



305 (b)
Water Quality Report
For Water Years 1988 - 1989

**Reporting on water quality conditions
within the State of California**

90-6WQ

WATER RESOURCES CONTROL BOARD
STATE OF CALIFORNIA



1998

SECTION 304(l) AND 303(d) LIST OF IMPAIRED WATERS

<u>HYDROLOGIC UNIT NO.</u>	<u>WATER BODY NAME</u>	<u>SIZE</u>
	NORTH COAST BASIN (OCEAN, SAMOA PEN.)	1
105.50	BEAUGHTON CREEK	6
114.11	BARLOW CREEK	1
114.21	LAGUNA DE SANTA ROSA	26
115.30	AMERICANO CREEK	7
115.30	ESTERO AMERICANO	692
115.40	ESTERO DE SAN ANTONIO	319
115.40	STEMPLE CREEK	17
201.11	TOMALES BAY	7820
201.12	WALKER CREEK (REG 2)	25
201.13	LAGUNITAS CREEK	22
203.12	SAN FRANCISCO BAY, CENTRAL	67700
203.13	RICHARDSON BAY	2560
204.10	SAN FRANCISCO BAY, LOWER	79900
204.30	ALAMEDA CREEK	27
204.30	ARROYO DE LA LAGUNA	5
205.10	SAN FRANCISCO BAY, SOUTH	24500
205.40	ALAMITOS CREEK	21
205.40	CALERO RES	350
205.40	GUADALUPE CREEK	6
205.40	GUADALUPE RES	80
205.40	GUADALUPE RIVER	12
206.10	SAN PABLO BAY	71300
206.30	PETALUMA RIVER	25
206.40	SONOMA CREEK	23
206.50	NAPA RIVER	55
207.10	CARQUINEZ STRAIT	6560
207.10	PEYTON SLOUGH	1
207.10	SACRAMENTO SAN JOAQUIN DELTA	3400
207.10	SUISUN BAY	25000
207.21	HERMAN LAKE	110
207.23	SUISUN MARSH	57000
304.10	WADDELL CREEK, EAST BRANCH	3
304.12	CARBONERA CREEK	13
304.12	GOLD GULCH CREEK	2
304.12	LOCKHART GULCH CREEK	3
304.12	LOGAN CREEK	1
304.12	LOMPICO CREEK	4
304.12	MARSHALL CREEK	2
304.12	SAN LORENZO RIVER	25
304.12	SAN LORENZO RIVER ESTUARY	2
304.12	SCHWAN LAKE	24
304.12	SHINGLE MILL CREEK	2
304.13	ALBA CREEK	1
304.13	APTOS CREEK	8
304.13	BURNS CREEK	3
304.13	MINERS CREEK	2
304.13	RUINS CREEK	3
304.13	SOQUEL LAGOON	2
304.13	VALENCIA CREEK	6
304.14	GROVER GULCH	3
305.10	DIABLO GULCH CREEK	2

SECTION 304(l) AND 303(d) LIST OF IMPAIRED WATERS

<u>HYDROLOGIC UNIT NO.</u>	<u>WATER BODY NAME</u>	<u>SIZE</u>
305.10	REDWOOD CREEK	2
305.10	RIDER GULCH CREEK	2
305.10	WATSONVILLE SLOUGH / PAJARO SLOUGH	150
305.50	HERNANDEZ RESERVOIR	590
306.00	ELKHORN SLOUGH	2100
306.00	MOSS LANDING HARBOR	400
309..81	✓ LAS TABLAS CREEK, NORTH FORK	5
309.10	BLANCO DRAIN	8
309.10	ESPINOSA SLOUGH	320
309.10	MORO COJO SLOUGH	150
309.10	OLD SALINAS RIVER	5
309.10	OLD SALINAS RIVER EST	50
309.10	SALINAS LAGOON	150
309.10	SALINAS RIVER	180
309.10	TEMLADERO SLOUGH	1000
309.20	SALINAS RECLAMATION CANAL	20
309.50	MONTEREY BAY SOUTH	67840
309.50	MONTEREY HARBOR	74
309.70	CHALONE CREEK	15
309.70	PANCHO RICO CREEK	15
309.70	SAN LORENZO CREEK	39
309.81	✓ LAS TABLAS CREEK	5
309.81	✓ LAS TABLAS CREEK, SOUTH FORK	4
309.82	✓ NACIMIENTO RESERVOIR	5370
310.22	CHORRO CREEK	13
310.22	LOS OSOS CREEK	8
310.22	MORRO BAY	3200
310.24	SAN LUIS OBISPO CREEK	15
314.00	SANTA YNEZ RIVER	70
315.31	GOLETA SLOUGH/ESTUARY	400
315.32	ARROYO BURRO CREEK	5
315.32	MISSION CREEK	7
315.34	CARPINTERIA MARSH (EL ESTERO MARSH)	215
402.10	REVOLON SLOUGH	9
403.11	CALLEGUAS CREEK	22
403.11	MUGU LAGOON	1500
403.51	ELIZABETH LAKE	90
403.51	HUGHES LAKE	40
405.12	COLORADO LAGOON	13
405.12	HARBOR PARK LAKE	50
405.12	LONG BEACH HARBOR (INNER)	840
405.12	LOS ANGELES HARBOR (INNER)	1260
405.13	BALLONA WETLANDS	150
405.13	MARINA DEL REY HARBOR	354
405.13	SANTA MONICA BAY (VENTURA CO.LINE TO POI)	256000
405.15	SAN GABRIEL RIVER (TIDAL PRISH)	3
405.52	PUDDINGSTONE RESERVOIR	490
	DOLLY CREEK	1
	PANOCHÉ CREEK	1
	SACRAMENTO SLOUGH	1
500.00	SACRAMENTO RIVER (RED BLUFF TO DELTA)	215
505.10	WEST SQUAW CREEK	8

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<u>HYDROLOGIC</u> <u>UNIT NO.</u>	<u>WATER BODY NAME</u>	<u>SIZE</u>
506.1	SHASTA LAKE	29500
506.20	LITTLE BACKBONE CREEK	3
507.33	LITTLE COW CREEK	33
508.10	SACRAMENTO R.(SHASTA DAM TO RED BLUFF)	72
510.00	BEACH LAKE	295
512.21	BERRYESSA LAKE	20700
512.24	JAMES CREEK	6
513.32	DAVIS CREEK RES	290
513.51	HARLEY GULCH	8
513.51	SULFUR CREEK	7
513.52	CLEAR LAKE	43000
516.32	FRENCH RAVINE	1
517.32	HUMBUG CREEK	9
517.42	KANAKA CREEK	1
518.54	LITTLE GRIZZLY CREEK	10
519.21	AMERICAN RIVER	265
519.22	FEATHER RIVER, LOWER	12
519.22	NATOMAS EAST MAIN DRAIN	12
520.21	COLUSA DRAIN	70
524.40	KESWICK RES	650
524.40	SPRING CREEK	8
524.61	WISKEYTOWN RES	3251
524.63	WILLOW CREEK (WHISKEYTOWN)	15
526.20	HORSE CREEK	2
526.20	TOWN CREEK	3
526.40	FALL RIVER (PIT)	25
531.20	MOKELUMNE RIVER, LOWER	20
531.40	LONE TREE CREEK	15
531.40	TEMPLE CREEK	10
535.00	MERCED RIVER, LOWER	90
535.30	STANISLAUS RIVER (LOWER)	48
535.50	LATERAL #5	5
535.50	TUOLUMNE RIVER (LOWER)	50
541.10	ORESTIMBA CREEK	3
541.20	GRASSLANDS MARSHES	8224
541.20	MUD SLOUGH	14
541.20	SALT SLOUGH	15
542.20	SAN CARLOS CREEK	1
543.00	DELTA (S.J. AT ANTIOCH)	1
543.00	DUNN CREEK	9
543.00	MARSH CREEK	24
543.00	MARSH CREEK RES	375
544.00	DELTA WATERWAYS	700
544.00	MIDDLE RIVER	30
544.00	NEW MORMON SLOUGH	1
544.00	OLD MORMON SLOUGH	1
544.00	OLD RIVER	48
544.00	PORT OF STOCKTON	1
544.00	SAN JOAQUIN RIVER	330
551.90	KINGS RIVER (LOWER)	95
601.00	LEE VINING CREEK	1
601.00	MILL CREEK (1)	1

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<u>HYDROLOGIC</u> <u>UNIT NO.</u>	<u>WATER BODY NAME</u>	<u>SIZE</u>
601.00	MONO LAKE	35000
601.00	MONO LAKE AREA WETLANDS	1
601.00	PARKER CREEK	1
601.00	RUSH CREEK (1)	1
601.00	WALKER CREEK	1
601.00	WILSON CREEK	1
603.00	KEOUGH HOT SPRINGS	1
603.10	HOT CREEK (2)	10
603.20	BIG PINE CREEK	1
603.20	BISHOP CREEK	30
603.20	HORTON CREEK	1
603.20	PELLISIER CREEK	1
603.30	COTTONWOOD CREEK (1)	1
603.30	DIVISION CREEK	1
603.30	OWENS LAKE	175
603.30	OWENS LAKE WETLANDS	1
603.30	OWENS RIVER	120
605.00	DEEP SPRINGS LAKE	1
609.00	AMARGOSA RIVER	198
621.00	SEARLES LAKE	26100
628.20	GRASS VALLEY LAKE	20
628.20	GREEN VALLEY LAKE CREEK	5
628.20	MOJAVE RIVER	100
630.10	EAST WALKER RIVER	13
630.40	HOT CREEK (1)	1
631.00	FALES HOT SPRINGS	1
631.00	WEST WALKER RIVER	47
631.10	RODRIGUEZ CREEK	1
631.10	TOPAZ LAKE	2300
632.00	CARSON RIVER, E FK	46
632.10	ASPEN CREEK	4
632.10	BRYANT CREEK	4
632.10	LEVIATHAN CREEK	4
632.10	MONITOR CREEK	4
632.20	INDIAN CREEK (1)	1
632.20	INDIAN CREEK RES	160
633.00	CARSON RIVER, W FK	28
634.10	HEAVENLY VALLEY CREEK	1
634.20	BLACKWOOD CREEK	1
634.20	MARTIS CREEK	12
634.30	LAKE TAHOE	120000
635.00	CINDER CONE SPRINGS	1
635.20	SQUAW CREEK MEADOW WETLANDS	1
637.00	LASSEN CREEK	1
637.20	AMEDEE HOT SPRINGS	1
637.20	HONEY LAKE	55327
637.20	HONEY LAKE AREA WETLANDS	1
637.20	HONEY LAKE WILDFOWL MGMT.	500
637.20	SUSAN RIVER	59
637.20	TOP SPRING	1
637.20	WENDEL HOT SPRINGS	1
637.30	EAGLE LAKE (2)	25000

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<u>HYDROLOGIC UNIT NO.</u>	<u>WATER BODY NAME</u>	<u>SIZE</u>
637.30	PINE CREEK (2)	1
641.00	ALKALI LAKE, LOWER	10855
641.00	ALKALI LAKE, MIDDLE	39475
641.00	ALKALI LAKE, UPPER	24250
641.30	MILL CREEK (3)	1
715.40	PALO VERDE OUTFALL DRAIN	16
719.47	COACHELLA VALLEY STORM CHANNEL	20
723.10	ALAMO RIVER	52
723.10	IMPERIAL VALLEY DRAINS	1305
723.10	NEW RIVER	60
728.00	SALTON SEA	220000
801.11	HUNTINGTON HARBOUR	150
801.11	NEWPORT BAY, LOWER	700
801.11	SAN DIEGO CREEK, REACH 1	6
801.11	SAN DIEGO CREEK, REACH 2	6
801.11	UPPER NEWPORT BAY ECOLOGICAL RESERVE	752
801.13	SANTA ANA RIVER, REACH 2	19
801.20	SANTA ANA RIVER, REACH 3	18
801.27	EVANS, LAKE	42
801.27	SANTA ANA RIVER, REACH 4	12
801.62	SAN TIMOTEO CREEK, REACH 4	14
.	COASTLINE OF SAN DIEGO REGION	102
901.10	ALISO CREEK	20
901.20	ARROYO TRABUCO	1
901.20	SAN JUAN CREEK	9
902.11	OCEANSIDE HARBOR	210
902.11	SANTA MARGARITA LAGOON	268
904.31	AGUA HEDIONDA LAGOON	400
904.51	BATIQUITOS LAGOON	420
904.61	SAN ELIJO LAGOON	330
906.10	LOS PENASQUITOS LAGOON	385
906.40	FAMOSA SLOUGH	31
906.40	MISSION BAY	1520
908.21	SAN DIEGO BAY	12000
911.11	TIJUANA EST SHORELINE	10
911.11	TIJUANA RIVER	7
911.11	TIJUANA RIVER ESTUARY	150

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Wetlands

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
GRASSLANDS MARSHES	541.20	0	0	8224	0	8224	Yes	Aquatic life impairment Wildlife impairment Selenium, TDS	Non-Point	X X . . X . X

Resource Value: 2

Problem Description:
 Problem Source(s):
 Current Actions:

HONEY LAKE AREA WETLANDS	637.20	0	0	1	0	1	Yes	Geothermal impacts Agricultural impacts (see Honey Lake)	Point & Non-Point	X X . . X . X
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Resource Value: 3

Problem Description: agricultural drainage, geothermal impacts
 Problem Source(s):
 Current Actions:

MONO LAKE AREA WETLANDS	601.00	0	0	1	0	1	Yes	Water diversions (see Mono Lake)	Non-Point	X X . . X . X
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Resource Value: 3

Problem Description: water diversions threaten ASBS , (see Mono Lake HU)
 Problem Source(s):
 Current Actions:

OWENS LAKE WETLANDS	603.30	0	0	1	0	1	Yes	Water diversions (see Owens River)	Non-Point	X X . . X . X
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Resource Value: 3

Problem Description: water diversion impacts
 Problem Source(s):

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Water Body Name	Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Hydrologic Good	Inter-mediate	Impaired	Unknown					

TEMLADERO SLOUGH	309.10	0	0	1000	0	1000	Yes	Potential water quality limited segment Elevated pesticides in fish tissue Ag/Urban runoff entering slough	Non-Point	X X . . X . X
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Resource Value: 3

Problem Description: Elevated levels of toxic organic chemicals have been found in waters draining into the slough, non-point source Ag/Urban inputs difficult to control. High Dacthal concentrations found in TSM samples.

Problem Source(s): Ag and Urban runoff

Current Actions:

AMEDEE HOT SPRINGS	637.20	0	0	1	0	1	Yes	Objectives violated Geothermal springs (see Honey Lake)	Non-Point	X X . . X . X
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Resource Value: 4

Problem Description: Objectives violated, geothermal springs

Problem Source(s):

Current Actions:

CINDER CONE SPRINGS	635.00	0	0	1	0	1	Yes	Objectives violated Domestic wastewater impacts (see Truckee River)	Non-Point	X X . . X . X
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Resource Value: 4

Problem Description: objectives violates, domestic wastewater impacts

Problem Source(s):

Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists
		Good	Inter- mediate	Impaired	Unknown					1 D M S L
ESPINOSA SLOUGH	309.10	0	0	320	0	320	Yes	Return Ag flows carrying pesticides. Objectives violated Elevated fish tissue levels	Non-Point	3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L
Resource Value: 4										

Problem Description: High DDT levels to and in shellfishmonitored by SMW. TSM found elevated levels of Toxaphene, Total Chlorodane, Dacthal, Dieldrin, and Hexachlorobenzene.

Problem Source(s): Chemicals associated with Agpractices.

