None	G4T4	S3	SSC
<b>coast fawn lily</b> <i>Erythronium revolutum</i>	PMLIL0U0F0	None	None	G4G5	S3	2B.2
<b>Coast Range lomatium</b> <i>Lomatium martindalei</i>	PDAPI1B140	None	None	G5	S3	2B.3
<b>Coastal and Valley Freshwater Marsh</b> <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA	None	None	G3	S2.1	
<b>Coastal Brackish Marsh</b> <i>Coastal Brackish Marsh</i>	CTT52200CA	None	None	G2	S2.1	
<b>dark-eyed gilia</b> <i>Gilia millefoliata</i>	PDPLM04130	None	None	G2	S2	1B.2



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<b>Darlingtonia Seep</b> <i>Darlingtonia Seep</i>	CTT51120CA	None	None	G4	S3.2	
<b>Del Norte pyrrocoma</b> <i>Pyrrocoma racemosa var. congesta</i>	PDASTDT0F4	None	None	G5T4	S2	2B.3
<b>Del Norte salamander</b> <i>Plethodon elongatus</i>	AAAAD12050	None	None	G4	S3	WL
<b>double-crested cormorant</b> <i>Phalacrocorax auritus</i>	ABNFD01020	None	None	G5	S4	WL
<b>eulachon</b> <i>Thaleichthys pacificus</i>	AFCHB04010	Threatened	None	G5	S3	
<b>fibrous pondweed</b> <i>Potamogeton foliosus ssp. fibrillosus</i>	PMPO030B1	None	None	G5T2T4	S1S2	2B.3
<b>fisher - West Coast DPS</b> <i>Pekania pennanti</i>	AMAJF01021	Proposed Threatened	Candidate Threatened	G5T2T3Q	S2S3	SSC
<b>foothill yellow-legged frog</b> <i>Rana boylei</i>	AAABH01050	None	None	G3	S3	SSC
<b>fork-tailed storm-petrel</b> <i>Oceanodroma furcata</i>	ABNDC04010	None	None	G5	S1	SSC
<b>Fort Dick limnephilus caddisfly</b> <i>Limnephilus atercus</i>	IITR115020	None	None	G3G4	S1	
<b>Gasquet rose</b> <i>Rosa gymnocarpa var. serpentina</i>	PDROS1J1V1	None	None	G5T3T4	S2	1B.3
<b>ghost-pipe</b> <i>Monotropa uniflora</i>	PDMON03030	None	None	G5	S2	2B.2
<b>giant fawn lily</b> <i>Erythronium oregonum</i>	PMLIL0U0C0	None	None	G4G5	S2	2B.2
<b>great blue heron</b> <i>Ardea herodias</i>	ABNGA04010	None	None	G5	S4	
<b>great burnet</b> <i>Sanguisorba officinalis</i>	PDROS1L060	None	None	G5?	S2	2B.2
<b>great egret</b> <i>Ardea alba</i>	ABNGA04040	None	None	G5	S4	
<b>green yellow sedge</b> <i>Carex viridula ssp. viridula</i>	PMCYP03EM5	None	None	G5T5	S2	2B.3
<b>Greenland cochlearia</b> <i>Cochlearia groenlandica</i>	PDBRA0S020	None	None	G4	S1	2B.3
<b>Henderson's fawn lily</b> <i>Erythronium hendersonii</i>	PMLIL0U070	None	None	G4	S2	2B.3
<b>horned butterwort</b> <i>Pinguicula macroceras</i>	PDLNT01040	None	None	G4	S2	2B.2
<b>Howell's fawn lily</b> <i>Erythronium howellii</i>	PMLIL0U080	None	None	G3G4	S2	1B.3



