

1996

EXECUTIVE SUMMARY

Chapter 961, Statutes of 1992 (SB 1865, Hart) requires the Director of Environmental Health of each coastal county to report to the State Water Resources Control Board (SWRCB) annually by March 30 the number of beach closures due to threats to public health within their jurisdiction. The SWRCB is then required to submit this information to the Legislature by the following September 30. This, the fourth of these annual reports, documents 187 beach closures for 1996, 63 more than last year.

Table 1 lists the number of beach closures/postings for 1996 for each coastal county, organized geographically from north to south. Following the summary table are the submittals from each coastal county to the SWRCB in a standard format.

The vast majority of the closures were due to the release of inadequately treated sewage resulting from broken, blocked, or damaged lines, heavy influx of rainwater, power outages, and pump failures. The other causes of closures included urban runoff and unknown sources. One beach in Orange County was closed due to the appearance of about 250 syringes on the beach. The county beaches north of San Francisco continued to have good water quality. Most closures occurred from Santa Barbara County south. This difference between north and south is consistent from year to year and is linked to the greater recreational use of beaches in the southern half of the State. Monitoring programs are generally more extensive in southern California and more vigorous monitoring often reveals more contamination. Also, the mild weather in southern California allows for beach recreation during the rainy season, and rainfall runoff often leads to closures.

Seven counties reported no closures for both 1995 and 1996. Three counties showed an increased number of closures but a decrease in the overall number of days closed. Four counties reported fewer closures. San Mateo County reported the largest increase, more than tripling the number of closures. Staff at the San Mateo County Health Department attributed the increase to the reinstatement of a routine monitoring program. Health Department staff felt these data show the value of routine monitoring; if you look more often you may discover more of a problem.

Comparisons of closure totals among counties are difficult to interpret. One reason for this is the local system for naming a beach. A named beach in one county may be only a few hundred yards long, whereas a beach in a different county can be five miles long. Some agencies do not report individual beach names in their reports to the SWRCB. Therefore, identifying a closure incident does not reveal the length of coastline affected. Some counties routinely post storm drains but do not include these data in their yearly report.

The more heavily urbanized shorelines have more closures than less populated areas. City storm drains can carry contaminated runoff directly to the ocean. A recent report from the Santa Monica Bay Restoration Project linked an increased risk of intestinal and respiratory illness with swimming in water contaminated with stormwater drainage. This information has led to permanent warnings in areas where city storm drains empty to the ocean.

Other factors that confound trend analysis include the following:

- Professional judgement and past experience often form the sole basis for closing a beach. Different conditions may trigger closures in different counties.
- Yearly changes in the duration and intensity of rainfall events affect the number of beach closures. It is difficult to make comparisons as beach closures can be caused by prolonged wet weather in "wet years" as well as cloudbursts in low rainfall years.
- Part of the response to past beach closure problems associated with overflows and sewerage systems spills involves increased monitoring, which has the potential to reveal more problems.

The SWRCB and the coastal Regional Water Quality Control Boards (RWQCBs) operate several programs to address the causes of beach closures. The core regulatory program of permitting, enforcement and compliance monitoring plays a vital role. For example, the responsible sewerage entity must report sewage spills of greater than 100 gallons to the appropriate RWQCB. In addition to follow-up activities, such incidents are tabulated and presented to RWQCB members at their monthly public meetings. In regard to oil spills, the typical reportable quantity is one barrel and such instances are reported to the Office of Emergency Services which in turn contacts the appropriate RWQCB. Where urban runoff has caused a closure, the recent implementation of stormwater permits under the National Pollutant Discharge Elimination System (federal permits program) will assist follow up. Other programs which assist in addressing the cause of beach closures include cooperative and public outreach partnership endeavors such as the Santa Monica Bay Restoration Project, the development of ocean water quality standards as represented by the California Ocean Plan and funding assistance such as the State Revolving Fund Program.

