

2002 CWA SECTION 303(d) LIST OF WATER QUALITY LIMITED SEGMENT

*Approved by USEPA:
July 2003*

SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Alameda Creek	20430051	Diazinon <i>This listing was made by USEPA.</i>		High	51 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Alamitos Creek	20540041	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		Medium	7.1 Miles	
Mine Tailings								
2	R	Arroyo Corte Madera Del Presidio	20320020	Diazinon <i>This listing was made by USEPA.</i>		High	4 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Arroyo De La Laguna	20430084	Diazinon <i>This listing was made by USEPA.</i>		High	7.4 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Arroyo Del Valle	20430023	Diazinon <i>This listing was made by USEPA.</i>		High	31 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Arroyo Las Positas	20430080	Diazinon		High	14 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Arroyo Mocho	20430080	Diazinon		High	34 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Butano Creek	20240031	Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>		Medium	3.6 Miles	
Nonpoint Source								
2	R	Calabazas Creek	20640012	Diazinon <i>This listing was made by USEPA.</i>		High	4.7 Miles	2004
Urban Runoff/Storm Sewers								

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2	L	Calero Reservoir	20540031	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>	Surface Mining Mine Tailings	Medium	334 Acres	
2	E	Carquinez Strait	20710020	Chlordane <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	5657 Acres	
				DDT	Nonpoint Source	Low	5657 Acres	
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>	Nonpoint Source	Low	5657 Acres	
				Dieldrin <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	5657 Acres	
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>	Atmospheric Deposition	Low	5657 Acres	
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>	Ballast Water	Medium	5657 Acres	
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Atmospheric Deposition	Low	5657 Acres	

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				Mercury		High	5657 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources Municipal Point Sources Resource Extraction Atmospheric Deposition Natural Sources Nonpoint Source				
				PCBs		High	5657 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	5657 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
				Selenium		Low	5657 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources Agriculture				
2	E	Castro Cove, Richmond (San Pablo Basin)	20660014	Dieldrin (sediment)		Low	71 Acres	
				Urban Runoff/Storm Sewers Point Source				
				Mercury (sediment)		Low	71 Acres	
				Urban Runoff/Storm Sewers Point Source				
				PAHs (sediment)		Low	71 Acres	
				Urban Runoff/Storm Sewers Point Source				
				Selenium (sediment)		Low	71 Acres	
				Urban Runoff/Storm Sewers Point Source				

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2	B	Central Basin, San Francisco (part of SF Bay, Central)	20440010	Chlordane <i>This listing was made by USEPA.</i>		Low	40 Acres	
					Nonpoint Source			
				DDT <i>This listing was made by USEPA.</i>		Low	40 Acres	
					Nonpoint Source			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Low	40 Acres	
					Nonpoint Source			
				Dieldrin <i>This listing was made by USEPA.</i>		Low	40 Acres	
					Nonpoint Source			
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>		Low	40 Acres	
					Atmospheric Deposition			
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	40 Acres	
					Ballast Water			
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>		Low	40 Acres	
					Atmospheric Deposition			
				Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>		High	40 Acres	2003
					Industrial Point Sources			
					Minor Industrial Point Source			
					Municipal Point Sources			
					Resource Extraction			
					Atmospheric Deposition			
					Natural Sources			
					Nonpoint Source			

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				Mercury (sediment)	Urban Runoff/Storm Sewers Point Source	Low	40 Acres	
				PAHs (sediment)	Urban Runoff/Storm Sewers Point Source	Low	40 Acres	
				PCBs		High	40 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			
				PCBs (dioxin-like)		Low	40 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
					Unknown Nonpoint Source			
				Selenium		Low	40 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
2	R	Corte Madera Creek	20320011	Diazinon		High	4.1 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	Coyote Creek (Marin County)	20320020	Diazinon		High	2.6 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	Coyote Creek (Santa Clara Co.)	20530021	Diazinon		High	55 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			

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2	R	Gallinas Creek	20620013	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	2.1 Miles	2004
2	R	Guadalupe Creek	20540050	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>	Mine Tailings	Medium	8.1 Miles	
2	L	Guadalupe Reservoir	20540040	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>	Surface Mining Mine Tailings	Medium	63 Acres	
2	R	Guadalupe River	20540050	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	18 Miles	2004
				Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>	Mine Tailings	Medium	18 Miles	
2	E	Islais Creek	20440010	Ammonia	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				Chlordane (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				Dieldrin (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				Endosulfan sulfate (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	

