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JB-~~4~~  
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From: Jeff Barnickol  
To: Melenee Emanuel  
Date: 6/14/04 8:25AM  
Subject: Re: Beach Monitoring Reports

All I can find is that their procedures are ELAP compliant.

Jeff

>>> Melenee Emanuel 06/14/04 07:28AM >>>  
Great...Thanks!

Melenee

>>> Jeff Barnickol 06/14/04 07:21AM >>>  
I need to check on this since I am filling in during Robin's absence. I'll get back to you with an answer.

Jeff

>>> Melenee Emanuel 06/14/04 07:17AM >>>  
Hi Jeff

Thanks for dropping by the draft 2003 CA Beach Advisory Report. I forgot to ask if there was any QAQC protocol (QAPP) that the labs had to follow when obtaining the monitoring/advisory information. If there was not a QAPP for the information, any QAQC documentation would be great.

Thanks

Melenee

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2001 Report Electronic  
2002 Report Electronic  
2003 Draft hardcopy

SB-4



DRAFT  
2003  
California Beach Advisory Report

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
STATE WATER RESOURCES CONTROL BOARD

July 2004

## TABLE OF CONTENTS

	Page
LIST OF TABLES.....	i
LIST OF FIGURES.....	ii
EXECUTIVE SUMMARY.....	1
INTRODUCTION.....	2
Economic Impact of California Beaches.....	2
Sources of Beach Contamination.....	2
Roll of the Local Health Officers.....	4
Beach Closure, Beach Posting (Warning Sign), and Rain Advisory.....	5
Beach-Mile Days (BMD).....	5
The Future of Beach Water Quality.....	6
BEACH POSTING AND CLOSURE INFORMATION FOR 2003.....	7
Beach Closures.....	7
Beach Postings.....	9
APPENDIX A: Statewide Summary Tables of Closures and Postings.....	A-1
APPENDIX B: 2003 County-specific Beach Closures.....	B-1
APPENDIX C: 2003 County-specific Beach Postings.....	C-1

## LIST OF TABLES

	Page
1. Waterborne Pathogens, Diseases They Cause, and the Effects on Exposed Populations.....	2
2. California Department of Health Services Bacteriological Standards for Water-Contact Sports.....	4

## LIST OF FIGURES

	Page
1. Statewide Beach Closure Totals for 2000 – 2003.....	8
2. BMD Closures by County Displayed Graphically North to South.....	9
3. Statewide Beach Posting Totals for 2000 – 2003.....	10
4. BMD Posted by County Displayed Graphically North to South.....	11

## EXECUTIVE SUMMARY

This report, required by California Health and Safety Code Section 115910(d), summarizes the beach closure and posting information submitted by local health officers for the year 2003. For perspective, this beach data is also displayed for four consecutive years. The data is presented using three parameters; the number of closure or posting events, the total number of days the advisories were issued, and the total Beach Mile-Days (BMD) of impairment. This is the fourth annual beach closure and posting report since the California Department of Health Services (DHS) adopted emergency regulations to implement AB 411<sup>1</sup>. AB 411 requires more consistent monitoring statewide, beginning in 2000, and requires the use of more sensitive bacterial indicators than had been used in the past. These changes resulted in a substantial increase in the number of posting events than reported prior to 2000.

Statewide, the year 2003 data shows leveling in the number of closure events from a previous high in 2001. The number of closure days and closure BMD increased from 2002 levels, but not to previous 2001 highs. Statewide posting events and number of days posted increased in 2003, but the overall amount of impacted beach, measured by BMD, decreased. The beach posting/closure data, tabulated by county, are provided in Appendix A.

Many projects aimed at improving coastal water quality are currently underway as part of the California Clean Beaches Initiative (CBI). These projects are funded with Proposition 13 bond funds, totaling approximately \$32 million (Fiscal Year (FY) 2001-02). Additionally, the FY 2002-03 budget includes \$46 million in Proposition 40 funds to continue the funding for CBI projects. Improvements in beach water quality have already been observed in the few Proposition 13 CBI projects that are nearing completion and have submitted draft final documents. It is expected that these, as well as future projects, will have a continuing positive effect on the state's coastal water quality and reduce the health risk to the public at beaches. An annual January report to the Legislature required by the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Proposition 50) provides more information on the use of environmental indicators to administer the bond funded beach projects of the CBI.

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<sup>1</sup> In 1997, AB 411 (Chapter 765, Statutes of 1997, ) mandated that beaches with storm drains that discharge during dry weather and visited by more than 50,000 people per year be monitored at least weekly from April 1 through October 31 by the local health officer or environmental health agency. Beginning in July 1999, DHS regulations implementing AB 411 required that local officials must post beaches that exceed standards set by the DHS with warning signs. Beaches suspected of being contaminated with sewage must be immediately closed until bacterial monitoring indicates the waters are safe for human contact.

## INTRODUCTION

### Economic Impact of California Beaches

California's coastline is one of its most important natural features. It extends over 1,000 miles from the rocky cliffs of the north to the sandy, sun-drenched beaches in the south. The coastal areas represent a desirable place to live, and approximately 80 percent of California's 36 million residents live within a 30-mile drive of its coastline. Millions of visitors come to view the beauty of the California coastline and partake in the recreational opportunities the coast provides. California's beaches generate \$1 billion per year in direct revenue. When indirect benefits are added, California's beaches contribute \$73 billion to the national economy and generate 883,000 jobs nationwide. (King, Philip, *The Fiscal Impact of Beaches in California*, Public Research Institute, San Francisco State University, September 1999.)

Increasingly, the public is becoming concerned about beach closures, swimmers' illnesses, and the lack of public confidence due to the up and down nature of posted warning signs. When a beach is closed due to contamination, the economic effect can be devastating to local business owners.

### Sources of Beach Contamination

A 1996 epidemiological study sponsored by the Santa Monica Bay Restoration Project and partially funded by the State Water Resources Control Board (State Water Board) validated the cause and effect relationship between elevated levels of bacteria in beach water and health problems observed in exposed beachgoers. Pathogens in the water can potentially impact the health of beachgoers when they are exposed to the contaminated water through skin contact (swimming or surfing) or ingestion. Fever, flu-like symptoms, ear infection, respiratory illness, gastroenteritis, cryptosporidiosis, hepatitis, and other illnesses have been associated with waterborne pathogens. Table 1 lists a number of pathogenic bacteria, protozoa, and viruses; their observed effects on the exposed population; and the diseases commonly associated with them. Beach closures can also result from other events, such as syringes washing on shore or an oil spill.

Table 1. Waterborne Pathogens, Diseases They Cause, and the Effects on Exposed Populations.

PATHOGEN		DISEASE	EFFECTS
BACTERIA	<i>Escherichia coli</i> (enteropathogenic)	Gastroenteritis	Vomiting, diarrhea, death in susceptible populations
	<i>Legionella pneumophila</i>	Legionellosis	Acute respiratory illness
	<i>Leptospira</i>	Leptospirosis	Jaundice, fever (Weil's disease)
	<i>Salmonella typhi</i>	Typhoid fever	High fever, diarrhea, ulceration of the small intestine
	<i>Salmonella</i>	Salmonellosis	Diarrhea, dehydration

	<i>Shigella</i>	Shigellosis	Bacillary dysentery
	<i>Vibrio cholerae</i>	Cholera	Extremely heavy diarrhea, dehydration
	<i>Yersinia enterocolitica</i>	Yersinosis	Diarrhea
PROTOZOANS	<i>Balantidium coli</i>	Balantidiasis	Diarrhea, dysentery
	<i>Cryptosporidium</i>	Cryptosporidiosis	Diarrhea
	<i>Entamoeba histolytica</i>	Amebiasis (amoebic dysentery)	Prolonged diarrhea with bleeding, abscesses of the liver and small intestine
	<i>Giardia lamblia</i>	Giardiasis	Mild to severe diarrhea, nausea, indigestion
	<i>Naegleria fowleri</i>	Amoebic meningoencephalitis	Fatal disease; inflammation of the brain
VIRUSES	Adenovirus (31 types)	Respiratory disease	
	Enterovirus (67 types, e.g., polio, echo, and Coxsackie viruses)	Gastroenteritis	Heart anomalies, meningitis
	Hepatitis A	Infectious hepatitis	Jaundice, fever
	Norwalk agent	Gastroenteritis	Vomiting, diarrhea
	Reovirus	Gastroenteritis	Vomiting, diarrhea
	Rotavirus	Gastroenteritis	Vomiting, diarrhea

There are three primary sources of beach water contamination:

#### **Sewage related contamination**

Beach closures are primarily caused by spills of untreated or partially treated sewage that makes its way into ocean waters primarily via the drains used to direct storm water away from streets. Untreated or partially treated sewage contains pathogens that pose the health related impacts noted in Table 1 above.

