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Receiving Waters

The following table shows the receiving waters associated with each impact site.

Site ID	Waterbody Name	Impacted Aquatic Resource Type	Water Board Hydrologic Units	Receiving Waters	Receiving Waters Beneficial Uses
725147	Quiota Creek	Stream	314.40	Santa Ynez River, downstream	AGR, COLD, COMM, FRESH, GWR, IND, MIGR, MUN, PRO, RARE, REC1, REC2, SPWN, WARM, WILD
725149	Dinner Creek	Stream	111.32	South Fork Eel river (Benbow Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725150	Mill-Shackleford Creek	Stream	105.42	Scott River (Scott Valley Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725151	Woodman Creek	Stream	111.42	Middle Fork Eel River (Spy Rock Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725153	Mid Klamath Tributaries, North Fork Salmon River Tributaries, Salmon River Tributaries, Scott River Tributaries, South Fork Salmon River Tributaries	Stream	105.20 105.30 105.40	Salmon River, Middle Klamath River, and Scott River	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, SHELL, AQUA, CUL
725154	Yellowjacket Creek	Stream	114.25	Middle Russian River (Geyserville Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725156	Jack of Hearts Creek	Stream/Riparian	111.33	South Fork Eel River (Laytonville Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA

Site ID	Waterbody Name	Impacted Aquatic Resource Type	Water Board Hydrologic Units	Receiving Waters	Receiving Waters Beneficial Uses
725158	Little North Fork Big River	Stream	113.30	Big River	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, COLD, WILD, RARE, MIGR, SPWN, EST, AQUA
725159	Rowdy Creek	Stream	103.12	Smith River (Rowdy Creek Hydrologic Subarea)	MUN, AGR, IND, PRO, FRSH, NAV, POW, REC1, REC2, COMM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725160	French Creek	Stream/Riparian	105.42	Scott River (Scott Valley Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725164	North Fork Salmon River	Stream	105.23	Salmon River (Sawyers Bar Hydrologic Subarea)	MUN, AGR, IND, PRO, FRSH, NAV, POW, REC1, REC2, COMM, COLD, WILD, RARE, MIGR, SPWN, SHELL, AQUA
725165	James Creek	Stream	113.30	Big River	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, COLD, WILD, RARE, MIGR, SPWN, EST, AQUA
725168	String Creek, Tartar Creek	Stream	111.62	Upper Main Eel River (Tomki Creek Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725174	Anderson Creek	Stream	111.32	South Fork Eel river (Benbow Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725178	San Antonio Creek	Riparian	180701010103	San Antonio Creek (Above Lion Creek)	MUN, IND, PROC, AGR, GWR, FRSH, WARM, COLD, WILD, MIGR, SPWN, WET
725179	Maple Creek, Oil Creek, Price Creek, Sweet Creek	Stream/Riparian	111.11	Lower Eel River (Ferndale Hydrologic Subarea)	MUN, AGR, IND, PRO,GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MAR, MIGR, SPWN, SHELL, EST, AQUA, CUL
725182	Anderson Creek	Stream/Riparian	111.32	South Fork Eel river (Benbow Hydrologic Subarea)	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA

Site ID	Waterbody Name	Impacted Aquatic Resource Type	Water Board Hydrologic Units	Receiving Waters	Receiving Waters Beneficial Uses
725245	Shasta River	Stream	105.50	Shasta River	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA
725246	Mattole River	Riparian	112.30	Mattole River	MUN, AGR, IND, PRO, GWR, FRSH, NAV, POW, REC1, REC2, COMM, WARM, COLD, WILD, RARE, MIGR, SPWN, AQUA

Individual Direct Impact Locations

The following table shows individual impact locations.

Table 2: Individual Direct Impact Information

Site ID	Latitude	Longitude	Project Name and Description	Direct Impact Duration	Fill/Excavation		Area & Length Restored		
					Acres	Linear Feet	Restoration Method	Acres	Linear Feet
725147	34.56013	-120.08518	**Quiota Creek Fish Passage Improvement, Crossing 5 Project**- The purpose of the project is replace an existing Arizona (fair weather) crossing that contains a blocked 16-inch diameter corrugated metal pipe culvert with a 59-foot free span bridge. This will restore fish access to 3.17 miles of stream with high-quality critical habitat for southern steelhead spawning, rearing and over-summering.	Temporary (stream)	0.12	211	Rehabilitation	0.12	211
				Permanent (Stream)	0	0	Re-establishment	7.68	16738
725149	40.093053	-123.93157	**Dinner Creek Fish Passage Barrier Removal Project**- Removal of three fish migration barriers, opening access to over 9,400 feet of spawning habitat in the Dinner Creek watershed. This will be accomplished by replacing three undersized culverts with fish friendly culverts.	Temporary (stream)	0.027	3696	Rehabilitation	0.027	3696
				Permanent (stream)	0	0	Re-establishment	1.29	2810
725150	41.56042	-122.98706	**Scott River, Mill/Shackleford Creek Bridge Project**- Eliminate a significant partial barrier to juvenile coho salmon providing unimpeded passage for all life stages at all flows by replacing the existing low water ford with a 66-foot prefabricated, free span, weathered steel, heavy-load, vehicle bridge. In addition, 1,050 feet of forest road connected to the road crossing will be decommissioned preventing road related impacts of mobilized sediment, substrate embeddedness.	Temporary (stream)	0.606	2640	Rehabilitation	0.606	2640
				Permanent (stream)	0	0	Re-establishment	3.64	7920