Current Actions:

FALES HOT SPRINGS	631.00	0	0	1	0	1	Yes	Geothermal springs Arsenic, uranium (see West Walker River)	Non-Point	X X . . X . X
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Resource Value: 4

Problem Description: geothermal springs, arsenic, uranium

Problem Source(s):

Current Actions:

KEOUGH HOT SPRINGS	603.00	0	0	1	0	1	Yes	High fluoride (see Owens River)	Non-Point	X X . . X . X
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Resource Value: 4

Problem Description: high fluoride

Problem Source(s):

Current Actions:

MUD SLOUGH	541.20	0	0	14	0	14	Yes	Selenium, TDS Fisheries habitat degradation	Non-Point	X X . . X . X
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Resource Value: 4

Problem Description:

Problem Source(s):

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
<u>Current Actions:</u>										
SALT SLOUGH	541.20	0	0	15	0	15	Yes	Aquatic life impairments Selenium, TDS, pesticides		X X . . X . X
<u>Resource Value:</u> 4										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
SQUAW CREEK MEADOW WETLANDS	635.20	0	0	1	0	1	Yes	Wetlands alteration Impacts of recreation (see Truckee River)	Non-Point	X X . . X . X
<u>Resource Value:</u> 4										
<u>Problem Description:</u> wetlands alteration, impacts of recreation										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
TOP SPRING	637.20	0	0	1	0	1	Yes	Drinking water impairment Objectives violated (see Honey Lake)	Non-Point	X X . . X . X
<u>Resource Value:</u> 4										
<u>Problem Description:</u> drinking water impairment										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
WENDEL HOT SPRINGS	637.20	0	0	1	0	1	Yes	Objectives violated Geothermal springs (see Honey Lake)	Non-Point	X X . . X . X
<u>Resource Value:</u> 4										
<u>Problem Description:</u> geothermal springs										

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
NEW MORMON SLOUGH	544.00	0	0	1	0	1		Elevated fish tissue levels Health advisory for Hg	Non-Point	.	X	.	.	X	.	X
<u>Resource Value: 5</u>																
<u>Problem Description:</u>																
<u>Problem Source(s):</u>																
<u>Current Actions:</u>																
OLD MORMON SLOUGH	544.00	0	0	1	0	1		Elevated fish tissue levels Health advisory for Hg	Non-Point	.	X	.	.	X	.	X
<u>Resource Value: 5</u>																
<u>Problem Description:</u>																
<u>Problem Source(s):</u>																
<u>Current Actions:</u>																
SACRAMENTO SLOUGH		0	0	1	0	1	Yes	Elevated fish tissue levels	Non-Point	X	X	.	.	X	.	X
<u>Resource Value: 5</u>																

Problem Description: Fish tissue routinely exceeds NAS guidelines for mercury. In bioassay tests, the slough periodically tests toxic to the fish and invertebrate species.

Problem Source(s): The source of the mercury is unknown. The toxicity is probably related to agricultural discharges.

Current Actions: Intensive work is underway at Colusa Basin Drain. Control strategies developed there should be applicable in the slough.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
AMERICAN RIVER	519.21	242	0	23	0	265	Yes	Toxic bioassay results Threat of elevated fish tissue levels Fisheries habitat degradation	Non-Point	X X . . X . X
<u>Resource Value: 1</u>										

Problem Description: Fish occasionally exceed mercury NAS guideline and consistently approach the chlordane NAS guideline. Fish exceed the NAS criteria for Group A pesticides. Bioassay results have shown acute toxicity in the River following discharges of urban stormwater runoff. Periodic chronic toxicity was observed at other times. Discharge significance to the Sacramento River and Delta is unknown.

Problem Source(s): Urban runoff is the likely source for chlordane, Group A pesticides and toxicity observed during storm events. Past mining activity probably responsible for mercury and toxicity.

Current Actions: Sacramento City and County are conducting an urban runoff study to further refine previous Regional Board findings that significant in-River toxicity was present during storm induced urban runoff. Bioassay results suggest that there are sources of toxicity unrelated to urban runoff. Follow-up source investigations have not been initiated. Routine regulatory activities continue at point and nonpoint sources.

DELTA (S.J. AT ANTIOCH)	543.00	0	0	1	0	1	Yes	Dioxin discharge	Point	X X . X X . .
<u>Resource Value: 1</u>										

Problem Description:
Problem Source(s):
Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
DELTA WATERWAYS	544.00	0	0	700	0	700	Yes	Health advisories for Hg Fisheries habitat impairment Elevated Dioxin, pesticides	Non-Point	X X . . X . X
<u>Resource Value: 1</u>										

Problem Description: Fish routinely exceed FDA/NAS guidelines for mercury, PCB and DDT; occasionally exceed FDA guideline for chlordane; routinely exceed NAS guideline for chlordane and toxaphene. A consumer health advisory is in effect for mercury in striped bass. Levels of other constituents in fish and invertebrates may pose a human health risk if consumed. In a localized area fish contain elevated dioxin levels.

Problem Source(s): In-Delta and upstream agricultural sources. Mercury and other metals are from upstream mines and natural sources.

Current Actions: A principle source of dioxin in the Delta is under investigation. A mercury abatement project is underway at an upstream mine (Sulphur Bank). Past survey work suggests that mercury sources are widespread. A PCB study indicated that sources are widespread and not concentrated. Limited work has been done on the San Joaquin to define sources of the pesticides that accumulate in fish tissues.

FEATHER RIVER, LOWER	519.22	0	0	12	0	12	Yes	Elevated fish tissue levels Toxic bioassay results Fisheries habitat impairment	Non-Point	X X . . X . X
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Resource Value: 1

Problem Description: Fish routinely exceed NAS guidelines for mercury, Group A pesticides and toxaphene. Bioassay results suggest periodic toxicity.

Problem Source(s): Past mining activity is the probable source of mercury. Presumably pesticides come from agricultural discharges. The source of toxicity is unknown.

Current Actions: Limited toxicity testing is underway. No specific sources have been identified. Routine regulatory activities continue at applicable NPDES facilities and other nonpoint sources.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
SACRAMENTO R.(SHASTA DAM TO RED BLUFF)	508.10	0	12	60	0	72	Yes	Elevated fish tissue levels Fisheries habitat degradation Fish kills, warm water, Dioxin	Non-Point	X X . X X . X
<u>Resource Value: 1</u>										

Problem Description: Heavy metals cause reductions in fish and invertebrate populations. Massive fish kills have occurred in the past. Warm water releases from Shasta Dam have periodically impacted the cold water fishery. Fish in the vicinity of Anderson and Red Bluff have elevated levels of dioxin.

Problem Source(s): Iron Mountain Mine and others are the source of metals. Increased temperatures are due to release patterns from Shasta Dam. Simpson Paper Co. is the likely source of dioxin.

Current Actions: Abatement projects are underway at Iron Mountain, Mammoth, Keystone, Stowell, Balaklala, Bully Hill, Afterthought, and Greenhorn Mine. Waste discharge requirements were adopted to control the temperature of releases from Shasta Dam (and subsequently rescinded). Requirements have been revised for Simpson Paper Co. to address Dioxins (a 90% reduction has been obtained thus far) Routine regulatory activities and assessment work continue.

SACRAMENTO RIVER (RED BLUFF TO DELTA)	500.00	80	75	60	0	215	Yes	Toxic bioassay results Degraded fisheries habitat Low flows, warm water	Non-Point	X X . . X . X
<u>Resource Value: 1</u>										

Problem Description: Bioassay results suggest periodic toxicity in the River.

Problem Source(s): Unknown

Current Actions: Toxicity testing continues in this portion of the River. Routine regulatory activity continues at applicable NPDES facilities and nonpoint sources.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists							
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L			
OWENS RIVER	603.30	1	0	1	118	120	Yes	Elevated fish tissue levels Fish kills Fish population decline	Non-Point	X	X	.	.	X	.	X	.
<u>Resource Value:</u> 2																	

Problem Description: Includes surface waters in the Owens HU.NPS pollution from ski areas, grazing, recreational use and development. Severe diversions of SW by LADWP has caused dewatering of streams with resultant fish kills and loss of habitat. Proposed small hydro projects may also reduce stream flows needed for fisheries.

Problem Source(s): NPS erosion from ski areas, urban development and LADWP diversions.

Current Actions: Regulation (BMPs) of large land disturbance projects. Limited review of proposed hydro. projects.

SAN JOAQUIN RIVER	544.00	155	75	100	0	330	Yes	Fish population decline Elevated fish tissue levels Toxic bioassay results	Non-Point	X	X	.	.	X	.	X	.
<u>Resource Value:</u> 2																	

Problem Description: Selenium, salt and boron may be evaluated. Fish at Vernalis contain elevated pesticide levels (exceeding NAS guidelines). Bioassay results suggest periodic toxicity in the River. All tributaries have tested toxic (sometimes acutely) at some time. Impacts on the Delta are unmeasured and unknown.

Problem Source(s): Agricultural discharges and, to a lesser extent, point source discharges.

Current Actions: Adopted management plan emphasizes reduction in drainage flows and continual, in-depth, monitoring to evaluate whether plan objectives are being met. Toxicity testing in the River is ongoing. Follow-up work has been initiated where problems are discovered. Regulatory programs continue at applicable NPDES facilities and at nonpoint sources (mainly dairies, applicators, and irrigated agriculture). In FY 89-90, about \$300,000 in contracts was used.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists
		Good	Inter-mediate	Impaired	Unknown					1 D M S L
CARSON RIVER, E FK	632.00	0	0	1	45	46	Yes	Objectives violated Recreational impacts	Non-Point	3 3 3 3 3 3 1 0 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L
Resource Value: 3										

Problem Description: Includes all surface and ground waters of the "Markleeville HA (632.10)" except for the Bryant Creek watershed (see separate Fact Sheet). State of Nevada considers river uses impaired downstream of state line due to pH criteria violations. Brown trout livers exceeded EDL 85 for chromium, zinc, silver in SWRCB TSMP. Monitor Creek exceeds sulfate objective and shows significantly reduced benthic (cont)

Problem Source(s): Inactive mines, natural high metals levels in soils, septic systems, road/"urban" runoff, livestock grazing timber harvest, local heavy recreational use, reservoir mgmnt practices (cont)

Current Actions:

Section 205(j) wasteload allocation study of Monitor Creek; ongoing regulation and enforcement including Markleeville PUD, Timber harvest review.

EAST WALKER RIVER	630.10	1	0	1	11	13	Yes	Objectives violated Recreational impacts Sedimentation	Non-Point	X X . . X . X
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Resource Value: 3

Problem Description: Includes all surface and ground waters tributary to East Walker River in CA, and tributary water in the Sweet water Mountains and Bodie Hills which cross the state line separately. Nevada considers river impaired at state line due to sediment, unionized ammonia, pH and phosphorus problems. Fish kills in river below Bridgeport Res. Metals levels in trout livers among highest reported in TSMP (cont.)

Problem Source(s): NPS including res. mgmnt. and other hydrologic modification, high natural metals levels in part of watershed, past mining activity, septic systems, wetlands alteration, (cont.)

Current Actions: (0.2 PY per year for 12 years)

Regulation and enforcement activities in Bridgeport and Twin Lakes Areas. Coordination with other state and federal agency land management activities (e.g., Clark Canyon CRMP). Ongoing work with Walker R. Irrigation Dist. and with SWRCB Water Rights to resolve problems associated w/ Bridgeport Reservoir releases.

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		Good	Inter-mediate	Impaired	Unknown					3 3 3 3 3 3
LAGUNA DE SANTA ROSA	114.21	0	0	26	0	26	Yes	LOW DISSOLVED OXYGEN AND HIGH AMMONIA LEVEL DUE TO NPS DISCHARGES HAVE IMPAIRED FISH AND WILDLIFE HABITAT	Point & Non-Point	1 0 0 0 1 1 3 4 4 4 9 1 1 D M S L

Resource Value: 3

Problem Description:
 Problem Source(s):
 Current Actions:

MOJAVE RIVER	628.20	90	0	10	0	100	Yes	Recreational impacts Elevated fish tissue levels Sedimentation	Point & Non-Point	X X . . X . X
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Resource Value: 3

Problem Description: Includes waters of the Upper Mojave HU. NPS pollution from ski areas, recreational use and development (urban runoff). Unsewered areas on septic systems threaten SW and GW quality. Contaminated GW from fuel tank leaks.
 Problem Source(s): NP erosion from ski areas and urban development. Pesticide runoff from golf course and houses. Boat use on drinking water res (Lake Arrowhead). Septic tanks. UGT fuel leaks.
 Current Actions: WDRs on large land development projects. Existing Basin Plan prohibition on new septic systems in specific areas.

NAPA RIVER	206.50	0	15	40	0	55	Yes	Eutrophication Sedimentation Degradation of fisheries habitat	Non-Point	. X . . X . X
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Resource Value: 3

Problem Description: Impact of development and agricultural activities on water quality
 Problem Source(s): Nonpoint source pollution
 Current Actions: * Point source dry weather discharge prohibition

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Water Body Name	Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Hydrologic	Good	Inter-mediate	Impaired					Unknown	D	M	S	L		
PETALUMA RIVER	206.30	0	5	20	0	25	Yes	Eutrophication Sedimentation Fisheries habitat degradation	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> 3																

Problem Description: Impact of development on water quality dueto erosion/dairy waste

Problem Source(s): Nonpoint source pollution

Current Actions: Point source prohibition of discharge during the dry weather period

SALINAS RIVER	309.10	120	30	30	0	180	Yes	Potential Water Quality Limited Segment Ag return flows carrying toxic organics Elevated shellfish tissue levels	Point & Non-Point	X	X	X	.	X	.	X
<u>Resource Value:</u> 3																

Problem Description: Lower 50 miles of Salinas Valley usedextensively for Agricultural purposes. Fertlizers, pesticides, and herbicides associated with drainage waters contributing to water qualitydegradation. High bacterial numbers may be associated with non-point source runoff.

Problem Source(s): Agriculture and urban develop-ment.

Current Actions: Studies proposed for 1990-92 include possible waste load allocation, water \ quality objectives, review of current beneficial uses, and a salt study, allof which pertain to the Basin Plan BCD.

SAN LORENZO RIVER	304.12	0	20	5	0	25	Yes	Drinking water impairment Fish population decline Sedimentation/Elevated bacteria levels	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> 3																

Problem Description:

Problem Source(s):

Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
SANTA ANA RIVER, REACH 2	801.13	0	0	19	0	19	Yes	Threat of toxic bioassay results Recreational impacts Objectives violated due to Reach 4	Non-Point	X	X	.	.	X	.	X

Resource Value: 3

Problem Description: Non-point source inputs from +400 dairies and three upstream secondary treated municipal wastewater (remaining POTWs have tertiary treatment) result in beneficial uses not being met (REC-1, WARM). Increasing wastewater flows also cause the objectives for nitrogen, BOD and COD to be violated. Because of possible toxicity due to metals, EPA has proposed that the river be placed on the 304 list.

Problem Source(s): Municipal wastewater treatment plant discharges; Wastewater and runoff from dairies.

Current Actions: Cease and desist orders have been issued to the municipal wastewater dischargers requiring them to provide advanced wastewater treatment for any discharge to the River. Waste discharge requirements have been issued to all dairies requiring them to contain all wastewater on site. Wasteload allocations for nitrogen are being developed for the River dischargers and permits will be updated to reflect the new allocations. Baseline monitoring.

SANTA ANA RIVER, REACH 3	801.20	0	0	18	0	18	Yes	Threat of toxic bioassay results Recreational impacts Objectives violated due to Reach 4	Point & Non-Point	X	X	.	.	X	.	X
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Resource Value: 3

Problem Description: The River is not safe for water contact recreation because of three secondary treated municipal wastewater discharges and the limited dilution capability of the River. Increasing wastewater flows are contributing to violations of nitrogen objectives and threatening downstream drinking water supplies. In addition there are non-point source pollution problems from dairies.

Problem Source(s): Three secondary treated municipal wastewater discharges; dairies.

Current Actions: Cease and desist orders have been issued to the municipal wastewater dischargers requiring them to provide advanced wastewater treatment for any discharge to the River. A nitrogen study for the River is underway which will lead to new wasteload allocations for nitrogen for the River dischargers. Waste discharge requirements have been issued to all dairies requiring containment of all wastewater and contaminated runoff onsite.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
SANTA ANA RIVER, REACH 4	801.27	0	0	12	0	12	Yes	Objectives violated Threat of toxic bioassay results Recreational impacts	Point & Non-Point	X X . . X . X

Resource Value: 3

Problem Description: The River is not safe for water contact recreation due to three secondary treated municipal wastewater discharges and the limited dilution capability of the river. Increasing wastewater flows are contributing to violations of downstream nitrogen objectives and may be causing increases in nitrate levels in downstream groundwater basins. Unionized ammonia may be adversely affecting warmwater habitat beneficial uses.

Problem Source(s): Three secondary treated municipal wastewater discharges.

Current Actions: Cease and desist orders have been issued to the municipal wastewater dischargers requiring them to provide advanced treatment for any discharge to the River. A nitrogen study for the River is currently underway which will result in new wasteload allocations for nitrogen for the River dischargers. A study is underway to determine the effect of unionized ammonia on aquatic life in the River.

SANTA YNEZ RIVER	314.00	0	59	11	0	70	Yes	Excessive TDS/Conductivity Low flows have reduced fish survival Coliform levels may impair REC-1	Non-Point	. X . . X . X
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Resource Value: 3

Problem Description:
Problem Source(s):
Current Actions:

STANISLAUS RIVER (LOWER)	535.30	0	0	48	0	48	Yes	Elevated fish tissue levels Toxic bioassay results Threat of fish population decline	Non-Point	X X . . X . X
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Resource Value: 3

Problem Description: Fish in the lower Stanislaus River routinely exceed MAS guidelines for toxaphene and Group A pesticides and occasionally exceed MAS guidelines for DDT and Chlordane. In bioassay tests, the river occasionally tests toxic to the fish and invertebrate species.