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<b>Howell's jewelflower</b> <i>Streptanthus howellii</i>	PDBRA2G0N0	None	None	G2G3	S2	1B.2
<b>Howell's sandwort</b> <i>Sabulina howellii</i>	PDCAR0G0F0	None	None	G4	S3	1B.3
<b>Humboldt marten</b> <i>Martes caurina humboldtensis</i>	AMAJF01012	None	Candidate Endangered	G5T1	S1	SSC
<b>Koehler's stipitate rockcress</b> <i>Boechera koehleri</i>	PDBRA060Z0	None	None	G3	S2S3	1B.3
<b>lagoon sedge</b> <i>Carex lenticularis var. limnophila</i>	PMCYP037A7	None	None	G5T5	S1	2B.2
<b>Langsdorf's violet</b> <i>Viola langsdorffii</i>	PDVIO04100	None	None	G4	S1	2B.1
<b>leafy-stemmed mitrewort</b> <i>Mitellastrum caulescens</i>	PDSAX0N020	None	None	G5	S4	4.2
<b>little-leaved huckleberry</b> <i>Vaccinium scoparium</i>	PDERI180Y0	None	None	G5	S3	2B.2
<b>Lyngbye's sedge</b> <i>Carex lyngbyei</i>	PMCYP037Y0	None	None	G5	S3	2B.2
<b>maidenhair spleenwort</b> <i>Asplenium trichomanes ssp. trichomanes</i>	PPASP021K2	None	None	G5T5	S1	2B.1
<b>maple-leaved checkerbloom</b> <i>Sidalcea malachroides</i>	PDMAL110E0	None	None	G3	S3	4.2
<b>marbled murrelet</b> <i>Brachyramphus marmoratus</i>	ABNNN06010	Threatened	Endangered	G3G4	S1	
<b>mardon skipper</b> <i>Polites mardon</i>	IILEP66030	None	None	G2G3	S1	
<b>marsh pea</b> <i>Lathyrus palustris</i>	PDFAB250P0	None	None	G5	S2	2B.2
<b>McDonald's rockcress</b> <i>Arabis mcdonaldiana</i>	PDBRA06150	Endangered	Endangered	G3	S3	1B.1
<b>Mendocino gentian</b> <i>Gentiana setigera</i>	PDGEN060S0	None	None	G2	S1	1B.2
<b>Methuselah's beard lichen</b> <i>Usnea longissima</i>	NLLEC5P420	None	None	G4	S4	4.2
<b>minute pocket moss</b> <i>Fissidens pauperculus</i>	NBMUS2W0U0	None	None	G3?	S2	1B.2
<b>northern clustered sedge</b> <i>Carex arcta</i>	PMCYP030X0	None	None	G5	S1	2B.2
<b>Northern Coastal Salt Marsh</b> <i>Northern Coastal Salt Marsh</i>	CTT52110CA	None	None	G3	S3.2	
<b>northern meadow sedge</b> <i>Carex praticola</i>	PMCYP03B20	None	None	G5	S2	2B.2





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<b>northern red-legged frog</b> <i>Rana aurora</i>	AAABH01021	None	None	G4	S3	SSC
<b>Nuttall's saxifrage</b> <i>Cascadia nuttallii</i>	PDSAX0U160	None	None	G4?	S1	2B.1
<b>obscure bumble bee</b> <i>Bombus caliginosus</i>	IIHYM24380	None	None	G4?	S1S2	
<b>opposite-leaved lewisia</b> <i>Lewisia oppositifolia</i>	PDPOR040B0	None	None	G4	S2	2B.2
<b>Oregon coast paintbrush</b> <i>Castilleja littoralis</i>	PDSCR0D012	None	None	G3	S3	2B.2
<b>Oregon goldthread</b> <i>Coptis laciniata</i>	PDRAN0A020	None	None	G4	S3	4.2
<b>Oregon polemonium</b> <i>Polemonium carneum</i>	PDPLM0E050	None	None	G3G4	S2	2B.2
<b>Oregon silverspot butterfly</b> <i>Speyeria zerene hippolyta</i>	IILEPJ6087	Threatened	None	G5T1	S1	
<b>osprey</b> <i>Pandion haliaetus</i>	ABNKC01010	None	None	G5	S4	WL
<b>Pacific gilia</b> <i>Gilia capitata ssp. pacifica</i>	PDPLM040B6	None	None	G5T3	S2	1B.2
<b>Pacific tailed frog</b> <i>Ascaphus truei</i>	AAABA01010	None	None	G4	S3S4	SSC
<b>perennial goldfields</b> <i>Lasthenia californica ssp. macrantha</i>	PDAST5L0C5	None	None	G3T2	S2	1B.2
<b>pink sand-verbena</b> <i>Abronia umbellata var. breviflora</i>	PDNYC010N4	None	None	G4G5T2	S1	1B.1
<b>rhinoceros auklet</b> <i>Cerorhinca monocerata</i>	ABNNN11010	None	None	G5	S3	WL
<b>rocky coast Pacific sideband</b> <i>Monadenia fidelis pronotis</i>	IMGASC7032	None	None	G4G5T1	S1	
<b>sand dune phacelia</b> <i>Phacelia argentea</i>	PDHYD0C070	None	None	G2	S1	1B.1
<b>Sanford's arrowhead</b> <i>Sagittaria sanfordii</i>	PMALI040Q0	None	None	G3	S3	1B.2
<b>seacoast ragwort</b> <i>Packera bolanderi var. bolanderi</i>	PDAST8H0H1	None	None	G4T4	S2S3	2B.2
<b>seaside pea</b> <i>Lathyrus japonicus</i>	PDFAB250C0	None	None	G5	S2	2B.1
<b>serpentine catchfly</b> <i>Silene serpenticola</i>	PDCAR0U2B0	None	None	G3	S3	1B.2
<b>serpentine sedge</b> <i>Carex serpenticola</i>	PMCYP03KM0	None	None	G4	S3	2B.3