#### **Dry weather runoff**

Coastal water impairment also comes from the runoff flowing in dry weather from the land through storm drains and natural stream courses. Water that is not absorbed by the soil flows from streets, yards, gardens, open spaces, parking lots, animal yards, construction sites, roads, homeless camps and the like. It collects human and animal waste as it travels seaward and may contain high bacterial counts and viruses. Dry weather runoff is a significant source of impairment to California's beach waters during the summer heightened recreation season and a major source of the beach postings recorded in this report.

The ocean is the final deposition site for most land-based pollutants entering California's coastal watersheds. In addition to carry bacteria and virus, which are the focus of the current regulations for

protecting the public health of beachgoers, dry weather runoff may also be toxic to marine life, and can carry tons of garbage and silt that litter the ocean and beaches and kill or injure marine life.

**Stormwater runoff**

Rainwater flows off the land over and past all the same features as dry weather runoff; there is just more of it. The amount of water flowing during these events can contaminate large portions of the coastline. During rain events, local health officers issue general advisories, known as rain advisories, reminding people not to swim for 72 hours after rain events.

**Roll of Local Health Officers**

California law commonly referred to as AB 411 (Health and Safety Code section 115880 et. seq.) requires local health officers to conduct weekly bacterial testing between April 1 and October 31 of waters adjacent to public beaches which have more than 50,000 visitors annually and are near storm drains which flow in the summer. Local health officers are required to test for three indicator organisms: total coliform, fecal coliform, and enterococci. If any one of these indicator organisms exceeds the standards (Table 2) established by the Department of Health Services (DHS), the county health officer is required to post warning signs at the beach and make a determination whether to close that beach in the case of extended exceedance. The law also requires the local health officer to establish a telephone hotline to inform the public of all beaches that are closed, posted, or otherwise restricted.

**Table 2. California Department of Health Services Bacteriological Standards for Water Contact Sports.**

SAMPLE TYPE	INDICATOR	STANDARD <sup>1</sup>
Single	Total Coliform <sup>2</sup>	1,000
	Total Coliform	10,000
	Fecal Coliform	400
	Enterococci	104
30-day Log Mean	Total Coliform	1,000
	Fecal Coliform	200
	Enterococci	35

<sup>1</sup> Number of organisms or colonies forming per 100 ml of water.

<sup>2</sup> If the ratio of fecal to total coliform exceeds 0.1.

Ten coastal counties (Sonoma, San Mateo, Santa Cruz, Monterey, San Luis Obispo, Santa Barbara, Ventura, Los Angeles, Orange, and San Diego) and one city (Long Beach) have reported they have beaches near storm drains that are visited by more than 50,000 people annually. These beaches have been tested regularly for bacterial contamination as required by law, and each month the counties and city submit the information on beach postings and closures to the State Water Board. Five additional counties (Del Norte, Humboldt, Mendocino, Marin, and San Francisco) were recently provided funding



for monitoring from a federal BEACH Act grant awarded to California and are expected to report data to the State Water Board.

### **Beach Closure, Beach Posting (Warning Sign), and Rain Advisory**

Local health officers may take three discrete actions based on beach water quality monitoring data, sewage spills, and storm events. Beaches or, more precisely, the ocean waters adjacent to the beaches, are posted with warning signs or are closed when water samples that are collected in the surf zone have indicator levels that exceed DHS standards. The beach is reopened to the public once further sampling confirms that bacteria levels no longer exceed the health standards.

A "Beach Closure" occurs as a result of a sewage spill or repeated exceedance of bacterial standards that appear to have a fecal bacterial signature from an unknown source. A closure is a notice to the public that the water is unsafe for contact and that there is a high risk of getting ill from swimming or other contact with the water. Closures are mandatory in the event of a known untreated sewage discharge reaching recreational waters; otherwise, the decision to close the beach is at the discretion of the local health officer. A beach closure does not necessarily result in the closure of the entire beach for recreational activities. In most cases, the ocean is closed to swimming and other water contact recreation while the beach area is open for sunbathing, volleyball, and other activities that do not involve water contact.

A "Beach Warning" commonly known as a "Posting" means that at least one bacterial standard has been exceeded, but there is no known source of human sewage. The posting of warning signs alerts the public to a possible risk of illness associated with water contact. Postings are most often placed on only part of the beach with 100 yards being the most typical length. The placement of signs may be short term when a single bacterial indicator standard is exceeded, or more permanent where monitoring indicates repeated contamination (e.g., from a storm drain). Warnings may also be posted where sources of contamination are identifiable and can be explained as not of human origin (e.g., resident marine mammals or seabirds).

A "Rain Advisory" is issued during and for a period of 72 hours after a storm event. Past experience has shown that indicator levels generally exceed state standards during and after storm events. The runoff generated by the storm event brings with it pollution from the surrounding urban and rural areas and with that pollution comes high numbers of indicator bacteria. Rain advisories are typically issued to the public through various media outlets (television, radio, newspapers, etc.). These advisories are preemptive in nature and may not be based on actual water quality data. There is inconsistency among counties regarding when and if they issue rain advisories, so those numbers are not included in this report.

### **Beach-Mile Days (BMD)**

BMD is used to express the magnitude of beach closure or posting incidents. It is the product of the number of days a beach is posted/closed and the length of impacted coastline (in miles). For example, if a particular beach is closed for five days and for a distance of 200 yards, the number of BMD for this incident is 0.57 (200 yards (0.000563 miles/yard) X 5 days).

BMD is a useful measure for comparing the health of beach waters from year to year. It is a more meaningful measure of comparison than the number of posting or closure events or the number of days of postings or closures. One of the reasons for deciding to use the BMD metric is California's beach naming convention. California has a history of identifying small segments of beach areas with locally recognized names. When the posting and closure data is reported by these beach names, the numbers are skewed because of so many beaches. The BMD metric solves this by standardizing the quantification of impact magnitude.

### **The Future of Beach Water Quality**

The prospect of solving beach water quality problems and eliminating the warning system of beach closures and postings is unfortunately not promising. This is because the cost of making fail-safe sewage and storm water collection and treatment systems is currently prohibitive. In addition, there are sources of bacterial contamination that are not and never will be under human control. These include sources such as marine mammals, shore birds, and other wildlife that exist in upstream areas. The goals, therefore, are to 1) reduce the number of closures and postings caused by controllable sources to the absolute minimum within the boundaries of technology and affordability, and 2) perfect a notification system of beach water quality information so beach users can make informed decisions about beach visitation and water contact.

## BEACH POSTING AND CLOSURE INFORMATION FOR 2003

Data collected in 2003 represents the fourth complete year of data collection since the onset of AB 411 in 1999. Local resources as well as state and federal assistance support this data collection. For the past 4 years, the Department of Health Services (DHS) distributed approximately \$1 million for monitoring among the eleven AB 411 counties. In 2003, the U.S. EPA, as part of its Beaches Environmental Assessment and Coastal Health Act<sup>2</sup> (BEACH Act) grant, provided an additional \$535,643. Of this, \$279,375 was used to augment the monitoring programs of the AB 411 counties. These augmentations were to be used on non-AB 411 beaches or for monitoring beaches outside of the AB 411 time frame (April 1 through October 31). The 5 non-AB 411 counties (Del Norte, Humboldt, Mendocino, Marin, and San Francisco) shared \$220,622 for beach water quality monitoring and public notification. U.S. EPA made an additional \$532,164 available for 2004 and a similar amount is expected to be available for 2005.

The information submitted by each local health officer to the State Water Board identifies the beach name, type of event (closure/posting/rain advisory), dates of the event, and length of affected coastline. A BMD calculation is associated with each non-permanent closure or posting event in the State Water Board database. A summary of local health officer reported numbers of closure and posting information in 2003 is provided in Appendix A.