TABLE 1. CALIFORNIA BEACH CLOSURES DURING 1996*

COUNTY (NORTH TO SOUTH)	NUMBER OF CLOSURES/ POSTINGS	NUMBER OF DAYS CLOSED/ POSTED	REASON(S)
Del Norte	0		
Humboldt	0		
Mendocino	0		
Sonoma	0		
Marin	0		
San Francisco	30	190	Rain and construction
Contra Costa	0		
Alameda	0		
San Mateo	48	1144	Sewage
Santa Cruz	1	3	Sewage
Monterey	0		
San Luis Obispo	2	40	Storm runoff
Santa Barbara	5	86	Sewage spills, urban runoff
Ventura	1	3	Sewage spill
Los Angeles	4	10	Discharge of inadequately treated sewage
Orange	22	277	Pump failure, line blockage, one closure involved 250 syringes found on beach
San Diego	74	1365	Sewage, urban runoff; 3 of the 74 are permanent closures (accounts for 1095 of days closed)

* For the number of beaches affected and their names, please refer to individual county tables included in this report.

**** BEACH CLOSURES - 1996 ****

(A report to the State Water Resources Control Board)

COUNTY: Del Norte CONTACT: Steve Landes PHONE: 707/464-7227
ADDRESS: 909 Hwy. 101 N.
Crescent City, CA 95531

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
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There were no beach
closures in 1996.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Humboldt CONTACT: Harry Nethery PHONE: 707-445-6215
ADDRESS: 100 H Street, Suite 100
Eureka, CA

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
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There were no beach
closures in 1996.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Mendocino CONTACT: Jim Ehlers PHONE: 707/964-4713
ADDRESS: 120 West Fir Street
Fort Bragg, CA 95437

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
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There were no beach
closures in 1996.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Sonoma CONTACT: Donald L. Smith PHONE: 707/525-6540
ADDRESS: 1030 Center Drive
Santa Rosa, CA 95403

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
There were no beach closures in 1996.				

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Marin CONTACT: Ed Stewart PHONE: 415/507-4124
ADDRESS: 3501 Civic Center Drive
San Rafael, CA 94903

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
There were no beach closures in 1996.				

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: San Francisco CONTACT: Lorraine Anderson PHONE: 415/554-2774
 ADDRESS: Bureau of Environmental Health, 101 Grove Street, Rm. 217
San Francisco, CA 94102

	DATE			REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)
	<u>CLOSED</u>	<u>OPENED</u>	<u>BEACH/AREA POSTED</u>	
1.	01/16/96	01/23/96	Crissy Field	Rain
2.	01/16/96	01/23/96	Aquatic Park	Rain
3.	01/16/96	01/24/96	Ocean Beach	Rain
4.	01/31/96	02/12/96	Ocean Beach	Rain
5.	01/31/96	02/13/96	Candlestick Park	Rain
6.	02/05/96	02/13/96	Crissy Field	Rain
7.	02/05/96	02/13/96	Aquatic Park	Rain
8.	03/28/96	04/11/96	Sea Cliff	Rain
9.	04/02/96	04/04/96	Crissy Field	Rain
10.	04/02/96	04/04/96	Aquatic Park	Rain
11.	04/01/96	04/04/96	Ocean Beach	Rain
12.	05/15/96	05/31/96	Sea Cliff	Rain
13.	06/03/96	06/05/96	Fort Funston	San Mateo Co. Outfall
14.	07/23/96	07/31/96	Crissy Field	Rain
15.	08/09/96	08/13/96	Sea Cliff	Construction Obstruction
16.	08/11/96	08/13/96	Crissy Field	Rain
17.	09/18/96	09/24/96	Sea Cliff	Construction Obstruction
18.	10/07/96	11/05/96	Sea Cliff	Construction Obstruction
19.	10/29/96	11/01/96	Crissy Field	Rain
20.	10/30/96	11/01/96	Candlestick Park	Rain
21.	11/17/96	11/20/96	Sea Cliff	Rain
22.	11/17/96	11/20/96	Ocean Beach	Rain
23.	11/17/96	11/20/96	Crissy Field	Rain
24.	12/10/96	12/13/96	Ocean Beach	Rain
25.	12/10/96	12/12/96	Crissy Field	Rain
26.	12/10/96	12/16/96	Candlestick Park	Rain
27.	12/21/96	12/24/96	Ocean Beach	Rain
28.	12/27/96	12/31/96	Sea Cliff	Rain
29.	12/27/96	12/31/96	Ocean Beach	Rain
30.	12/28/96	12/31/96	Crissy Field	Rain

