## NORTH COAST REGIONAL BOARD

SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	В	Bodega HU, Bodega Harbor HA	11522000				
				Exotic Species		810 Acres	2019
					Source Unknown		
1	R	Bodega HU, Estero Americano HA, Americano Creek	11530000				
				Nutrients		38 Miles	2019
				(SPWs): 115.30010 and 115.	ricano HA, Americano Creek includes the follow 30011. Water Quality Attainment strategy is att jectives, as was done in the Estero de San Anton by NCRWQCB in Dec, 97.	empting to increase volu	untary measures for
					Pasture Grazing-Riparian and/or Upland		
					Range Grazing-Riparian		
					Range Grazing-Upland		
					<b>Intensive Animal Feeding Operations</b>		
					Manure Lagoons		
					Dairies		
1	E	Bodega HU, Estero Americano HA, estuary	11530012				
				Nutrients		199 Acres	2019
				as was done in the Estero de	ategy is attempting to increase voluntary measur San Antonio/Stemple Creek TMDL Water Qualit y Control Board (NCRWQCB) in Dec, 97.		
					Pasture Grazing-Riparian and/or Upland		
					Manure Lagoons		
				Sedimentation/Siltation		199 Acres	2019
				~ .	ategy is attempting to increase voluntary measur San Antonio/Stemple Creek TMDL Water Qualit	· ·	•
					Range Grazing-Riparian		
					Hydromodification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Erosion/Siltation		
					Nonpoint Source		

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1	R	Cape Mendocino HU, Mattole River HA, Mattole River	11230000	Temperature, water		503 Miles	2019
					Range Grazing-Riparian and/or Upland Silviculture Road Construction Habitat Modification Removal of Riparian Vegetation Natural Sources Nonpoint Source		
1	R	Eel River HU, Lower Eel River HA, Eel River Delta	11110000	Sedimentation/Siltation	Range Grazing-Riparian and/or Upland Silviculture Nonpoint Source	426 Miles	2019
				Temperature, water	Removal of Riparian Vegetation Nonpoint Source	426 Miles	2019
1	R	Eel River HU, Middle Fork HA	11170000	<b>Temperature, water</b> USEPA will develop a TMDL	for Eel River, Middle Fork. Removal of Riparian Vegetation Nonpoint Source	1071 Miles	2019

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Eel River HU, Middle Main HA	11140000	Sedimentation/Siltation		674 Miles	2004
					Range Grazing-Riparian Range Grazing-Upland Silviculture Harvesting, Restoration, Residue Manageme Logging Road Construction/Maintenance Construction/Land Development Land Development Hydromodification Habitat Modification Removal of Riparian Vegetation Streambank Modification/Destabilization	nt	
				Temperature, water USEPA has committed to dev	Erosion/Siltation  eloping TMDLs for sediment and temperature for Upstream Impoundment Habitat Modification Removal of Riparian Vegetation Streambank Modification/Destabilization Drainage/Filling Of Wetlands Channel Erosion Erosion/Siltation	<b>674 Miles</b> the Middle Main Eel F	<b>2019</b> River.
1	R	Eel River HU, North Fork HA	11150000	<b>Temperature, water</b> USEPA Will develop a Tempe	rature TMDL for Eel River, North Fork.  Habitat Modification  Removal of Riparian Vegetation  Streambank Modification/Destabilization  Nonpoint Source	382 Miles	2019

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Eel River HU, South Fork HA	11130000	Temperature, water USEPA will develop a temper	Auture TMDL for the Eel River, South Fork.  Hydromodification  Flow Regulation/Modification  Removal of Riparian Vegetation  Erosion/Siltation  Nonpoint Source	943 Miles	2019
1	R	Eel River HU, Upper Main HA (Includes Tomki Creek)	11160000	Temperature, water	for Eel River, Upper Main Fork.  Agriculture-grazing Silviculture Harvesting, Restoration, Residue Management Logging Road Construction/Maintenance Silvicultural Point Sources Construction/Land Development Highway/Road/Bridge Construction Removal of Riparian Vegetation Streambank Modification/Destabilization Erosion/Siltation  for Eel River, Upper Main Fork. Channelization Habitat Modification Removal of Riparian Vegetation Streambank Modification/Destabilization Drainage/Filling Of Wetlands Nonpoint Source	1141 Miles	2019
1	L	Eel River HU, Upper Main HA, Lake Pillsbury HSA, Lake Pillsbury	11163000	Mercury	Natural Sources	1973 Acres	2019

