

STAFF REPORT ON THE
1991
WATER QUALITY ASSESSMENT
FOR THE
NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD

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INTRODUCTION

Section 305(b) of the Federal Clean Water Act (CWA) establishes a process for reporting about the quality of the nation's water resources to the U.S. Environmental Protection Agency (EPA) and Congress. Each State, Territory, and Interstate Commission develops a program to monitor the quality of its surface and ground waters and report the current status of water quality every two years to the EPA on or before April 1 of every even year. This information is compiled into a biennial report to Congress. Additionally, various sections of the Clean Water Act require that the EPA maintain lists of water bodies which are regulated by those sections. Lists are required by Sections 303(d), 304(1), 314, and 319 of the CWA, as well as Section 40CFR Part 131.11. States are expected to submit these lists either as part of or at the same time as the biennial section 305(b) reports. Each of these lists is described below:

The 131.11 list is a list of surface waterbody segments which may be affected by toxic pollutants or segments with concentrations of toxic pollutants that warrant concern.

Section 303(d) requires States to identify waters that do not or are not able to meet applicable water quality standards with technology based controls.

Section 304(1) requires listing of three types of impaired water bodies: 1) the 'mini' list of waters for which the State does not expect to achieve numeric water quality standards for priority pollutants after technology based controls have been met, due to point or nonpoint source pollution, 2) the 'short' list of waters that are not expected to meet applicable standards after technology based controls have been met, due entirely or substantially to discharge of toxic pollutants from point sources, and 3) the 'long' list of waters that are not meeting fishable and swimmable goals of the CWA whether due to toxicity or other impairments due to point or nonpoint sources.

Section 314 lists publicly owned lakes for which uses are known to be impaired by point and nonpoint sources and which are targeted under the Clean Lakes Program for restoration.

Section 319 requires listing "navigable waters within the State which, without additional action to control nonpoint sources of pollution, cannot reasonably be expected to attain or maintain applicable water quality standards or the goals and requirements of this Act." These waterbodies are targeted for nonpoint source controls.

In order to comply with listing requirements of Sections 305(b), 131.11, 303(d), 304(1), 314, and 319 of the CWA, the State Water Resources Control Board (State Board) adopted the Water Quality Assessment (WQA) for California's surface, estuarine, and ground waters on February 1, 1989. The WQA employs a rating of waters as good, intermediate, impaired, and unknown.

The nine Regional Water Quality Control Boards (Regional Boards) reviewed and adopted updated versions of the WQA for their respective regions. On January 25, 1990, the North Coast Regional Board adopted the WQA for the North Coast Region. This WQA included 304(1) listing of Estero Americano, Estero de San Antonio, Laguna de Santa Rosa, Barlow Creek, Beaughton Creek, San Antonio Creek, and Stemple Creek. The WQA as adopted by the North Coast Regional Board was then forwarded to State Board. State Board added listings for the ocean off of Samoa Peninsula, added all Regional Board 304(1) waters to the 303(d) list, and forwarded the WQA to EPA. EPA added 262 water bodies to 304(1) lists statewide, including 88 in the North Coast Region, basing their actions on letters and information received from sources which included the Natural Resources Defense Council, California Department of Fish and Game, California Department of Parks and Recreation, and the American Fisheries Society. A total of 95 North Coast Region waterbodies appear on the 304(1) Long list. One North Coast Region waterbody, the ocean off of Samoa Peninsula, appears on the 304(1) Short list. This staff report details each CWA list and proposed changes to those lists and the North Coast Region's WQA, and presents the proposed 1991 WQA for the North Coast Region.

WATERS CURRENTLY LISTED IN THE NORTH COAST REGION

Waters in the North Coast Region are included on lists for CWA sections 303(d) and 304(1), 319, and 131.11. There are no North Coast Region waters on the 314 list. The proposed 1991 Regional WQA (Attachment 1) reflects changes in the 303(d), 304(1) and 319 lists. Following is a discussion of these listings.