* These dates are for posting of warning signs only.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Contra Costa CONTACT: Constance Staurus PHONE: 510/646-2521
ADDRESS: 1111 Ward Street
Martinez, CA 94553

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
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There were no beach
closures in 1996.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Alameda CONTACT: Leroy Todd PHONE: 510/567-6724
ADDRESS: Environmental Health, 1131 Harbor Bay Parkway, Ste. 250
Alameda, CA 94501

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
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There were no beaches
posted or closed in 1996.

Exclusive of the City of
Berkeley.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: San Mateo CONTACT: Brian J. Zamora PHONE: 415/363-4305
 ADDRESS: 590 Hamilton Street, 4th floor
Redwood City, CA 94063

	DATE			REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)
	CLOSED	OPENED	BEACH/AREA CLOSED	
1.	01/27/96	01/31/96	Linda Mar Beach	Unknown
2.	01/31/96	02/16/96	Fitzgerald Marine Reserve	Sewage overflow
3.	01/31/96	02/16/96	Francis State Beach	Sewage overflow
4.	02/04/96	02/08/96	Francis State Beach	Sewage overflow
5.	02/20/96	02/28/96	San Gregorio Beach	*
6.	02/20/96	02/28/96	San Gregorio Lagoon	*
7.	02/20/96	02/28/96	Venice Beach	*
8.	02/21/96	02/28/96	Francis State Beach	Sewage overflow
9.	02/21/96	02/28/96	Fitzgerald Marine Reserve	Sewage overflow
10.	03/04/96	03/08/96	Francis State Beach	Sewage overflow
11.	03/05/96	05/01/96	Pillar Point #4 Beach	*
12.	03/31/96	04/04/96	Fitzgerald Marine Reserve	Sewage overflow
13.	04/02/96	04/16/96	Ellendale & The Strand	Plug in sewer lateral (1500 gals)
14.	04/08/96	04/11/96	Gull Park, Foster City	Sewage overflow (100 gals)
15.	04/08/96	04/11/96	Erkenbrack Park, Foster City	Same overflow as above
16.	04/13/96	04/13/96	Fitzgerald Marine Reserve	Sewage overflow
17.	04/15/96	04/24/96	Sharp Park Beach, Pacifica	*
18.	04/01/96	04/26/96	San Gregorio Lagoon	*
19.	04/29/96	05/09/96	San Gregorio Lagoon	*
20.	05/06/96	05/16/96	Sharp Park Beach, Pacifica	*
21.	05/06/96	ongoing	Pillar Point #4 Beach	*
22.	05/13/96	05/23/96	End of West Point, Princeton	*
23.	06/01/96	06/03/96	Fitzgerald Marine Reserve	Sewage overflow
24.	06/03/96	06/20/96	San Gregorio Lagoon	*
25.	06/25/96	?	Colma Creek	Sewage release to storm drain
26.	06/26/96	06/29/96	Manor	Sewage release
27.	07/01/96	07/11/96	Linda Mar #5, Pacifica	*
28.	07/01/96	08/01/96	San Gregorio Lagoon	*
29.	07/02/96	07/12/96	Bay adjacent to the SPCA	*

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: San Mateo (continued) CONTACT: Brian J. Zamora PHONE: 415/363-4305
 ADDRESS: 590 Hamilton Street, 4th Floor
Redwood City, CA 94063