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Eureka Plain HU, Elk River	11000000				
				Sedimentation/Siltation		88 Miles	2019
				110.00032, and 110.00042. See domestic supply water quality,	r, includes the following Calwater Plannin dimentation, threat of sedimentation, impa impaired spawning habitat, increased rate and California Department of forestry stag tules.	ired irrigation water quality and depth of flooding due to	e, impaired o sediment,
					Silviculture		
					Harvesting, Restoration, Residue Mana	gement	
					Logging Road Construction/Maintenan	ce	
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization	on	
					Erosion/Siltation		
					Natural Sources		
					Nonpoint Source		
1	R	Eureka Plain HU, Freshwater Creek	11000000				
				Sedimentation/Siltation		84 Miles	2019
				110.00012, 110.00014, 110.000 quality, impaired domestic supp	uter Creek, includes the following Calwater 040, and 110.00050. Sedimentation, threas oly water quality, impaired spawning habit CRWQCB and California Department of fo ctice Rules.	t of sedimentation, impaired at, increased rate and depth	irrigation water of flooding due to
					Silviculture		
					Harvesting, Restoration, Residue Mana	gement	
					Logging Road Construction/Maintenan	ce	
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization	on	
					Erosion/Siltation		
					Natural Sources		
					Nonpoint Source		
1	В	Eureka Plain HU, Humboldt Bay	11000000	PCBs (Polychlorinated bipheny) This listing was made by USEP	<i>'</i>	16075 Acres	2019
					Source Chimiown		

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Eureka Plain HU, Jacoby Creek watershed	11000000				
				Sediment		19 Miles	2019
				and 110.00013. The beneficion	y Creek watershed includes the following Calwate al uses of Jacoby Creek appear to be threatened. reek, and this decline appears to be correlated wi	Specifically, records sh	
					Silviculture		
					Road Construction		
					Land Development		
					Disturbed Sites (Land Develop.)		
					Urban Runoff/Storm Sewers		
					Hydromodification		
					Channelization		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Drainage/Filling Of Wetlands		
					<b>Channel Erosion</b>		
					Erosion/Siltation		
					<b>Sediment Resuspension</b>		
					Natural Sources		
					Nonpoint Source		
1	R	Klamath River HU, Butte Valley HA	10580000				
		•		Nutrients		253 Miles	2019
				Section 303(d) of the Federal	rce to mouth, is listed as water quality impaired (l Clean Water Act. In 1992 the California State W	Vater Quality Control B	9

The Klamath River, from source to mouth, is listed as water quality impaired (by both Oregon and California) under Section 303(d) of the Federal Clean Water Act. In 1992 the California State Water Quality Control Board (SWQCB) proposed that the Klamath River be listed for both temperature and nutrients, requiring the development of Total Maximum Daily Load (TMDL) limits and implementation plans. The United States Environmental Protection Agency (USEPA) and the NCRWQCB accepted this action in 1993. The basis for listing the Klamath River as impaired was aquatic habitat degradation due to excessively warm water temperatures and algae blooms associated with high nutrient loads, water impoundments, and agricultural water diversions.

Nonpoint Source

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Temperature, water		253 Miles	2019
				Section 303(d) of the Federal temperature and nutrients, recplans. The United States Env. The basis for listing the Klam	Clean Water Act. In 1992 the SWQ quiring the development of Total Ma ironmental Protection Agency (USE ath River as impaired was aquatic h	ty impaired (by both Oregon and Ca CB proposed that the Klamath River eximum Daily Load (TMDL) limits an PA) and the NCRWQCB accepted the eabitat degradation due to excessively ds, water impoundments, and agricul	be listed for both ad implementation is action in 1993. y warm water
					Nonpoint Source		
1	R	Klamath River HU, Lost River HA, Tule Lake and Mt Dome HSAs	10590000				
				Nutrients		612 Miles	2006
				State Water Quality Control E nutrients, requiring the develo United States Environmental for listing the Klamath River of	Board (SWQCB) proposed that the Kopment of Total Maximum Daily Loa Protection Agency (USEPA) and the Is impaired was aquatic habitat deg with high nutrient loads, water impo	of the Federal Clean Water Act. In 1 Clamath River be listed for both temp ad (TMDL) limits and implementation on NCRWQCB accepted this action in tradation due to excessively warm we coundments, and agricultural water di	erature and n plans. The 1993. The basis nter temperatures
					Agriculture		
					Specialty Crop Production		
					Agriculture-subsurface drainag		
					Agriculture-irrigation tailwater		
					Agricultural Return Flows		
					Water Diversions		
					Agricultural Water Diversion Habitat Modification		
					Removal of Riparian Vegetation	•	
					Drainage/Filling Of Wetlands	1	
					Natural Sources		
					- invariat Dout Cop		

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Klamath River HU, Lower HA, Klamath Glen HSA	10511000				
				Nutrients		609 Miles	2006
					icipal wastewater discharge, industrial facilities, ste are significant sources of nutrient loads to the	*	
					<b>Industrial Point Sources</b>		
					Major Industrial Point Source		
					Minor Industrial Point Source		
					<b>Municipal Point Sources</b>		
					Major Municipal Point Source-dry and/or weather discharge	vet	
					Minor Municipal Point Source-dry and/or weather discharge	vet	
					Agriculture		
					Irrigated Crop Production		
					<b>Specialty Crop Production</b>		
					Pasture Grazing-Riparian and/or Upland		
					Range Grazing-Riparian		
					<b>Intensive Animal Feeding Operations</b>		
					Agriculture-storm runoff		
					Agriculture-subsurface drainage		