Problem Source(s): Present and past agricultural practices probably account for the pesticides in fish. The cause of toxicity is unknown.

Current Actions: Toxicity testing continues in the San Joaquin River and major tributaries.

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Water Quality Condition

Hydrologic

Inter-

Total Fact

Water Body Name Unit No. Good mediate Impaired Unknown Size Sheet Problem Description Problem Source 1 D M S L

Routine regulatory work continues on NPDES facilities and on nonpoint sources (mainly dairies, pesticide applicators, irrigated agriculture).

WEST WALKER RIVER	631.00	0	0	1	0	47	Yes	Sedimentation Agricultural drainage	Non-Point	X X . . X . X
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Resource Value: 3

Problem Description: Includes all SW & GW of the W.Walker R. HU in CA, w/ minor streams which join main river in Nevada. Nevada considers river and Topaz Lk not supporting beneficial uses at stateline due to pH & unionized ammonia criteria violations. Nevada also reports Antelope Valley GW high in nitrate,w/locally high concentrations of arsenic,fluoride,boron and sodium. Reported CA problems include sedimentation and sediment- (cont)

Problem Source(s): High natural levels of trace elements, agricultural drainage, septic systems, watershed disturbance due to grazing,timber harvest,mining,highway and "urban" runoff, heavy rec. use

Current Actions: Ongoing regulation and enforcement activities, including USMC Mnt. Warfare

Training Cntr activity,development on septic systems in Walker-Coleville, proposed hydro. development and timber harvest activities. Update of SW nutrient objectives planned for spring of 1990, hazardous waste cleanup at USMC training cntr.,underground tank cleanup

ALAMEDA CREEK	204.30	0	0	27	0	27	Yes	Threat of recreational impacts Fisheries habitat degradation	Non-Point	X X . . X . X
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Resource Value: 4

Problem Description: Potential violation of surface water objectives for total dissolved solids(500 ppm) and chlorides(250 ppm). One large mouth bass tissue sample for mercury (6/11/85) was determined to be 0.52 ppm(SWRCB Toxic Monitoring Program)

Problem Source(s): Nonpoint source urban runoff

Current Actions: * Wastewater exported to San Francisco Bay

* Wastewater management plan adopted by Alameda Co. Flood Ctl Dist(Zone 7) * Prohibition of Wastewater discharge which has particular characteristics of concern to beneficial uses when no natural flow occurs.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter- mediate	Impaired	Unknown					1	D	M	S	L		
ALAMITOS CREEK	205.40	0	0	14	7	21	Yes	Recreational impacts High concentrations of mercury in fish	Non-Point	X	X	.	.	X	.	X

Resource Value: 4

Problem Description: High levels of mercury in fish tissue as revealed in the Toxic Substance Monitoring Program. Elevated Hg in fish tissue in excess of FDA action levels (21 fish). Mercury levels ranged from 1.3- 2.8 ppm with a mean of 1.9 ppm.

Problem Source(s): Abandoned mine waste

Current Actions: Alamitos Creek has been posted warning of consumption of fish flesh

Abandoned mine is on State superfund list (no action to date) Prohibition of wastewater discharge with characteristics of concern to beneficial uses in nontidal waters

ALAMO RIVER	723.10	0	0	52	0	52	Yes	Elevated fish tissue levels Recreational impacts Threat of toxic bioassay results	Non-Point	X	X	.	.	X	.	X
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Resource Value: 4

Problem Description: High levels of bacteria, suspended solids, pesticides, and fertilizers.

Problem Source(s): Agricultural (non-point source) discharges from Imperial Valley.

Current Actions: Researching the feasibility of using desiltation basins and biological treatment on agricultural drainage waters entering Alamo River. Recommending the use of Best Management Practices. Conducting regular water quality monitoring and TSMP monitoring. Controlling point source discharges by NPDES Permits. Monitoring cost estimates included under New River.

AMERICANO CREEK	115.30	0	0	7	0	7	Yes	SEDIMENTATION, LOW DISSOLVED OXYGEN AND HIGH AMMONIA LEVELS FROM NPS DISCHARGES HAVE IMPAIRED FISH AND WILDLIFE HABITAT		.	X	.	.	X	.	X
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Resource Value: 4

Problem Description:

Problem Source(s):

Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
CALLEGUAS CREEK	403.11	0	0	22	0	22	Yes	Elevated fish tissue levels Elevated shellfish tissue levels Threat of drinking water impairment	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> 4																

Problem Description: Toxaphene, DDT - exceed NAS (TSM) Endosulphan exceeds E-95 (TSM)
Problem Source(s): NONPOINT: Historic and recent pesticide residues from agricultural runoff
Current Actions: 1. New study area for SMW 2. Annual TSM sampling since 1983.
 3. Monitoring and Assessment

CARSON RIVER, W FK	633.00	0	0	1	27	28	Yes	Objectives violated Recreational impacts Grazing impacts	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> 4																

Problem Description: Includes all surface and ground waters of the W.Fk.Carson R. HU in CA. Nevada identifies excessive concentrations of total phosphorus and fecal coliform bacteria in river at state line. Nevada STORET data show mercury levels above EPA chronic criteria. Recreational uses in upper watershed affected by impacts of livestock grazing and water diversions for irrigation and flushing of Indian Ck.Res, especially (cont.)
Problem Source(s): Animal waste mgmnt., agricultural drainage, hydrological modification, watershed disturbance due to forest fires, livestock grazing, timber harvest, gravel quarry; past mining in (cont.)
Current Actions: Regulation and enforcement, including reclamation requirements on ranchers irrigating with advanced secondary effluent. Timber harvest review, septic tank discharge regulation.

FALL RIVER (PIT)	526.40	0	24	1	0	25		Fisheries habitat degradation Inadequate flows Over grazing	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> 4																

Problem Description:
Problem Source(s):
Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
GUADALUPE RIVER	205.40	0	0	12	0	12	Yes	Elevated fish tissue levels Fish population decline	Non-Point	X X . . X . X

Resource Value: 4

Problem Description: Mercury levels in 21 largemouth bass fish tissue samples ranged from 0.71 - 1.2 ppm with a mean of 0.9 ppm. Four samples equaled or exceeded the FDA action level (1.0 ppm) while the remaining exceeded the DHS advisory level (0.5 ppm).

Problem Source(s):

Current Actions: Guadalupe river has been posted warning of public health concerns for mercury in fish

HOT CREEK (1)	630.40	0	0	1	0	1	Yes	Possible metals problems (see West Walker River)	Non-Point	X X . . X . X
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Resource Value: 4

Problem Description: possible metals problems

Problem Source(s):

Current Actions:

KINGS RIVER (LOWER)	551.90	65	0	30	0	95	Yes	Elevated fish tissue levels Objectives violated TDS	Non-Point	X X . . X . X
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Resource Value: 4

Problem Description: 30 miles of this stream contain EC levels and TDS levels higher than basin plan objectives. Fish contain elevated levels of copper, arsenic, toxaphene, and group A pesticides.

Problem Source(s): Subsurface agricultural drainage discharges.

Current Actions: Regional Board is conducting a study to assess the extent of the problem.

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		Good	Inter-mediate	Impaired	Unknown					1 D M S L
LAGUNITAS CREEK	201.13	0	0	22	0	22	Yes	Sedimentation	Non-Point	3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L
Resource Value: 4										

Problem Description: Impacts of development on water quality
Problem Source(s): Nonpoint pollution
Current Actions:
 CEQA evaluation of erosion control and septic systems on water quality

MERCED RIVER, LOWER	535.00	30	0	60	0	90	Yes	Elevated fish tissue levels Toxic bioassay results Fish habitat impairments	Non-Point	X X . . X . X
Resource Value: 4										

Problem Description: Fish in the lower Merced River routinely exceed NAS guidelines for toxaphene and Group A pesticides and occasionally exceed NAS guidelines for Endosulfan and DDT. In bioassay tests, the river occasionally tests toxic to the fish and invertebrate species.
Problem Source(s): Discharges from present and past agricultural practices probably account for the pesticides in fish. The cause of the toxicity is unknown.
Current Actions: Toxicity testing continues in the San Joaquin River and major tributaries.
 Routine regulatory activities continue at applicable NPDES facilities and at nonpoint sources.

MOKELUMNE RIVER, LOWER	531.20	0	0	20	0	20	Yes	Threat of fish population decline Mine drainage, low flows Fish kills and habitat degradation	Non-Point	X X . . X . X
Resource Value: 4										

Problem Description: In the past, major fish kills occurred in the lower river (Camanche Reservoir and downstream) because of uncontrolled releases from Penn Mine. Abatement facilities constructed at the mine in 1977 have improved the situation. However, controlled releases and occasional uncontrolled releases (1983 and 1986) probably still result in downstream impacts.
Problem Source(s): Penn Mine and other upstream sources.
Current Actions: The effectiveness of existing abatement facilities is under investigation (see Camanche Reservoir fact sheet). Routine regulatory activities continue at applicable NPDES facilities and nonpoint discharges.

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		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
REVOLON SLOUGH	402.10	0	0	9	0	9	Yes	Elevated fish tissue levels Elevated shellfish tissue levels Threat of drinking water impairment	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> 4																
<u>Problem Description:</u> Pesticides > NAS, Bacteria > Objectives, PCB's > FDA, Chlordane																
<u>Problem Source(s):</u> NONPOINT: Agriculture runoff																
<u>Current Actions:</u> Sampling																
SAN JUAN CREEK	901.20	0	8	1	0	9	Yes	Recreational impacts Objectives violated periodic beach closures	Unknown	.	X	.	.	X	.	X
<u>Resource Value:</u> 4																
<u>Problem Description:</u> FECAL COLIFORM LEVELS PERIODICALLY EXCEED THE REC-1 STANDARD FROM AT LEAST 1 MILE INLAND TO THE MOUTH OF THE RIVER AT THE PACIFIC OCEAN. THE LEVELS HAVE CAUSED THE STATE HEALTH DEPT. TO PERIODICALLY CLOSE OFF THE MOUTH OF THE RIVER, LOCATED IN A STATE BEACH.																
<u>Problem Source(s):</u> nonpoint sources suspected. urban runoff with contributions of agricultural runoff.																
<u>Current Actions:</u> This waterbody was not previously identified to be impaired. Regional Board staff currently monitors known point source dischargers.																
SAN LUIS OBISPO CREEK	310.24	5	0	10	0	15	Yes	Threat of drinking water impairment Fish pop. decline/spawning impairment Sedimentation	Point & Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> 4																
<u>Problem Description:</u>																
<u>Problem Source(s):</u>																
<u>Current Actions:</u>																

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		Good	Inter-mediate	Impaired	Unknown					1 D M S L
SONOMA CREEK	206.40	0	9	14	0	23	Yes	Eutrophication Exceedance of coliform standard	Non-Point	3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L . X . . X . X

Resource Value: 4

Problem Description: Impact of development on water quality

Problem Source(s): Nonpoint source pollution - dairies

Current Actions: * Point source discharge during the dry weather period may be required

* Increased treatment being implemented

STEMPLE CREEK	115.40	0	0	17	0	17	Yes	SEDIMENTATION, LOW DISSOLVED OXYGEN AND HIGH AMMONIA LEVELS FROM NPS DISCHARGES HAVE IMPAIRED FISH AND WILDLIFE HABITAT		. X . . X . X
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Resource Value: 4

Problem Description:

Problem Source(s):

Current Actions:

SUSAN RIVER	637.20	0	45	14	0	59	Yes	Objectives violated Water diversions (see Honey Lake)	Point & Non-Point	X X . . X . X
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Resource Value: 4

Problem Description: objectives violated, water diversions

Problem Source(s):

Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
TUOLUMNE RIVER (LOWER)	535.50	0	0	50	0	50	Yes	Elevated fish tissue levels Toxic bioassay results Fish habitat degradation, low flows	Non-Point	X	X	.	.	X	.	X

Resource Value: 4

Problem Description: Fish in the lower Tuolumne River routinely exceed NAS guidelines for Toxaphene and Group A pesticides and occasionally for Endosulfan, DDT, and Chlordane. In bioassay tests, the River occasionally tests toxic to the fish species.

Problem Source(s): Present and past agricultural practices probably account for the pesticides in fish. The cause of toxicity is unknown.

Current Actions: Toxicity testing continues in the San Joaquin River and major tributaries.

Routine regulatory work continues at applicable NPDES facilities and at nonpoint sources (mainly dairies, applicators, and irrigated agriculture).

WALKER CREEK	601.00	0	0	1	0	1	Yes	Water Diversions (see Mono Lake)	Non-Point	.	X	.	.	X	.	X
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Resource Value: 4

Problem Description: water diversions, (see Mono HU)

Problem Source(s):

Current Actions:

WALKER CREEK (REG 2)	201.12	0	0	25	0	25	Yes	Nonpoint source pollution - dairies	Non-Point	.	X	.	.	X	.	X
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Resource Value: 4

Problem Description: Impact of development on water quality/dairies

Problem Source(s): Nonpoint source pollution

Current Actions: * Prohibition on discharge of any wastewater having characteristics of concern to beneficial uses into a nontidal water

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
ALISO CREEK	901.10	0	0	1	19	20	Yes	Bacterial contamination		. X . . X . X
<u>Resource Value: 5</u>										

Problem Description:
Problem Source(s):
Current Actions:

ARROYO DE LA LAGUNA	204.30	0	0	5	0	5	Yes	Total Dissolved Solid, Chlorides violate Non-Point objectives		. X . . X . X
<u>Resource Value: 5</u>										

Problem Description: Total dissolved solids, chloride
Problem Source(s): non-point source runoff
Current Actions: Wastewater exported to San Francisco Bay
 Wastewater management plan adopted by Alameda County Flood Control District (Zone 7).
 Prohibition of Wastewater discharge which has particular concern to beneficial uses when no natural flows occur

ARROYO TRABUCO	901.20	0	0	1	0	1	Yes	Heavy metals		. X . . X . X
<u>Resource Value: 5</u>										

Problem Description:
Problem Source(s):
Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists
		Good	Inter-mediate	Impaired	Unknown					1 D M S L
BRYANT CREEK	632.10	0	0	4	0	4	Yes	Objectives violated Fish kills Sedimentation	Non-Point	3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 X X . . X . X
Resource Value: 5										

Problem Description: Includes Bryant Creek and all tributary surface and ground waters in CA. Bryant Creek joins the E.Fk. Carson R. in Nevada. Bryant, Aspen and Leviathan Cks. are affected by acid drainage from the inactive Leviathan Mine and by sediment from the mine site and an unrelated large landslide. Almost no aquatic life exists in Bryant Creek downstream of the mine. Watershed also affected by livestock and other NPS.

Problem Source(s): Leviathan Mine is considered a NPS because it is inactive. Other NPS include livestock grazing, unpaved road close to Bryant Creek and the landslide noted above.

Current Actions: 0.5 PY and \$65,000 are expended as a yearly baseline amount. \$400,000 needed for concrete repairs. State has acquired mine site and mineral rights an implemented remedial project. Regional Board staff responsible for ongoing management and monitoring of site.

COACHELLA VALLEY STORM CHANNEL	719.47	0	0	20	0	20	Yes	Bacteria objective violated Threat of toxic bioassay results	Non-Point	. X . . X . X
Resource Value: 5										

Problem Description: Elevated levels of fecal coliform often exceed REC 1 objective.

Problem Source(s): Unknown.

Current Actions: None

LITTLE BACKBONE CREEK	506.20	2	0	1	0	3	Yes	Fish kills Fish population decline Objectives violated	Non-Point	X X . X X . X
Resource Value: 5										

Problem Description: Metals and low pH result in near sterile conditions in creek and cause fish kills where the creek empties into Lake Shasta. Significance of the discharge below Shasta Dam and in the Delta is unknown.

Problem Source(s): Mammoth and Golinski Mines

Current Actions: Seven of eight adit entrances were cleaned in preparation for plugging (\$400,000).

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Water Body Name	Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Hydrologic Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
LITTLE GRIZZLY CREEK	518.54	0	0	10	0	10	Yes	Fish population decline Mine drainage	Non-Point	X	X	.	X	X	.	X
Resource Value: 5																

Problem Description: Metals levels result in near sterile conditions in 10 miles of the creek. Impacts to downstream water bodies including the Feather River and the Delta are unknown.

Problem Source(s): Walker Mine

Current Actions: The mine portal has been sealed. Another project is underway to address tailings piles. Abatement facilities are expected to reduce annual copper loads to the Feather River (and Delta) by 200,000 lbs. Limited monitoring is being done to assess the effectiveness of abatement measures. Contract costs in FY 89-90 were about \$100,000.