304(1) LIST (Attachments 2 and 3)

304(1) requires three separate lists: the 'mini', 'short', and 'long' lists, typically designated by "304", followed by (M), (S), or (L), respectively. The 304(S) list is a list of waters that are not expected to meet applicable standards after technology based controls have been met, due entirely or substantially to discharge of toxic pollutants from point sources. The ocean off of Samoa Peninsula is the only 304(S) listed waterbody in the North Coast Region (Attachment 2). The 304(L) list is a list of waters not meeting the fishable and swimmable goals of the CWA and contains 95 North Coast Region waterbodies as listed in Attachment 3.

303(d) LIST (Attachment 4)

303(d) requires States to identify waters that do not or are not able to meet applicable water quality standards after technology based controls have been implemented. Waters impacted by thermal discharges are also to be identified. For waters which are appropriately listed under 303(d), the State shall establish priority ranking, based on severity of pollution and extent of uses to be made of such waters. In accordance with the ranking, we will determine what wasteload reductions of point and nonpoint sources need to occur to meet applicable standards for a give waterbody. There is no specific deadline for these actions specified in the CWA.

All water bodies which were initially 304(1) listed by the State and Regional Boards were subsequently included on the 1990 303(d) list by the State Board and forwarded to EPA. The listed North Coast Region waterbodies are: the ocean off of Samoa Peninsula, Barlow Creek, Beaughton Creek, Laguna de Santa Rosa, Americano Creek, Estero Americano, Stemple Creek, and Estero de San Antonio.

319 LIST

319 requires listing "navigable waters within the State which, without additional action to control nonpoint sources of pollution, cannot reasonably be expected to attain or maintain applicable water quality standards or the goals and requirements of this Act." The Shasta River has been targeted through State and Federal programs for remediation of nonpoint source impairment. Other North Coast Region waterbodies on the 319 list are: Americano Creek, Barlow Creek, Beaughton Creek, Laguna de Santa Rosa, and Stemple Creek.

Prioritization of listed waterbodies

The State Board has developed a Clean Water Strategy (CWS) for the purpose of prioritizing all waterbodies included on the 305(b) (WQA) list. The CWS establishes a Resource Value rating on a numeric scale from 1 to 5. A rating of one signifies the highest resource value. A rating of five represents the lowest. The resource value is derived from four separate numeric rankings which reflect: beneficial uses, magnitude of uses, size, and uniqueness. The State Board position, as understood at this time, is to consider funding for efforts on impaired or threatened waterbodies which have been assigned a resource value of one or two. Efforts on some waterbodies which have been assigned a resource value of three may also be considered for funding, based on availability of resources. Of the CWA lists for which specific actions are required by the EPA, only the 303(d) applies in the North Coast Region. Resource values for North Coast Region 303(d) listed waterbodies are: the ocean off of Samoa Peninsula, 2; Barlow Creek, not rated; Beaughton Creek, not rated; Laguna de Santa Rosa, 3; Americano Creek, 4; Stemple Creek, 4; Estero Americano, 2; and Estero de San Antonio, 2.

PROPOSED 1991 WQA

At this time, the Regional Boards are completing biennial reviews and updates to the WQA. Attachment 1 is a copy of the proposed 1991 Regional Water Quality Assessment for the North Coast Region. This document includes proposed changes to the 1990 version, described below.

- 1) Willow Creek (tributary to the Trinity River) has received funding for 319(h) nonpoint source restoration/mitigation efforts. Staff proposes to include Willow Creek in Water Quality Assessment as an intermediate quality stream.
- 2) A section of the Shasta River (tributary to the Klamath River) has been designated as impaired due to impairment of fish habitat from low dissolved oxygen and high water temperatures.
- 3) Barlow Creek (tributary to Atascadero Creek, thence Green Valley Creek, thence the Russian River) was included on the 304(L), 303(d) and 319 lists due to impairment of fish and wildlife habitat from industrial waste discharges. Enforcement and follow-up actions have brought about the successful abatement of the impairment. Staff proposes to remove Barlow Creek from the 319 list and request that State Board remove it from the 303(d) list.
- 4) The ocean off of Samoa Peninsula has been listed as impaired and placed on the 304(l) Short List due to dioxin from the pulp mills. Recent developments in the litigation concerning pulp mill discharges attest to the complex problems associated with point discharges to the Pacific Ocean in the Samoa Peninsula area. This site is subject to the appropriate actions specified under Section 303(d), specifically the development of wasteload allocations. This has been accomplished through the NPDES permit process and other regulatory requirements being applied to all known significant point source discharges to this area. Staff proposes to request that the State Board remove the ocean off of Samoa Peninsula from 303(d) list.