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				Hydrogen Sulfide	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				PAHs (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				PCBs (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
2	R	Lagunitas Creek	20113020	Nutrients <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers	Low	17 Miles	
				Pathogens <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers	Low	17 Miles	
				Sedimentation/Siltation <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers	Medium	17 Miles	
2	L	Lake Herman	20721030	Mercury <i>Additional monitoring and assessment needed. Problem due to historical mining.</i>	Surface Mining	Low	108 Acres	
2	L	Lake Merced	20210010	Low Dissolved Oxygen <i>This listing was made by USEPA.</i>	Source Unknown	Low	299 Acres	
				pH <i>This listing was made by USEPA.</i>	Source Unknown	Low	299 Acres	

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2	L	Lake Merritt	20420040	Organic Enrichment/Low Dissolved Oxygen <i>This listing was made by USEPA.</i>	Source Unknown	Low	142 Acres	
				Trash	Urban Runoff/Storm Sewers	Low	142 Acres	
2	R	Laurel Creek (Solano Co)	20440040	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	3 Miles	2004
2	R	Ledgewood Creek	20723010	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	12 Miles	2004
2	R	Los Gatos Creek (R2)	20540011	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	19 Miles	2004
2	E	Marina Lagoon (San Mateo County)	20440040	High Coliform Count	Urban Runoff/Storm Sewers Nonpoint Source	Low	169 Acres	
2	R	Matadero Creek	20550040	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	7.3 Miles	2004
2	R	Miller Creek	20620012	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	9 Miles	2004
2	E	Mission Creek	20440010	Ammonia	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Chlordane (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	

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			Chlorpyrifos (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Chromium (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Copper (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Dieldrin (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Hydrogen Sulfide	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Lead (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Mercury (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Mirex (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			PAHs	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			PCBs (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Silver (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
			Zinc (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	

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2	R	Mt. Diablo Creek	20731040	Diazinon <i>This listing was made by USEPA.</i>		High	13 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Napa River	20650010	Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	65 Miles	
Agriculture								
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Low	65 Miles	
Agriculture								
Urban Runoff/Storm Sewers								
				Sedimentation/Siltation <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	65 Miles	
Agriculture								
Construction/Land Development								
Land Development								
Urban Runoff/Storm Sewers								
2	R	Novato Creek	20620010	Diazinon <i>This listing was made by USEPA.</i>		High	17 Miles	2004
Urban Runoff/Storm Sewers								
2	B	Oakland Inner Harbor (Fruitvale Site, part of SF Bay, Central)	20420040	Chlordane <i>This listing was made by USEPA.</i>		Low	0.93 Acres	
Nonpoint Source								
				Chlordane (sediment)		Low	0.93 Acres	
Source Unknown								
				DDT <i>This listing was made by USEPA.</i>		Low	0.93 Acres	
Nonpoint Source								
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Low	0.93 Acres	
Nonpoint Source								

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			Dieldrin		Low	0.93 Acres	
			<i>This listing was made by USEPA.</i>				
			Nonpoint Source				
			Dioxin Compounds		Low	0.93 Acres	
			<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
			Atmospheric Deposition				
			Exotic Species		Medium	0.93 Acres	
			<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
			Ballast Water				
			Furan Compounds		Low	0.93 Acres	
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
			Atmospheric Deposition				
			Mercury		High	0.93 Acres	2003
			<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
			Industrial Point Sources				
			Municipal Point Sources				
			Resource Extraction				
			Atmospheric Deposition				
			Natural Sources				
			Nonpoint Source				
			PCBs		High	0.93 Acres	2004
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
			Unknown Nonpoint Source				
			PCBs (dioxin-like)		Low	0.93 Acres	
			<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
			Unknown Nonpoint Source				
			PCBs (sediment)		Low	0.93 Acres	
			Source Unknown				