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<b>short-leaved evax</b> <i>Hesperevax sparsiflora</i> var. <i>brevifolia</i>	PDASTE5011	None	None	G4T3	S2	1B.2
<b>silver-haired bat</b> <i>Lasionycteris noctivagans</i>	AMACC02010	None	None	G5	S3S4	
<b>Siskiyou bells</b> <i>Prosartes parvifolia</i>	PMLIL0R014	None	None	G2	S1S2	1B.2
<b>Siskiyou checkerbloom</b> <i>Sidalcea malviflora</i> ssp. <i>patula</i>	PDMAL110F9	None	None	G5T2	S2	1B.2
<b>Siskiyou paintbrush</b> <i>Castilleja elata</i>	PDSCR0D213	None	None	G3	S2S3	2B.2
<b>small groundcone</b> <i>Kopsiopsis hookeri</i>	PDORO01010	None	None	G4?	S1S2	2B.3
<b>snowy egret</b> <i>Egretta thula</i>	ABNGA06030	None	None	G5	S4	
<b>southern torrent salamander</b> <i>Rhyacotriton variegatus</i>	AAAAJ01020	None	None	G3G4	S2S3	SSC
<b>spiral-spored gilded-head pin lichen</b> <i>Calicium adspersum</i>	NLT0005640	None	None	G3G4	S1?	2B.2
<b>Steller (=northern) sea-lion</b> <i>Eumetopias jubatus</i>	AMAJC03010	Delisted	None	G3	S2	
<b>summer-run steelhead trout</b> <i>Oncorhynchus mykiss irideus</i>	AFCHA0213B	None	None	G5T4Q	S2	SSC
<b>Thurber's reed grass</b> <i>Calamagrostis crassiglumis</i>	PMPOA17070	None	None	G3Q	S2	2B.1
<b>tidewater goby</b> <i>Eucyclogobius newberryi</i>	AFCQN04010	Endangered	None	G3	S3	SSC
<b>Tracy's romanzoffia</b> <i>Romanzoffia tracyi</i>	PDHYD0E030	None	None	G4	S2	2B.3
<b>tufted puffin</b> <i>Fratercula cirrhata</i>	ABNNN12010	None	None	G5	S1S2	SSC
<b>twisted horsehair lichen</b> <i>Bryoria spiralifera</i>	NLTEST5460	None	None	G3	S1S2	1B.1
<b>vanilla-grass</b> <i>Anthoxanthum nitens</i> ssp. <i>nitens</i>	PMPOA0F041	None	None	G5	S2	2B.3
<b>Waldo rockcress</b> <i>Arabis aculeolata</i>	PDBRA06010	None	None	G4	S2	2B.2
<b>Waldo wild buckwheat</b> <i>Eriogonum pendulum</i>	PDPGN084Q0	None	None	G4	S3	2B.2
<b>western bumble bee</b> <i>Bombus occidentalis</i>	IIHYM24250	None	None	G2G3	S1	
<b>western lily</b> <i>Lilium occidentale</i>	PMLIL1A0G0	Endangered	Endangered	G1	S1	1B.1