	DATE			REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)
	<u>CLOSED</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	
30.	07/02/96	07/19/96	Marlin Park, Redwood City	*
31.	07/15/96	07/19/96	Linda Mar #6, Pacifica	*
32.	07/16/96	08/16/96	Marina Lagoon #7, San Mateo	*
33.	07/29/96	09/26/96	Erkenbrack Park, Foster City	*
34.	07/29/96	10/29/96	Marlin Park, Redwood City	*
35.	08/05/96	08/22/96	San Gregorio Lagoon	*
36.	08/13/96	08/22/96	Marlin Park, Redwood City	*
37.	08/19/96	09/05/96	Pomponio Creek	*
38.	09/09/96	10/28/96	San Gregorio Lagoon	*
39.	09/16/96	09/23/96	Francis Beach	*
40.	09/17/96	09/21/96	Beach at Pacifica WWTP	Unknown
41.	09/23/96	10/04/96	End of West Point, Princeton	*
42.	10/03/96	10/12/96	Beach at Pacifica WWTP	Unknown
43.	10/29/96	11/08/96	Beach at Pacifica WWTP	Unknown
44.	11/17/96	12/31/96	Beach at Pacifica WWTP	Unknown
45.	11/27/96	12/03/96	Linda Mar Beach	Unknown
46.	12/10/96	12/16/96	Francis State Beach	Sewage release
47.	12/18/96	02/11/97	Mariner Park, Redwood City	Sewage release
48.	12/21/96	01/06/97	Surfer's Beach	Sewage release (10,000 gals)

* Routine sampling indicated elevated bacteriological levels.

**** BEACH CLOSURES - 1996 ****

(A report to the State Water Resources Control Board)

COUNTY: Santa Cruz CONTACT: John Ricker PHONE: 408/454-2022
ADDRESS: 701 Ocean Street, Room 312
Santa Cruz, CA 95060

	<u>DATE</u>		
	<u>CLOSED</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>
1.	08/14/96	08/17/96	Capitola Beach
			Sewage spill (50,000 gal.)

**** BEACH CLOSURES - 1996 ****

(A report to the State Water Resources Control Board)

COUNTY: Monterey CONTACT: Richard LeWarne PHONE: 408/755-4544
ADDRESS: Environmental Health, 1270 Natividad Road
Salinas, CA 93906

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
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There were no beach
closures in 1996.

**** BEACH CLOSURES - 1996 ****

(A report to the State Water Resources Control Board)

COUNTY: San Luis Obispo CONTACT: Mike Doherty PHONE: 805/781-5544
ADDRESS: P.O. Box 1489
San Luis Obispo, CA 93406

	<u>DATE</u>			<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
	<u>CLOSED</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	
1.	11/21/96	11/22/96	Avila Beach	Storm runoff resulting in high bacteria counts above existing standard.
2.	11/22/96	12/31/96	Avila Beach	Permanent advisories as well as temporary advisories were posted during periods of runoff.

**** BEACH CLOSURES - 1996 ****

(A report to the State Water Resources Control Board)

COUNTY: Santa Barbara CONTACT: Gerry Winant PHONE: 805/681-4935
ADDRESS: Environmental Health, 120 Cremona Drive
Goleta, CA 93117

	DATE			REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)
	<u>CLOSED</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	
1.	10/31/96	ongoing	East Beach at Mission Creek - Santa Barbara (City)	High levels of bacteria due to urban runoff.
2.	04/22/96	04/27/96	Arroyo Burro Beach (South County Unincorporated)	High bacteria levels due to a sewage spill.
3.	08/16/96	08/27/96	Arroyo Burro Beach (South County Unincorporated)	High bacteria levels. Origin unknown.
4.	09/05/96	09/11/96	Arroyo Burro Beach (South County Unincorporated)	High bacteria levels due to a sewage spill.
5.	10/29/96	11/01/96	Arroyo Burro Beach (South County Unincorporated)	High bacteria levels due to a reclaimed water spill.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Ventura CONTACT: Elizabeth Huff PHONE: 805/654-3634
ADDRESS: 800 S. Victoria Avenue
Ventura, CA 93009-1730

	<u>DATE</u>		<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
<u>CLOSED</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	
1. 05/16/96	05/19/96	San Buenaventura State Beach	Sewage spill (6,000 gal.)