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				Selenium		Low	0.93 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
2	B	Oakland Inner Harbor (Pacific Dry-dock Yard 1 Site, part of SF Bay, Central)	20420040					
				Chlordane		Low	1.8 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Chlordane (sediment)		Low	1.8 Acres	
					Source Unknown			
				Chlorpyrifos (sediment)		Low	1.8 Acres	
					Source Unknown			
				Copper (sediment)		Low	1.8 Acres	
					Source Unknown			
				DDT		Low	1.8 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Diazinon		Low	1.8 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
					Nonpoint Source			
				Dieldrin		Low	1.8 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Dieldrin (sediment)		Low	1.8 Acres	
					Source Unknown			
				Dioxin Compounds		Low	1.8 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
					Atmospheric Deposition			
				Exotic Species		Medium	1.8 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
					Ballast Water			

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Furan Compounds		Low	1.8 Acres	
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition			
			Lead (sediment)		Low	1.8 Acres	
				Source Unknown			
			Mercury		High	1.8 Acres	2003
			<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources			
				Municipal Point Sources			
				Resource Extraction			
				Atmospheric Deposition			
				Natural Sources			
				Nonpoint Source			
			Mercury (sediment)		Low	1.8 Acres	
				Source Unknown			
			Mirex (sediment)		Low	1.8 Acres	
				Source Unknown			
			PAHs (sediment)		Low	1.8 Acres	
				Source Unknown			
			PCBs		High	1.8 Acres	2004
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source			
			PCBs (dioxin-like)		Low	1.8 Acres	
			<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source			
			PCBs (sediment)		Low	1.8 Acres	
				Source Unknown			
			ppDDE (sediment)		Low	1.8 Acres	
				Source Unknown			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Selenium		Low	1.8 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
				Tributyltin (sediment)		Low	1.8 Acres	
					Source Unknown			
				Zinc (sediment)		Low	1.8 Acres	
					Source Unknown			
2	C	Pacific Ocean at Fitzgerald Marine Reserve	20221012	High Coliform Count		Low	0.46 Miles	
					Nonpoint Source			
2	C	Pacific Ocean at Pacifica State Beach	20221011	High Coliform Count		Low	0.87 Miles	
				<i>Linda Mar and San Pedro beaches are the areas affected.</i>				
					Urban Runoff/Storm Sewers			
					Nonpoint Source			
2	C	Pacific Ocean at Pillar Point Beach	20221012	High Coliform Count		Low	1.1 Miles	
					Nonpoint Source			
2	C	Pacific Ocean at Rockaway Beach	20221011	High Coliform Count		Low	0.29 Miles	
					Urban Runoff/Storm Sewers			
					Nonpoint Source			
2	C	Pacific Ocean at Venice Beach	20222011	High Coliform Count		Low	0.38 Miles	
					Nonpoint Source			
2	R	Permanente Creek	20550021	Diazinon		High	13 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Pescadero Creek	20240013	Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>		Medium	26 Miles	
Nonpoint Source								
2	R	Petaluma River	20630020	Diazinon <i>Data source: Abelli-Amen, Petaluma Tree Planters, 1999.</i>		Low	22 Miles	
Urban Runoff/Storm Sewers								
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	22 Miles	
Agriculture								
Construction/Land Development								
Urban Runoff/Storm Sewers								
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	22 Miles	
Agriculture								
Construction/Land Development								
Urban Runoff/Storm Sewers								
				Sedimentation/Siltation		Medium	22 Miles	
Agriculture								
Construction/Land Development								
Urban Runoff/Storm Sewers								
2	R	Petaluma River (tidal portion)	20630040	Diazinon <i>Data source: Abelli-Amen, Petaluma Tree Planters, 1999.</i>		Low	1.1 Miles	
Urban Runoff/Storm Sewers								
				Nickel <i>Exceedance of California Toxic Rule dissolved criteria and National Toxic Rule total criteria; elevated water and sediment tissue levels.</i>		Low	1.1 Miles	
Municipal Point Sources								
Urban Runoff/Storm Sewers								
Atmospheric Deposition								
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	1.1 Miles	
Agriculture								
Construction/Land Development								
Urban Runoff/Storm Sewers								