WOA GuideTHE NORTH COAST REGION WATER QUALITY ASSESSMENT

The waterbodies in the North Coast Region are grouped into seven categories. Each category is presented separately on its own page (or pages) under one of the following headings:

Wetlands
 Rivers and Streams
 Ocean and Open Bays
 Lakes and Reservoirs
 Ground Water
 Estuaries
 Bays and Harbors

Descriptions of the information under each column are provided below:

Waterbody Name

The name of the water body.

Hydro Unit #

The hydrologic unit number from the hydrologic basin maps. This designates the location of the waterbody in a watershed.

Water Quality Condition

The four columns under this heading indicate the areal extent of the water body that falls within each of the four water quality conditions: Good, Intermediate, Impaired, Unknown. The units of measurement are as follows:

linear miles - Rivers and Streams
 Ocean and Open Bays (coastline)
 acres - Wetlands
 Lakes and Reservoirs
 Estuaries
 Bays and Harbors
 square miles - Ground Water

Total Size

The total size of the waterbody.

Units

The measurement units for areal extent and total size.

Fact Sheet

This column indicates whether a fact sheet has been prepared. Fact sheets are supporting documents for high priority waterbodies.

Problem Description

These descriptions are short summaries of the threats and/or problems in a specific water body.

Problem Source

This column identifies the problem as coming from a point source discharge, nonpoint source, or both.

Federal Lists

An "X" in the column below a specific federal list identifies that water body as being on that list or proposed for listing. The federal lists are explained in the body of the staff report and summarized below:

- | | |
|--------|--|
| 131.11 | Segments which may be affected by toxic pollutants or which have concentrations of toxics that warrant concern. |
| 303(d) | Water quality limited segments where water quality objectives are not expected to be met with technology based controls. |
| 304(M) | 304(1) "Mini List" of waters not meeting water quality objectives due to toxics from either point or nonpoint sources. |
| 304(S) | 304(1) "Short List" of waters not meeting water quality objectives because of toxics from point source discharges. |
| 304(L) | 304(1) "Long List" of waters not meeting water quality objectives for a variety of reasons. |
| 314 | A list of lakes nominated for restoration. |
| 319 | Water bodies targeted for nonpoint source pollution control activities. |

TABLE 1

Report Date : 11/08/91

Region 1

Wetlands

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1</u>
BUTTE VALLEY WETLAND	105.81	0	0	0	3000	3000	AC			1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9	
CLEAR LAKE RESERVOIR NWR	105.93	0	0	0	1890	1890	AC			1 1 0 0 0 1 1 . 3 4 4 4 4 9	
LAGUNA DE SANTA ROSA WETLANDS	114.21	0	0	0	0	0	AC			1 1 0 0 0 1 1 . 3 4 4 4 4 9	
LOWER KLAMATH NWR	105.91	0	0	0	9345	9345	AC	EPA 304(L) LISTED.		1 1 0 0 0 1 1 . 3 4 4 4 4 9	
TULE LAKE NWR	105.92	0	0	0	3825	3825	AC	EPA 304(L) LISTED.		1 1 0 0 0 1 1 . 3 4 4 4 4 9	