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Los Angeles CONTACT: Richard Kebabjian PHONE: 213/881-4160
 ADDRESS: 2525 Corporate Place, Room 150
Monterey Park, CA 91754

	DATE		BEACH/AREA CLOSED	REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)
	CLOSED	OPENED		
1.	04/07/96	04/11/96	Brooks Ave., to Imperial Hwy., Los Angeles (Approximately 4.5 miles). Marina del Rey Beach. Activity restricted in Marina del Rey Harbor. Closure reduced to Marina del Rey entrance channel to Imperial Hwy. on 4/9/96. Closure expanded to Venice Pier to Imperial Hwy. on 4/10/96.	Break in sewer line at Orange Dr. & Adams, Los Angeles caused approximately 400K gallons of raw sewage to flow into Ballona Creek and into ocean waters.
2.	05/09/96	05/10/96	Inner Cabrillo Beach (Approximately 1/4 mile). Diving restricted in Los Angeles Harbor.	Sewage spill just outside of Terminal Island Treatment Plant caused approximately 100K gallons of raw sewage to enter Los Angeles Harbor.
3.	08/10/96	08/12/96	Venice Pier (Washington Blvd.) to Redondo Beach Pier (Approximately 10 miles).	A power failure at the Hyperion treatment plant caused approximately 2M gallons of chlorinated primary effluent to be diverted to the 1 mile outfall.
4.	10/18/96	10/21/96	Redondo Beach Pier to Topaz St. (Approximately 1/2 mile).	Leaking sewer line under the Redondo Beach Pier. Amount unknown. Probably less than 3K gallons.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Orange CONTACT: Monica Mazur PHONE: 714/667-3751
 ADDRESS: Environmental Health Division, 2009 E. Edinger Avenue
Santa Ana, CA 92705

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
1.	01/17/96	01/23/96	Carnation Cove, Newport Bay	Fashion Island-Chimayo Restaurant bar sink and toilet hooked up to storm drain. Unknown amount of raw sewage.
2.	01/24/96	01/26/96	Camino Capistrano & PCH (Poche Beach) to San Clemente Pier, Capistrano Beach-San Clemente	City of San Clemente-pump station failure at wastewater treatment plant (380 Avenida Pico San Clemente). ~100,000 gallons, raw sewage.
3.	02/03/96	02/06/96	Bolsa Chica State Beach, Huntington Beach through Sunset Beach (Beach and surfzone closed)	~250 syringes found along high tide line.
4.	02/20/96	02/25/96	Doheny State Park Beach, Dana Point	Santa Margarita Water District-malfunction of pump station at Coto de Caza Drive at Oso Pkwy, Coto de Caza, due to construction debris. 30,000-40,000 gallons, raw sewage.
5.	02/21/96	02/25/96	From San Gabriel River Jetty to Seal Beach Blvd., Seal Beach	Los Angeles County Sanitation District-storm water surcharging of sewage line in Lynwood. ~100,000 gallons, raw sewage.
6.	02/22/96	02/25/96	Channel between Linda Isle & Bayside Dr., & Bayside Cove Condos, Newport Bay, Newport Beach	County Sanitation Districts of Orange County-pump station malfunction. 36,000 gallons, raw sewage.
7.	03/08/96	03/11/96	1000' from breakwater, Doheny State Beach, Dana Point	Dana Point Sanitation District-contractor working on sewer; plug stuck causing overflow. ~1000 gallons, raw sewage.
8.	04/04/96	04/07/96	2000' along Blue Lagoon oceanfront, Victoria Beach, Laguna Beach	Laguna Terrace Mobile Home Park-(private line) line blockage. ~2000 gallons, raw sewage.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Orange (continued) CONTACT: Monica Mazur PHONE: 714/667-3751
 ADDRESS: Environmental Health Division
2009 E. Edinger Avenue, Santa Ana, CA 92705