Agriculture-irrigation tailwater

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Organic Enrichment/Low Diss	solved Oxygen	609 Miles	2006
				cipal wastewater discharge, industrial facilitie te are significant sources of organic enrichmer		
				Industrial Point Sources		
				<b>Municipal Point Sources</b>		
				Agriculture		
				Irrigated Crop Production		
				Specialty Crop Production		
				Range Grazing-Riparian		
				Agriculture-storm runoff		
				Agriculture-subsurface drainage		
				Agriculture-irrigation tailwater		
				Agriculture-animal		
				Upstream Impoundment		
				Flow Regulation/Modification		
				Out-of-state source		
			Temperature, water		609 Miles	2006
			Flow regulation and diversion bottom, all contribute to eleva	n, coupled with reduced riparian vegetative content of the content	ver and darker material o	n the channel
				Hydromodification		
				Dam Construction		
				Upstream Impoundment		
				Flow Regulation/Modification		
				Water Diversions		
				Habitat Modification		
				Removal of Riparian Vegetation		
				Channel Erosion		
	nmath River HU, Middle HA, Iron Gate m to Scott River	10530000				
Dun			Nutrients		548 Miles	2006

The Klamath River HU, Middle HA, Iron Gate Dam to Scott River includes the following Hydrologic Sub Areas (HSAs): Beaver Creek HSA 105.35 and Hornbrook HSA 105.36. The Klamath River, from source to mouth, is listed as water quality impaired by both Oregon and California.

Out-of-state source

Nonpoint/Point Source

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDI COMPLETION
			Organic Enrichment/Low Diss	solved Oxygen	548 Miles	2006
			Beaver Creek HSA 105.35 and	le HA, Iron Gate Dam to Scott River incli d Hornbrook HSA 105.36. The impairme tates Fish and Wildlife Service Report.	, , ,	' '
				Out-of-state source		
				Nonpoint/Point Source		
			Temperature, water		548 Miles	2006
			The Klamath River HU, Midd Beaver Creek HSA 105.35 and	le HA, Iron Gate Dam to Scott River incli d Hornbrook HSA 105.36.	udes the following Hydrologic	Sub Areas (HSAs) :
				Hydromodification		
				Upstream Impoundment		
				Flow Regulation/Modification		
				Habitat Modification		
				Removal of Riparian Vegetation		
				Nonpoint Source		
1 R Klam Iron	nath River HU, Middle HA, Oregon to Gate	10530000				
			Nutrients		129 Miles	2006
			The Klamath River HU, Midd Iron Gate HSA 115.37 and Co	le HA, Oregon to Iron Gate Dam include. opco HSA 105.38.	s the following Hydrologic Sub	Areas (HSAs):
				Industrial Point Sources		
				<b>Municipal Point Sources</b>		
				Agriculture		
				<b>Specialty Crop Production</b>		
				Agricultural Return Flows		
				Internal Nutrient Cycling (primarily	lakes)	
				internal Nutrient Cyching (primarny	iakes)	

Nonpoint Source

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Organic Enrichment/Low Dis	solved Oxygen	129 Miles	2006
			The Klamath River HU, Midd Iron Gate HSA 115.37 and C	lle HA, Oregon to Iron Gate Dam includes the opco HSA 105.38.	following Hydrologic Sub	Areas (HSAs):
				<b>Industrial Point Sources</b>		
				<b>Municipal Point Sources</b>		
				Agriculture		
				Irrigated Crop Production		
				<b>Specialty Crop Production</b>		
				Range Grazing-Riparian and/or Upland		
				Agriculture-storm runoff		
				Agriculture-subsurface drainage		
				Agriculture-irrigation tailwater		
				Agriculture-animal		
				Upstream Impoundment		
				Flow Regulation/Modification		
				Out-of-state source		
			Temperature, water		129 Miles	2006
			The Klamath River HU, Midd Iron Gate HSA 115.37 and Co	lle HA, Oregon to Iron Gate Dam includes the opco HSA 105.38.	following Hydrologic Sub	Areas (HSAs):
				Hydromodification		
				Upstream Impoundment		
				Flow Regulation/Modification		
				Nonpoint Source		

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REGION	TVPF	. NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
	R			TOLLUTANI/STRESSOR	SOURCES	SIZE AFFECTED	COMPLETION
1	K	Klamath River HU, Middle HA, Scott River to Trinity River	10500000				
		·		Nutrients		1389 Miles	2006
					dle HA, Scott River to Trinity River incl om HSA 105.31, Happy Camp HSA 105.	0 0	'
					<b>Industrial Point Sources</b>		
					<b>Municipal Point Sources</b>		
					Agriculture		
					Agriculture-storm runoff		
					Agriculture-irrigation tailwater		
					Wastewater - land disposal		
					Upstream Impoundment		
					Natural Sources		
					Nonpoint Source		
					Out-of-state source		
				Organic Enrichment/Low Dis	ssolved Oxygen	1389 Miles	2006
					dle HA, Scott River to Trinity River incl om HSA 105.31, Happy Camp HSA 105. Industrial Point Sources	0 0 5	' '
					<b>Municipal Point Sources</b>		
					<b>Combined Sewer Overflow</b>		
					Agriculture		
					Agriculture-storm runoff		
					Agriculture-irrigation tailwater		
					Upstream Impoundment		
					Flow Regulation/Modification		