Table 2: Individual Direct Impact Information

Site ID	Latitude	Longitude	Project Name and Description	Direct Impact Duration	Fill/Excavation		Area & Length Restored		
					Acres	Linear Feet	Restoration Method	Acres	Linear Feet
725151	39.776662	-123.39083	**Woodman Creek (Eel River) Railroad Crossing Fish Passage Project**- Removal of the railroad crossing at Woodman Creek to restore fish passage and access to approximately 14 miles of salmonid habitat. The project will remove the Woodman Creek railroad crossing, restore the lower-most 500 feet of Woodman Creek's historic stream channel at its confluence with the mainstem Eel River by partially backfilling the existing Woodman Creek channel confluence that flows across bedrock cascades forming the barrier, and permanently dispose of approximately 30,000 cubic yards of excavated fill material.	Temporary (stream)	0.2	581	Rehabilitation	0.2	581
				Permanent (stream)	0	0	Re-establishment	33.94	73920
725153	41.31465	-123.12386	**Mid-Klamath Tributary Fish Passage Improvement Project**- Improve juvenile and adult salmonid fish passage to over 70 tributaries in the Middle Klamath, Salmon and Lower Scott River Subbasins through manual modification of seasonal barriers.	Temporary (stream)	3.306	73920	Rehabilitation	3.306	73920
				Permanent (stream)	0	0	Re-establishment	484.4	1056000
725154	38.634404	-122.66223	**Yellowjacket Creek Fish Passage Improvement Project**- The project will improve fish passage by constructing a series of boulder step-pools, and installing a new fish screen on the diversion at existing concrete weir structure. The project will restore fish access to 1.9 miles of high quality spawning and rearing habitat upstream of the barrier. A cone screen system designed to meet required fish screening criteria and maintain permitted water diversion rates.	Temporary (stream)	0.436	700	Rehabilitation	0.436	700
				Permanent (stream)	0	0	Re-establishment	4.61	10032
725156	39.715	-123.68722	**Upper Jack of Hearts Creek Coho Habitat Restoration Project-** Removal of two	Temporary (stream)	0.014	100	Rehabilitation	0.014	100

Table 2: Individual Direct Impact Information

Site ID	Latitude	Longitude	Project Name and Description	Direct Impact Duration	Fill/Excavation		Area & Length Restored		
					Acres	Linear Feet	Restoration Method	Acres	Linear Feet
			complete barriers in order to restore fish access to approximately 1,160 feet of Jack of Hearts Creek, and upgrade roads to prevent the direct delivery of 1,295 cubic yards of sediment.	Temporary (riparian)	0.61	163	Rehabilitation	0.61	163
				Permanent (stream)	0.018	570	Rehabilitation	0.53	1160
725158	39.3346	-123.70046	**Little North Fork Big River Instream Coho Habitat Enhancement Project**- The goal of this project is to improve habitat complexity, pool frequency, pool depth, and shelter values within the project reach. This goal will be achieved by installing at least 43 pieces of large wood and rootwads at 21 locations along a one mile reach of the Little North Fork Big River.	NA	0	0	NA	0	0
				Permanent (stream)	0.142	634	Enhancement	2.42	5280
725159	41.9339	-124.10509	**Rowdy Creek Instream Habitat Enhancement Project**- 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. In addition, 500 native conifer trees will be planted to provide for future large wood recruitment.	Temporary (riparian)	2.87	354	Rehabilitation	2.87	354
				Permanent (stream)	0.0083	360	Enhancement	0.58	1267
725160	41.4	-122.9	**French Creek Main Channel and Off Channel Habitat Improvement and Monitoring**- The objective to this project is to create 4 instream features and one 350 foot side channel within a 650 foot reach of French Creek. Instream features consist of 100 logs,	Temporary (riparian)	0.63	166	Rehabilitation	0.63	166
				NA	0	0	Enhancement (Riparian)	0.1	317