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Pathogens		Medium	1.1 Miles	
				<i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture			
					Construction/Land Development			
					Urban Runoff/Storm Sewers			
2	R	Pine Creek (Contra Costa Co)	20731011	Diazinon		High	13 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	Pinole Creek	20660020	Diazinon		High	9.2 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	Pomponio Creek	20240020	High Coliform Count		Low	7.1 Miles	
					Nonpoint Source			
2	B	Richardson Bay	20312010	Chlordane		Low	2439 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				DDT		Low	2439 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Dieldrin		Low	2439 Acres	
				<i>This listing was made by USEPA.</i>				
					Unknown Nonpoint Source			
				Dioxin Compounds		Low	2439 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
					Atmospheric Deposition			
				Exotic Species		Medium	2439 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
					Ballast Water			
				Furan Compounds		Low	2439 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
					Atmospheric Deposition			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				High Coliform Count		Low	2439 Acres	
				<i>Affected area, Waldo Point Harbor, is less than 10% of embayment; source has been positively identified as substandard sewage systems in some houseboat areas; extensive local control program in place with significant water quality improvements.</i>				
					Urban Runoff/Storm Sewers			
					Septage Disposal			
					Boat Discharges/Vessel Wastes			
				Mercury		High	2439 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
					Municipal Point Sources			
					Resource Extraction			
					Atmospheric Deposition			
					Natural Sources			
					Nonpoint Source			
				PCBs		High	2439 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			
				PCBs (dioxin-like)		Low	2439 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
					Unknown Nonpoint Source			
2	R	Rodeo Creek	20660022	Diazinon		High	8 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	E	Sacramento San Joaquin Delta	20710010	Chlordane		Low	41736 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				DDT		Low	41736 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Diazinon		Low	41736 Acres	
			<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
			Nonpoint Source				
			Dieldrin		Low	41736 Acres	
			<i>This listing was made by USEPA.</i>				
			Nonpoint Source				
			Dioxin Compounds		Low	41736 Acres	
			<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
			Atmospheric Deposition				
			Exotic Species		Medium	41736 Acres	
			<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
			Ballast Water				
			Furan Compounds		Low	41736 Acres	
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
			Atmospheric Deposition				
			Mercury		High	41736 Acres	2003
			<i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
			Industrial Point Sources				
			Municipal Point Sources				
			Resource Extraction				
			Atmospheric Deposition				
			Nonpoint Source				
			Nickel		Low	41736 Acres	
			<i>This listing was made by USEPA.</i>				
			Source Unknown				
			PCBs		High	41736 Acres	2004
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
			Unknown Nonpoint Source				
			PCBs (dioxin-like)		Low	41736 Acres	
			<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
			Unknown Nonpoint Source				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Selenium		Low	41736 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place. Another source is exotic species.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
2	R	San Antonio Creek (Marin/Sonoma Co)	20630031	Diazinon		High	18 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	San Felipe Creek	20530041	Diazinon		High	15 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	B	San Francisco Bay, Central	20312010	Chlordane		Low	70992 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				DDT		Low	70992 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Diazinon		Low	70992 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
					Nonpoint Source			
				Dieldrin		Low	70992 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Dioxin Compounds		Low	70992 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
					Atmospheric Deposition			
				Exotic Species		Medium	70992 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
					Ballast Water			

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			Furan Compounds		Low	70992 Acres	
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition			
			Mercury		High	70992 Acres	2003
			<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources			
				Municipal Point Sources			
				Resource Extraction			
				Atmospheric Deposition			
				Natural Sources			
				Nonpoint Source			
			PCBs		High	70992 Acres	2004
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source			
			PCBs (dioxin-like)		Low	70992 Acres	
			<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source			
			Selenium		Low	70992 Acres	
			<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources			
				Agriculture			
				Natural Sources			
				Exotic Species			
2	B	San Francisco Bay, Lower	20410010				
			Chlordane		Low	79293 Acres	
			<i>This listing was made by USEPA.</i>				
				Nonpoint Source			
			DDT		Low	79293 Acres	
			<i>This listing was made by USEPA.</i>				
				Nonpoint Source			

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			Diazinon		Low	79293 Acres	
			<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
			Nonpoint Source				
			Dieldrin		Low	79293 Acres	
			<i>This listing was made by USEPA.</i>				
			Nonpoint Source				
			Dioxin Compounds		Low	79293 Acres	
			<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
			Atmospheric Deposition				
			Exotic Species		Medium	79293 Acres	
			<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
			Ballast Water				
			Furan Compounds		Low	79293 Acres	
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
			Atmospheric Deposition				
			Mercury		High	79293 Acres	2003
			<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources: water quality objective exceedances. Elevated sediment levels and elevated tissue levels.</i>				
			Industrial Point Sources				
			Municipal Point Sources				
			Resource Extraction				
			Atmospheric Deposition				
			Natural Sources				
			Nonpoint Source				
			Nickel		Low	79293 Acres	
			<i>This listing was made by USEPA.</i>				
			Source Unknown				
			PCBs		High	79293 Acres	2004
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
			Unknown Nonpoint Source				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PCBs (dioxin-like)		Low	79293 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
2	B	San Francisco Bay, South	20510000					
				Chlordane		Low	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				DDT		Low	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Diazinon		Low	21669 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
				Nonpoint Source				
				Dieldrin		Low	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Dioxin Compounds		Low	21669 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Exotic Species		Medium	21669 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
				Ballast Water				
				Furan Compounds		Low	21669 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition				