Out-of-state source

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Temperature, water		1389 Miles	2006
			The Klamath River HU, Midd	lle HA, Scott River to Trinity River includes the m HSA 105.31, Happy Camp HSA 105.32, and Hydromodification Channelization Dam Construction Upstream Impoundment Flow Regulation/Modification Water Diversions Habitat Modification Removal of Riparian Vegetation Streambank Modification/Destabilization Drainage/Filling Of Wetlands	following Hydrologic Sul	b Areas (HSAs) :
				Natural Sources		
				Nonpoint Source		
1 R KI	amath River HU, Shasta River HA	10550000	Organic Enrichment/Low Dis	solved Oxygen	630 Miles	0000
				Minor Municipal Point Source-dry and/or weather discharge	· wet	
				Agriculture-storm runoff		
				Agriculture-irrigation tailwater		
				Dairies		
				Hydromodification		
				Dam Construction		
				Flow Regulation/Modification		
				Habitat Modification		
			Temperature, water		630 Miles	0000
				Agriculture-irrigation tailwater Flow Regulation/Modification		
				Habitat Modification		
				Removal of Riparian Vegetation		
				<b>Drainage/Filling Of Wetlands</b>		

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			CALWATER		POTENTIAL	ESTIMATED	PROPOSED TMDL
REGION	TYPE	NAME	WATERSHED	POLLUTANT/STRESSOR	SOURCES	SIZE AFFECTED	COMPLETION
1	L	Klamath River HU, Tule Lake and Lower Klamath Lake National Wildlife Refuge	10590000				
		5		pH (high)		26998 Acres	2006
				Planning Watersheds (PWS): 105.92020. The pH of surface effects on biological systems. high pH levels can increase th Photosynthetic activity of algo	Lake and Lower Klamath Lake National Wildlig Lower Klamath Lake National Wildlife Refuge water can influence the toxicity of dissolved n High pH levels influence ammonia concentrat ne solubility of minerals and metals, which can ne effects carbonate cycling, which influences p I Wildlife Refuge are likely due to photosynthe. Internal Nutrient Cycling (primarily lakes Nonpoint Source	e PWS 105.91020 and Tul naterials resulting in syner ions which can be toxic to effect fish and other aqua oH. Elevated pH levels in tic activity of algae.	e Lake PWS gistic and direct fish. In addition, tic organisms.
1	R	Mad River HU, Mad River	10900000				
		,		Sedimentation/Siltation		654 Miles	2019
				1 0	or the Mad River. Sediment TMDLS will be de (North Fork), (2) the mad River (Upper), and (		•
					Silviculture		
					Resource Extraction		
					Nonpoint Source		
				Temperature, water		654 Miles	2019
	Temperature, water  Recent (1997-2000) temperature data collected on the mainstem of the Mad River indicated may be a source of impairment of cold water fisheries in the river. Data were available two years of record at most locations. MWAT values at all of the 11 locations exceeded available temperature criteria for sub-lethal effects (reduced growth) on juvenile salmon maximum temperatures at most of the 11 locations in most years are higher than 24°C.  Upstream Impoundment				re available from 11 locat ns exceeded 20°C, and are enile salmonids. Records	ions, with at least c higher than any	
					Flow Regulation/Modification		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Nonpoint Source		
					Unknown Nonpoint Source		
				<b>Turbidity</b> Turbidity TMDLs will be deve River (Upper), and (3) the Ma	cloped for the area tributary to and including: and River (Middle).	654 Miles (1) the Mad River (North 1	<b>2019</b> Fork), (2) the Mad
					Silviculture		
					Resource Extraction		
					Nonpoint Source		

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1	R	Mendocino Coast HU, Albion River HA, Albion River	11340000	Temperature, water		91 Miles	2019
					Source Unknown		
1	R	Mendocino Coast HU, Big River HA, Big River	11330000				
				Temperature, water		225 Miles	2019
				municipal and domestic supp a threatened species under th Big River are extremely low o River watershed indicate that	uses supported by the Big River include uses as by. The Big River provides habitat for coho sahe e federal Endangered Species Act. Populations ompared to historical levels.Recent (1996-2000 high temperature levels may be a source of impared of the watershed from the confluence with a ig and the North Fork Big.	non and steelhead trout, s of coho salmon and stee t) temperature data gath pairment of cold water fis	which are listed as lhead trout in the ered in the Big sheries in the river.
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Drainage/Filling Of Wetlands		
					Erosion/Siltation		
					Nonpoint Source		
1	R	Mendocino Coast HU, Garcia River HA, Garcia River	11370000				
				Temperature, water		154 Miles	2019
				Elevated temperatures impacting coldwater fisheries in these reaches and sub_areas: Planning Units 113.70010 (Pardaloe Creek), 113.70011, 12, 13, 14, 20, 21 and the entire mainstem Garcia River from Pardaloe Creek to the estuary, which includes that portion of 113.70022, 23, 24, 25, and 26. February 2002- The Garcia River TMDL for sediment has been adopted by NCRWQCB and approved by SWRCB and Office of Administrative Law. It is possible that voluntary compliance with measures in this TMDL will improve conditions related to temperature prior to development of a TMDL for temperature.  Habitat Modification  Removal of Riparian Vegetation			
					Streambank Modification/Destabilization		
					Nonpoint Source		