NEW RIVER	723.10	0	0	60	0	60	Yes	Public health hazard Objectives violated Fish kills	Point & Non-Point	X	X	.	X	.	X
Resource Value: 5															

Problem Description: Severe public health hazard from bacterial contamination, most acute near international boundary; acute and chronic toxicity to aquatic life; negative aesthetic values from foam, debris, oil, grease, dead animals, foul odors, etc. High turbidity.

Problem Source(s): Point and non-point sources from Mexico; non-point sources (agriculture) from Imperial Valley, California.

Current Actions: Concerted effort between IBWC, SWRCB, and RWQCB-7 to address point source problem in Mexico the TSM Program. Region-7 is taking the lead in working with other interested agencies in investigating the use of desiltation basins and biological treatment of agricultural drainageways in Imperial Valley which are tributary to New River. Only the cost of regular monitoring by Region-7 is listed below

SAN LORENZO CREEK	309.70	0	0	39	0	39	Yes	Info Available from Mont. Co. Flood Cont		.	X	.	X	.	X
Resource Value: 5															

Problem Description:
Problem Source(s):
Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
SPRING CREEK	524.40	3	0	5	0	8	Yes	Fish kills Fish population decline Toxic bioassay results	Non-Point	X	X	.	X	X	.	X
<u>Resource Value:</u> 5																

Problem Description: Metals levels and low pH result in sterile conditions in 5 miles of Spring Creek and cause reductions in fish populations and benthos in Keswick Reservoir and possibly downstream. The SpringCreek discharge is the largest single contributor of copper, zinc, and cadmium, to the Sacramento River Basin, accounting for more than the combined discharges of agriculture, urban runoff and all the NPDES permits.

Problem Source(s): Iron Mountain Mine.

Current Actions: A Superfund project is underway and scheduled for completion in 1993. The abatement project is expected to reduce annual copper, zinc, and cadmium loads by 190,000 lbs., 800,000 lbs., and 5,000 lbs., respectively. Monitoring is done to evaluate the effectiveness of control measures.

TIJUANA RIVER	911.11	0	0	7	0	7	Yes	untreated domestic and industrial wastewater from city of Tijuana. Severe health problem exists. extensive rec impacts.	Point & Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> 5																

Problem Description: WATERSHED HAS BEEN POLLUTED WITH RAW SEWAGE FLOWS FROM MEXICO. SEDIMENTATION DUE TO INCREASED WATER FLOWS.

Problem Source(s): INTERNATIONAL SOURCE. RAW SEWAGE FLOWS ORIGINATING FROM TIJUANA.

Current Actions: REGIONAL BOARD, STATE BOARD, AND EPA STAFF, ALONG WITH SEVERAL INTERNATIONAL AGENCIES ARE INVOLVED IN DETERMINING THE LEVELS AND COST OF CLEAN-UP. A DUAL BORDER SEWAGE INTERCEPTOR SYSTEM HAS BEEN PROPOSED FOR CONSTRUCTION. REGIONAL BOARD STAFF REGULARLY SAMPLES FOR AMBIENT LEVELS OF THE POLLUTANTS OF CONCERN.

ALBA CREEK	304.13	0	0	1	0	1	Yes	Sedimentation Low flows	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description:
Problem Source(s):
Current Actions:

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		Good	Inter-mediate	Impaired	Unknown					1 D M S L
AMARGOSA RIVER	609.00	0	140	58	0	198	Yes	Sedimentation Natural high salinity	Non-Point	3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> natural high salinity, sedimentation										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
APTOS CREEK	304.13	0	7	1	0	8	Yes	Fish population decline Sedimentation Elevated bacteria levels	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
ARROYO BURRO CREEK	315.32	0	0	5	0	5	No	Threat of recreational impacts Bacteria in creek water may affect bacte- levels of shellfish in SB channel	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> Storm runoff into creek affects the bacteriological quality. Bacteria may affect human health through recreational contact and/or through consumption of contaminated drinking water or shellfish ingestion.										
<u>Problem Source(s):</u> Non-point source from humans and domesticated animals.										
<u>Current Actions:</u> NPS study set to run from 11/89 to 01/92										
ASPEN CREEK	632.10	0	0	4	0	4	Yes	Objectives violated Fish kills (see Bryant Creek)	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> Objectives violated; Fish kills.										
<u>Problem Source(s):</u>										

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		<u>Good</u>	<u>Inter- mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
<u>Current Actions:</u>										
BARLOW CREEK	114.11	0	0	1	0	1	Yes	FISH AND WILDLIFE HABITAT HAS BEEN IMPAIRED DUE TO INDUSTRIAL WASTE DISCHARGES. ENFORCEMENT ACTIONS PENDING	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
BEAUGHTON CREEK	105.50	2	0	4	0	6	Yes	FISHERY HABITAT IMPAIRED DUE TO INDUSTRIAL WASTE DISCHARGES. REMEDIAL ACTIONS UNDERWAY	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
BIG PINE CREEK	603.20	0	0	1	0	1	Yes	Recreational impacts Water diversions (see Owens River)	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> recreational impacts, water diversions										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
BISHOP CREEK	603.20	1	0	1	28	30	Yes	Recreational impacts Water diversions (see Owens River)	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> water diversions, recreation impacts, impacts of recreation (see Owens River)										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										

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		Good	Inter-mediate	Impaired	Unknown					1 D M S L
BLACKWOOD CREEK	634.20	0	0	1	0	1	Yes	Objectives violated Sedimentation (see Lake Tahoe)	Non-Point	3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> Objectives violated, Sedimentation, Recreational impacts, (see Lake Tahoe HU)										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
BURNS CREEK	304.13	0	0	3	0	3	Yes	Sedimentation Fish habitat impaired	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
CARBONERA CREEK	304.12	0	0	13	0	13	Yes	Sedimentation Fish population decline Elevated bacteria levels	Point & Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
CHALONE CREEK	309.70	0	0	15	0	15	Yes	Info available from Mont. Co. Flood Con.		. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
CHORRO CREEK	310.22	0	3	10	0	13	No	CMC discharge Inactive mines/Sedimentation Threat of drinking water impairment	Point & Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
COLUSA DRAIN	520.21	0	0	70	0	70	Yes	Toxic bioassay results Pesticides Agricultural wastewater	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
COTTONWOOD CREEK (1)	603.30	1	0	1	0	1	Yes	Recreational impacts Water Diversions (see Owens River)	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> recreational impacts, water diversions										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
DIABLO GULCH CREEK	305.10	0	0	2	0	2	Yes	Sedimentation Low flows	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
DIVISION CREEK	603.30	1	0	1	0	1	Yes	Recreational impacts Water diversions (see Owens River)	Non-Point	. X . . X . X						

Resource Value: N/A

Problem Description:
 Problem Source(s):
 Current Actions:

DOLLY CREEK		0	0	1	0	1	Yes	Aquatic impairment Human health impairment Mine drainage	Non-Point	. X . . X . X						
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Resource Value: N/A

Problem Description:
 Problem Source(s):
 Current Actions:

DUNN CREEK	543.00	0	0	9	0	9	Yes	Elevated fish tissue levels Fish population decline Drinking water impairment	Non-Point	X X X . X . X						
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Resource Value: N/A

Problem Description: Elevated mercury and other heavy metals have resulted in reduced aquatic life in creek, and exceedances of drinking water standards. Impacts downstream in Marsh Creek are confirmed (see Marsh Creek fact sheet). The significance of the discharge to the Delta is unknown.

Problem Source(s): Mt. Diablo Mine

Current Actions: Enforcement actions are underway at the mine through Porter-Cologne and TPCA authority.

FRENCH RAVINE	516.32	0	0	1	0	1	Yes	Bacteria objectives violated	Non-Point	. X . . X . X						
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Resource Value: N/A

Problem Description: There are elevated bacteria levels in the creek.
 Problem Source(s): Leachate seepage from the McCourtney Road landfill is the suspected source.

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		<u>Hydrologic Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
<u>Current Actions:</u> Regulatory action underway.										
GOLD GULCH CREEK	304.12	0	0	2	0	2	Yes	Sedimentation Low flows	Point & Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
GREEN VALLEY LAKE CREEK	628.20	0	0	5	0	5	Yes	Objectives violated Drinking water impairment (see Mojave River)	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> DRINKING WATER IMPAIRMENT										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
GROVER GULCH	304.14	0	0	3	0	3	Yes	Sedimentation Log jams and other natural blockages hamper fish migration.	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> DESTRUCTION OF FISH HABITAT DUE TO SEVERE SEDIMENTATION AND FISH MIGRATION IMPAIRMENTS										
<u>Problem Source(s):</u> OLD ROAD CUTS, CONSTRUCTION, DEVELOPMENT										
<u>Current Actions:</u>										

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		<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>		
HORSE CREEK	526.20	0	0	2	0	2	Yes	Fish kills Fish population decline Objectives violated	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: Aquatic life has been eliminated from the lower mile of the stream from acid mine drainage. No fish kills have been reported where the stream enters Shasta Lake.

Problem Source(s): Acid mine drainage from Rising Star Mine.

Current Actions: The mine owner is contracting for a feasibility study at the mine. The study will recommend a control strategy for the mine.

HORTON CREEK	603.20	1	0	1	0	1	Yes	Fish population decline (see Owens River)	Non-Point	.	X	.	.	X	.	X
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Resource Value: N/A

Problem Description: fish population decline

Problem Source(s):

Current Actions:

HOT CREEK (2)	603.10	3	0	7	0	10	Yes	Elevated fish tissue levels Eutrophication (see Owens River)	Non-Point	X	X	.	.	X	.	X
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Resource Value: N/A

Problem Description: elevated fish tissue levels, eutrophication

Problem Source(s):

Current Actions:

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		Good	Inter-mediate	Impaired	Unknown					1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L
HUMBUG CREEK	517.32	0	0	9	0	9	Yes	Fish population decline Heavy metals Mine drainage	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										

Problem Description: Humbug Creek receives discharges from Malakoff Mine, which contain heavy metals and sediment. Aquatic resources of the creek have been severely depressed. Impacts downstream in the South Fork of the Yuba River have not been documented.

Problem Source(s): Malakoff Mine

Current Actions: In the past, we have tried to convince State Parks to correct the pollution. They have been reluctant to cooperate because of their desire to maintain the historic values of the park.

INDIAN CREEK (1)	632.20	0	1	1	0	1	Yes	Water Diversions Grazing impacts	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										

Problem Description: Includes all CA surface and ground water tributary to Indian Creek (1) which joins the E.Fk.Carson R. in Nevada. Problems include high nutrient levels, past eutrophication and fish kills in Indian Creek Res.; erosion, sedimentation, and debris in Indian Creek; hydrologic modification.

Problem Source(s): Past wastewater disposal to Indian Creek Res.; water diversions for pasture irrigation; watershed disturbance due to livestock grazing; possible animal waste problems.

Current Actions: South Tahoe PUD has constructed a new reservoir to store advanced secondary effluent and is restoring Indian Creek Res. for other uses. Regional Board has WDR's on STPUD and Woodfords Indian Colony wastewater disposal, and reclamation requirements on the ranchers irrigating with effluent.

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		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
JAMES CREEK	512.24	0	0	6	0	6	Yes	Fish population decline Elevated fish tissue levels Mine drainage	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: Discharges from abandoned mines has resulted in depressed aquatic resources in James Creek and near sterile conditions near mine discharges. The significance of these discharges to downstream problems is not well defined. There is a consumer advisory in Lake Berryessa and in the Delta because of elevated levels of mercury in fish tissue.

Problem Source(s): Corona Mine and others

Current Actions: Recent studies in the area led to the DHS consumer advisory being issued for Lake Berryessa. Followup sampling confirmed that the Pope Creek watershed (James Creek is tributary to Pope Creek) is a major source of mercury to the lake. Proposed studies have not been funded.

KANAKA CREEK	517.42	0	0	1	0	1	Yes	Drinking water impairment Threat of fish population decline Mine drainage	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: Arsenic exceeds drinking water standards in the creek.

Problem Source(s): Upstream mines

Current Actions: Limited sampling in 1988 confirmed the existence of a problem.

LAS TABLAS CREEK	309.81	0	0	5	0	5	Yes	Potential Water Quality Limited Segment Toxic discharge from Buena Vista mine Drinking water impairment	Point & Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: RUNOFF ASSOCIATED WITH ABANDONED MINES CONTAINING TRACE ELEMENTS (TE) ENTERING THE CREEK. WATER ANALYZED FROM CREEK FOUND TE IN EXCESS OF EPA AND DHS DRINKING WATER STANDARDS. TE ALSO EXCEEDED CRITERIA TO PROTECT AQUATIC LIFE.

Problem Source(s): BUENA VISTA AND KLAU MINES

Current Actions: REGIONAL BOARD CURRENTLY IN FINAL PHASE OF THREE YEAR IN HOUSE STUDY TO DETERMINE POSSIBLE ACTIONS.

NOTE: LAS TABLAS CREEK INFORMATION HAS BEEN OBTAINED AS PART OF A LARGER INVESTIGATION WHICH WAS ASSESSING THE IMPACTS OF MINE DRAINAGE ON FRESH WATERS. LAS TABLAS USED ONE THIRD OF THE COSTS LISTED BELOW.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
LAS TABLAS CREEK, NORTH FORK	309..81	0	4	1	0	5	Yes	Drinking water impairment Threat of fish kills Threat of fish population decline	Point & Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: DRAINAGE RUNOFF FROM ABANDONED MINES ENTER-ING CREEK; TRACE ELEMENTS EXCEED EPA CRITERIA FOR THE PROTECTION OF FRESH WATER AQUATIC LIFE AND EPA CRITERIA FOR NO ADVERSE EFFECTS LEVEL; EXCEED EPA& DHS RECOMMENDED DRINKING WATER STANDARDS.

Problem Source(s): BUENA VISTA, KLAU MINES

Current Actions: RWQCB MINE STUDY IN FINAL PHASE OF 3 YR. STUDY.

LAS TABLAS CREEK, SOUTH FORK	309.81	0	3	1	0	4	Yes	Drinking water impairment Threat of fish kills Threat of fish population decline	Point & Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: DRAINAGE/RUNOFF FROM ABANDONED MINES ENTER-ING CREEK; TRACE ELEMENTS EXCEED 1) EPA CRITERIA FOR PROTECTION OF AQUATIC LIFE 2) EPA & DHS STANDARDS FOR DRINKING WATER 3) EPA NO ADVERSE EFFECTSLEVEL

Problem Source(s): BUENA VISTA, KLAU MINES

Current Actions: RWQCB MINE STUDY IN FINAL PHASE OF 3 YR. STUDY.

LASSEN CREEK	637.00	0	0	1	0	1	Yes	Water diversions Agricultural drainage (see Honey Lake)	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: water diversions, agricultural drainage

Problem Source(s):

Current Actions:

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		Good	Inter-mediate	Impaired	Unknown					1 D M S L
LATERAL #5	535.50	0	0	5	0	5	Yes	Toxic bioassay results Threat of fish population decline	Non-Point	3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 . X . . X . X

Resource Value: N/A

Problem Description: The drain has periodic elevated levels of ammonia. In bioassay tests, the drain periodically tests acutely toxic to fish and invertebrate species.

Problem Source(s): The probable sources are dairies, a municipal waste water treatment plant, and an industrial discharge.

Current Actions: Toxicity testing continues in the San Joaquin River and tributaries. Staff has conducted limited surveys to pinpoint the source of toxicity.

LEE VINING CREEK	601.00	0	0	1	0	1	Yes	Recreational impacts Water Diversions (see Mono Lake)	Non-Point	X X . . X . X
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Resource Value: N/A

Problem Description: recreation impacts, water diversions, possible mining impacts

Problem Source(s):

Current Actions:

LEVIATHAN CREEK	632.10	2	0	2	0	4	Yes	Objectives violated Fish kills (see Bryant Creek)	Non-Point	X X . . X . X
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Resource Value: N/A

Problem Description: mine drainage impacts

Problem Source(s):

Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
LITTLE COW CREEK	507.33	16	15	2	0	33	Yes	Fish population decline Mine drainage	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: Mine drainage suppresses aquatic life for about a mile. Impacts downstream in the creek and the Sacramento River are not documented.

Problem Source(s): Afterthought Mine

Current Actions: A feasibility study was completed in 1985 using 205(j) funds. The study recommended mine sealing.

LOCKHART GULCH CREEK	304.12	0	1	2	0	3	Yes	Sedimentation Low flows	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description:

Problem Source(s):

Current Actions:

LOGAN CREEK	304.12	0	0	1	0	1	Yes	Sedimentation Periodic elevated nutrients/bacti levels	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description:

Problem Source(s):

Current Actions:

LOMPICO CREEK	304.12	0	0	4	0	4	Yes	Sedimentation Drinking water impairment Elevated bacteria levels	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> N/A																

Problem Description:

Problem Source(s):

Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter- mediate	Impaired	Unknown					
LONE TREE CREEK	531.40	0	0	15	0	15	Yes	Fish population decline Dairies	Non-Point	. X . . X . X

Resource Value: N/A

Problem Description: The creek has periodic elevated levels of salt, ammonia and BOD, which impact aquatic resources.