	DATE		REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)	
CLOSED	OPENED	BEACH/AREA CLOSED		
9.	04/14/96	04/16/96	200' either side of storm drain/ocean interface at projection of Linda Lane, San Clemente	City of San Clemente-line blockage. 300 gallons, raw sewage.
10.	05/23/96	05/25/96	50 yards either side of Aliso Creek/Ocean interface, Laguna Beach	1) Trabuco Canyon Water District-pump station failure at Portola Pkwy and El Toro. 150,000-200,000 gallons, raw sewage. 2) Equipment malfunction at Aliso Wastewater Management Agency-coastal treatment plant. 100 gallons, raw sewage.
11.	05/28/96	05/30/96	Bluebird Canyon Dr. to Ruby Street, Laguna Beach	City of Laguna Beach-force main rupture at Pearl Street and PCH. 2,000 gallons, raw sewage.
12.	06/06/96	08/08/96	Tower 23, south to projection to Seapointe Street, Bolsa Chica State Beach, Huntington Beach	Bolsa Chica State Park-broken force mains from park restroom system. Unknown amount of raw sewage.
13.	06/10/96	06/13/96	Monarch Beach & 1500' south of Salt Creek, Salt Creek Beach, Dana Point	South Coast Water District-line blockage (grease). 5,000 gallons, raw sewage.
14.	06/14/96	06/17/96	East jetty to east end of campground, Doheny State Park Beach, Dana Point	Dana Point Marina Mobile Home Estates-broken sewage line. Unknown amount of raw sewage.
15.	07/22/96	07/25/96	Harbor Marina, Newport Bay	Harbor Marina-sewage line blockage from vessel pump out station. ~250 gallons, raw sewage.
16.	07/27/96	07/31/96	Cleo Street to Cress Street, Laguna Beach	City of Laguna Beach-power failure to pump station. 5,500 gallons, raw sewage.
17.	08/07/96	not reopened	Baby Beach, Dana Point Harbor	Ocean Water Contact Sports Standards violation, source unknown.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: Orange (continued) CONTACT: Monica Mazur PHONE: 714/667-3751
 ADDRESS: Environmental Health Division
2009 E. Edinger Avenue, Santa Ana, CA 92705

	DATE		<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
<u>CLOSED</u>	<u>OPENED</u>			
18.	08/10/96	08/14/96	200' east and west of San Juan Creek, Doheny Beach, Dana Point	Santa Margarita Water District-power failure to pump stations. 60,000-100,000 gallons, raw sewage.
19.	09/03/96	09/06/96	300' east and 300' west of San Juan Creek, Doheny Beach, Dana Point	Santa Margarita Water District-power failure to pump stations. Released San Juan Creek water to ocean. 60,000-100,000 gallons, raw sewage.
20.	09/12/96	09/14/96	Seacliff Drive to Circle Drive, Laguna Beach	South Coast Water District-line blockage. 2,000 gallons, raw sewage.
21.	10/31/96	11/05/96	200' north & 200' south Salt Creek-Monarch Beach, Dana Point	Moulton Niguel Water District-lower Salata pump station failure. 500 gallons, raw sewage.
22.	12/04/96	12/10/96	Newport Dunes-100' either side of dunes drain, Newport Beach	City of Newport Beach-line blockage. Unknown amount of raw sewage.

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: San Diego CONTACT: Chris Gonaver PHONE: 619/338-2201
 ADDRESS: County Department of Environmental Health
P.O. Box 85261, San Diego, CA 92186-5261