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1	R	Mendocino Coast HU, Gualala River HA, Gualala River	11380000				
				Temperature, water		455 Miles	2019
				be a source of impairment of below threshold levels and ap	ure data collected in the Gualala River watersh cold water fisheries in the watershed. Tempera pear to exhibit properly functioning conditions pperature, with the exception of the Little North	tures in the Little North I with respect to stream te	Fork are generally
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Channel Erosion		
					Erosion/Siltation		
					Nonpoint Source		
1	R	Mendocino Coast HU, Navarro River HA	11350000				
				Temperature, water		415 Miles	2019
					en developed for: (1) the area tributary to and a and including the Navarro River below Philo.	including the Navarro Ri	iver above Philo
					Agriculture		
					Agricultural Return Flows		
					Resource Extraction		
					Flow Regulation/Modification		
					Water Diversions		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Drainage/Filling Of Wetlands		
					Nonpoint Source		
1	R	Mendocino Coast HU, Noyo River HA, Noyo River	11320000				
				Temperature, water		144 Miles	2019
				confluence of Duffy Gulch do		h;The South Fork No	yo River mainstem
					Source Unknown		

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Mendocino Coast HU, Noyo River HA, Pudding Creek	11320050	Temperature, water	Source Unknown	24 Miles	2019
1	R	Mendocino Coast HU, Rockport HA, Ten Mile River HSA	11310000	Temperature, water	Habitat Modification Removal of Riparian Vegetation Streambank Modification/Destabilization	162 Miles	2019
					Nonpoint Source		
1	R	Redwood Creek HU, Redwood Creek	10700000		ure data collected in the Redwood Creek watersh at of cold water fisheries in the river. Logging Road Construction/Maintenance Removal of Riparian Vegetation Streambank Modification/Destabilization Erosion/Siltation Natural Sources Nonpoint Source	332 Miles ned indicate that high te	<b>2019</b> mperature levels
1	R	Russian River HU, Lower Russian River HA, Austin Creek HSA	11412000	Sedimentation/Siltation  Sediment impacts in Russian	River tributaries prompted listing entire Russian Silviculture Construction/Land Development Disturbed Sites (Land Develop.) Dam Construction Flow Regulation/Modification Erosion/Siltation	<b>81 Miles</b> River watershed for sea	<b>2019</b> liment.

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Temperature, water		81 Miles	2019
				municipal and domestic supplicated as a threatened species	uses supported by the Russian River include uses ly. The Russian River provides habitat for coho s under the federal Endangered Species Act.Recen d indicate that high temperature levels may be a	almon and steelhead tr t (1997-2000) temperat	out, which are ure data collected
					Hydromodification		
					Flow Regulation/Modification		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Nonpoint Source		
1		Russian River HU, Lower Russian River HA, Guerneville HSA	11411000				
				Pathogens		195 Miles	2008
				0 5	Rio area of this watershed from the confluence of Temorial Beach from the Hwy 101 crossing to the	v .	0 0
					Nonpoint/Point Source		
				pН		195 Miles	2019
				Listing only applies to Pocket	Canyon Creek, a tributary to the lower Russian	River within the greate	r Guerneville HSA.
					Source Unknown		

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				SWRCB DRAFT 303(d) L	IST RELEASE DATE:	SEPTEMBER 15, 2000
REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Sedimentation/Siltation		195 Miles	2019
			Sediment impacts in Russian	River tributaries prompted listing entire Russian	n River watershed for sea	liment .
				Agriculture		
				Irrigated Crop Production		
				Specialty Crop Production		
				Agriculture-storm runoff		
				Agriculture-grazing		
				Silviculture		
				Construction/Land Development		
				Highway/Road/Bridge Construction		
				Land Development		
				Hydromodification		
				Channelization		
				Dam Construction		
				Upstream Impoundment		
				Flow Regulation/Modification		
				Habitat Modification		
				Removal of Riparian Vegetation		
				Streambank Modification/Destabilization		
				Drainage/Filling Of Wetlands		
				Channel Erosion		
				Erosion/Siltation		
			Temperature, water		195 Miles	2019
			municipal and domestic supp listed as a threatened species	uses supported by the Russian River include use ly. The Russian River provides habitat for coho under the federal Endangered Species Act.Rece ed indicate that high temperature levels may be	salmon and steelhead tr ent (1997-2000) temperat	out, which are ure data collected
				Hydromodification		
				Upstream Impoundment		
				Flow Regulation/Modification		
				Habitat Modification		
				Removal of Riparian Vegetation		
				Streambank Modification/Destabilization		
				Nonpoint Source		

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## NORTH COAST REGIONAL BOARD

### SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION		
1	R	Russian River HU, Middle Russian River HA, Big Sulphur Creek HSA	11426000						
				Sedimentation/Siltation		85 Miles	2019		
				Sediment impacts in Russian	River tributaries prompted listing entire Russian Geothermal Development	River watershed for sea	liment .		
					Erosion/Siltation				
					Nonpoint Source				
				Specific Conductivity		85 Miles	2019		
					Source Unknown				
				Temperature, water		85 Miles	2019		
				The most sensitive beneficial uses supported by the Russian River include uses associated with the cold water fishery and municipal and domestic supply. The Russian River provides habitat for coho salmon and steelhead trout, which are listed as a threatened species under the federal Endangered Species Act.Recent (1997-2000) temperature data collected in the Russian River watershed indicate that high temperature levels may be a source of impairment of cold water fisheries in the watershed.					
					Flow Regulation/Modification				
					Habitat Modification				
					Removal of Riparian Vegetation				
					Nonpoint Source				