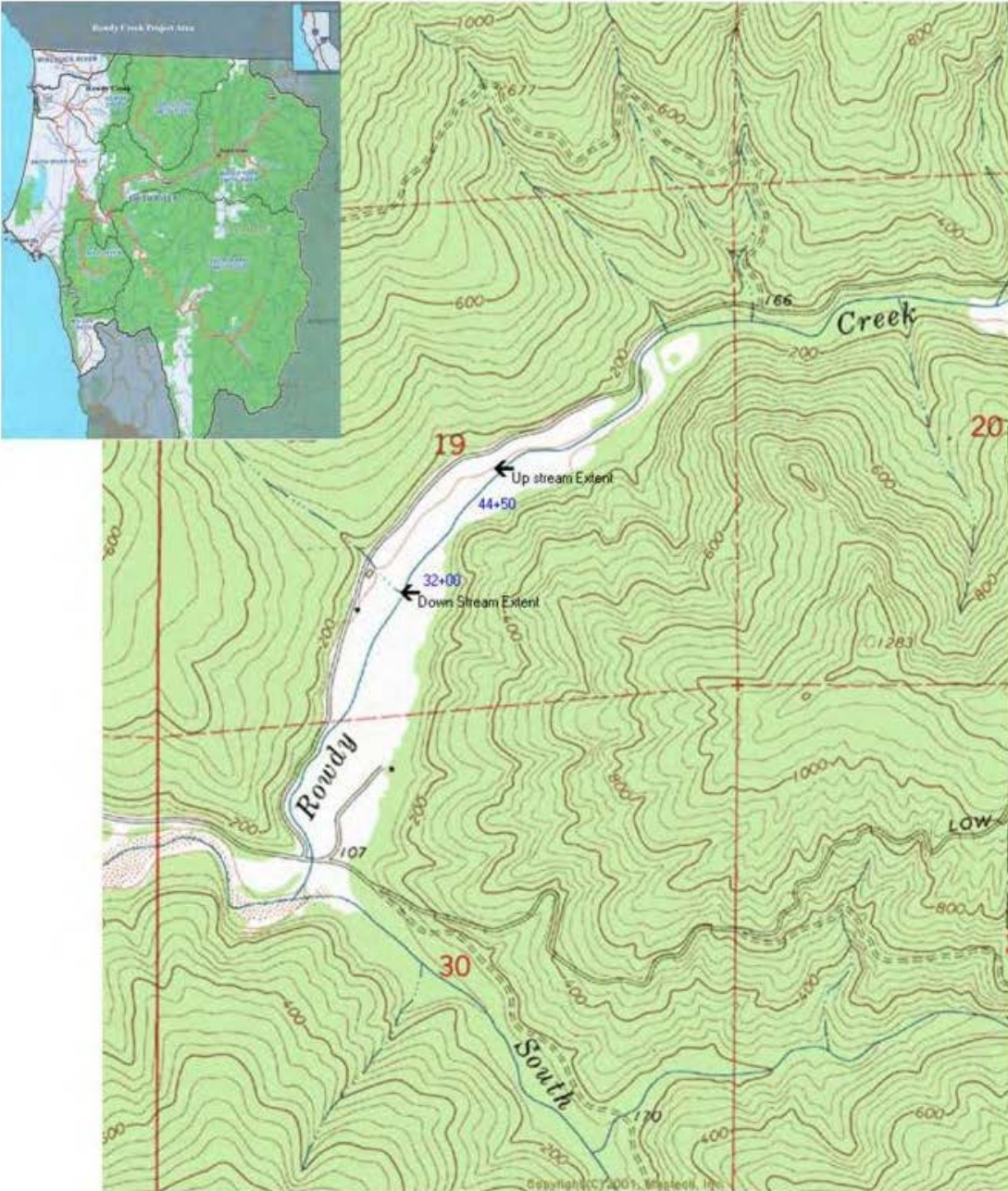
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<b>Species</b>	<b>Element Code</b>	<b>Federal Status</b>	<b>State Status</b>	<b>Global Rank</b>	<b>State Rank</b>	<b>Rare Plant Rank/CDFW SSC or FP</b>
<b>western pearlshell</b> <i>Margaritifera falcata</i>	IMBIV27020	None	None	G4G5	S1S2	
<b>western pond turtle</b> <i>Emys marmorata</i>	ARAAD02030	None	None	G3G4	S3	SSC
<b>western ragwort</b> <i>Packera hesperia</i>	PDAST8H1L0	None	None	G3	S1	2B.2
<b>western snowy plover</b> <i>Charadrius alexandrinus nivosus</i>	ABNNB03031	Threatened	None	G3T3	S2S3	SSC
<b>western white bog violet</b> <i>Viola primulifolia ssp. occidentalis</i>	PDVIO040Y2	None	None	G5T2	S2	1B.2
<b>white-flowered rein orchid</b> <i>Piperia candida</i>	PMORC1X050	None	None	G3	S3	1B.2
<b>white-tailed kite</b> <i>Elanus leucurus</i>	ABNKC06010	None	None	G5	S3S4	FP
<b>Wolf's evening-primrose</b> <i>Oenothera wolfii</i>	PDONA0C1K0	None	None	G2	S1	1B.1
<b>woodnymph</b> <i>Moneses uniflora</i>	PDPYR02010	None	None	G5	S3	2B.2
<b>yellow-tubered toothwort</b> <i>Cardamine nuttallii var. gemmata</i>	PDBRA0K0R3	None	None	G5T3Q	S2	3.3
<b>Yontocket satyr</b> <i>Coenonympha tullia yontockett</i>	IILEPN6035	None	None	G5T1T2	S1	
<b>Yuma myotis</b> <i>Myotis yumanensis</i>	AMACC01020	None	None	G5	S4	
<b>northern spotted owl</b> <i>Strix occidentalis caurina</i>	ABNSB12011	Threatened	Candidate	G3T3	S2S3	SC
			Threatened			

**Record Count:**  
115

Rowdy Creek Instream Habitat Enhancement Project Reach III  
Project Location Map  
T18N R01E S19, High Divide Quad, Del Norte County



**Rowdy Creek Instream Habitat Improvement: Reach III**

High Divide Quadrangle : Contour Interval: 40 feet NAD 83

Down Stream Extent: N 41.93399 W 124.10783 Decimal Degrees

Up Stream Extent: N 41.93663 W 124.10509 Decimal Degrees