TABLE 1

Report Date : 11/08/91

Region 1

Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1</u>
AH PAH CREEK	105.11	0	0	0	4	4 MI		EPA 304(L) LISTED.		1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 0 M S L	
ALBION RIVER	113.40	0	14	0	0	14 MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.		. . . . X . .
AMERICANO CREEK	115.30	0	0	7	0	7 MI	Yes	SEDIMENTATION, LOW DISSOLVED OXYGEN AND HIGH AMMONIA LEVELS FROM NPS DISCHARGES HAVE IMPAIRED FISH AND WILDLIFE HABITAT		. X . . X . X	
APPLEGATE RIVER, MIDDLE FORK	102.30	0	0	0	14	14 MI				
ATASCADERO CREEK	114.11	0	7	0	0	7 MI				
BARKER CREEK	106.25	0	0	0	6	6 MI				
BARLOW CREEK	114.11	1	0	0	0	1 MI	Yes	ENFORCEMENT ACTIONS SUCCESSFUL. DISCHARGE ELIMINATED. EPA 304(L) LISTED.		. . . . X . .
BEAR CREEK	112.30	0	0	0	19	19 MI				
BEAR RIVER	112.20	0	25	0	0	25 MI	Yes	DATA INDICATE QUALITY IS INTERMEDIATE. LISTING NOT NEEDED AT THIS TIME		
BEAUGHTON CREEK	105.50	2	0	4	0	6 MI	Yes	FISHERY HABITAT IMPAIRED DUE TO INDUSTRIAL WASTE DISCHARGES. REMEDIAL ACTIONS UNDERWAY.		. X . . X . .	

TABLE 1

Report Date : 11/08/91

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Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1 D M S L</u>
BEAVER CREEK	105.35	0	0	0	8	8 MI				1 3 3 3 3 3 3 1 0 0 0 0 1 1 . 3 4 4 4 4 9 1	
BIG CREEK (TRIB. TO TRINITY SOUTH FORK)	106.22	0	0	0	5	5 MI		EPA 304(L) LISTED.		. . . . X . .
BIG RIVER	113.30	0	40	0	0	40 MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.		. . . . X . .
BIG SALMON CREEK	113.40	0	0	0	12	12 MI		EPA 304(L) LISTED.		. . . . X . .
BIG SULFER CREEK	114.26	18	0	0	0	18 MI		EPA 304(L) LISTED.		. . . . X . .
BLACK BUTTE RIVER	111.73	0	0	0	25	25 MI		EPA 304(L) LISTED.		. . . . X . .
BLUE CREEK	105.11	22	0	0	0	22 MI				
BLUE WATERHOLE CREEK	113.70	0	4	0	0	4 MI				
BOHEMIAN CREEK	114.11	0	1	0	0	1 MI				
BROWNS CREEK	106.31	0	0	0	21	21 MI		EPA 304(L) LISTED.		. . . . X . .
BRUSH CREEK	113.64	0	0	0	12	12 MI				
BUCKEYE CREEK	113.83	0	15	0	0	15 MI				
BULL CREEK	111.31	0	12	0	0	12 MI				
BULLWINKLE CREEK	108.20	1	3	0	0	4 MI				

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Report Date : 11/08/91

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Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1 D M S L</u>
BUMMER LAKE CREEK	103.13	0	0	0	1	1 MI				1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1	
CAMPBELL CREEK	106.11	0	0	0	6	6 MI					
CANNON CREEK	109.30	0	5	0	0	5 MI					
CAPPELL CREEK	105.11	0	0	0	6	6 MI	EPA 304(L) LISTED.			. . . . X . .
CARR CREEK	106.25	0	0	0	6	6 MI				
COFFEE CREEK	106.40	16	0	0	0	16 MI				
COLD CREEK (MENDOCINO COUNTY)	114.32	0	0	0	5	5 MI	EPA 304(L) LISTED.			. . . . X . .
COLD CREEK (TRIB. TO SALT, THEN HAYFORK)	106.25	0	0	0	3	3 MI	EPA 304(L) LISTED.			. . . . X . .
COLGAN CREEK	114.21	0	5	0	0	5 MI				
COON CREEK	113.50	0	2	0	0	2 MI				
COTTANEVA CREEK	113.12	0	5	0	0	5 MI	EPA 304(L) LISTED.			. . . . X . .
COTTONWOOD CREEK (TRIB. TO KLAMATH)	105.36	0	0	0	15	15 MI	EPA 304(L) LISTED.			. . . . X . .
DEADWOOD CREEK	106.31	0	0	0	6	6 MI				
DEAN CREEK	111.32	0	0	0	7	7 MI	EPA 304(L) LISTED.		 X . .	