Problem Source(s): Dairies

Current Actions: Occasional staff inspections continue to verify the problem.

LOS OSOS CREEK	310.22	0	6	2	0	8	Yes	Sedimentation Drains agricultural lands, flows into Morro Bay	Non-Point	. X . . X . X
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Resource Value: N/A

Problem Description:

Problem Source(s):

Current Actions:

MARSH CREEK	543.00	0	0	24	0	24	Yes	Objectives violated Fish population decline Elevated fish tissue levels	Non-Point	X X X . X . X
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Resource Value: N/A

Problem Description: Elevated mercury and other heavy metals has resulted in reduced aquatic life in Creek, and exceedance of drinking water standards. Impacts downstream from Marsh Creek Reservoir have not been measured. The significance of the discharge to the Delta is unknown.

Problem Source(s): Mt. Diablo Mine

Current Actions: Enforcement actions are underway at the mine.

MARSHALL CREEK	304.12	0	0	2	0	2	Yes	Sedimentation Low flows	Non-Point	. X . . X . X
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Resource Value: N/A

Problem Description:

Problem Source(s):

Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
MARTIS CREEK	634.20	0	0	1	11	12	Yes	Elevated fish tissue levels Hydrologic modification (See Truckee River)	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										

Problem Description: elevated fish tissue levels, hydrologic modification, possible impacts of wastewater disposal
Problem Source(s):
Current Actions:

MIDDLE RIVER	544.00	0	0	30	0	30		Health advisories for Hg Fisheries habitat degradation Elevated tissue levels		X X . . X . X
<u>Resource Value:</u> N/A										

Problem Description:
Problem Source(s):
Current Actions:

MILL CREEK (1)	601.00	1	0	1	0	1	Yes	Limited sampling	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										

Problem Description:
Problem Source(s):
Current Actions:

MILL CREEK (3)	641.30	0	0	1	0	1	Yes	Sedimentation Objectives violated	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										

Problem Description: sedimentation, objectives violated
Problem Source(s):
Current Actions:

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<u>Water Body Name</u>	<u>Hydrologic Unit No.</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Fact Sheet</u>	<u>Problem Description</u>	<u>Problem Source</u>	
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
MINERS CREEK <u>Resource Value: N/A</u>	304.13	0	0	2	0	2	Yes	Sedimentation	Non-Point	. X . . X . X
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
MISSION CREEK <u>Resource Value: N/A</u>	315.32	0	0	7	0	7	Yes	Coliform	Non-Point	X X . . X . X
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
MONITOR CREEK <u>Resource Value: N/A</u>	632.10	0	0	4	0	4	Yes	Objectives violated Elevated fish tissue levels (see Carson River, E Fk)	Non-Point	X X . . X . X
<u>Problem Description:</u> elevated fish tissue levels, objectives violated										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
NATOMAS EAST MAIN DRAIN <u>Resource Value: N/A</u>	519.22	0	0	12	0	12	Yes	Elevated fish tissue levels Toxic bioassay results Aquatic life impairments	Non-Point	X X . . X . X
<u>Problem Description:</u> Fish tissues exceeds NAS guidelines for PCBs. In bioassay tests, the drain occasionally tests toxic to the invertebrate species.										
<u>Problem Source(s):</u> Urban runoff is the likely source.										
<u>Current Actions:</u> Upstream corrective work has been implemented at a site that formerly discharged PCBs.										

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		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
OLD RIVER	544.00	0	0	48	0	48	Yes	Fisheries habitat degradation Elevated tissue levels	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																
<u>Problem Description:</u>																
<u>Problem Source(s):</u>																
<u>Current Actions:</u>																
OLD SALINAS RIVER	309.10	0	0	5	0	5	Yes	Potential Water Quality Limited Segment Elevated fish tissue levels Threat of drinking water impairment	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> N/A																
<u>Problem Description:</u> Return agricultural waters carry chemicalshigh in pesticide concentrations. Potential water quality limited segment																
<u>Problem Source(s):</u> Agricultural pesticideapplication practices.																
<u>Current Actions:</u>																
ORESTIMBA CREEK	541.10	0	0	3	0	3	Yes	Toxic bioassay results Threat of fish kills	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> N/A																
<u>Problem Description:</u> In bioassay tests, the creek frequently tests acutely toxic to the invertebrate and fish species. In two incidents, pesticides were identified as the causative agent. Impacts to the San Joaquin River from the observed incidents are very likely.																
<u>Problem Source(s):</u> Agricultural operations in the watershed are the probable source of the toxicity.																
<u>Current Actions:</u> Followup investigation is underway to the determine the cause of the observe d toxicity. Toxicity testing continues in the San Joaquin River and in this tributary.																
PANCHO RICO CREEK	309.70	0	0	15	0	15	Yes	Info available from Mont Co. Flood Cont.	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> N/A																
<u>Problem Description:</u>																

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		<u>Good</u>	<u>Inter- mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
PANOCHÉ CREEK		0	0	1	0	1	Yes	Sedimentation Selenium Aquatic life impairment	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
PARKER CREEK	601.00	1	0	1	0	1	Yes	Recreational impacts Water Diversions (See Mono Lake)	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> recreational impacts, water diversions										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
PELLISIER CREEK	603.20	0	0	1	1	1	Yes	Threat of drinking water impairment Threat of objectives violated (see Owens River)	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> possible mining problem, threat of drinking water impairment, threat of objectives violated										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
PINE CREEK (2)	637.30	0	0	1	1	1	Yes	Fish population decline Sedimentation (see Eagle Lake 2)	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> fish population decline, sedimentation										
<u>Problem Source(s):</u>										

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
PORT OF STOCKTON	544.00	0	0	1	0	1	Yes	Elevated fish tissue levels Aquatic life impairment	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
REDWOOD CREEK	305.10	0	0	2	0	2	Yes	SEDIMENTATION FROM NATURAL AND HUMAN SOURCES HAS IMPACTED BENEFICIAL USES	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
RIDER GULCH CREEK	305.10	0	0	2	0	2	Yes	Low flows Sedimentation Threat of fish population decline	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
RODRIGUEZ CREEK	631.10	0	0	1	1	1	Yes	Threat of objectives violated Threat of toxic bioassay results (see West Walker River)	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> threat of objectives violated, threat of toxic bioassay results, possible mine tailings problems										
<u>Problem Source(s):</u>										

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		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
<u>Current Actions:</u>										
RUINS CREEK	304.13	0	0	3	0	3	Yes	Low flows Sedimentation	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
RUSH CREEK (1)	601.00	1	0	1	0	1	Yes	Recreational impacts Water Diversions (See Mono Lake)	Non-Point	. X . . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> RECREATION IMPACTS, WATER DIVERSIONS										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
SAN CARLOS CREEK	542.20	0	0	1	0	1	Yes	Drinking water impairment Threat of fish population decline	Non-Point	X X X . X . X
<u>Resource Value:</u> N/A										
<u>Problem Description:</u> Drinking water standards are exceeded for mercury. Aquatic resources are probably impacted.										
<u>Problem Source(s):</u> New Idria Mine										
<u>Current Actions:</u> None										

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		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
SAN DIEGO CREEK, REACH 1	801.11	0	0	6	0	6	Yes	Elevated fish tissue levels Elevated shellfish tissue levels Eutrophication	Non-Point	X	X	.	.	X	.	X

Resource Value: N/A

Problem Description: TSMP AND SMW RESULTS FOR THIS STREAM SHOW ELEVATED LEVELS OF PESTICIDES AND METALS. The stream also has high nitrate levels attributed partly to 3 commercial nurseries in the upper watershed, and high sediment concentrations at times due to erosion in the watershed. Because of the toxic problems associated with this reach, IT HAS BEEN DESIGNATED A WATER QUALITY LIMITED SEGMENT.

Problem Source(s): Nonpoint Sources: agricultural sites (including commercial nurseries) and erosion of agricultural land and construction sites.

Current Actions: Agricultural best management plans are required for erosion control and control of contaminated runoff. Best management practices are required at construction sites to reduce erosion. Newport Coordinator dedicated position. Waste discharge requirements being developed for the nursery discharges. Bioaccumulation study through the SMW and TSMP programs. RWQCB currently doing N reconnaissance study to identify sources of N in watershed.

SAN DIEGO CREEK, REACH 2	801.11	0	0	6	0	6	Yes	Elevated fish tissue levels Elevated shellfish tissue levels	Non-Point	X	X	.	.	X	.	X
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Resource Value: N/A

Problem Description: TSMP results for this stream show high levels of pesticides and metals in fish tissue. The stream also has high nitrate levels and a high sediment load. Same as San Diego Creek, Reach 1.

Problem Source(s): Agricultural and urban runoff. Erosion of agricultural land and construction sites. Same as San Diego Creek, Reach 1.

Current Actions: Same as San Diego Creek, Reach 1.

Other Actions: 3 commercial nurseries putting in recycling systems and other BMPs to reduce both runoff and nitrate loading.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
SAN TIMOTEO CREEK, REACH 4	801.62	0	0	14	0	14	Yes	Recreational impacts Secondary treated wastewater discharge	Point	. X . . X . .
Resource Value: N/A										

Problem Description: A secondary treated wastewater discharge provides most or all of the flow in the stream. The water contact beneficial use will not be met unless the wastewater receives advanced treatment. Portions of this stream are intermittent.

Problem Source(s): Yucaipa Valley County Water District Wastewater Treatment Plant Discharge; City of Beaumont discharge may be affecting this reach.

Current Actions:

SHINGLE MILL CREEK	304.12	0	0	2	0	2	Yes	Sedimentation Low flows	Non-Point	. X . . X . X
Resource Value: N/A										

Problem Description:

Problem Source(s):

Current Actions:

SULFUR CREEK	513.51	0	0	7	0	7	Yes	Drinking water impairment Fish population decline Objectives violated	Non-Point	X X X . X . X
Resource Value: N/A										

Problem Description: Sulfur Creek has mercury levels that exceed drinking water standards. Aquatic resources are depressed. The significance of the discharge to downstream waters (Bear Creek) is unknown.

Problem Source(s): Manzanita Mine and natural sulfur springs.

Current Actions: None

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
TEMPLE CREEK	531.40	0	0	10	0	10	Yes	Fish population decline Elevated salt, NH3 Dairies	Non-Point	.	X	.	.	X	.	X

Resource Value: N/A

Problem Description: The creek has periodic elevated levels of salt, ammonia and BOD, which impact aquatic resources.

Problem Source(s): Dairies

Current Actions: Occasional staff inspections continue to verify the problem.

TOWN CREEK	526.20	2	0	1	0	3	Yes	Fish population decline Objectives violated Mine drainage	Non-Point	X	X	.	.	X	.	X
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Resource Value: N/A

Problem Description: Aquatic life has been eliminated from the lower mile of the stream from acid mine drainage. No fish kills have been reported where the stream enters Shasta Lake.

Problem Source(s): Acid mine drainage from Bully Hill Mine.

Current Actions: The mine owner is contracting for a feasibility study at the mine. The study will recommend a control strategy for the mine.

VALENCIA CREEK	304.13	0	0	6	0	6	Yes	Fish population decline Sedimentation Spawning impairment	Non-Point	.	X	.	.	X	.	X
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Resource Value: N/A

Problem Description:

Problem Source(s):

Current Actions:

WADDELL CREEK, EAST BRANCH	304.10	0	0	3	0	3	Yes	Drinking water impairment Fish habitat impairment Elevated nutrient levels	Point & Non-Point	.	X	.	.	X	.	X
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Resource Value: N/A

Problem Description:

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Water Body Name	Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
WEST SQUAW CREEK	505.10	6	0	2	0	8	Yes	Fish kills Fish population decline Objectives violated	Non-Point	X	X	.	X	X	.	X
<u>Resource Value:</u> N/A																

Problem Description: Metals levels and low pH result in near sterile conditions in creek and cause fish kills where the creek empties into Lake Shasta. Significance of the discharge below Shasta Dam and in the Delta is unknown.

Problem Source(s): Balaklala, Shasta King, Early Bird, and Keystone Mines.

Current Actions: Abatement facilities are under construction by the mine owner. It is estimated that copper, zinc, and cadmium loadings to the creek will be reduced annually by 9,000 lbs., 15,000 lbs., and 40 lbs., respectively. Limited monitoring is underway to document effectiveness of controls.

WILLOW CREEK (WHISKEYTOWN)	524.63	12	0	3	0	15	Yes	Fish population decline Heavy metals, acid Mine drainage	Non-Point	X	X	.	.	X	.	X
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Resource Value: N/A

Problem Description: Metals and low pH result in near sterile conditions in the creek. Impacts downstream in Clear Creek are undocumented.

Problem Source(s): Greenhorn Mine

Current Actions: Abatement study has been completed. Monitoring is done to assess success of abatement measures.

WILSON CREEK	601.00	0	0	1	0	1	Yes	Recreational impacts Water diversions (See Mono Lake)	Non-Point	.	X	.	.	X	.	X
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Resource Value: N/A

Problem Description: recreation impacts, water diversions,(see Mono HU)

Problem Source(s):

Current Actions:

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Ocean

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Water Quality Condition

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists					
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L	
COASTLINE OF SAN DIEGO REGION		78	12	12	0	102	Yes	impaired length of the San Diego coastline is HA 911.11. impairment is as listed for the HA.	Point & Non-Point	X	X	.	X	X	

Resource Value: 2

Problem Description: RAW SEWAGE FLOWS ORIGINATING FROM TIJUANA. FLOWS CHARACTERIZED BY LOW DISSOLVED OXYGEN AND HIGH BACTERIA COUNTS. PUBLIC HEALTH WARNINGS HAVE BEEN POSTED FROM THE BORDER TO 10 MILES NORTHERLY TO SAN YSIDRO.

Problem Source(s): FLOWS ORIGINATING FROM TIJUANA, MEXICO

Current Actions: REGIONAL BOARD STAFF SAMPLES AT SEVERAL STATIONS REGULARLY FOR THE PARAMETER S OF CONCERN. STAFF INVOLVED IN COORDINATION WITH OTHER STATE AND FEDERAL AGENCIES IN TRYING TO RESOLVE THE PROBLEM.

NORTH COAST BASIN (OCEAN, SAMOA PEN.)		0	0	1	0	1	Yes	Dioxin	Point	X	X	.	X	X
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Resource Value: 3

Problem Description:
Problem Source(s):
Current Actions:

TIJUANA EST SHORELINE	911.11	0	0	10	0	10	Yes	Objectives violated Recreational impacts beach area permanently quarantined	Point & Non-Point	.	X	.	X	X
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Resource Value: 3

Problem Description: PAST AND PRESENT RAW SEWAGE SPILLS HAVE IMPACTED THE REC-1 USE. FECAL COLIFORM COUNTS ROUTINELY EXCEED THE WATER QUALITY OBJECTIVES.
Problem Source(s): POINT SOURCE POLLUTION CAUSED BY TIJUANA RAW SEWAGE FLOWS UNTO THE SURF ZONE.
Current Actions: ROUTINE SAMPLING OF THE SURF ALONG THE 10 MILE IMPACTED AREA. PARTICIPATION IN THE VARIOUS STATE AND INTERNATIONAL INTERAGENCY COORDINATION WORKGROUPS.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
CLEAR LAKE	513.52	0	0	43000	0	43000	Yes	Elevated fish tissue levels Eutrophication Recreational and fish impacts	Non-Point	X X . . X X X
<u>Resource Value: 1</u>										

Problem Description: Fish routinely exceed mercury FDA/NAS guidelines. A consumer health advisory is in effect. Extremely elevated (exceeding hazardous levels in some areas) mercury sediment levels occur over a 5square mile area of the lake adjacent to the principle source. Downstream impacts unmeasured, although Cache Creek fish may have elevated mercury levels. Algal blooms impact recreational uses.

Problem Source(s): Sulphur Bank Mine is the sourceof the mercury. Nutrients probably come from agriculture and septic tanks.

Current Actions: Enforcement actions are underway through Porter-Cologne and TPCA authority.

A study is underway(\$80,000) to define abatement options at the mine site and in the lake. Routine regulatory activities continue at applicable NPDES facilities and nonpoint sources.