### **Beach Closures**

Figure 1 shows a statewide summary of the closure events, duration, and BMD for 2000 through 2003. The table shows that while the statewide number of closure events stayed the same from 2002 to 2003, the number of closure days and BMD increased, but not to the recorded highs of 2002.

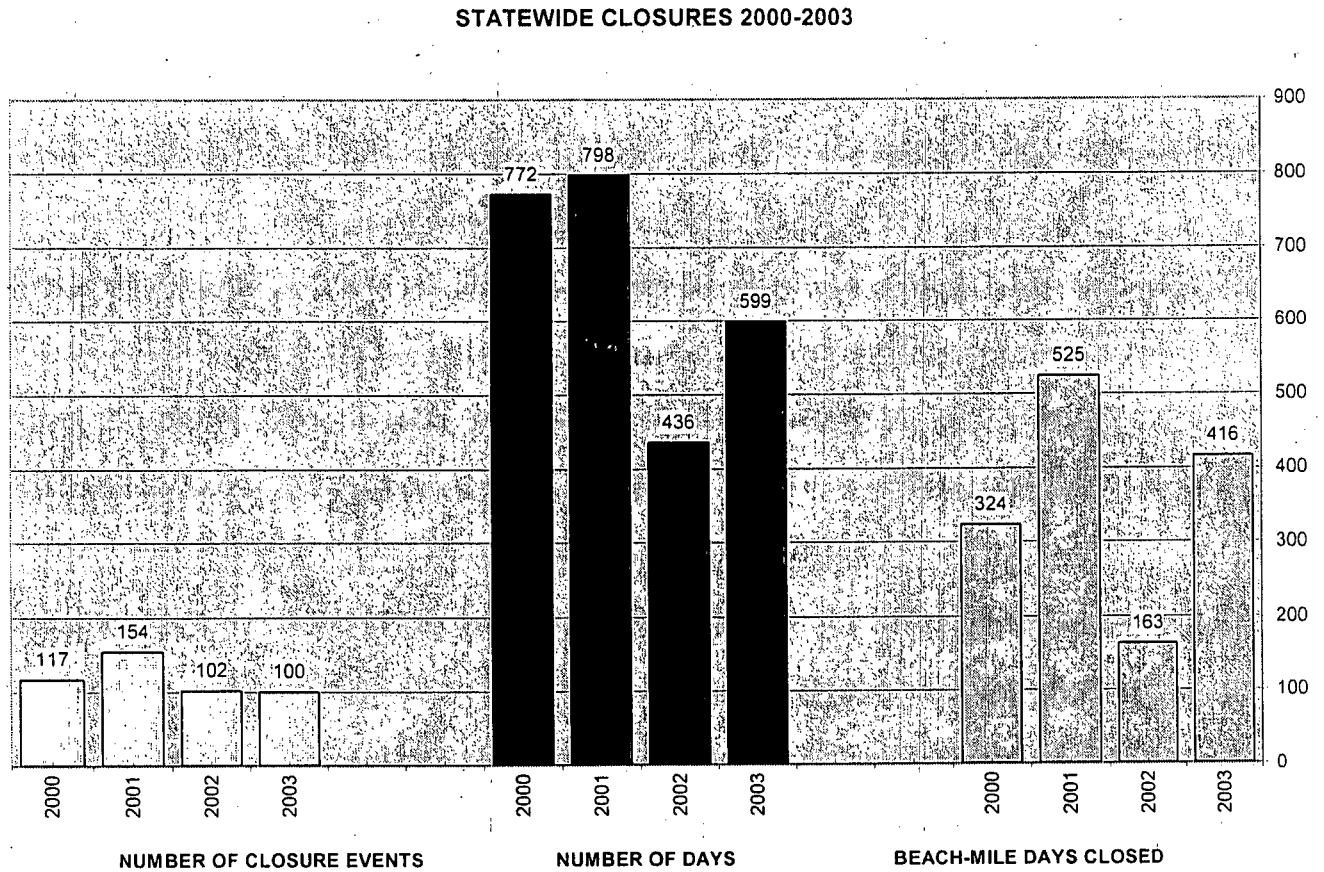
Figure 2 shows the 2000 through 2003 beach closure BMD data by county listed north to south. Increases occurred in Sonoma, San Francisco, Santa Cruz, and San Diego counties. The balance of the coastal counties remained the same or experienced a decrease in BMD closures in 2003.

San Diego County continues to account for over half of the BMD closures in the state, thus driving the statewide beach closure data. Nearly 90% of the total BMD closures in San Diego (287 of 324 BMD) were due to the urban runoff and sewage flowing in the Tijuana River from Mexico. This is a circumstance beyond the control of the county. These flows impact three beach areas: Tijuana Slough National Wildlife Refuge and Boarder Field State Park [with nearly half of the closure BMD due to the Tijuana River (135 BMD or 46% of 288.2)], Imperial Beach municipal beach (71 BMD, 24%), and Coronado municipal beach and Silver Strand State Beach (81 BMD, 28%).

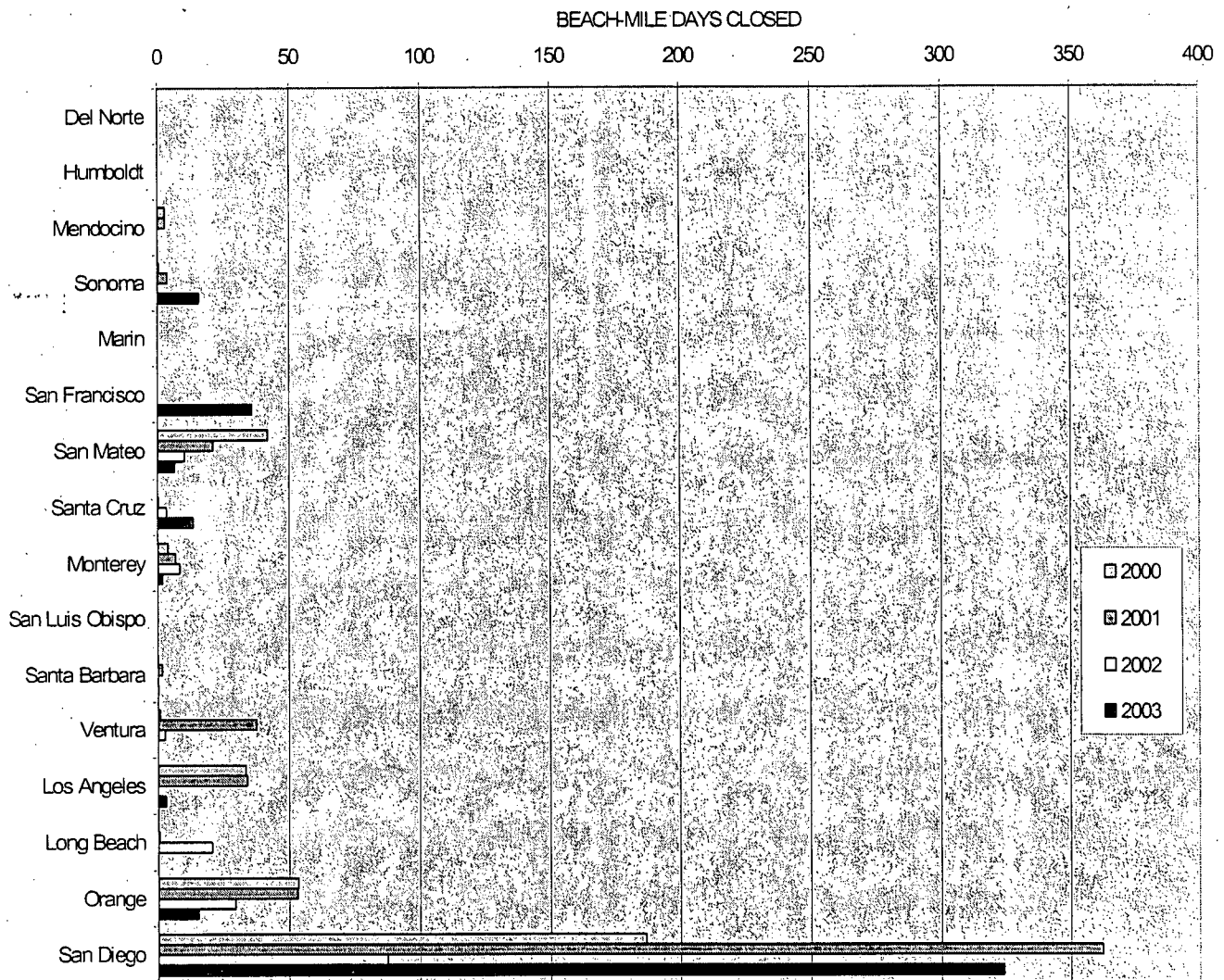
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<sup>2</sup> Enacted on October 10, 2000, the BEACH Act authorizes U.S. EPA to award grants to eligible states to develop and implement water quality monitoring programs at coastal recreational waters near beaches, and to provide support for the development and implementation of programs to reduce risk of exposure to disease-causing microorganisms.