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Report Date : 11/08/91

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Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1 D M S L</u>
DRY CREEK	114.24	12	0	0	16	28	MI			1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1	
DUTCH BILL CREEK	114.11	0	8	0	0	8	MI				
EEL RIVER	111.00	0	200	0	0	200	MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.	. . . . X . .
EEL RIVER, EAST BRANCH, SOUTH FORK	111.32	0	0	0	19	19	MI			
EEL RIVER, MIDDLE FORK	111.70	0	0	0	64	64	MI			
EEL RIVER, NORTH FORK	111.50	0	0	0	41	41	MI			
EEL RIVER, SOUTH FORK	111.30	0	85	0	0	85	MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES	
ELDER CREEK	111.33	22	0	0	0	22	MI			
ELK RIVER	110.00	0	17	0	0	17	MI			
ESSEX GULCH	109.10	0	2	0	0	2	MI			
ETNA CREEK	105.42	9	0	0	0	9	MI	Yes	EPA 304(L) LISTED.	. . . . X . .
FORSYTHE CREEK	114.33	0	0	0	15	15	MI		EPA 304(L) LISTED.	. . . . X . .

TABLE 1

Report Date : 11/08/91

Region 1

Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1</u>
FRENCH CREEK	105.42	4	6	0	0	10	MI	Yes	EPA 304(L) LISTED.	. . . . X . .
FULLER CREEK	113.84	0	9	0	0	9	MI			
GARCIA RIVER	113.70	0	39	0	0	39	MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.	. . . . X . .
GARCIA RIVER, NORTH FORK	113.70	0	7	0	0	7	MI			
GILBERT CREEK	101.00	0	0	0	5	5	MI		EPA 304 (L) LISTED.	. . . . X . .
GRASS VALLEY CREEK	106.31	0	14	0	0	14	MI	Yes	DATA INDICATE WATER QUALITY CLASSIFICATION IS INTERMEDIATE. DOES NOT REQUIRE LISTING AT THIS TIME	
GRAY CREEK	108.10	0	4	0	0	4	MI			
GREEN VALLEY CREEK	114.11	0	5	0	0	5	MI		EPA 304(L) LISTED.	. . . . X . .
GREENWOOD CREEK	113.61	0	15	0	0	15	MI		EPA 304(L) LISTED.	. . . . X . .
GROUSE CREEK	106.21	0	22	0	0	22	MI			
GUALALA RIVER	113.80	0	35	0	0	35	MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.	. . . . X . .
HARDSCRABBLE CREEK	103.30	0	0	0	5	5	MI			

TABLE 1

Report Date : 11/08/91

Region 1

Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>				
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1</u>	<u>D</u>	<u>M</u>	<u>S</u>	<u>L</u>
HARDY CREEK	113.12	0	0	0	4	4 MI		EPA 304(L) LISTED.					X		
HAYFORK CREEK	106.24	0	0	0	13	13 MI	Yes	EPA 304(L) LISTED.					X		
HIGH PRAIRIE CREEK	105.11	0	4	0	0	4 MI		EPA 304(L) LISTED.					X		
HOADLEY GULCH	106.31	0	0	0	4	4 MI									
HOLLOW TREE CREEK	111.32	0	19	0	0	19 MI		EPA 304(L) LISTED.					X		
HOPPAW CREEK	105.11	0	5	0	0	5 MI		EPA 304(L) LISTED.					X		
HOSPITAL CREEK	106.11	0	0	0	3	3 MI									
HUNTER CREEK	105.11	0	5	0	0	5 MI		EPA 304(L) LISTED.					X		
ILLINOIS RIVER, EAST FORK	102.20	0	0	0	9	9 MI									
INDIAN CREEK	105.32	0	0	0	13	13 MI									
INDIAN CREEK	106.31	0	0	0	12	12 MI									
INMAN CREEK	113.70	0	5	0	0	5 MI									
JACOBY CREEK	110.00	8	2	0	0	10 MI									
JANES CREEK	110.00	0	3	0	0	3 MI									
JEWETT CREEK	112.30	0	0	0	4	4 MI									