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## NORTH COAST REGIONAL BOARD

### SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

					5 11 11 0 5 E 12 11 1 0 0 0 (u)	) DIGT REDELIGE DITTER	DEI TEMEDER 10, 200
REG	ON TYPI	E NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Russian River HU, Middle Russian River HA, Geyserville HSA	11425000				
				Sedimentation/Siltation		242 Miles	2019
				Sediment impacts in Russian	River tributaries prompted listing entire Russ Agriculture	sian River watershed for sed	!iment TMDL.
					Nonirrigated Crop Production		
					Irrigated Crop Production		
					Specialty Crop Production		
					Range Grazing-Riparian		
					Range Grazing-Upland		
					Agriculture-storm runoff		
					Agriculture-grazing		
					Silviculture		
					Construction/Land Development		
					Geothermal Development		
					Disturbed Sites (Land Develop.)		
					Surface Runoff		
					Resource Extraction		
					Channelization		
					Bridge Construction		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization	n	
					Drainage/Filling Of Wetlands		
					Channel Erosion		
					Erosion/Siltation		
					Natural Sources		

**Nonpoint Source** 

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## NORTH COAST REGIONAL BOARD

SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

96 Miles

2019

REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Temperature, water		242 Miles	2019
				municipal and domestic supplicated as a threatened species	uses supported by the Russian River include to ly. The Russian River provides habitat for co under the federal Endangered Species Act.Ro ed indicate that high temperature levels may b	ho salmon and steelhead tro ecent (1997-2000) temperat	out, which are ure data collected
					Flow Regulation/Modification		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Nonpoint Source		
1	R	Russian River HU, Middle Russian River HA, Laguna de Santa Rosa	11421000				
		, 3		Low Dissolved Oxygen		96 Miles	2008
				(DO) concentrations. A TML concluded that high ammonia various forms. Low dissolved stimulate algal growth and su TMDL took the form of a Was and non-point sources. With Waste Water Treatment Plant inputs to the Laguna were sig nitrogen-ammonia interim co ammonia and dissolved oxyg the Laguna continue to fall be cases fluctuate significantly of may contribute to the dissolve certain. While elevated phosy Laguna measurements, indica	as added to the 303(d) List in 1990 for high la DL was completed for the Laguna for ammonia levels in the Laguna were the result of point a loxygen concentrations were a result of inputabsequently cause depressed dissolved oxygen at Reduction Strategy (WRS) which addresse the implementation of the WRS and operation as well as improvements in waste storage an inficantly reduced. Following implementation accentration goals, as stated in the WRS, the Levis in 1998, pursuant to a recommendation by gelow the Regional Water Board Basin Plan mand adily and seasonal basis. Based on availed oxygen fluctuations. However, the cause of phorus levels may contribute to low DO, nitroute that nitrogen may be the macronutrient coboth nitrogen and phosphorus) and dissolved Internal Nutrient Cycling (primarily lak	a and dissolved oxygen in 19 and non-point source nitro at so forganic matter and nut a levels when the algae dies of the reduction of nitrogen and improvements at the City and disposal activities at loca on of the WRS and the subsect aguna was removed from the US EPA. However, dissolved information, it appears of the low dissolved oxygen logen to phosphorus ratios, but to ling plant growth in the oxygen is necessary for was	gen inputs of rients which and decays. The loading from point of Santa Rosa I dairies, nitrogen quent attainment of the 303(d) List for eed oxygen levels in mg/L and in many is that phosphorus evels is not based on recent e Laguna. A
					Nonpoint Source	CS)	
					140Hpoint Source		

Mercury

Source Unknown

**Point Source** 

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## NORTH COAST REGIONAL BOARD

### SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Nitrogen		96 Miles	2019
			This listing was made by US			
				Internal Nutrient Cycling (primarily lakes)		
				Nonpoint Source		
				Point Source		
			Phosphorus		96 Miles	2019
			This listing was made by US.			
				Internal Nutrient Cycling (primarily lakes)		
				Nonpoint Source		
				Point Source		
			Sedimentation/Siltation		96 Miles	2019
			Entire Russian River watersl	hed (including Laguna de Santa Rosa) is listed for Road Construction	sedimentation.	
				Land Development		
				Disturbed Sites (Land Develop.)		
				Urban Runoff/Storm Sewers		
				Other Urban Runoff		
				Highway/Road/Bridge Runoff		
				Hydromodification		
				Channelization		
				Removal of Riparian Vegetation		
				Streambank Modification/Destabilization		
				Drainage/Filling Of Wetlands		
				Channel Erosion		
				Erosion/Siltation		
				Erosion From Derelict Land		
				Highway Maintenance and Runoff		
				Nonpoint Source		
				•		

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## NORTH COAST REGIONAL BOARD

### SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Temperature, water		96 Miles	2008
			beneficial uses supported by a domestic supply. The Russian threatened species under the	ed (including Laguna de Santa Rosa), the Russian River include uses associ a River provides habitat for coho salt federal Endangered Species Act. Rece cate that high temperature levels may  Hydromodification  Upstream Impoundment  Removal of Riparian Vegetation  Streambank Modification/Destal	ated with the cold water fishery and mon and steelhead trout, which are ent (1997-2000) temperature data c y be a source of impairment of cold	d municipal and listed as a ollected in the
				Nonpoint Source		

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## NORTH COAST REGIONAL BOARD

### SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

					SWRCD DRAFT 303(u) LI	SI RELEASE DATE:	SEF TEMBER 13, 200
REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Russian River HU, Middle Russian River HA, Mark West Creek HSA	11423000				
		,		Sedimentation/Siltation		99 Miles	2019
				Russian River Watershed trib	butary sediment impairments led to listing of entir	e watershed for sedimen	t.
					Agriculture		
					Irrigated Crop Production		
					Specialty Crop Production		
					Range Grazing-Riparian and/or Upland		
					Range Grazing-Riparian		
					Intensive Animal Feeding Operations		
					Agriculture-storm runoff		
					Agriculture-grazing		
					Silviculture		
					Harvesting, Restoration, Residue Managem	ent	
					Construction/Land Development		
					Highway/Road/Bridge Construction		
					Land Development		
					Disturbed Sites (Land Develop.)		
					Other Urban Runoff		
					Surface Runoff		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Drainage/Filling Of Wetlands		
					Channel Erosion		

**Erosion/Siltation** 

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## NORTH COAST REGIONAL BOARD

### SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

REGION TYPI	E NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Temperature, water		99 Miles	2019
			municipal and domestic suppl listed as a threatened species	uses supported by the Russian River include use y. The Russian River provides habitat for coho under the federal Endangered Species Act.Rece d indicate that high temperature levels may be Hydromodification	salmon and steelhead tr ent (1997-2000) tempera	out, which are ture data collected
				Upstream Impoundment		
				Flow Regulation/Modification		
				Habitat Modification		
				Removal of Riparian Vegetation		
				Streambank Modification/Destabilization		
				Nonpoint Source		
1 R	Russian River HU, Middle Russian River HA, Santa Rosa Creek	11422000	Pathogens		87 Miles	2008
				Nonpoint Source		

**Point Source** 

## NORTH COAST REGIONAL BOARD

#### SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

				SWRCB DRAFT 303(d) LI	ST RELEASE DATE:	SEPTEMBER 15, 2006
REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Sedimentation/Siltation		87 Miles	2019
			Entire Russian River watersh	ed (including Santa Rosa Creek) is listed for sedi	mentation.	
				Agriculture		
				Nonirrigated Crop Production		
				Irrigated Crop Production		
				Specialty Crop Production		
				Pasture Grazing-Riparian and/or Upland		
				Range Grazing-Riparian		
				Range Grazing-Upland		
				Dairies		
				Construction/Land Development		
				Highway/Road/Bridge Construction		
				Land Development		
				Urban Runoff/Storm Sewers		
				Urban RunoffNon-industrial Permitted		
				Other Urban Runoff		
				Surface Runoff		
				Hydromodification		
				Channelization		
				Bridge Construction		
				Habitat Modification		
				Removal of Riparian Vegetation		
				Streambank Modification/Destabilization		
				Drainage/Filling Of Wetlands		
				Channel Erosion		
				Erosion/Siltation		
				Natural Sources		
				Nonpoint Source		
				•		

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SWRCB DRAFT 303(d) LIST RELEASE DATE: SEPTEMBER 15, 2006

REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Temperature, water		87 Miles	2019
				Entire Russian River watersh	ed (including Santa Rosa Creek) is listed for temp Hydromodification	perature.	
					Upstream Impoundment		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Nonpoint Source		
1	R	Russian River HU, Middle Russian River	11424000		•		
		HA, Warm Springs HSA		Sedimentation/Siltation		255 Miles	2019
					River tributaries prompted listing entire Russian.		
				*	Agriculture	,	
					Agriculture-storm runoff		
					Silviculture		
					Logging Road Construction/Maintenance		
					Construction/Land Development		
					Highway/Road/Bridge Construction		
					Disturbed Sites (Land Develop.)		
					Hydromodification		
					Channelization		
					Dam Construction		
					Upstream Impoundment		
					Flow Regulation/Modification		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Drainage/Filling Of Wetlands		
					Channel Erosion		
					Erosion/Siltation		
					Nonpoint Source		

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REGION TYPI	E NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Temperature, water		255 Miles	2019
			municipal and domestic suppl listed as a threatened species	uses supported by the Russian River include use y. The Russian River provides habitat for coho under the federal Endangered Species Act.Rece d indicate that high temperature levels may be d	salmon and steelhead tr nt (1997-2000) temperat	out, which are ture data collected
				Hydromodification		
				Upstream Impoundment		
				Flow Regulation/Modification		
				Habitat Modification		
				Removal of Riparian Vegetation		
				Streambank Modification/Destabilization		
				Nonpoint Source		
1 L	Russian River HU, Middle Russian River HA, Warm Springs HSA, Lake Sonoma [Reservoir]	11424000				
			Mercury		<b>2377 Acres</b>	2019
				e Russian River HA, Warm Springs HSA, Lake S ls (PWS):  114.24022, 114.24030 and 114.2403		udes the following
				Resource Extraction		
				Nonpoint Source		