Figure 1. Statewide Beach Closure Totals for 2000 –2003



**Figure 2. BMD Closures by County Displayed Geographically from North of South**



**Beach Postings**

Figure 3 shows a statewide summary of the number of posting events, days of posting, and BMD of posting for 2000 through 2003. Although the number of posting events went up from 2002 to 2003, and the number of days increased, the overall amount of area posted (BMD) decreased. We are unable to measure the extent to which the increased monitoring resulting from the U.S. EPA BEACH grant contributed to these increased postings, but logically there was a contribution.

Figure 3. Statewide Beach Postings Totals for 2000 - 2003

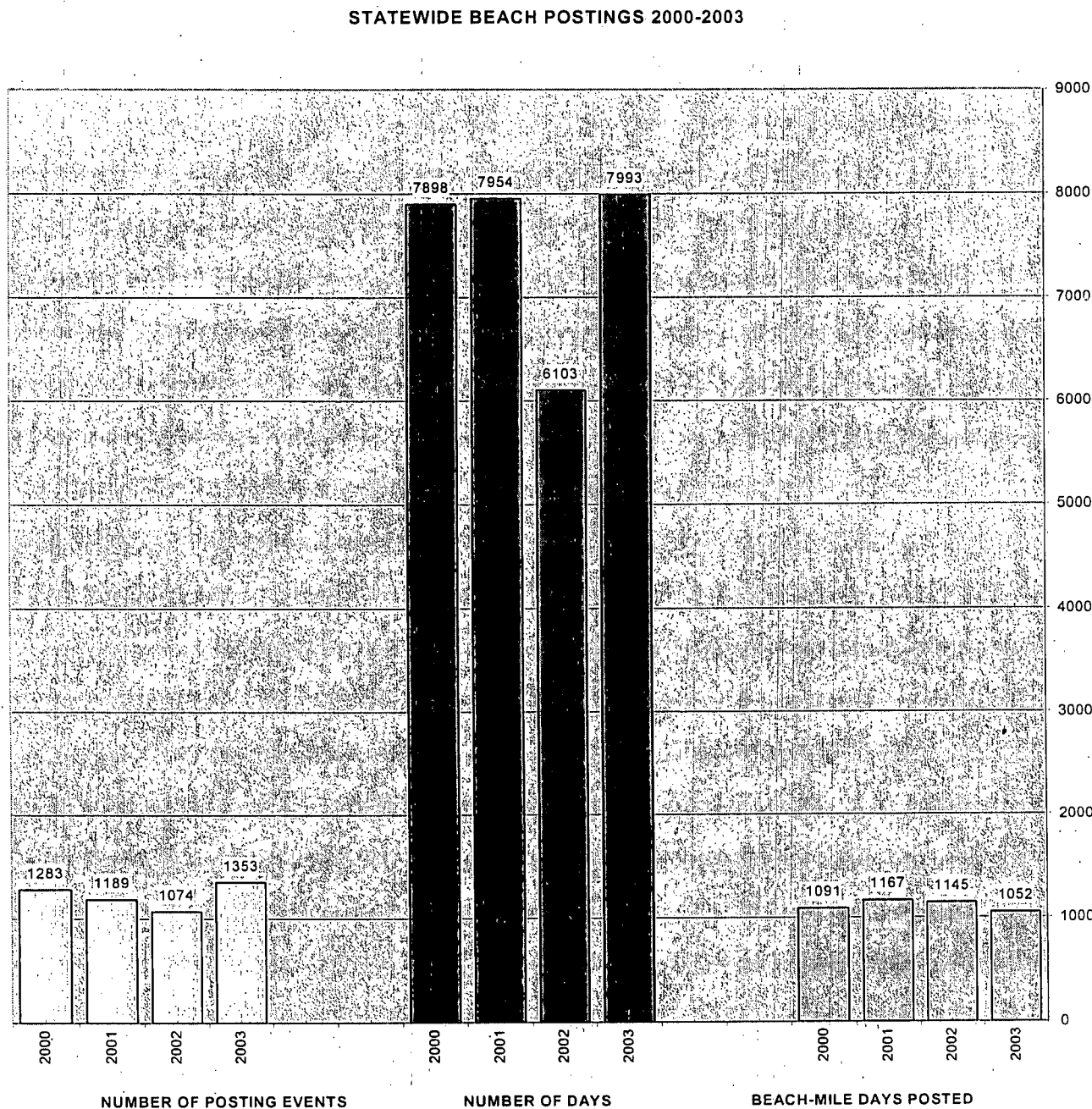
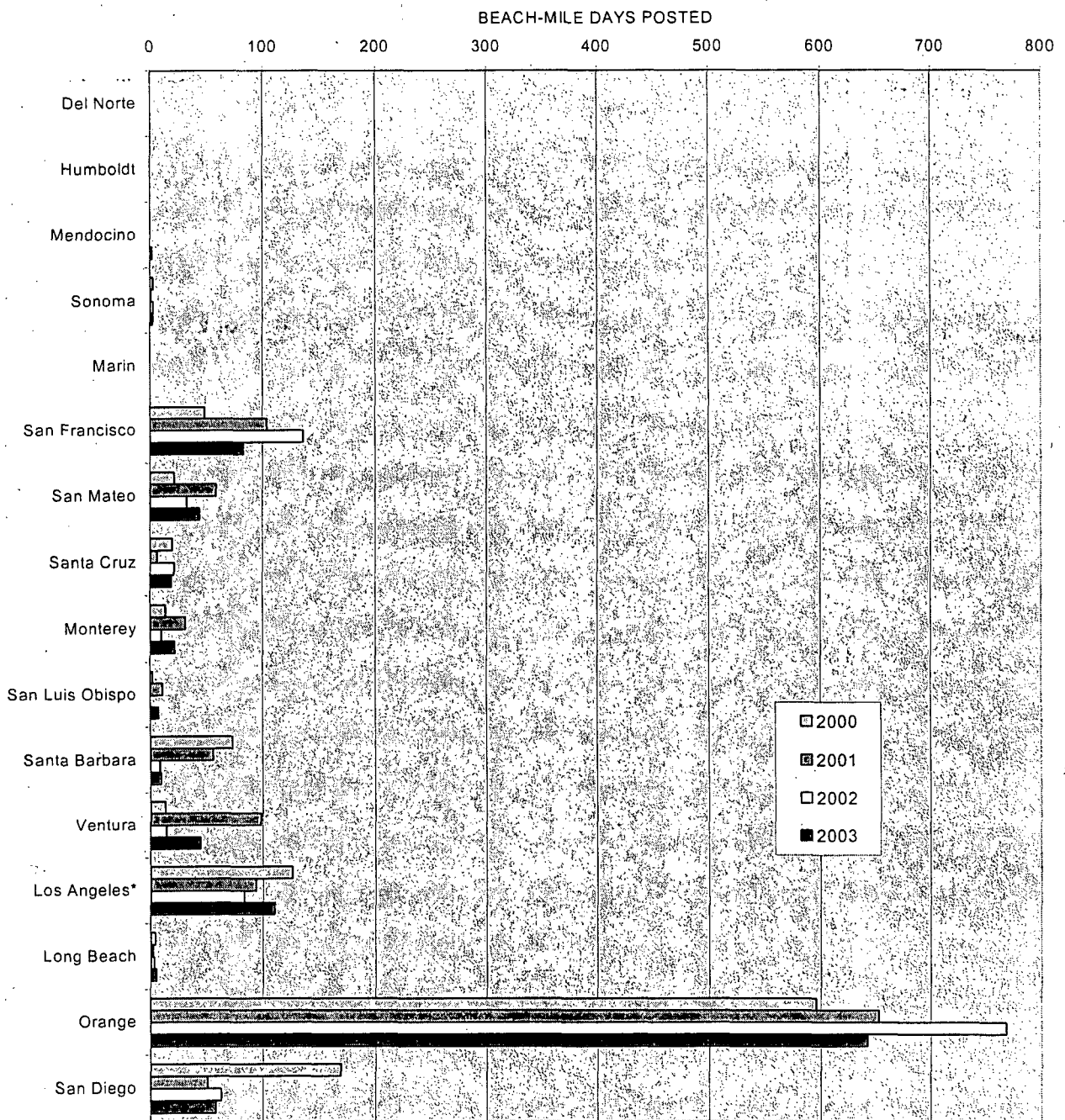