Table 2: Individual Direct Impact Information

Site ID	Latitude	Longitude	Project Name and Description	Direct Impact Duration	Fill/Excavation		Area & Length Restored		
					Acres	Linear Feet	Restoration Method	Acres	Linear Feet
			boulder rocks, and 80 cubic yards of spawning gravel. These structures will enhance spawning and rearing habitats by providing cover, increasing pool complexity, increasing pool depth and frequency, sorting and collecting spawning gravels. The project will also provide velocity refuge during peak winter flows for juvenile salmonids and migrating adult salmonids. In addition 320 native trees will be planted to enhance riparian cover, and for future wood recruitment.	Permanent (stream)	0.29	634	Enhancement	0.29	634
725164	41.315324	-123.16853	**Kelly Gulch Fisheries and Riparian Habitat Enhancement Phase II Project**- The purpose of this project is to enhance off-channel habitat at the mouth of Kelly Gulch on the North Fork Salmon River by improving connectivity to and enhancing side channels, creating an alcove and an off-channel pond. Phase II is the restoration of the Kelly Gulch river bar, with plans to 1) enhance the river bar overflow channel by installing a large wood apex jam at the inlet; 2) excavate the overflow channel and create an alcove at the outlet; and 3) enhance the most up-river pond on the bar, known as Willow Pond, and the seasonal outlet of the pond.	Temporary	0	0	NA	0	0
				Permanent (stream)	0.0229	1056	Re-establishment	1.4	1056
725165	41.315324	-123.16853	**James Creek Coho Stream Habitat Enhancement Project**- The purpose of this project is to improve the complexity, frequency, and depth of pools in a 4,310 foot reach of James Creek by installing 29 structures containing 91 pieces of large woody debris (LWD).	Temporary	0	0	NA	0	0
				Permanent (stream)	0.339	739	Enhancement	1.98	4310
725168	39.35285	-123.51032	**String Creek Instream Steelhead Habitat**	Temporary	0	0	NA	0	0

Table 2: Individual Direct Impact Information

Site ID	Latitude	Longitude	Project Name and Description	Direct Impact Duration	Fill/Excavation		Area & Length Restored		
					Acres	Linear Feet	Restoration Method	Acres	Linear Feet
			Enhancement Project- The purpose of the project is to improve habitat complexity, and pools within priority North Coast Steelhead recovery habitat. This will be accomplished through installing 11 large woody debris structures along 0.65 miles of String Creek and Tartar Creek.	Permanent (stream)	1.57	3432	Enhancement	1.57	3432
725174	39.47438	-123.27256	**Anderson Creek Habitat Enhancement Project for Coho Recovery Phase III**- The objective of this project is to create 25 instream features consisting of 100 pieces of large woody debris within a 0.9-mile section of Anderson Creek. The addition of these structures will enhance spawning and rearing habitats by providing cover, increasing pool complexity, increasing pool depth and frequency, sorting and collecting spawning gravels, increasing the quality and quantity of rearing habitat within the project reach, and by providing velocity refuge during peak winter flows for juvenile salmonids and migrating adult salmonids.	Temporary	0	0	NA	0	0
				Permanent (stream)	2.18	4752	Enhancement	2.18	4752
725178	34.424964	-119.26105	**Lower San Antonio Creek Arundo Eradication Project**- The project will achieve the removal and ongoing herbicide treatments of 16 acres of invasive Arundo donax (Arundo) along lower San Antonio Creek, a tributary of the Ventura River in Ventura County. Once Arundo has been removed, 10 of the 16 acres will be replanted with native riparian vegetation.	Temporary (riparian)	16	3339	Enhancement	16	3339
				Permanent (riparian)	0	0	NA	0	0
725179	39.933037	-123.91298	**Miller Riparian Restoration Project-** Installation of 19,980 feet of fencing to exclude livestock from stream and riparian	Permanent (riparian)	0.46	19958	Rehabilitation	191	25920

Table 2: Individual Direct Impact Information

Site ID	Latitude	Longitude	Project Name and Description	Direct Impact Duration	Fill/Excavation		Area & Length Restored		
					Acres	Linear Feet	Restoration Method	Acres	Linear Feet
			areas and installation of off-stream livestock watering stations. The project will create 191 acres of livestock-free riparian area, develop control fencing at two existing water trough sites, and develop 5 additional water trough sites.	Permanent (stream)	0.08	480	Rehabilitation	11.9	25920
725182	34.424964	-119.26105	**Anderson Creek Sediment Reduction and Coho Recovery Project Phase 2**- The purpose of the project is to decommission roads and treat sediment sources in the Anderson Creek watershed. The project will Implement 18 site specific road treatments for road decommissioning along 1.33 miles of road, which will prevent sediment from entering Anderson Creek.	Temporary (riparian)	5.96	10824	Rehabilitation	5.96	10824
				Permanent (Stream)			Preservation	4.97	10824
				Temporary (stream)	0.33	600	Rehabilitation	0.33	600
725245	41.541878	-122.37429	**Montague Water Conservation District – Dwinnell Enhancement Project**- This project improves Montague Water Conservation District's (MWCD) Infrastructure to allow for increased release rates from Dwinnell Reservoir to the Shasta River, improve water quality and temperature of water released to the Shasta River below Dwinnell Dam by incorporating cold groundwater and develop a dependable cold water habitat fed by MWCDs seeps.	Temporary	0	0	NA	0	0
				Permanent (stream)	0.01	106	Enhancement	92	200640
725246	40.0539	-123.9614	**Mattole Storage and Forbearance 2017-2020-** This project will restore, improve, and protect juvenile anadromous fish habitat and fish passage through installation of storage tanks totaling 50,000 gallons and placing restrictions on corresponding seasonal water rights to prevent summertime water diversion. The project will improve summer stream flows to provide connectivity between pools.	Temporary	0	0	NA	0	0
				Permanent (riparian)	0.023	35	Enhancement	3.88	8448