LAKE TAHOE	634.30	0	0	120000	0	120000	Yes	Eutrophication Sedimentation Objectives violated	Non-Point	X X . . X X X
<u>Resource Value: 1</u>										

Problem Description: Includes Lake Tahoe and tributary wetlands,streams,lakes and ground water within CA. Lake Tahoe shows increasing phytoplankton and periphyton productivity and decreasing clarity, both in violation of objectives. Lake problems also include sedimentation, elevated TBT in some marina sediments, and taste and odor problems in some mun.supplies.Streams, wetlands affected by erosion, sedimentation and watershed (cont).

Problem Source(s): Nonpoint sources including construction,silviculture,grazing,urban and highway runoff,wetland alteration, reservoir mgmnt.,atmospheric deposition, fertilizer use,wastewater (cont.)

Current Actions: At present,we are spending approx. \$1,000,000/yr for NPS erosion control

funded by SAP. Implementation of bistate "208" water quality plan and State Bd.Lake Tahoe Basin WQ Plan,including controls on new development, remedial erosion runoff cntrl.projects,wetland restoration,BMPs for new andexisting development,export of wastewater and solid waste,interagency monitoring program,special studies and enforcement action as needed.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists					
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L	
SALTON SEA	728.00	0	0	220000	0	220000	Yes	Objective violated (Salinity) Elevated fish tissue levels (Selenium) Recreational impacts	Non-Point	X	X	.	X	X	X
<u>Resource Value: 1</u>															

Problem Description: Increasing salinity is threatening the survival of the aquatic life in the Sea and the wildlife dependent on the Sea. Fish from the Sea have elevated levels of Selenium affecting the amount that can be safely eaten. The Sea is a closed basin, and without implementation of a salinity control project, salinity will continue to increase.

Problem Source(s): Raw and inadequately treated sewage and industrial wastes from Mexico enter via the New River. Nutrients and bacteria come from agricultural drainage. Selenium from Colorado River.

Current Actions: Region-7 is currently participating in an interagency Task Force formed by the Resources Agency. Region-7 is taking the lead in working with other interested agencies in investigating the use of desiltation basins and biological treatment of agricultural drainageways tributary to Salton Sea. Region-7 is contracting with the US Geological Survey to study sources of Selenium entering Salton Sea (costs are listed below).

EAGLE LAKE (2)	637.30	0	0	25000	0	25000	Yes	Fish kills Eutrophication Possible metals problems	Non-Point	X	X	.	X	X	X
<u>Resource Value: 2</u>															

Problem Description: Includes entire "Eagle Drainage HA" w/in Susanville HU: Eagle Lake, tributary wetlands, streams, lakes, GW. Problems in lake include localized dissolved oxygen depletion and fish kills, probably related to eutrophication; periodic heavy algae blooms; high copper levels in trout livers; reported high ambient lead levels and pH criteria violations. Erosion and sedimentation have reduced flows in tributary (cont)

Problem Source(s): NPS including: septic systems, watershed disturbance by livestock grazing and timber harvest, road and "urban" runoff; seasonal heavy recreational use; fluctuating lake (cont)

Current Actions: septic system discharge prohibitions
 Regional Bd. regulation and enforcement activities
 coordination with Eagle Lake Interagency Bd of Directors; State Bd. followup study
 to confirm the magnitude of the GW degradation from septic systems, Regional Bd participation in Pine Creek Coordinated Resource Management Program (CRMP)

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
MONO LAKE	601.00	0	0	35000	0	35000	Yes	Objectives violated Fish kills Fish population decline	Non-Point	X X . . X X X
<u>Resource Value:</u> 2										

Problem Description: Includes all waters in the Mono HU. NPS pollution from ski areas, grazing, recreational use, and development. Diversions of surface water by LADWP have caused shrinking of Mono Lake, dewatering of streams with resultant fish kills and loss of habitat. GW contamination from UGTs. Proposed small hydro. projects may also reduce stream flows needed for fisheries.
Problem Source(s): NP erosion runoff from ski areas, urban development, UGTs, water diversions
Current Actions: Regulation (WDRs) of large land disturbance projects. Limited review of small hydro. projects.

SHASTA LAKE	506.1	0	29480	20	0	29500	Yes	Fish kills Threat of fish population decline	Non-Point	X X . . X X X
<u>Resource Value:</u> 2										

Problem Description: Fish kills occur periodically in the Lake where Little Backbone and Little Squaw Creeks empty into the lake.
Problem Source(s): Balaklala, Shasta King, Early Bird, Keystone, Mammoth and Golinski Mines.
Current Actions: Abatement facilities are under construction at the mines listed above (see Little Backbone Creek fact sheet). Routine regulatory activities continue in the watershed above Shasta Lake.

BERRYESSA LAKE	512.21	0	0	20700	0	20700	Yes	Elevated fish tissue levels Threat of fish population decline Threat of objectives violated	Non-Point	X X . . X X X
<u>Resource Value:</u> 3										

Problem Description: Fish routinely exceed mercury FDA/NAS guidelines. A consumer health advisory is in effect. There are elevated mercury sediment levels present in arms of the lake with major tributaries. Elevated mercury levels in fish-eating birds has resulted in extensive bird kills. Downstream impacts are unmeasured. Significance of discharge to the Delta is unknown.
Problem Source(s): Numerous mines and perhaps natural sources.
Current Actions: Proposals to define upstream sources have not been funded. Routine regulatory activities continue at applicable NPDES facilities and nonpoint sources.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists					
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L	
WISKEYTOWN RES	524.61	3151	0	100	0	3251	Yes	Recreational impacts Coliform bacteria	Non-Point	. X	.	X	.	X	

Resource Value: 3

Problem Description: Coliform bacteria concentrations exceed criteria for contact recreation.

Problem Source(s): The probable source is contact recreation (swimming) in shallows and confined portions of the reservoir.

Current Actions: The U.S Park Service has increased monitoring. Beaches are posted if necessary.

ALKALI LAKE, LOWER	641.00	0	0	10855	0	10855	Yes	Natural high salinity Geothermal/agricultural drainage (see Alkali Lakes, Middle)	Non-Point	X X	.	X	X	X
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Resource Value: 4

Problem Description: natural high salinity, geothermal drainage, agricultural drainage

Problem Source(s):

Current Actions:

ALKALI LAKE, MIDDLE	641.00	0	0	39475	0	39475	Yes	Geothermal drainage Natural high salinity Agricultural drainage	Non-Point	X X	.	X	X	X
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Resource Value: 4

Problem Description: Includes all CA surface and ground waters in Surprise Valley HU (e.g. Upper and Lower Alkali Lakes and streams on east slope of Warner Mountains). Alkali Lakes, with naturally poor quality, specifically exempted from MUN use designation in 1989 and not designated REC-1; problems may be aggravated by agricultural drainage and diversions from tributaries. Warner Mountains streams include high quality (cont.)

Problem Source(s): Natural high concentrations of salts and toxic trace elements, water diversion, agricultural and geothermal drainage, septic systems, livestock grazing, timber harvest

Current Actions: Regulation and enforcement activities, including timber harvest, SWAT sites, municipal waste facility

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
HONEY LAKE	637.20	0	0	55327	0	55327	Yes	Toxic bioassay results	Point & Non-Point	X X . . X X X
Resource Value: 3										

Problem Description: Includes Honey Lake and all tributary surface and ground waters in the Susan River and Herlong HAs of the Susanville HU. Problems include localized high concentrations of toxic or radioactive trace elements, threat of drinking water impairment by septic system discharges, erosion, sedimentation, hydrologic modification, and threatened GW export. Live ammunition from Sierra Army Depot threatens recreation (cont)

Problem Source(s): Natural high levels of toxic trace elements, agricultural drainage; ww disposal to septic systems & directly to Susan River; geothermal drainage; highway and urban runoff (cont)

Current Actions: Regulation and enforcement activities; monitoring of Honey Lake as part of SWRCB Ambient Toxicity program issues; NPDES; geothermal discharge regulation; hazardous materials cleanup review of proposed ground water export (IRP) underground tank cleanup

HONEY LAKE	637.20	0	0	500	0	500	Yes	Threat of toxic bioassay results (see Honey Lake)		X X . . X . X
WILDFOWL MGMT. Resource Value: 3										

Problem Description: Threat of toxicity bioassay results

Problem Source(s):

Current Actions:

NACIMIENTO RESERVOIR	309.82	0	0	5370	0	5370	Yes	Water quality limited segment Elevated fish tissue levels Sediment impaired, not water in Res.	Non-Point	X X . . X X X
Resource Value: 3										

Problem Description: Water quality limited segment Mercury in sediments originating from natural Mercury deposits in the watershed and man's past mining activities have aggregated Mercury deposition in Nacimiento Lake sediments.

Problem Source(s): Natural Mercury deposits and abandoned Mercury Mines.

Current Actions: Action being directed towards controlling discharges and runoff from abandoned mines-(See Las Tablas Creek File).

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
ALKALI LAKE, UPPER	641.00	0	0	24250	0	24250	Yes	Geothermal/Agricultural drainage Natural high salinity (see Alkali Lakes, Middle	Non-Point	X	X	.	.	X	X	X
<u>Resource Value:</u> 4																
<u>Problem Description:</u> Agricultural drainage, geothermal drainage, natural high salinity																
<u>Problem Source(s):</u>																
<u>Current Actions:</u>																
CALERO RES	205.40	0	0	350	0	350	Yes	Mercury exceeds FDA in fish	Non-Point	X	X	.	.	X	X	X
<u>Resource Value:</u> 4																
<u>Problem Description:</u>																
<u>Problem Source(s):</u>																
<u>Current Actions:</u>																
ELIZABETH LAKE	403.51	0	0	90	0	90	Yes	Eutrophication	Non-Point	.	X	.	.	X	X	X
<u>Resource Value:</u> 4																
<u>Problem Description:</u> High groundwater, septic tanks, urban runoff																
<u>Problem Source(s):</u> NONPOINT																
<u>Current Actions:</u> Investigation of coliform contamination (little to none found).																
GUADALUPE RES	205.40	0	0	80	0	80	Yes	Elevated fish tissue levels	Non-Point	X	X	.	.	X	X	X
<u>Resource Value:</u> 4																
<u>Problem Description:</u> Toxic Substance Monitoring Program has revealed elevated mercury levels in fish tissue (SWRCB 1986). All but one of the twenty-one blue gill samples exceeded the FDA action level (1.0 ppm). Mercury in the bluegill ranged from 0.8 to 3.8 ppm with a mean of 2.0 ppm.																
<u>Problem Source(s):</u> Mine drainage																
<u>Current Actions:</u> Reservoir has been posted on fish consumption warning																
Pollution source has been listed on State Superfund List										SWRCB Toxic Substance Monitoring program						

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
HARBOR PARK LAKE	405.12	0	0	50	0	50	Yes	Health advisory in affect-chlordane> FDA Elevated fish tissue levels Eutrophication	Non-Point	X X . . X X X
<u>Resource Value: 4</u>										

Problem Description: Chlordane-Exceeds FDA (TSM), DDT-exceeds NAS (TSM), Lindane, heptachlor-exceeds E-95, PCB's exceed NAS (TSM), PAH's eutrophication

Problem Source(s): NONPOINT: Urban runoff

Current Actions: Monitoring & Assessment

KESWICK RES	524.40	0	450	200	0	650	Yes	Fish population decline Recreational impacts Objectives violated	Non-Point	X X . . X . X
<u>Resource Value: 4</u>										

Problem Description: There are reduced fish and aquatic invertebrate populations in the lower mile of the reservoir. There are adverse impacts on recreational uses from sludge deposits.

Problem Source(s): Acid mine drainage from IronMountain Mine is the cause.

Current Actions: A superfund project is underway and scheduled for completion in 1993. The abatement project is expected to reduce annual copper, zinc, and cadmium loads by 190,000 lbs., 800,000 lbs., and 5,000 lbs., respectively. Monitoring is done to evaluate the effectiveness of control measures.

OWENS LAKE	603.30	0	0	175	0	175	Yes	Water diversion High natural salinity (see Owens River)	Non-Point	X X . . X X X
<u>Resource Value: 4</u>										

Problem Description: Water diversions, High natural salinity

Problem Source(s):

Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists
		Good	Inter-mediate	Impaired	Unknown					
PUDDINGSTONE RESERVOIR	405.52	0	0	490	0	490	Yes	Pesticides,PCB's (TSM) Elevated fish tissue levels Recreational impacts	Non-Point	X X . . X X X
<u>Resource Value: 4</u>										
<u>Problem Description: Urban and Agricultural runoff</u>										
<u>Problem Source(s): NONPOINT</u>										
<u>Current Actions:</u>										
SCHWAN LAKE	304.12	0	0	24	0	24	Yes	Excessive plant growth Urban runoff Fish kills	Non-Point	X X . . X X X
<u>Resource Value: 4</u>										
<u>Problem Description: Accelerated plant and alge growth insummer months may be detrimental to the fish populations by restricting the amount of DO.</u>										
<u>Problem Source(s): Urban and Agricultural runoff.</u>										
<u>Current Actions:</u>										
SEARLES LAKE	621.00	0	0	26100	0	26100	Yes	Natural high salinity	Non-Point	X X . . X . X
<u>Resource Value: 4</u>										
<u>Problem Description: Natural high salinity, dumping</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
TOPAZ LAKE	631.10	0	0	2300	0	2300	Yes	Objectives violated Sedimentation (see West Walker River)	Non-Point	X X . . X . X
<u>Resource Value: 4</u>										
<u>Problem Description: sedimentation, possible septic system effects, metals/arsenic problems</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
BEACH LAKE	510.00	0	0	295	0	295	Yes	Elevated fish tissue levels Threat of fish population decline Threat of objectives violated	Non-Point	X X . . X X X
<u>Resource Value: 5</u>										

Problem Description: Fish exceed NAS guidelines for DDT, Group A pesticides, Chlordane, PCBs and mercury.
Problem Source(s): Present and past agricultural practices probably account for the pesticides. Urban runoff probably accounts for the chlordane, mercury and PCBs.
Current Actions: The discharge from Beach Lake (Morrison Creek to Sacramento River) will be monitored for toxicity in 1989-90.

DAVIS CREEK RES	513.32	0	0	290	0	290	Yes	Elevated fish tissue levels	Non-Point	X X . . X X X
<u>Resource Value: 5</u>										

Problem Description: Fish exceed FDA guidelines for mercury. The significance of the elevated levels of mercury downstream in Davis Creek and in Cache Creek is not well defined.
Problem Source(s): Reid Mine
Current Actions: Owners of Homestake Mine have bought the Reid Mine property and evaluated its contribution to the Davis Creek Reservoir. Homestake intends to implement control actions to reduce the impacts of Reid Mine.

HERMAN LAKE	207.21	0	0	110	0	110	Yes	Elevated fish tissue levels	Non-Point	X X . . X X X
<u>Resource Value: 5</u>										

Problem Description: Toxic Substance Monitoring Program has revealed elevated mercury levels in fish tissue (SWRCB 1986). Mercury values ranged from 0.3 - 1.8 ppm with a mean of 0.76 ppm. Seventeen samples equaled or exceeded median International Standards and DOHS advisory level of 0.5 ppm for human consumption. Two samples equaled or exceeded the FDA action level.
Problem Source(s): Mine drainage
Current Actions: SWRCB Toxic Monitoring Program Basin Planning
 Pollution source has been placed on State Superfund List.

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
HERNANDEZ RESERVOIR	305.50	0	0	590	0	590	Yes	Potential water quality limited segment Suspect natural Hg sources Hg detected in fish tissue	Non-Point	X	X	.	.	X	X	X
<u>Resource Value:</u> 5 <u>Problem Description:</u> <u>Problem Source(s):</u> <u>Current Actions:</u>																
HUGHES LAKE	403.51	0	0	40	0	40	Yes	Eutrophication	Non-Point	.	X	.	.	X	X	X
<u>Resource Value:</u> 5 <u>Problem Description:</u> High groundwater levels, Septic tanks, Urban runoff <u>Problem Source(s):</u> NONPOINT <u>Current Actions:</u>																
MARSH CREEK RES	543.00	0	0	375	0	375	Yes	Elevated fish tissue levels	Non-Point	.	X	.	.	X	X	X
<u>Resource Value:</u> 5 <u>Problem Description:</u> Fish routinely exceed mercury FDA/NAS guidelines. Downstream impacts suspected but unmeasured. The significance of discharge to the Delta is unknown. <u>Problem Source(s):</u> Mt. Diablo Mine. <u>Current Actions:</u> Enforcement actions underway at mine through Porter-Cologne and TPCA authority. EIR under review for expansion of reservoir.																
DEEP SPRINGS LAKE	605.00	0	0	1	0	1	Yes	Natural high salinity	Non-Point	.	X	.	.	X	.	X
<u>Resource Value:</u> N/A <u>Problem Description:</u> Natural high salinity <u>Problem Source(s):</u> <u>Current Actions:</u>																

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<u>Water Body Name</u>	<u>Hydrologic Unit No.</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Fact Sheet</u>	<u>Problem Description</u>	<u>Problem Source</u>	
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
EVANS, LAKE	801.27	0	0	42	0	42	Yes	Fish kills Sedimentation	Non-Point	. X . . X X X

Resource Value: N/A

Problem Description: Fish and duck kills 3-4 years ago; minor algal growth problems now.