	DATE			REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)
CLOSED	OPENED		BEACH/AREA CLOSED	
1.	01/10/96	01/12/96	WindanSea, San Diego	Sewage spill-2,700 gals.
2.	01/12/96	01/13/96	San Diego River-Outlet, San Diego	Sewage spill-18,320 gals.
3.	01/13/96	01/14/96	15th St., Del Mar	Sewage spill-1,450 gals.
4.	02/01/96	02/06/96	Imperial Beach & 72 hr. General Advisory-all cities	Sewage/rain
5.	02/03/96	02/06/96	San Diego River-Outlet, San Diego	Stormwater runoff/rain
6.	02/10/96	02/12/96	Torrey Pines State Beach, San Diego	Sewage spill-288,000 gals.
7.	02/20/96	03/04/96	Torrey Pines State Beach, San Diego	Sewage spill-Lagoon opening
8.	02/17/96	02/20/96	Date St., Imperial Beach	Sewage spill-15,000 gals.
9.	02/19/96	02/21/96	250 Coast Blvd., San Diego	Sewage spill-1,800 gals.
10.	02/21/96	02/24/96	IB Pier to Border, Imperial Beach	Sewage spill-1,000,000 gals.
11.	03/02/96	03/05/96	San Dieguito River-Outlet, Del Mar	Stormwater runoff
12.	03/04/96	03/06/96	WindanSea, San Diego	Sewage spill-450 gals.
13.	03/06/96	03/07/96	Kellogg Beach, San Diego	Sewage spill-180 gals.
14.	03/09/96	03/12/96	San Diego Bay, San Diego	Sewage spill-3,000 gals.
15.	04/23/96	04/25/96	San Diego Bay, San Diego	Sewage spill-1,515 gals.
16.	05/08/96	05/15/96	San Elijo Lagoon, Encinitas	Lagoon Opening
17.	05/15/96	05/16/96	San Diego River-Outlet, San Diego	Sewage spill-13,500 gals.
18.	06/01/96	06/03/96	WindanSea, San Diego	Sewage spill-2,400 gals.
19.	06/12/96	06/14/96	San Diego River-Outlet, San Diego	Sewage spill-90,000 gals.
20.	07/02/96	07/05/96	Santa Margarita River- Outlet, Camp Pendelton	Sewage spill-600,000 gals.
21.	07/11/96	07/13/96	Torrey Pines State Beach, San Diego	Stormwater runoff

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: San Diego (continued) CONTACT: Chris Gonaver PHONE: 619/338-2201
 ADDRESS: County Department of Environmental Health
P.O. Box 85261, San Diego, CA 92186-5261

	DATE			REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)
CLOSED	OPENED		BEACH/AREA CLOSED	
22.	07/31/96	08/06/96	Carlsbad Village Dr., Carlsbad	Sewage spill/Cross-connection
23.	07/31/96	08/02/96	Moonlight Beach, Encinitas	Stormwater runoff
24.	08/02/96	08/05/96	WindanSea (150' N & S), San Diego	Stormwater runoff
25.	08/16/96	08/28/96	Avd de la Playa (100' N & S), San Diego	Stormwater runoff
26.	09/27/96	09/28/96	San Dieguito River, Del Mar	Sewage spill-3,000 gals
27.	10/02/96	10/04/96	Avd de la Playa, San Diego	Stormwater runoff
28.	10/02/96	10/04/96	Tourmaline Surf Park, San Diego	Stormwater runoff
29.	10/02/96	10/04/96	WindanSea, San Diego	Stormwater runoff
30.	10/10/96	10/12/96	San Diego Bay @ Laurel St., San Diego	Sewage spill-1,300 gals.
31.	10/15/96	10/18/96	Tourmaline Surf Park, San Diego	Sewage spill-196 gals.
32.	10/16/96	10/17/96	Daisy St. to Carnation Ave., Imperial Beach	Stormwater runoff
33.	10/24/96	10/25/96	Tourmaline Surf Park, San Diego	Sewage spill-580 gals.
34.	10/31/96	11/05/96	Imperial Beach & 72 hr. General Advisory, all cities	Sewage/rain
35.	11/01/96	11/05/96	Torrey Pines State Beach, San Diego	Stormwater runoff
36.	11/09/96	11/14/96	Cardiff State Beach, Escondido	Sewage-840,000 gals.
37.	11/22/96	11/25/96	Imperial Beach & 72 hr. General Advisory, all cities	Sewage/rain
38.	11/23/96	11/26/96	San Elijo Lagoon, Encinitas	Stormwater runoff/rain
39.	11/23/96	11/26/96	Batiquitos Lagoon, Carlsbad	Stormwater runoff/rain
40.	11/23/96	11/26/96	San Diego River-Outlet, San Diego	Stormwater runoff/rain

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: San Diego (continued) CONTACT: Chris Gonaver PHONE: 619/338-2201
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P.O. Box 85261, San Diego, CA 92186-5261