TABLE 1

Report Date : 11/08/91

Region 1										Federal Lists									
Rivers and Streams										1									
<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>									
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1</u>	<u>D</u>	<u>M</u>	<u>S</u>	<u>L</u>				
JOE CREEK	102.30	0	0	0	3	3	MI												
JOHNSON CREEK (TRIB. TO KLAMATH)	105.11	0	0	0	5	5	MI		EPA 304(L) LISTED.										X
JOLLY GIANT CREEK	110.00	0	0	0	1	1	MI												
JUAN CREEK	113.12	0	5	0	0	5	MI		EPA 304(L) LISTED.										X
JUG HANDLE CREEK	113.20	0	0	0	5	5	MI												
JULIAS CREEK	113.11	0	0	0	2	2	MI		EPA 304(L) LISTED.										X
KIDDER CREEK	105.42	0	16	0	0	16	MI	Yes	DATA INDICATE QUALITY IS INTERMEDIATE. EPA 304(L) LISTED.										X
KLAMATH RIVER	105.00	0	126	0	0	126	MI	Yes	SEDIMENTATION AND ELEVATED WATER TEMPERATURES HAVE IMPACTED FISHERY RESOURCES. EPA 304(L) LISTED.										X
KLAMATH RIVER, LOWER	105.10	0	68	0	0	68	MI												
KLAMATH RIVER, MIDDLE	105.30	0	16	0	0	16	MI												
LAGUNA DE SANTA ROSA	114.21	0	0	26	0	26	MI	Yes	LOW DISSOLVED OXYGEN AND HIGH AMMONIA LEVEL DUE TO NPS DISCHARGES HAVE IMPAIRED FISH AND WILDLIFE HABITAT.									X	X
LARABEE CREEK	111.13	0	0	0	21	21	MI												

TABLE 1

Report Date : 11/08/91

Region 1

Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1 D M S L</u>
LEGGETT CREEK	111.32	0	0	0	1	1 MI				1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9	
LINDSAY CREEK	109.10	0	7	0	0	7 MI				1	
LITTLE GRASS VALLEY CREEK	106.31	0	6	0	0	6 MI				1	
LITTLE JUAN CREEK	113.12	0	0	0	3	3 MI		EPA 304(L) LISTED.		1 D M S L	
LITTLE RIVER	108.20	0	0	0	17	17 MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES			
LITTLE SHASTA RIVER	105.50	0	0	0	25	25 MI		EPA 304(L) LISTED.			
LOST RIVER	105.93	0	26	0	0	26 MI	Yes	DATA INDICATE THAT WATER QUALITY CLASSIFICATION IS INTERMEDIATE. LISTING NOT REQUIRED AT THIS TIME.			
LUFFENHOLTZ CREEK	108.10	0	0	0	1	1 MI		EPA 304(L) LISTED.			
MAD RIVER	109.00	0	90	0	0	90 MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.			
MAPLE CREEK	108.10	0	0	0	16	16 MI					
MARK WEST CREEK	114.23	0	18	0	0	18 MI		EPA 304(L) LISTED.			