Problem Source(s): Storm drain draining 20 urban acres; nonpoint source runoff

Current Actions:

GRASS VALLEY LAKE	628.20	0	0	20	0	20	Yes	Eutrophication Elevated fish tissue levels (see Mojave River)	Non-Point	X X . . X . X
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Resource Value: N/A

Problem Description: Eutrophication, elevated fish tissue levels

Problem Source(s):

Current Actions:

INDIAN CREEK RES	632.20	0	0	160	0	160		Eutrophication Recreational impacts	Point & Non-Point	X X . . X X X
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Resource Value: N/A

Problem Description: eutrophication, recreational impacts

Problem Source(s):

Current Actions:

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Estuaries

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
SACRAMENTO SAN JOAQUIN DELTA	207.10	0	0	3400	0	3400	Yes	Fish population decline Elevated fish and shellfish tissue level Aquatic habitat degradation		X	X	.	.	X	.	X

Resource Value: 1

Problem Description:
 Problem Source(s):
 Current Actions:

SUISUN MARSH	207.23	0	0	57000	0	57000	Yes	Aquatic & wildlife habitat impaired	Point & Non-Point	X	X	.	.	X	.	X
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Resource Value: 1

Problem Description:
 Problem Source(s):
 Current Actions:

CARPINTERIA MARSH (EL ESTERO MARSH)	315.34	0	0	215	0	215	Yes	Threat to wildlife populations. Potential Water Quality Limited Segment Elevated shellfish tissue levels	Non-Point	X	X	.	.	X	.	X
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Resource Value: 2

Problem Description: Elevated organic levels found in fish and shellfish tissue.
 Problem Source(s): Runoff from urban and Ornamental Horticulture operations.
 Current Actions: Study in progress by CCRWQCB.

ELKHORN SLOUGH	306.00	0	0	2100	0	2100	Yes	Potential Water Quality Limited Segment Supports Ag return flows. Elevated shellfish tissue levels	Non-Point	X	X	.	.	X	.	X
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Resource Value: 2

Problem Description: High pesticide concentrations found in shellfish tissues and sediments.
 Problem Source(s): Agricultural return flows.
 Current Actions:

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists
		Good	Inter-mediate	Impaired	Unknown					1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 0 M S L
ESTERO AMERICANO	115.30	322	0	370	0	692	Yes	SEDIMENTATION, LOW DISSOLVED OXYGEN AND HIGH AMMONIA LEVELS FROM NPS DISCHARGES HAVE IMPAIRED FISH AND WILDLIFE HABITAT		. X . . X . X
<u>Resource Value:</u> 2										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
ESTERO DE SAN ANTONIO	115.40	64	0	255	0	319	Yes	SEDIMENTATION, LOW DISSOLVED OXYGEN AND HIGH AMMONIA LEVELS FROM NPS DISCHARGES HAVE IMPAIRED FISH AND WILDLIFE HABITAT		. X . . X . X
<u>Resource Value:</u> 2										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
MUGU LAGOON	403.11	0	0	1500	0	1500	Yes	Pesticides Elevated shellfish tissue levels Elevated fish tissue levels	Non-Point	X X . . X . X
<u>Resource Value:</u> 2										
<u>Problem Description:</u> Pesticides (DDT)- localized at mouth of Calleguas Creek										
<u>Problem Source(s):</u> NONPOINT: Historic agriculture, agriculture drains (pesticides), naval activities (PCB's)										
<u>Current Actions:</u> Further investigation of pesticide contamination in tributaries through State Mussel Watch										

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
TIJUANA RIVER ESTUARY	911.11	0	0	150	0	150	Yes	Objectives violated Recreational impacts Elevated fish tissue levels	Point & Non-Point	X	X	.	.	X	.	X

Resource Value: 2

Problem Description: PAST AND PRESENT RAW SEWAGE SPILLS HAVE IMPACTED THE BENEFICIAL USES FOR REC-1, REC-2, SHELL, MAR, AND COMM. COLIFORM COUNTS ARE GENERALLY IN EXCEEDANCE OF THE OBJECTIVE. THE INFLOWS ALSO CONTRIBUTE URBAN RUNOFF FLOWS WHICH ARE CHARACTERIZED BY HEAVY METAL CONCENTRATIONS. THE SEWAGE'S FRESHWATER INFLOWS ALSO CONTRIBUTE TO DECLINES IN THE NATURAL BIOTA AND HABITAT FOUND THERE.

Problem Source(s): RAW SEWAGE DISCHARGES ALONG WITH CONTRIBUTING URBAN-RUNOFF FLOWS FROM TIJUANA.

Current Actions: REGIONAL BOARD ROUTINELY SAMPLE FOR AMBIENT WATER QUALITY. LONG-TERM MONITORING OF THE WATER QUALITY HAS ALSO BEEN SUPPORTED BY ADDITIONAL SAMPLING BY THE SMW PROGRAM. REGIONAL BOARD STAFF ACTIVELY PARTICIPATES IN SEVERAL INTERAGENCY COMMITTEE TO DETERMINE THE SOLUTION TO THE FLOW PROBLEM.

UPPER NEWPORT BAY ECOLOGICAL RESERVE	801.11	0	0	752	0	752	Yes	Elevated shellfish tissue levels Eutrophication Sedimentation	Non-Point	X	X	.	.	X	.	X
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Resource Value: 2

Problem Description: Shellfish bacterial standards exceeded year around. Eutrophication due to nutrient discharges in the San Diego Creek watershed; sedimentation buildup in the Upper Bay. THIS WATERBODY HAS BEEN DESIGNATED A WATER QUALITY LIMITED SEGMENT BECAUSE OF THE BACTERIA AND SILTATION PROBLEMS.

Problem Source(s): Nonpoint sources including urban runoff and agricultural runoff. Point sources are the nursery discharges and known agricultural drains.

Current Actions: Newport coordinator position; special studies and cooperative studies with local agencies
Newport Nutrient Task Force
development of WDR's for nursery tailwater discharges; SMW

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 3 3 3 3 3 3
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 1 D M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
AGUA HEDIONDA LAGOON	904.31	0	0	1	399	400	Yes	Elevated shellfish tissue levels Threat of objectives violated Sedimentation	Unknown	. X . . X . X

Resource Value: 3

Problem Description: THE WATERSHED'S MAJOR LAND USES ARE EITHER URBAN OR AGRICULTURALLY RELATED. LAND GRADING IS CAUSING LARGE INFLOWS OF SEDIMENTS DURING PERIODS OF HEAVY RAINFALL. THE OUTER BASIN HAS BEEN PERIODICALLY DREDGED, HOWEVER, THE TWO INNER BASINS NEED MAINTENANCE.
Problem Source(s): CONSTRUCTION ACTIVITIES, URBAN DEVELOPMENT AND AGRICULTURE.
Current Actions: RB STAFF IS CURRENTLY WORKING WITH SEVERAL AGENCIES TO DETERMINE THE SOURCES OF THE HIGH FECAL COUNTS.

BALLONA WETLANDS	405.13	0	0	150	0	150	Yes	Habitat destruction Metals	Non-Point	. X . . X . X
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Resource Value: 3

Problem Description: Hydrologic modification, historic chlordane problems, lead and mercury
Problem Source(s): NONPOINT: Urban runoff, Construction runoff, periodic stagnation, hydromodification
Current Actions: Facilitating monies for wetland enhancement-National Estuary Program (SMBRP)

BATIQUITOS LAGOON	904.51	0	0	420	0	420	Yes	Eutrophication Fish kills Recreational impacts	Non-Point	. X . . X . X
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Resource Value: 3

Problem Description: POORLY FLUSHED TIDAL LAGOON. HIGH NUTRIENT LOADS RESIDE IN THE SEDIMENTS.
Problem Source(s): AGRICULTURAL AND URBAN RUNOFF, ALSO RECYCLING OF RESIDUAL NUTRIENTS FROM THE SEDIMENTS. RESIDUAL NUTRIENTS RESULT FROM PAST MUNICIPAL WASTEWATER DISCHARGES.
Current Actions: THE CALIFORNIA COASTAL CONSERVANCY HAS BEEN A KEY PLAYER IN ESTABLISHING AN EROSION AND ENHANCEMENT PLAN FOR THE LAGOON. ALSO A POTENTIAL MITIGATION PLAN STILL UNDER REVIEW MAY CREATE A TIDAL PRISM WITHIN THE LAGOON AND STABILIZE THE LAGOON MOUTH. THE REGIONAL BOARD STAFF COORDINATES WITH THE AGENCY.

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 3 3 3 3 3 3 3
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 1 D M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
COLORADO LAGOON	405.12	0	0	13	0	13	Yes	High coliform counts (DHS) Pesticides & Lead > E95 & MIS (SMW) Elevated shellfish tissue levels	Non-Point	X	X	.	.	X	.	X
<u>Resource Value:</u> 3																

Problem Description: Tidal exchange with Long Beach Harbor, stormwater runoff

Problem Source(s): NONPOINT

Current Actions:

GOLETA SLOUGH/ESTUARY	315.31	0	0	400	0	400	Yes	Non-point runoff from urban development Elevated shellfish tissue levels Elevated bacteria levels (DHS, Patwells)	Non-Point	X	X	.	.	X	.	X
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Resource Value: 3

Problem Description: Elevated levels of copper in water samples may be affecting aquatic life. SMW data demonstrated the presence of a variety of organics which may be detrimental to both humans and aquatic life. Elevated bacteria levels in slough water may affect shellfish growing areas.

Problem Source(s): Urban and Agricultural runoff.

Current Actions: Board is investigating the impact of non-point source runoff on the bacterial quality of slough waters.

LOS PENASQUITOS LAGOON	906.10	0	0	1	384	385	Yes	Recreational impacts Eutrophication Threat of objectives violated	Point & Non-Point	.	X	.	.	X	.	X
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Resource Value: 3

Problem Description: POORLY FLUSHED TIDAL LAGOON. NUTRIENT SOURCES CONTINUE TO RECYCLE WITHIN THE SYSTEM ORIGINATING FROM PAST AND PRESENT DISCHARGES.

Problem Source(s): AGRICULTURAL AND URBAN RUNOFF, FREQUENT SEWER OVERFLOWS, PLUS RECYCLING OF RESIDUAL NUTRIENTS FROM FORMER MUNICIPAL WASTEWATER DISCHARGES.

Current Actions: THE LOS PENASQUITOS LAGOON FOUNDATION AND THE CA. COASTAL CONSERVANCY PREPARED AN ENHANCEMENT PLAN FOR THE LAGOON IN 1985. THE FOUNDATION HAS BEEN OPENING THE LAGOON MOUTH PERIODICALLY IN ORDER TO ALLOW FOR TIDAL EXCHANGE. THE REGIONAL BOARD STAFF PARTICIPATES IN A LAGOON ENHANCEMENT COMMITTEE. POTW LOCATED IN THE UPPER WATERSHED IS PROPOSING A LIVE STREAM DISCHARGE.

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 1 0 0 0 1 1
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 1 D M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
SAN ELIJO LAGOON	904.61	0	0	150	180	330	Yes	Eutrophication Recreational impacts Threat of recreational impacts	Non-Point	. X . . X . X
<u>Resource Value: 3</u>										

Problem Description: POORLY FLUSHED TIDAL LAGOON. SEVERAL MANMADE STRUCTURES OBSTRUCT THE LAGOON. SEVERAL RESERVOIRS ON ESCONDIDO CREEK, THE MAIN TRIBUTARY DISCHARGING INTO THE LAGOON, HAS REDUCED FRESHWATER INFLOWS.

Problem Source(s): NUTRIENT SOURCES ARE PREDOMINANTLY AGRICULTURAL AND URBAN RUNOFF, PLUS THE RECYCLING OF RESIDUAL NUTRIENTS FROM FORMER MUNICIPAL WASTEWATER DISCHARGES.

Current Actions: SEVERAL ORGANIZATIONS ARE CONCERNED WITH MANAGING DIFFERENT ASPECTS OF THE LAGOON, INCLUDING THE SAN ELIJO LAGOON FOUNDATION, THE SAN ELIJO LAGOON CONSERVANCY, AND THE SAN ELIJO LAGOON VOLUNTEERS. THE REGIONAL BOARD STAFF PARTICIPATES ON LAGOON MANAGEMENT COMMITTEE MEETINGS. STAFF IS ALSO MONITORING AND EVALUATING A NPS PROJECT TO REDUCE SEDIMENT LOADING INTO THE LAGOON SYSTEM.

SAN LORENZO RIVER ESTUARY	304.12	0	0	2	0	2	Yes	Elevated bacteria levels	Non-Point	. X . . X . X
<u>Resource Value: 3</u>										

Problem Description:
Problem Source(s):
Current Actions:

SANTA MARGARITA LAGOON	902.11	0	0	268	0	268	Yes	Eutrophication Recreational impacts Objectives violated	Point & Non-Point	. X . . X . X
<u>Resource Value: 3</u>										

Problem Description: POORLY FLUSHED LAGOON. THE LAGOON'S MOUTH IS CLOSED DUE TO BUILDUP OF SAND. LACK OF FLUSHING HAS CAUSED EUTROPHICATION

Problem Source(s): AGRICULTURAL AND URBAN RUNOFF, PLUS THE DIRECT DISCHARGE OF TREATED EFFLUENT FROM CAMP PENDLETON.

Current Actions: REGIONAL BOARD HAS ESTABLISHED AN ENFORCEABLE TIME SCHEDULE WITH THE MARINE BASE TO DISCONTINUE WASTEWATER DISCHARGES INTO THE LAGOON. CAMP PENDLETON OWNS AND MANAGES THE ESTUARY FOR PROTECTION OF ITS NATURAL RESOURCES.

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Federal Lists
 3 3 3 3 3 3 3
 1 0 0 0 0 1 1
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 1 D M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
OLD SALINAS RIVER EST	309.10	0	0	50	0	50	Yes	Pesticide residues in fish and shellfish	Non-Point	X	X	.	.	X	.	X
<u>Resource Value: 4</u>																

Problem Description:
Problem Source(s):
Current Actions:

SAN GABRIEL RIVER (TIDAL PRISM)	405.15	0	0	3	0	3	Yes	Elevated fish tissue levels	Point & Non-Point	X	X	.	.	X	.	X
<u>Resource Value: 4</u>																

Problem Description: Lindane, Silver, Copper, Lead, Nickel, Arsenic, Chromium - All exceed E-95 levels (TSM)
Problem Source(s): POINT: Industrial, POTW's; NONPOINT: urban runoff
Current Actions: Negotiations for better pretreatment

Re-evaluate County Sanitation District local limits for pretreatment

SOQUEL LAGOON	304.13	0	0	2	0	2	Yes	Bacteria and nutrient levels	Non-Point	.	X	.	.	X	.	X
<u>Resource Value: 4</u>																

Problem Description:
Problem Source(s):
Current Actions:

WATSONVILLE SLOUGH / PAJARO SLOUGH	305.10	0	0	150	0	150	Yes	Potential water quality limited segment Ag/Urban runoff entering slough Elevated fish tissue levels	Non-Point	X	X	.	.	X	.	X
<u>Resource Value: 4</u>																

Problem Description: Elevated levels of toxic organics. Chemicals have been found in aquatic life from slough. Non-point source inputs from Ag and Urban sources are difficult to control.

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Estuaries

Federal Lists
 3 3 3 3 3 3
 1 0 0 0 1 1
 . 3 4 4 4 4 9
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 1 D M S L

<u>Water Body Name</u>	<u>Unit No.</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Fact Sheet</u>	<u>Problem Description</u>	<u>Problem Source</u>	
		<u>Good</u>	<u>Inter- mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
FAMOSA SLOUGH	906.40	0	0	31	0	31	Yes	Eutrophication	Non-Point	. X . . X . X
<u>Resource Value:</u> 5										

Problem Description: EUTROPHICATION CAUSED BY LACK OF FRESH AND SEAWATER FLOWS INTO THE SLOUGH
Problem Source(s): SLOUGH IS PRESENTLY PRIVATELY OWNED. A FLAPPER GATE HAS BEEN PLACED AT THE HEAD OF THE SLOUGH. TIDAL CIRCULATION HAS BEEN DISRUPTED.
Current Actions: STAFF HAS INTERACTED WITH THE CITY OF SAN DIEGO AND THE DEVELOPER IN SEEKING TO RESOLVE THE FLOW PROBLEM. A PUBLIC AGENCY IS BEING SOUGHT TO PURCHASE THE SLOUGH.