Figure 4 shows a summary of the posting BMD for each county for 2000 through 2003. Mendocino data is reported for the first time as a result of monitoring funded by the U.S. EPA BEACH grant. The remaining counties were split regarding increases or decreases in reported postings. San Mateo, Monterey, San Luis Obispo, Santa Barbara, Ventura, and Long Beach experienced increases. Sonoma,

**Figure 4. BMD Posted by County Displayed Geographically from North to South**



San Francisco, Santa Cruz, Orange, and San Diego experienced decreases. San Diego was the site of an epidemiological study that substantially increased the amount of reported monitoring in Mission Bay

(study results to be released at the end of 2004). Even with this additional monitoring, the posting BMD for San Diego decreased.

### **Data Usage**

Although there has been great improvement in consistency among counties with respect to how they monitor and report beach data, each county has unique circumstances that make comparisons with other counties difficult. Counties vary primarily in how much monitoring is done. More monitoring can result in more postings, and even closures. All counties with AB 411 beaches must monitor those beaches weekly. However, some beach sites are monitored daily or 5 times a week. Also, certain counties will collect and analyze follow-up samples when standards are exceeded, while other counties leave the posting in effect until the next weekly sample is taken. In addition, some counties utilize and report monitoring from other entities, like sanitation agencies, that occurs at other frequencies.

Other inconsistencies arise from variations in how standards are applied. For example, Orange County will issue a posting when the 30-day geometric mean standard for one of the bacterial indicators is exceeded while other counties only maintain an existing posting when the geometric mean is exceeded. Also, Orange County will post large expanses between sampling areas when samples tested from adjacent sampling stations exceed standards. Other counties only post an expanse either side of the sampling station, usually 100 yards. The State Water Board is continuing to work with the counties to improve consistency. Until greater consistency is achieved, the most effective use of current data is to compare and analyze trends within a county and not between counties.



Appendix A - Statewide Summary Tables for Closures and Postings

Table 1. Beach Closures for 2000 -2003 by County.

COUNTY	NUMBER OF CLOSURE EVENTS				NUMBER OF DAYS				BEACH-MILE DAYS CLOSED			
	2000	2001	2002	2003	2000	2001	2002	2003	2000	2001	2002	2003
Del Norte												
Humboldt												
Mendocino	1	1			15	12			2.6	2.73		
Sonoma	2	2		6	4	37		124	0.4	3.7		15.86
Marin												
San Francisco				10				32				36
San Mateo	9	6	6	2	217	38	35	5	41.9	21.21	10.3	6.57
Santa Cruz		2	1	4		4	13	27		0.22	3.25	13.62
Monterey	6	6	10	4	16	39	32	12	3.9	6.75	8.45	1.8
San Luis Obispo	1				1				0.1			
Santa Barbara		1		1		7		7		1.59		0.2
Ventura	4	16	6	0	12	78	18	0	0.7	37.67	2.69	0
Los Angeles	7	6		1	45	12		3	33.6	34.06		3
Long Beach		1	2			9	7			0.51	20.75	
Orange	40	53	39	29	152	190	158	86	53.4	53.1	29.74	15.38
San Diego	47	59	37	43	310	362	166	303	187	362.4	87.56	323.99
<b>TOTALS</b>	<b>117</b>	<b>153</b>	<b>101</b>	<b>100</b>	<b>772</b>	<b>788</b>	<b>429</b>	<b>599</b>	<b>323.6</b>	<b>523.94</b>	<b>162.74</b>	<b>416.42</b>

Table 2. Beach Postings for 2000 - 2003 by County.

COUNTY	NUMBER OF POSTING EVENTS				NUMBER OF DAYS				BEACH-MILE DAYS POSTED			
	2000	2001	2002	2003	2000	2001	2002	2003	2000	2001	2002	2003
Del Norte												
Humboldt												
Mendocino				4				20				2.14
Sonoma	12	2	7	7	29	4	28	19	2.7	0.4	2.62	2.43
Marin												
San Francisco	13	34	21	52	31	70	89	102	49	104.2	136.5	83
San Mateo	17	17	18	18	387	101	186	162	21.5	59.03	32.82	44.22
Santa Cruz	7	16	29	7	44	53	119	115	19.8	6.13	21.54	19.12
Monterey	16	15	10	8	42	81	35	44	13.8	31.5	10	22
San Luis Obispo	6	20	5	22	16	68	6	67	2.2	11.07	0.27	7.66
Santa Barbara	152	148	103	87	1296	1233	524	366	73.5	56.15	8.77	9.66
Ventura	72	96	83	166	237	967	255	790	13.4	98.52	14.53	44.96
Los Angeles	325	267	268	390	1150	1197	791	1256	126.1	93.96	83.25	110.7
Long Beach	99	58	93	113	161	78	115	181	4.6	2.33	3.45	5.36
Orange	290	325	305	312	2055	3235	3203	3919	595.8	652.5	767.9	641.9
San Diego	274	191	132	167	2450	867	752	952	168.9	51.45	63.38	58.47
<b>TOTALS</b>	<b>1283</b>	<b>1189</b>	<b>1074</b>	<b>1353</b>	<b>7898</b>	<b>7954</b>	<b>6103</b>	<b>7993</b>	<b>1091</b>	<b>1167</b>	<b>1145</b>	<b>1052</b>

# Appendix B

2003

## County-specific Beach Closures

# County of Sonoma Division of Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Campbell Cove State Beach	7/2/2003	7/3/2003	1	0.15	UNKNOWN	UNKNOWN
	8/20/2003	8/29/2003	9	1.35	UNKNOWN	UNKNOWN
	9/3/2003	12/3/2003	91	13.65	UNKNOWN	UNKNOWN
Goat Rock State Beach	5/21/2003	5/23/2003	2	0.11	UNKNOWN	UNKNOWN
Salmon Creek State Beach	4/9/2003	4/23/2003	14	0.4	RAIN	WET_CREEK_RI
	4/30/2003	5/7/2003	7	0.2	UNKNOWN	RAIN

**Number of Beach Closures: 6**  
**Sum of Days: 124**  
**Sum of Beach Mile Days: 15.86**

# San Francisco County 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Baker Beach	12/7/2003	12/8/2003	1	1	RAIN	COMBINED_SEW
	12/14/2003	12/15/2003	1	1	RAIN	COMBINED_SEW
	12/29/2003	12/31/2003	2	1.5	RAIN	COMBINED_SEW
Candlestick Point	12/23/2003	1/3/2004	11	10.5	RAIN	COMBINED_SEW
	12/14/2003	12/15/2003	1	0.5	RAIN	COMBINED_SEW
China Beach	12/21/2003	12/22/2003	1	0.5	UNKNOWN	COMBINED_SEW
	12/29/2003	12/31/2003	2	1	RAIN	COMBINED_SEW
	12/14/2003	12/15/2003	1	0.5	RAIN	COMBINED_SEW
Fort Funston	12/29/2003	1/5/2004	7	3.5	RAIN	COMBINED_SEW
	12/29/2003	1/3/2004	5	16	RAIN	COMBINED_SEW

**Number of Beach Closures: 10**  
**Sum of Days: 32**  
**Sum of Beach Mile Days: 36**

# San Mateo County Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Manor Beach	4/14/2003	4/17/2003	3	6	BLOCKAGE_U	SANITARY_SEW
Pescadero State Beach	5/27/2003	5/29/2003	2	0.57	BLOCKAGE	SANITARY_SEW