TABLE 1

Report Date : 11/08/91

Region 1

Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1 D M S L</u>
MATTOLE RIVER	112.30	0	56	0	0	56 MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.		1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L	
MCGARVEY CREEK	105.11	0	6	0	0	6 MI		EPA 304(L) LISTED.		. . . . X . .
MILL CREEK (DEL NORTE COUNTY)	103.13	0	0	0	12	12 MI				
MILL CREEK (TRIB. TO SCOTT, SISKIYOU CO)	105.41	0	0	0	8	8 MI		EPA 304(L) LISTED.		. . . . X . .
MILL CREEK (TRINIDAD, HUMBOLDT COUNTY)	108.10	0	0	0	3	3 MI		EPA 304(L) LISTED.		. . . . X . .
MOFFETT CREEK	105.42	0	21	0	0	21 MI		EPA 304(L) LISTED.		. . . . X . .
MOREK CREEK	105.11	0	0	0	4	4 MI		EPA 304(L) LISTED.		. . . . X . .
MORRISON CREEK	103.11	0	0	0	3	3 MI				
MULE CREEK	106.40	0	0	0	4	4 MI				
MYNOT CREEK	105.11	0	0	0	3	3 MI				
NAVARRO RIVER	113.50	0	25	0	0	25 MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.		. . . . X . .

TABLE 1

Report Date : 11/08/91

Region 1

Rivers and Streams

<u>Water Body Name</u>	<u>Hydro Unit #</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Units</u>	<u>Fact Sheet</u>	<u>Problem/Need Description</u>	<u>Problem Source</u>	<u>Federal Lists</u>
		<u>Good</u>	<u>Inter- mediate</u>	<u>Impaired</u>	<u>Unknown</u>						<u>1</u>
NEW RIVER	106.14	25	0	0	0	25	MI			1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L	
NOISY CREEK	107.30	0	0	0	10	10	MI				
NOYO RIVER	113.20	0	35	0	0	35	MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.	. . . . X . .
NOYO RIVER, LITTLE NORTH FORK	113.20	0	6	0	0	6	MI			
OMAGAR CREEK	105.11	0	0	0	3	3	MI		EPA 304(L) LISTED.	. . . . X . .
OUTLET CREEK	111.61	0	0	0	30	30	MI		EPA 304(L) LISTED.	. . . . X . .
PANTHER CREEK	107.20	0	4	0	0	4	MI			
PATRICK CREEK	109.10	0	2	0	0	2	MI			
PEACOCK CREEK (TRIB. TO SMITH)	103.11	0	0	0	3	3	MI		EPA 304(L) LISTED.	. . . . X . .
PECWAN CREEK	105.11	0	0	0	10	10	MI		EPA 304(L) LISTED.	. . . . X . .
PELLETREAU CREEK	106.22	0	0	0	7	7	MI		EPA 304(L) LISTED.	. . . . X . .
PHILPOT CREEK	106.25	0	0	0	5	5	MI			
PINER CREEK	114.22	1	3	0	0	4	MI			

TABLE 1

Report Date : 11/08/91

Region 1

Rivers and Streams

Water Body Name	Hydro Unit #	Water Quality Condition				Total Size	Units	Fact Sheet	Problem/Need Description	Problem Source	Federal Lists
		Good	Inter-mediate	Impaired	Unknown						1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L
POISON GULCH	106.15	0	0	0	2	2 MI				.....
POST CREEK	106.23	0	0	0	5	5 MI		EPA 304(L) LISTED.		.....X..
POTATO PATCH CREEK	105.11	0	0	0	6	6 MI				.....
RATTLESNAKE CREEK	106.23	0	0	0	9	9 MI				.....
REDWOOD CREEK	107.00	0	63	0	0	63 MI	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.		.....X..
REDWOOD CREEK (NOYO TRIB.)	113.20	0	4	0	0	4 MI				.....X..
RICHARDSON CREEK	105.11	0	0	0	5	5 MI		EPA 304(L) LISTED.		.....X..
ROCKPILE CREEK	113.82	0	25	0	0	25 MI				.....
ROSELAND CREEK	114.21	0	5	0	0	5 MI				.....
ROWDY CREEK	103.12	0	0	0	12	12 MI		EPA 304(L) LISTED.		.....X..
RUSH CREEK	106.31	0	0	0	14	14 MI				.....
RUSSIAN RIVER	114.10	105	0	0	0	105 MI	Yes	WATER DIVERSIONS, POINT AND NON-POINT SOURCE DISCHARGES HAVE IMPACTED BENEFICIAL USES. EPA 304(L) LISTED.		.....X..
RUSSIAN RIVER, EAST	114.32	11	0	0	0	11 MI				.....