<u>CLOSED</u>	<u>DATE</u>	<u>OPENED</u>	<u>BEACH/AREA CLOSED</u>	<u>REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)</u>
41.	11/27/96	11/30/96	Camp Del Mar, Camp Pendelton	Rain
42.	11/30/96	12/01/96	Tourmaline Surf Park, San Diego	Sewage spill-14,000 gals.
43.	12/10/96	12/14/96	Imperial Beach & 72 hr. General Advisory, all cities	Sewage/rain
44.	12/13/96	12/14/96	Sunset Cliffs & Osprey, San Diego	Sewage spill-4,300 gals.
45.	12/27/96	12/30/96	72 hr. General Advisory, all cities	Rain
46.	01/18/96	01/24/96	Tecolote Creek, Mission Bay	Undetermined
47.	01/24/96	01/25/96	Tecolote Creek to DeAnza Cove, Mission Bay	Undetermined
48.	01/30/96	02/01/96	Hidden Anchorage Tecolote Creek Leisure Lagoon DeAnza Cove Crown Pt., Mission Bay	Undetermined
49.	02/01/96	02/03/96	Tecolote Creek to Crown Pt., Mission Bay	Undetermined
50.	02/03/96	02/06/96	Tecolote Creek to Campland, Mission Bay	Undetermined
51.	02/06/96	02/09/96	Tecolote Creek, Mission Bay	Undetermined
52.	02/09/96	02/10/96	Crown Pt. to Visitor Ctr., Mission Bay	Sewage spill-5,500 gals.
53.	02/13/96	02/15/96	Tecolote Creek, Mission Bay	Undetermined
54.	02/15/96	02/16/96	DeAnza Cove, Mission Bay	Undetermined
55.	02/26/96	02/29/96	Campland to Tecolote Creek Hidden Anchorage, Mission Bay	Undetermined
56.	02/29/96	03/08/96	Campland, Mission Bay	Undetermined
57.	02/29/96	03/07/96	Tecolote Creek to Pacific Passage, Mission Bay	Undetermined

** BEACH CLOSURES - 1996 **

(A report to the State Water Resources Control Board)

COUNTY: San Diego (continued) CONTACT: Chris Gonaver PHONE: 619/338-2201
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	DATE			
CLOSED	OPENED	BEACH/AREA CLOSED	REASON FOR CLOSURE/ AMOUNT SPILLED (GALLONS)	
58.	03/14/96	03/19/96	Tecolote Creek to Campland, Mission Bay	Undetermined
59.	03/26/96	03/27/96	Tecolote Creek, Visitor Center, Mission Bay	Undetermined
60.	03/27/96	04/05/96	Tecolote Creek to Visitor Center, Mission Bay	Sewage spill-25,000 gals.
61.	04/09/96	04/11/96	Pacific Passage Leisure Lagoon Crown Pt. (North), Mission Bay	Undetermined
62.	04/19/96	05/08/96	Tecolote Creek, Mission Bay	Undetermined
63.	04/19/96	04/23/96	Riviera Shores Fanuel Park, Mission Bay	
64.	10/29/96	11/01/96	DeAnza Cove, Mission Bay	Undetermined
65.	11/01/96	11/05/96	Tecolote Cr. to Campland, Mission Bay	Undetermined
66.	11/01/96	11/06/96	Fanuel Park, Mission Bay	Undetermined
67.	11/23/96	11/26/96	All of Mission Bay	Rain
68.	11/26/96	12/03/96	Campland, Mission Bay	Undetermined
69.	12/05/96	12/10/96	Bonita Cove, Mission Bay	Undetermined
70.	12/12/96	12/17/96	Tecolote Cr. to Campland, Mission Bay	Rain
71.	12/12/96	12/13/96	Sail Bay, Mission Bay	
72.	01/01/96	12/31/96	San Luis Rey River Outlet, Oceanside	Chronically poor water quality
73.	01/01/96	12/31/96	Loma Alta Lagoon @ Buccaneer Beach, Oceanside	Chronically poor water quality
74.	01/01/96	12/31/96	South end of Seacoast Drive to the International Border	Chronically poor water quality