**Number of Beach Closures: 2**  
**Sum of Days: 5**  
**Sum of Beach Mile Days: 6.57**

# County of Santa Cruz Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Beercan Beach	12/19/2003	12/22/2003	3	1.5	BLOCKAGE_D	SANITARY_SEW
Capitola State Beach	1/6/2003	1/17/2003	11	5.62	LINE_BREAK	SEWAGE
	3/4/2003	3/14/2003	10	5	PUMP_STATIO	SANITARY_SEW
Seascape Beach	12/19/2003	12/22/2003	3	1.5	BLOCKAGE_D	SANITARY_SEW

Number of Beach Closures: 4

Sum of Days: 27

Sum of Beach Mile Days: 13.62

# Monterey County

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Coral and Oceanview <sup>3</sup>	1/22/2003	1/24/2003	2	0.5	SEWER_OVERF	SEWAGE
Lover's Point	6/5/2003	6/6/2003	1	0.25	OTHER	SANITARY_SEW
Maccabec Beach	4/23/2003	5/1/2003	8	0.8	OTHER	UNKNOWN
Seal Rock, Pebble Beach	9/10/2003	9/11/2003	1	0.25	PUMP_STATIO	SANITARY_SEW

**Number of Beach Closures: 4**  
**Sum of Days: 12**  
**Sum of Beach Mile Days: 1.8**

# Santa Barbara County, Environmental Health Services

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
El Capitan State Beach	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN

**Number of Beach Closures: 1**  
**Sum of Days: 7**  
**Sum of Beach Mile Days: 0.2**



# Los Angeles County 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Multiple Beaches	11/13/2003	11/16/2003	3	3		

Number of Beach Closures: 1  
Sum of Days: 3  
Sum of Beach Mile Days: 3

# Orange County Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Aliso County Beach	1/14/2003	1/16/2003	2	0.76		
Crystal Cove State Park	5/17/2003	5/20/2003	3	0.57		
Dana Point Harbor	2/1/2003	2/4/2003	3	0.03		
	4/23/2003	4/26/2003	3	0.17		
	5/10/2003	5/12/2003	2	0.11		
	8/16/2003	8/19/2003	3	0.34		
	9/23/2003	9/25/2003	2	0.02		
	11/28/2003	12/1/2003	3	0.03		
	12/22/2003	12/25/2003	3	0.03		
Doheny State Beach	11/4/2003	11/6/2003	2	0.38		
Huntington Harbour	2/9/2003	2/13/2003	4	1		
	11/16/2003	11/19/2003	3	0.34		
	12/15/2003	12/17/2003	2	0.03		
Huntington State Beach	5/27/2003	5/29/2003	2	0.76		
Laguna Beach	1/17/2003	1/19/2003	2	0.11		
	2/2/2003	2/4/2003	2	0.38		
Newport Bay	1/12/2003	1/18/2003	6	3		
	1/30/2003	2/2/2003	3	0.17		
	5/1/2003	5/3/2003	2	0.11		
	6/16/2003	6/20/2003	4	0.18		
	6/16/2003	6/20/2003	4	0.18		
	8/13/2003	8/15/2003	2	0.06		
Newport Beach	7/7/2003	7/10/2003	3	0.17		
Salt Creek County Beach Park	2/8/2003	2/11/2003	3	3		
San Clemente City Beach	7/27/2003	8/1/2003	5	1.42		
	10/28/2003	10/31/2003	3	0.14		
	10/28/2003	10/31/2003	3	0.14		
Seal Beach/Surfside	2/25/2003	3/1/2003	4	1		
	3/12/2003	3/15/2003	3	0.75		

**Number of Beach Closures: 29**  
**Sum of Days: 86**  
**Sum of Beach Mile Days: 15.38**

# San Diego County Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Coronado municipal beach, other	2/25/2003	3/6/2003	9	28.64	UNKNOWN	UNKNOWN
	3/17/2003	3/22/2003	5	15.91	UNKNOWN	UNKNOWN
	4/15/2003	4/25/2003	10	31.82	UNKNOWN	UNKNOWN
Del Mar municipal beach, other	2/5/2003	2/8/2003	3	0.57	LAGOON_OPE	DRY_CREEK_RIV
	2/20/2003	2/21/2003	1	0.06	LAGOON_OPE	DRY_CREEK_RIV
Glorietta Bay	11/21/2003	11/24/2003	3	0.17	OTHER	SEWAGE
Imperial Beach municipal beach, other	2/11/2003	2/22/2003	11	14.58	URBAN_RUNOF	SEWAGE
	2/24/2003	3/7/2003	11	14.58	URBAN_RUNOF	SEWAGE
	3/11/2003	3/22/2003	11	14.57	URBAN_RUNOF	SEWAGE
	4/1/2003	4/3/2003	2	2.65	URBAN_RUNOF	SEWAGE
	4/15/2003	4/25/2003	10	13.26	URBAN_RUNOF	SEWAGE
	5/5/2003	5/12/2003	7	9.28	URBAN_RUNOF	SEWAGE
	8/17/2003	8/18/2003	1	0.08	OTHER	SEWAGE
	11/12/2003	11/14/2003	2	2.65	URBAN_RUNOF	SEWAGE
La Jolla Shores Beach	11/6/2003	11/9/2003	3	1.7	BLOCKAGE_D	SANITARY_SEW
Ladera Street	3/17/2003	3/20/2003	3	1.02	UNKNOWN	UNKNOWN
Mission Bay, Mariners Basin	5/7/2003	5/12/2003	5	2.84	UNKNOWN	UNKNOWN
	10/14/2003	10/21/2003	7	5.7		
Mission Bay, north pacific passage	2/18/2003	2/23/2003	5	2.56	UNKNOWN	WET_URBAN_RU
Moonlight Beach	2/6/2003	2/9/2003	3	0.23	UNKNOWN	UNKNOWN
	2/25/2003	2/28/2003	3	0.57	RAIN	WET_URBAN_RU
	3/16/2003	3/20/2003	4	2.88	UNKNOWN	UNKNOWN
	4/2/2003	4/4/2003	2	0.23	UNKNOWN	UNKNOWN
	4/15/2003	4/18/2003	3	0.57	UNKNOWN	UNKNOWN
	4/22/2003	4/24/2003	2	0.38	UNKNOWN	UNKNOWN
	4/6/2003	4/9/2003	3	0.28	UNKNOWN	UNKNOWN
Oceanside municipal beach, other	4/6/2003	4/9/2003	3	0.28	UNKNOWN	UNKNOWN
San Diego Bay	9/3/2003	9/4/2003	1	0.06	BLOCKAGE_D	SANITARY_SEW
Silver Strand State Beach	5/5/2003	5/8/2003	3	5.11	UNKNOWN	UNKNOWN
	7/20/2003	7/24/2003	4	0.76	UNKNOWN	UNKNOWN
South Carlsbad State Beach	2/12/2003	2/18/2003	6	4.55	LINE_BREAK	SEWAGE
	3/19/2003	3/20/2003	1	0.19	LINE_BREAK	RECLAIMED_WA
Sunset Cliffs Park	10/13/2003	10/14/2003	1	0.11	LINE_BREAK	SEWAGE
Tijuana Slough National Wildlife Refuge	1/1/2003	1/24/2003	23	22.65	RAIN	WET_URBAN_RU
	2/11/2003	5/22/2003	100	98.49	RAIN	WET_URBAN_RU
	11/12/2003	11/22/2003	10	9.85	RAIN	SEWAGE
Torrey Pines State Beach	12/26/2003	12/31/2003	5	4.92	RAIN	SEWAGE
	3/29/2003	4/1/2003	3	0.34	LINE_BREAK	SEWAGE
	7/10/2003	7/11/2003	1	0.11	BLOCKAGE_D	SANITARY_SEW
	8/5/2003	8/9/2003	4	3.94	PUMP_STATIO	SANITARY_SEW
	11/6/2003	11/9/2003	3	3.84	LINE_BREAK	SANITARY_SEW
USMC Camp Pendleton	2/26/2003	3/1/2003	3	0.45	BLOCKAGE_D	SEWAGE
	4/14/2003	4/18/2003	4	0.61	BLOCKAGE_D	SEWAGE
Windansca Beach	1/15/2003	1/17/2003	2	0.23	BLOCKAGE_D	SEWAGE