III. EPA'S RESPONSE TO PUBLIC COMMENTS AND PETITIONS

In addition to the State's revised assessment, EPA received several comments and petitions from the public. EPA has considered, and prepared a formal response to, these comments and petitions. The public comments and petitions and EPA's response are contained in the administrative record for this decision.

IV. FINAL SECTION 304(1) LISTS

EPA has made several changes to the lists in response to public comments and petitions. These changes are explained in EPA's response to the public comments and petitions. The final lists are specified below.

A. Paragraph (1)(A)(i) of Section 304(1) -- Mini List

The following waters constitute the list required by paragraph (1)(A)(i), which is commonly referred to as the "mini list:"

1. Salinas River
2. Harley Gulch
3. Sulfur Creek
4. San Carlos Creek
5. Dunn Creek
6. Marsh Creek
7. Peyton Slough
8. Leviathan Creek
9. Santa Ana River at San Bernardino

B. Paragraph (1)(A)(ii) of Section 304(1) -- Long List

The following waters constitute the list required by paragraph (1)(A)(ii), which is commonly referred to as the "long list:"

- Region 1:**
1. Big Creek
 2. Big Salmon Creek
 3. Browns Creek
 4. Cold Creek (Mendocino County)
 5. Cold Creek (Siskiyou County)
 6. Cottaneva Creek
 7. Cottonwood Creek
 8. Eel River
 9. Etna Creek
 10. French Creek
 11. Garcia River
 12. Gilbert Creek
 13. Green Valley Creek
 14. Greenwood Creek
 15. Hardy Creek
 16. Hayfork Creek
 17. Hollow Tree Creek
 18. Humboldt Bay National Wildlife Refuge
 19. Juan Creek

20. Ju...as Creek
21. Kidder Creek
22. Klamath River
23. Lake Mendocino
24. Lake Pillbury
25. Little Juan Creek
26. Little Shasta River
27. Lower Klamath National Wildlife Refuge
28. Luffenholtz Creek
29. Mill Creek (Humboldt County)
30. Mill Creek (Siskiyou County)
31. Outlet Creek Tributaries
32. Peacock Creek
33. Redwood Creek (NOYO TRIB.)
34. Rowdy Creek
35. Santa Rosa Creek
36. Scott River
37. Shackelford Creek
38. Shasta River
39. Tomki Creek
40. Tule Lake National Wildlife Refuge
41. Usal Creek
42. Wildcat Creek
43. Willow Creek
44. Yreka Creek
45. Ah Pah Creek
46. Albion River
47. Big River
48. Big Sulfur Creek
49. Black Butte River
50. Dean Creek
51. Eel River Estuary
52. Forsythe Creek
53. Gualala River
54. Klamath River Estuary
55. Mad River
56. Mad River Estuary
57. Mark West Creek
58. Mattole Estuary
59. Mattole River
60. McGarvey Creek
61. Moffett Creek
62. Navarro River
63. Noyo River
64. Omagar Creek
65. Pelletreau Creek
66. Post Creek
67. Redwood Creek
68. Redwood Creek Estuary
69. Russian River
70. South Fork Trinity River
71. Salt River
72. Santa Rosa Creek
73. Smith River
74. Trinity River
75. Van Duzen River

76. Windsor Creek
77. Cappell Creek
78. High Prairie Creek
79. Hoppah Creek
80. Hunter Creek
81. Johnson Creek
82. Morek Creek
83. Pecwan Creek
84. Richardson Creek
85. Saugap Creek
86. Salt Creek
87. Tarup Creek
88. Waukel Creek
89. Estero Americano
90. Estero De San Antonio
91. Americano Creek
92. Barlow Creek
93. Beaughton Creek
94. Laguna De Santa Rosa
95. Stemple Creek