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Russian River HU, Upper Russian River HA, Coyote Valley HSA	11432000				
		ira, coyote vancy risk		Sedimentation/Siltation		171 Miles	2019
				Russian River Watershed trib	utary sediment impairments led to listing of enti	re watershed for sedime	nt.
					Agriculture		
					Silviculture		
					Construction/Land Development		
					Hydromodification		
					Channelization		
					<b>Dam Construction</b>		
					Flow Regulation/Modification		
					Bridge Construction		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Drainage/Filling Of Wetlands		
					Channel Erosion		
					Erosion/Siltation		
				Temperature, water		171 Miles	2019
				municipal and domestic supp listed as a threatened species	uses supported by the Russian River include use ly. The Russian River provides habitat for coho under the federal Endangered Species Act.Rece ed indicate that high temperature levels may be o	salmon and steelhead tr nt (1997-2000) temperat	out, which are ure data collected
					Hydromodification		
					Upstream Impoundment		
					Flow Regulation/Modification		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Nonpoint Source		

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	L	Russian River HU, Upper Russian River HA, Coyote Valley HSA, Lake Mendocino [Reservoir]	11432060				
				Mercury		1704 Acres	2019
					Resource Extraction		
					Nonpoint Source		
1	R	Russian River HU, Upper Russian River HA, Forsythe Creek HSA	11433000				
				Sedimentation/Siltation		122 Miles	2019
				Russian River Watershed trib	utary sediment impairments led to listing of e	entire watershed for sedimen	nt.
					Erosion/Siltation		
				TD	Nonpoint Source	100 350	2010
				Temperature, water	uses supported by the Russian River include	122 Miles	2019
				municipal and domestic supp listed as a threatened species	uses supported by the Russian River included by. The Russian River provides habitat for co- under the federal Endangered Species Act.R and indicate that high temperature levels may to	oho salmon and steelhead tr ecent (1997-2000) temperat	out, which are ure data collected
					Hydromodification		
					Upstream Impoundment		
					Flow Regulation/Modification		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization	n	
					Nonpoint Source		

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Russian River HU, Upper Russian River HA, Ukiah HSA	11431000				
		,		Sedimentation/Siltation		460 Miles	2019
				Russian River Watershed trib	utary sediment impairments led to listing of enti Agriculture	re watershed for sedimer	nt.
					Silviculture		
					Construction/Land Development		
					Resource Extraction		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Drainage/Filling Of Wetlands		
					Channel Erosion		
					Erosion/Siltation		
					<b>Highway Maintenance and Runoff</b>		
					Natural Sources		
				Temperature, water		460 Miles	2019
				municipal and domestic supp listed as a threatened species	uses supported by the Russian River include use ly. The Russian River provides habitat for coho under the federal Endangered Species Act.Rece ed indicate that high temperature levels may be o	salmon and steelhead tro nt (1997-2000) temperat	out, which are ure data collected
				,	Hydromodification		
					Upstream Impoundment		
					Flow Regulation/Modification		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
					Nonpoint Source		
1	L	Trinity Lake (was Claire Engle Lake)	10640000	Mercury		15985 Acres	2019
					Source Unknown		

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REGION	ТҮРЕ	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
1	R	Trinity River HU, South Fork HA	10620000				
				Temperature, water		<b>1161</b> Miles	2019
				Elevated temperatures impac River.	t coldwater fisheries. USEPA will be developing	temperature TMDL for	South Fork Trinity
					Range Grazing-Riparian		
					Water Diversions		
					Habitat Modification		
					Removal of Riparian Vegetation		
					Streambank Modification/Destabilization		
1	R	Trinity River HU, Upper HA, Trinity River, East Fork	10640000				
				Mercury		92 Miles	2019
				*	HA, Trinity River, East Fork includes the followin 106.40030 and Blue Ridge SPW 106.40040. Source Unknown	ng Calwater Super Plan	nning Watersheds

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		CALWATER		POTENTIAL	ESTIMATED	PROPOSED TMDL
REGION TYPE	NAME	WATERSHED	POLLUTANT/STRESSOR	SOURCES	SIZE AFFECTED	COMPLETION

#### **ABBREVIATIONS** REGIONAL WATER QUALITY CONTROL BOARDS WATER BODY TYPE North Coast 1 B = Bays and Harbors 2 San Francisco Bay C = Coastal Shorelines/Beaches **Central Coast** Estuaries Los Angeles L = Lakes/Reserviors R = Rivers and Streams Central Valley Saline Lakes Lahontan Wetlands, Tidal Colorado River Basin Wetlands, Freshwater Santa Ana

### **CALWATER WATERSHED**

San Diego

### **GROUP A PESTICIDES OR CHEM A**

aldrin, dieldrin, chlordane, endrin, heptachlor, heptachlor epoxide, hexachlorocyclohexane (including lindane), endosulfan, and toxaphene

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<sup>&</sup>quot;Calwater Watershed" is the State Water Resources Control Board hydrological subunit area or an even smaller area delineation.