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*Approved by USEPA:
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SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Mercury		High	21669 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources: water quality objective exceedances. Elevated sediment level and elevated tissue levels.</i>				
				Industrial Point Sources Municipal Point Sources Resource Extraction Atmospheric Deposition Natural Sources Nonpoint Source				
				PCBs		High	21669 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	21669 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
				Selenium		Low	21669 Acres	
				<i>A formal health advisory has been issued by OEHHA for benthic-feeding ducks in South San Francisco Bay. This health advisory clearly establishes that water contact recreation beneficial use (REC-1) is not fully supported and standards are not fully met.</i>				
				Agriculture Domestic Use of Ground Water				
2	R	San Francisquito Creek	20550040	Diazinon		High	12 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Sedimentation/Siltation		Medium	12 Miles	
				<i>Impairment to steelhead habitat.</i>				
				Nonpoint Source				
2	R	San Gregorio Creek	20230014	High Coliform Count		Low	11 Miles	
				Nonpoint Source				
				Sedimentation/Siltation		Medium	11 Miles	
				<i>Impairment to steelhead habitat.</i>				
				Nonpoint Source				

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SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	B	San Leandro Bay (part of SF Bay, Central)	20420040	Chlordane <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	588 Acres	
				DDT <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	588 Acres	
				DDT (sediment)	Source Unknown	Low	588 Acres	
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>	Nonpoint Source	Low	588 Acres	
				Dieldrin <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	588 Acres	
				Dioxin Compounds	Atmospheric Deposition	Low	588 Acres	
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>	Ballast Water	Medium	588 Acres	
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Atmospheric Deposition	Low	588 Acres	
				Lead (sediment)	Source Unknown	Low	588 Acres	
				Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>	Industrial Point Sources Municipal Point Sources Resource Extraction Atmospheric Deposition Natural Sources Nonpoint Source	High	588 Acres	2003

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Mercury (sediment)		Low	588 Acres	
				PAHs (sediment)	Source Unknown	Low	588 Acres	
				Pesticides (sediment)	Source Unknown	Low	588 Acres	
				Selenium	Source Unknown	Low	588 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
				Selenium (sediment)		Low	588 Acres	
				Zinc (sediment)	Source Unknown	Low	588 Acres	
					Source Unknown			
2	R	San Leandro Creek, Lower	20420012	Diazinon		High	9.3 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	San Lorenzo Creek	20420023	Diazinon		High	11 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	San Mateo Creek	20440032	Diazinon		High	11 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	B	San Pablo Bay	20610010	Chlordane		Low	68349 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				DDT		Low	68349 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Diazinon		Low	68349 Acres	
			<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
			Nonpoint Source				
			Dieldrin		Low	68349 Acres	
			<i>This listing was made by USEPA.</i>				
			Nonpoint Source				
			Dioxin Compounds		Low	68349 Acres	
			<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
			Atmospheric Deposition				
			Exotic Species		Medium	68349 Acres	
			<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
			Ballast Water				
			Furan Compounds		Low	68349 Acres	
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
			Atmospheric Deposition				
			Mercury		High	68349 Acres	2003
			<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
			Municipal Point Sources				
			Resource Extraction				
			Atmospheric Deposition				
			Natural Sources				
			Nonpoint Source				
			Nickel		Low	68349 Acres	
			<i>This listing was made by USEPA.</i>				
			Source Unknown				
			PCBs		High	68349 Acres	2004
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
			Unknown Nonpoint Source				
			PCBs (dioxin-like)		Low	68349 Acres	
			<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
			Unknown Nonpoint Source				