MORO COJO SLOUGH	309.10	0	0	150	0	150	Yes	Receives direct discharge from Ag drains	Non-Point	X X . . X . X
<u>Resource Value:</u> 5										

Problem Description:
Problem Source(s):
Current Actions:

SALINAS LAGOON	309.10	0	100	50	0	150	Yes	Agricultural runoff from lower Salinas carrying toxic organics	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										

Problem Description: Pesticide concentrations
Problem Source(s): Agricultural runoff.
Current Actions:

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Agricultural Drains

Federal Lists
 3 3 3 3 3 3
 1 0 0 0 1 1
 . 3 4 4 4 4 9
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 1 D M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
IMPERIAL VALLEY DRAINS	723.10	0	0	1305	0	1305	Yes	Threat of objectives violated Fish kills Threat of toxic bioassay results	Non-Point	X	X	.	.	X	.	X

Resource Value: 5

Problem Description: High levels of bacteria, suspended solids, pesticides, and fertilizers. These drains flow to Salton Sea via the New and Alamo Rivers.

Problem Source(s): Agricultural (non-point source) discharges.

Current Actions: See actions listed for Salton Sea and New and Alamo Rivers.

PALO VERDE OUTFALL DRAIN	715.40	0	0	16	0	16	Yes	Bacteria objective violated Threat of toxic bioassay results Threat of sedimentation	Non-Point	X	X	.	.	X	.	X
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Resource Value: 5

Problem Description: Elevated levels of bacteria; high turbidity; elevated pesticide concentrations in sediment, and periodically in water.

Problem Source(s): Agricultural discharges (non-point sources).

Current Actions: None

BLANCO DRAIN	309.10	0	0	8	0	8	Yes	Agricultural drain. High Chloride and Nitrogen concentration Pest. in fish tissue violate FDA std.	Non-Point	X	X	.	.	X	.	X
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Resource Value: N/A

Problem Description:

Problem Source(s):

Current Actions:

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Agricultural Drains

Federal Lists
 3 3 3 3 3 3
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 1 D M S L

<u>Water Body Name</u>	<u>Unit No.</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Fact Sheet</u>	<u>Problem Description</u>	<u>Problem Source</u>	
		<u>Good</u>	<u>Inter- mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
SALINAS RECLAMATION CANAL	309.20	0	0	20	0	20	Yes	Potential water quality limited segment Suspect toxic organics in Ag. runoff Elevated fish tissue levels	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										

Problem Description: HIGH LEVELS OF DDT, DIELDRIN, TOXAPHENE AND OTHER ORGANICS FOUND IN SMW & TSM SAMPLES.

Problem Source(s): AGRICULTURAL RUNOFF

Current Actions:

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Bays and Harbors

Federal Lists	
3 3 3 3	3 3 3
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D	M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists					
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L	
CARQUINEZ STRAIT	207.10	0	0	6560	0	6560	Yes	Fish population decline Elevated fish tissue levels Elevated shellfish tissue levels	Point & Non-Point	X	X	.	X	.	X
<u>Resource Value:</u> 1															

Problem Description: Point and non-point sources of toxic pollutants may be contributing to decline of fish populations. Department of Health Services has issued advisory for consumption of fish.

Problem Source(s): Point and non-point

Current Actions: Evaluation of toxicity from point and non-point sources;

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MONTEREY BAY SOUTH	309.50	76200	0	640	0	67840	Yes	Salinas River Mouth to Point Pinos Municipal outfalls, Urban runoff (Monterey Harbor has high lead conc.)	Point & Non-Point	X	X	.	X	.	X
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Resource Value: 1

Problem Description:

Problem Source(s):

Current Actions:

PEYTON SLOUGH	207.10	0	0	1	0	1	Yes	Metals exceed shallow water effluent limits.	Point	X	X	.	X	X	.
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Resource Value: 1

Problem Description:

Problem Source(s):

Current Actions:

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 1 D M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown					
RICHARDSON BAY	203.13	0	0	2560	0	2560	Yes	Eutrophication Elevated coliform Urban runoff	Point & Non-Point	X X . . X . X
<u>Resource Value:</u> 1										

Problem Description: Point and non-point sources of toxic pollutants may be contributing to decline of fish populations.

Problem Source(s): Point and non-point

Current Actions: Evaluation of toxicity from point and non-point sources

SAN DIEGO BAY	908.21	0	0	12000	0	12000	Yes	Objectives violated Elevated shellfish tissue levels Elevated fish tissue levels	Point & Non-Point	X X . . X . X
<u>Resource Value:</u> 1										

Problem Description: SMW DATA HAS INDICATED THAT ELEVATED LEVELS OF VARIOUS TOXICS, ESPECIALLY FOR CERTAIN HEAVY METALS, TBT, AND PCBS HAVE BEEN FOUND IN THE BAY. THE EXTENT OF THE IMPACT IS NOT KNOWN. SAN DIEGO CTY. DEPT. OF HEALTH SERVICES HAS POSTED 1 PORTION OF THE BAY.

Problem Source(s): SEVERAL TYPES OF INDUSTRIES ARE LOCATED AROUND THE BAY. THE U.S. NAVY HAS A LARGE DEPLOYMENT IN THE BAY. NUMEROUS STORMDRAINS DISCHARGE INTO THE BAY.

Current Actions: REGIONAL BOARD STAFF IS CURRENTLY INVOLVED IN SEVERAL ELEMENTS OF A FIVE-YEAR SAN DIEGO BAY CLEAN-UP PROJECT. THIS YEAR HAS INCLUDED SAMPLING, ANALYSIS, AND MODELING EFFORTS. THE PROJECT IS HIGHLY DEPENDENT UPON THE STATE BOARD FUNDING. STAFF ALSO SERVE ON TECHNICAL ADVISORY COMMITTEES AND NUMEROUS PUBLIC AGENCIES AND CITIZENS ARE INVOLVED. ENFORCEMENT AND PERMITTING ACTIVITIES HAVE DIRECTLY RESULTED FROM THE PROGRAM, PLUS BENEFITS TO OTHER WATERS.

SAN FRANCISCO BAY, CENTRAL	203.12	0	0	67700	0	67700	Yes	Fish population decline Elevated fish tissue levels Elevated shellfish tissue levels	Point & Non-Point	X X . . X . X
<u>Resource Value:</u> 1										

Problem Description: Point and non-point sources of toxic pollutants may be contributing to decline of aquatic organisms and impairment of estuarine and wetlands habitat. Department of Health Services has issued advisories for selenium in waterfowl.

Problem Source(s): Point and non-point

Current Actions: Evaluation of toxicity from point and non-point sources

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Bays and Harbors

Federal Lists

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1

1 D M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
SAN FRANCISCO BAY, LOWER	204.10	0	0	79900	0	79900	Yes	Fish population decline Elevated fish tissue levels Elevated shellfish tissue levels	Point & Non-Point	X	X	.	.	X	.	X

Resource Value: 1

Problem Description: Point and non-point sources of toxic pollutants may be contributing to decline of aquatic organisms and impairment of estuarine and wetlands habitat. Department of Health Services has issued a health advisory for selenium for certain waterfowl.

Problem Source(s): Point and non-point sources

Current Actions: Evaluation of toxicity from point and non-point sources

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SAN FRANCISCO BAY, SOUTH	205.10	0	0	24500	0	24500	Yes	Fish population decline Elevated fish tissue levels Elevated shellfish tissue levels	Point & Non-Point	X	X	.	X	X	.	X
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Resource Value: 1

Problem Description: Exceedances of State narrative water quality criteria for cadmium, copper, lead, nickel, silver, mercury, selenium from point and non-point sources. Impairment of estuarine and wetlands habitat.

A significant contribution from point sources is evidenced by exceedances of State narrative standards during dry weather periods.

Problem Source(s): point and non-point sources

Current Actions: Development of individual control strategies for POTWs

Nonpoint source assessment program Monitoring of ambient water quality and regulation of point discharges

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Bays and Harbors

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 1 D M S L

Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists								
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L				
SAN PABLO BAY	206.10	0	0	71300	0	71300	Yes	Fish population decline Elevated fish tissue levels Elevated shellfish tissue levels	Point & Non-Point	X	X	.	.	X	.	X	.	X
<u>Resource Value:</u> 1																		

Problem Description: Point and non-point sources of toxic pollutants may be contributing to decline of aquatic organisms, estuarine and wetlands habitat. Department of Health Services has issued a health advisory form for certain waterfowl.

Problem Source(s): Point and non-point sources

Current Actions: Evaluation of toxicity from point and non-point sources

Sediment quality surveys
 Francisco Bay

Pilot projects for determining compliance of water quality objectives in San Francisco Bay

SANTA MONICA BAY (VENTURA CO.LINE TO POI)	405.13	0	0	256000	0	256000	Yes	Objectives violated Elevated fish tissue levels	Point & Non-Point	X	X	.	.	X	.	X	.	X
<u>Resource Value:</u> 1																		

Problem Description: DDT/PCB's in white croaker, occasional coliform > DHS standard, metals, sediment, Health advisory in effect - PCB's > NAS;

Problem Source(s): NONPOINT: Urban runoff, septic tanks, historic sediment deposits;

POINT: historic discharge practices (JWPCP, Hyperion)

Current Actions: 1. SMBRP -National Estuary Program

2. NPDES working with City of L.A. for secondary treatment

3. RWQCB developing stormwater permitting process

4. Evaluation of LACSD 301(h) waiver application

SUISUN BAY	207.10	0	0	25000	0	25000	Yes	Fish population decline Elevated fish tissue levels Elevated shellfish tissue levels	Point & Non-Point	X	X	.	.	X	.	X	.	X
<u>Resource Value:</u> 1																		

Problem Description: Point and non-point sources of toxic pollutants may be contributing to decline of aquatic organisms, estuarine and wetlands habitat. Department of Health Services has issued a health advisory for certain waterfowl.

Problem Source(s): Point and non-point source pollution.

Current Actions: Evaluation of toxicity from point and non-point sources. Sediment quality s

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Bays and Harbors

Federal Lists
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 1 D M S L

Water Quality Condition

Hydrologic Inter- Total Fact

Water Body Name Unit No. Good mediate Impaired Unknown Size Sheet Problem Description Problem Source 1 D M S L

urveys. Pilot projects for determining compliance of water quality objectives in San Francisco Bay.

MORRO BAY	310.22	0	0	3200	0	3200	Yes	Potential Water Quality Limited Segment Elevated bacteria levels in shellfish Sediment impacting salt marsh habitat	Point & Non-Point	X	X	.	.	X	.	X
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Resource Value: 2

Problem Description: Elevated bacterail levels found in shell-fish even when Bay waters were not in violation of BPO's.

Problem Source(s): Non-point source discharges from creeks, culverts, city streets, Live-on-Boards, and restaurants.

Current Actions: RWQCB Morro Bay Bacterial Study completed in 1987.

LONG BEACH HARBOR (INNER)	405.12	0	0	840	0	840	Yes	Health advisory in effect, PCB's > NAS Elevated shellfish tissue levels	Non-Point	X	X	.	.	X	.	X
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Resource Value: 3

Problem Description: Chlordane, Lead (Queensway Bay), historic organics (PAH's, PCB's - Naval Area);

Problem Source(s): NONPOINT: Nurseries (chlordane), urban runoff (Lead), accidental & deliberate release of oily water or oil from berthed ships (oil, grease, PAH's);

Current Actions: State Mussel Watch sampling

LOS ANGELES HARBOR (INNER)	405.12	0	0	1260	0	1260	Yes	Pesticides, metals & PCB's (SMW) Health advisory in effect. Elevated shellfish tissue levels	Point & Non-Point	X	X	.	.	X	.	X
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Resource Value: 3

Problem Description: Historic pesticide and metals problems, DDT & PCB's > NAS, poor circulation, resuspension of contaminated sediments;

Problem Source(s): NONPOINT: Boats (metals), storm drains (metals), contaminated sediments;

POINT: cooling water (Cr), unpermitted industries

Current Actions: Investigating potential source for PCB's (SCCWRP Study)

State Mussel Watch sampling

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
MISSION BAY	906.40	0	0	1520	0	1520	Yes		Point & Non-Point	X	X	.	.	X	.	X
<u>Resource Value: 3</u>																

Problem Description:
Problem Source(s):
Current Actions:

NEWPORT BAY, LOWER	801.11	680	0	20	0	700	Yes	Elevated shellfish tissue levels Recreational impacts Eutrophication	Non-Point	X	X	.	.	X	.	X
<u>Resource Value: 3</u>																

Problem Description: Bacterial contamination in the Rhine channel. SMW data also shows elevated cadmium, lead, arsenic, chlordane, DDT, chlorpyrifos, dieldrin, endosulfans, heptachlors and PCBs. Eutrophication in the lower bay is not strictly limited to Rhine channel. Because of the toxics problems associated with the Rhine channel, IT HAS BEEN DESIGNATED A WATER QUALITY LIMITED SEGMENT.
Problem Source(s): Nonpoint sources; vessel waste discharges and boatyard activities.
Current Actions: Newport coordinator position; boatyard investigation; SMW(see contract costs below). Miscellaneous enforcement actions. The Regional Board is also contracting with UCI to develop a hydrodynamic model of the bay which will aid in the development of water quality standards.

TOMALES BAY	201.11	0	0	7820	0	7820	Yes	Coliform, Shellfish harvest closure.	Non-Point	X	X	.	.	X	.	X
<u>Resource Value: 3</u>																
<u>Problem Description:</u>																
<u>Problem Source(s):</u>																
<u>Current Actions:</u>																

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Water Body Name	Hydrologic Unit No.	Water Quality Condition				Total Size	Fact Sheet	Problem Description	Problem Source	Federal Lists						
		Good	Inter-mediate	Impaired	Unknown					1	D	M	S	L		
MARINA DEL REY HARBOR	405.13	0	0	354	0	354	Yes	Metals, pesticides Coliform exceedences Elevated shellfish tissue levels	Non-Point	X	X	.	.	X	.	X

Resource Value: 4

Problem Description: Poor circulation & resuspension of contaminated sediments, TBT and metals from boat cleaning, urban runoff, birds
Problem Source(s): NONPOINT: Boats (metals), Urban Runoff (chlordan), historic agriculture contamination (DDT);
Current Actions:

MONTEREY HARBOR	309.50	0	0	74	0	74	Yes	Potential water quality limited segment Shellfish objectives violated (lead) Elevated shellfish tissue levels	Point & Non-Point	X	X	.	.	X	.	X
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Resource Value: 4

Problem Description: Lead slag pile in Bay contributing to the raised levels in the harbor sediments.
Problem Source(s): Lead slag pile on shore in back of harbor.
Current Actions: Monterey Harbor lead study completed in September, 1988.

MOSS LANDING HARBOR	306.00	0	0	400	0	400	Yes	Potential Water Quality Limited Segment Elevated shellfish tissue levels	Non-Point	X	X	.	.	X	.	X
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Resource Value: 4

Problem Description: Ag return flows entering Harbor through Elkhorn Slough, Moro Cojo Slough, Old Salinas River. High concentrations of pesticides and herbicides associated with runoff.
Problem Source(s): Ag runoff, boat paints, and urban runoff.
Current Actions: NPDES permits on all dredging operations, sediments analyzed for metals and organics.

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<u>Water Body Name</u>	<u>Hydrologic Unit No.</u>	<u>Water Quality Condition</u>				<u>Total Size</u>	<u>Fact Sheet</u>	<u>Problem Description</u>	<u>Problem Source</u>	
		<u>Good</u>	<u>Inter-mediate</u>	<u>Impaired</u>	<u>Unknown</u>					
OCEANSIDE HARBOR	902.11	0	0	1	209	210	Yes	Objectives violated Recreational impacts Elevated shellfish tissue levels	Point & Non-Point	X X . . X . X
<u>Resource Value:</u> 4										
<u>Problem Description:</u>										
<u>Problem Source(s):</u>										
<u>Current Actions:</u>										
HUNTINGTON HARBOUR	801.11	0	0	150	0	150	Yes	Elevated shellfish tissue levels Threat of sedimentation	Non-Point	X X . . X . X
<u>Resource Value:</u> N/A										

Problem Description: SMW data has shown elevated levels of lead, chromium, aldrin, chlordane, DDE, DDT, endrin and heptachlor. Tributaries to the harbor have been analyzed in the TSM program and have indicated that these channels carry elevated levels of DDE, DDD, lindane and heptachlor. There is also bacterial contamination possibly due to vessel waste discharges.

Problem Source(s): Nonpoint sources, boat discharges and boatyard activities.

Current Actions: Boatyard investigation; SMW