Number of Beach Closures: 43

Sum of Days: 303

Sum of Beach Mile Days: 323.99

# Appendix C

## 2003 County-specific Beach Postings

# Mendocino County Environmental Health 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Mackerricher	5/30/2003	6/4/2003	5	1.99	UNKNOWN	UNKNOWN
Russian Gulch	6/6/2003	6/11/2003	5	0.05	UNKNOWN	UNKNOWN
Van Damme	6/6/2003	6/11/2003	5	0.05	UNKNOWN	UNKNOWN
Virgin Creek Beach	6/13/2003	6/18/2003	5	0.05	UNKNOWN	UNKNOWN

Number of Beach Postings: 4  
Sum of Days: 20  
Sum of Beach Mile Days: 2.14

# County of Sonoma Division of Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Campbell Cove State Beach	8/6/2003	8/11/2003	5	0.75	UNKNOWN	UNKNOWN
Doran Park County Regional Park	8/27/2003	8/29/2003	2	0.34	UNKNOWN	UNKNOWN
	10/29/2003	10/31/2003	2	0.34	UNKNOWN	UNKNOWN
Goat Rock State Beach	5/29/2003	6/2/2003	4	0.23	UNKNOWN	UNKNOWN
	10/15/2003	10/17/2003	2	0.34	UNKNOWN	UNKNOWN
Gualala Regional Park Beach	6/11/2003	6/13/2003	2	0.23	UNKNOWN	UNKNOWN
Still Water Cove Regional Park	6/11/2003	6/13/2003	2	0.2	UNKNOWN	UNKNOWN

**Number of Beach Postings: 7**

**Sum of Days: 19**

**Sum of Beach Mile Days: 2.43**

# San Francisco County

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days BMDS Posted	Cause	Source		
Aquatic Park	6/3/2003	6/4/2003	1	0.5	UNKNOWN	UNKNOWN	
	8/22/2003	8/23/2003	1	0.5	UNKNOWN	UNKNOWN	
	10/21/2003	10/22/2003	1	0.5	UNKNOWN	UNKNOWN	
	10/23/2003	10/24/2003	1	0.5	UNKNOWN	UNKNOWN	
	10/28/2003	10/31/2003	3	1.5	UNKNOWN	UNKNOWN	
	11/5/2003	11/8/2003	3	1.5	UNKNOWN	UNKNOWN	
	11/25/2003	11/27/2003	2	1	UNKNOWN	UNKNOWN	
	12/7/2003	12/10/2003	3	1.5	RAIN	WET_URBAN_RU	
	12/12/2003	12/13/2003	1	0.5	RAIN	WET_URBAN_RU	
	12/23/2003	12/24/2003	1	0.5	RAIN	WET_URBAN_RU	
	12/31/2003	1/4/2004	4	2	RAIN	WET_URBAN_RU	
	Baker Beach	3/15/2003	3/16/2003	1	1	RAIN	COMBINED_SEW
10/9/2003		10/11/2003	2	1	UNKNOWN	UNKNOWN	
10/10/2003		10/11/2003	1	0.5	UNKNOWN	UNKNOWN	
10/23/2003		10/24/2003	1	0.5	UNKNOWN	UNKNOWN	
12/11/2003		12/13/2003	2	2	RAIN	COMBINED_SEW	
12/24/2003		12/25/2003	1	1	RAIN	WET_URBAN_RU	
Candlestick Point		3/15/2003	3/18/2003	3	1.5	URBAN_RUNOF	COMBINED_SEW
		4/25/2003	4/26/2003	1	0.5	RAIN	WET_URBAN_RU
	4/26/2003	4/28/2003	2	1	RAIN	WET_URBAN_RU	
	4/29/2003	5/1/2003	2	1	RAIN	WET_URBAN_RU	
	5/13/2003	5/14/2003	1	0.5	URBAN_RUNOF	DRY_URBAN_RU	
	6/4/2003	6/5/2003	1	0.5	UNKNOWN	UNKNOWN	
	6/19/2003	6/22/2003	3	1.5	UNKNOWN	UNKNOWN	
	6/27/2003	6/29/2003	2	2	UNKNOWN	UNKNOWN	
	6/28/2003	6/30/2003	2	1	UNKNOWN	UNKNOWN	
	8/26/2003	8/27/2003	1	2	UNKNOWN	UNKNOWN	
	9/11/2003	9/15/2003	4	4	UNKNOWN	UNKNOWN	
	9/23/2003	9/29/2003	6	4	UNKNOWN	UNKNOWN	
	10/29/2003	10/30/2003	1	0.5	UNKNOWN	UNKNOWN	
	11/18/2003	11/20/2003	2	1	UNKNOWN	UNKNOWN	
	12/2/2003	12/3/2003	1	1	RAIN	WET_URBAN_RU	
	12/5/2003	12/9/2003	4	2	RAIN	WET_URBAN_RU	
12/10/2003	12/13/2003	3	1.5	RAIN	WET_URBAN_RU		
12/17/2003	12/18/2003	1	0.5	RAIN	WET_URBAN_RU		
Candlestick Point	12/23/2003	12/26/2003	3	3	RAIN	WET_URBAN_RU	
China Beach	10/10/2003	10/11/2003	1	0.5	UNKNOWN	UNKNOWN	
	10/23/2003	10/24/2003	1	0.5	UNKNOWN	UNKNOWN	
Crissy Field	8/12/2003	8/14/2003	2	4	UNKNOWN	UNKNOWN	
	8/22/2003	8/23/2003	1	2	UNKNOWN	UNKNOWN	
	10/28/2003	10/31/2003	3	3	UNKNOWN	UNKNOWN	
	11/25/2003	11/28/2003	3	2.5	UNKNOWN	UNKNOWN	
	12/23/2003	12/27/2003	4	6	RAIN	WET_URBAN_RU	
Fort Funston	4/22/2003	4/24/2003	2	1	RAIN	UNKNOWN	
	5/1/2003	5/2/2003	1	0.5	URBAN_RUNOF	DRY_URBAN_RU	
Ocean Beach	1/9/2003	1/11/2003	2	6	RAIN	COMBINED_SEW	
	6/27/2003	6/28/2003	1	0.5	UNKNOWN	UNKNOWN	
	11/20/2003	11/23/2003	3	1	UNKNOWN	UNKNOWN	
	11/26/2003	11/28/2003	2	2	UNKNOWN	UNKNOWN	
	12/4/2003	12/5/2003	1	0.5	RAIN	WET_URBAN_RU	
	12/11/2003	12/12/2003	1	3.5	RAIN	WET_URBAN_RU	
	12/24/2003	12/26/2003	2	4	RAIN	WET_URBAN_RU	

Number of Beach Postings: 52  
 Sum of Days: 102  
 Sum of Beach Mile Days: 83

# San Mateo County Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Fitzgerald Marine (Moss Beach)	5/20/2003	5/23/2003	3	0.34	OTHER	WET_CREEK_RI
	5/29/2003	6/4/2003	6	0.09	UNKNOWN	DRY_CREEK_RIV
	8/12/2003	8/14/2003	2	0.11	UNKNOWN	WET_CREEK_RI
Pacifica State Beach	9/17/2003	9/22/2003	5	10.74	UNKNOWN	DOMESTIC_AGRI
	4/28/2003	5/6/2003	8	0.45	UNKNOWN	UNKNOWN
	4/29/2003	5/6/2003	7	1.99	UNKNOWN	WET_CREEK_RI
	5/29/2003	6/3/2003	5	1.42	UNKNOWN	DRY_CREEK_RIV
Pillar Point	9/17/2003	10/15/2003	28	7.95	UNKNOWN	UNKNOWN
	7/2/2003	7/9/2003	7	0.2	UNKNOWN	UNKNOWN
	7/22/2003	7/29/2003	7	0.4	UNKNOWN	UNKNOWN
Roosevelt State Beach	8/19/2003	9/8/2003	20	2.27	OTHER	WILDLIFE
	6/3/2003	6/10/2003	7	3.26	UNKNOWN	DRY_CREEK_RIV
	7/22/2003	7/29/2003	7	0.8	UNKNOWN	UNKNOWN
San Gregorio State Beach	8/19/2003	8/26/2003	7	1.99	OTHER	WILDLIFE
	4/29/2003	5/7/2003	8	2.27	RAIN	WET_CREEK_RI
Venice State Beach	4/23/2003	5/7/2003	14	3.98	OTHER	WET_CREEK_RI
	7/14/2003	7/15/2003	1	0.28	UNKNOWN	WET_CREEK_RI
	8/19/2003	9/8/2003	20	5.68	OTHER	WILDLIFE