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SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Selenium		Low	68349 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources				
				Agriculture				
				Natural Sources				
				Exotic Species				
2	R	San Pablo Creek	20660014	Diazinon		High	9.9 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	L	San Pablo Reservoir	20660012	Mercury		Low	784 Acres	
				Atmospheric Deposition				
2	R	San Pedro Creek	20221011	High Coliform Count		Low	2.4 Miles	
				Urban Runoff/Storm Sewers				
				Nonpoint Source				
2	R	San Rafael Creek	20320012	Diazinon		High	3.6 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	R	San Vicente Creek	20221012	High Coliform Count		Low	3.8 Miles	
				Nonpoint Source				
2	R	Saratoga Creek	20550040	Diazinon		High	18 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	R	Sonoma Creek	20640050	Nutrients		Medium	30 Miles	
				<i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>				
				Agriculture				
				Construction/Land Development				
				Land Development				
				Urban Runoff/Storm Sewers				

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SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Pathogens		Low	30 Miles	
				<i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture			
					Construction/Land Development			
					Land Development			
					Urban Runoff/Storm Sewers			
				Sedimentation/Siltation		Medium	30 Miles	
				<i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture			
					Construction/Land Development			
					Land Development			
					Urban Runoff/Storm Sewers			
2	R	Stevens Creek	20550020	Diazinon		High	20 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	B	Suisun Bay	20710020	Chlordane		Low	27498 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				DDT		Low	27498 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Diazinon		Low	27498 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
					Nonpoint Source			
				Dieldrin		Low	27498 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Dioxin Compounds		Low	27498 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
					Atmospheric Deposition			
				Exotic Species		Medium	27498 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
					Ballast Water			

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Furan Compounds		Low	27498 Acres	
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition			
			Mercury		High	27498 Acres	2003
			<i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources			
				Resource Extraction			
				Atmospheric Deposition			
				Natural Sources			
				Nonpoint Source			
			Nickel		Low	27498 Acres	
			<i>This listing was made by USEPA.</i>				
				Source Unknown			
			PCBs		High	27498 Acres	2004
			<i>This listing covers non-dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown point source			
			PCBs (dioxin-like)		Low	27498 Acres	
			<i>The specific dioxin-like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source			
			Selenium		Low	27498 Acres	
			<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources			
				Natural Sources			
				Exotic Species			
2	T	Suisun Marsh Wetlands					
			20723000	Metals	Low	66339 Acres	
				<i>Additional monitoring and assessment needed.</i>			
				Agriculture			
				Urban Runoff/Storm Sewers			
				Flow Regulation/Modification			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Nutrients <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	Low	66339 Acres	
				Organic Enrichment/Low Dissolved Oxygen <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	Low	66339 Acres	
				Salinity/TDS/Chlorides <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	Low	66339 Acres	
2	E	Suisun Slough	20723000	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	1124 Acres	2004
2	B	Tomales Bay	20114033	Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>	Mine Tailings	Medium	8545 Acres	
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>	Agriculture	Medium	8545 Acres	
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>	Intensive Animal Feeding Operations Septage Disposal	High	8545 Acres	2004
				Sedimentation/Siltation <i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>	Agriculture Upstream Impoundment	Medium	8545 Acres	

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Walker Creek	20112013	Mercury <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Surface Mining Mine Tailings	Medium	16 Miles	
				Nutrients <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture	Medium	16 Miles	
				Sedimentation/Siltation <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture	Medium	16 Miles	
2	R	Walnut Creek	20731040	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	9 Miles	2004
2	R	Wildcat Creek	20660013	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	12 Miles	2004

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

REGIONAL WATER QUALITY CONTROL BOARDS

- 1 North Coast
- 2 San Francisco Bay
- 3 Central Coast
- 4 Los Angeles
- 5 Central Valley
- 6 Lahontan
- 7 Colorado River Basin
- 8 Santa Ana
- 9 San Diego

WATER BODY TYPE

- B = Bays and Harbors
- C = Coastal Shorelines/Beaches
- E = Estuaries
- L = Lakes/Reservoirs
- R = Rivers and Streams
- S = Saline Lakes
- T = Wetlands, Tidal
- W = Wetlands, Freshwater

CALWATER WATERSHED

"Calwater Watershed" is the State Water Resources Control Board hydrological subunit area or an even smaller area delineation.

GROUP A PESTICIDES OR CHEM A

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