**Number of Beach Postings: 18**  
**Sum of Days: 162**  
**Sum of Beach Mile Days: 44.22**



# County of Santa Cruz Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Capitola State Beach	4/23/2003	4/24/2003	1	0.03	UNKNOWN	WILDLIFE
	8/5/2003	8/9/2003	4	2.05	UNKNOWN	UNKNOWN
	10/30/2003	12/31/2003	62	3.52	UNKNOWN	UNKNOWN
New Brighton State Beach	7/22/2003	7/24/2003	2	1	UNKNOWN	UNKNOWN
Rio del Mar Beach	8/5/2003	9/16/2003	42	10.5	UNKNOWN	UNKNOWN
Seacliff Beach	7/22/2003	7/24/2003	2	1	UNKNOWN	UNKNOWN
	8/5/2003	8/7/2003	2	1.02	UNKNOWN	UNKNOWN

**Number of Beach Postings: 7**

**Sum of Days: 115**

**Sum of Beach Mile Days: 19.12**

# Monterey County

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Del Monte Beach Stillwater Cove	9/30/2003	10/1/2003	1	0.5	UNKNOWN	UNKNOWN
	7/1/2003	7/2/2003	1	0.5	UNKNOWN	UNKNOWN
	8/26/2003	8/29/2003	3	1.5	UNKNOWN	UNKNOWN
	9/16/2003	9/18/2003	2	1	UNKNOWN	UNKNOWN
Sunset Dr. @ Arena	9/30/2003	10/31/2003	31	15.5	UNKNOWN	UNKNOWN
	7/1/2003	7/3/2003	2	1	UNKNOWN	UNKNOWN
	9/9/2003	9/11/2003	2	1	UNKNOWN	UNKNOWN
	10/21/2003	10/23/2003	2	1	UNKNOWN	UNKNOWN

**Number of Beach Postings: 8**  
**Sum of Days: 44**  
**Sum of Beach Mile Days: 22**

# San Luis Obispo County

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Avila Beach	2/26/2003	2/28/2003	2	0.11	UNKNOWN	UNKNOWN
	3/18/2003	3/20/2003	2	0.11	RAIN	RAIN
	3/18/2003	3/19/2003	1	0.11	RAIN	RAIN
Cayucos Beach	12/23/2003	12/30/2003	7	0.4	UNKNOWN	UNKNOWN
	3/19/2003	3/20/2003	1	0.09	RAIN	RAIN
Morro Bay City Beach	12/23/2003	12/30/2003	7	0.8		
	4/9/2003	4/10/2003	1	0.06	UNKNOWN	UNKNOWN
Pismo State Beach	8/7/2003	8/8/2003	1	0.11	UNKNOWN	UNKNOWN
	4/2/2003	4/3/2003	1	0.06	UNKNOWN	UNKNOWN
	4/16/2003	4/17/2003	1	0.06	UNKNOWN	UNKNOWN
	7/3/2003	7/8/2003	5	0.28	UNKNOWN	UNKNOWN
	8/13/2003	8/14/2003	1	0.06	UNKNOWN	UNKNOWN
	8/27/2003	8/29/2003	2	0.8	UNKNOWN	UNKNOWN
	9/24/2003	9/25/2003	1	0.06	UNKNOWN	UNKNOWN
	10/15/2003	10/17/2003	2	0.8	UNKNOWN	UNKNOWN
	11/19/2003	11/21/2003	2	0.11	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.06	UNKNOWN	UNKNOWN
	12/9/2003	12/17/2003	8	0.45	UNKNOWN	UNKNOWN
	12/9/2003	12/18/2003	10	0.57	UNKNOWN	UNKNOWN
12/9/2003	12/11/2003	2	0.8	UNKNOWN	UNKNOWN	
12/23/2003	12/24/2003	2	0.17	UNKNOWN	UNKNOWN	
12/23/2003	12/30/2003	7	1.59	UNKNOWN	UNKNOWN	

**Number of Beach Postings: 22**  
**Sum of Days: 67**  
**Sum of Beach Mile Days: 7.66**

# Santa Barbara County, Environmental Health Services

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Arroyo Burro Beach	2/5/2003	2/7/2003	2	0.03	UNKNOWN	DRY_CREEK_RIV
	3/19/2003	3/26/2003	7	0.24	UNKNOWN	WET_CREEK_RI
	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
	5/7/2003	5/9/2003	2	0.03	UNKNOWN	WET_CREEK_RI
	8/6/2003	8/8/2003	2	0.03	UNKNOWN	UNKNOWN
	11/5/2003	11/7/2003	2	0.06	UNKNOWN	UNKNOWN
Arroyo Quemado	12/24/2003	1/7/2004	14	0.4	UNKNOWN	UNKNOWN
	1/15/2003	1/17/2003	2	0.03	UNKNOWN	UNKNOWN
	1/23/2003	1/29/2003	6	0.1	UNKNOWN	UNKNOWN
	2/20/2003	2/26/2003	6	0.1	VESSEL_POS_L	WET_CREEK_RI
	7/23/2003	7/25/2003	2	0.03	UNKNOWN	UNKNOWN
	12/24/2003	1/7/2004	14	0.4	UNKNOWN	UNKNOWN
Butterfly Beach	3/19/2003	3/21/2003	2	0.07	OTHER	WET_URBAN_RU
	4/9/2003	4/11/2003	2	0.06	UNKNOWN	UNKNOWN
	9/4/2003	9/6/2003	2	0.03	UNKNOWN	UNKNOWN
	10/29/2003	10/31/2003	2	0.06	UNKNOWN	UNKNOWN
	11/26/2003	12/1/2003	5	0.3	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Carpinteria City Beach	4/16/2003	4/18/2003	2	0.06	RAIN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Carpinteria State Beach	1/27/2003	1/31/2003	4	0.07	UNKNOWN	UNKNOWN
	4/16/2003	4/18/2003	2	0.11	RAIN	WET_CREEK_RI
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
El Capitan State Beach	7/9/2003	7/11/2003	2	0.03	UNKNOWN	UNKNOWN
	9/10/2003	9/12/2003	2	0.06	UNKNOWN	UNKNOWN
Gaviota Beach	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
	6/4/2003	6/6/2003	2	0.03	UNKNOWN	UNKNOWN
	6/11/2003	6/13/2003	2	0.03	UNKNOWN	UNKNOWN
	9/24/2003	9/26/2003	2	0.06	UNKNOWN	UNKNOWN
	11/14/2003	11/19/2003	5	0.14	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Goleta Beach	3/19/2003	3/21/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	6/4/2003	6/6/2003	2	0.03	UNKNOWN	UNKNOWN
	6/18/2003	6/20/2003	2	0.03	UNKNOWN	UNKNOWN
	7/23/2003	7/25/2003	2	0.03	UNKNOWN	UNKNOWN
	8/6/2003	8/8/2003	2	0.03	UNKNOWN	UNKNOWN
	10/29/2003	10/31/2003	2	0.06	UNKNOWN	UNKNOWN
Guadalupe Dunes Hammonds	12/17/2003	12/19/2003	2	0.06	UNKNOWN	UNKNOWN
	1/8/2003	1/15/2003	7	0.12	UNKNOWN	UNKNOWN
	3/19/2003	3/21/2003	2	0.07	OTHER	WET_CREEK_RI
	5/7/2003	5/9/2003	2	0.03	UNKNOWN	WET_CREEK_RI
	7/9/2003	7/11/2003	2	0.03	UNKNOWN	UNKNOWN
	10/15/2003	10/17/2003	2	0.06	UNKNOWN	UNKNOWN
Haskell's	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
	5/21/2003	5/23/2003	2	0.03	UNKNOWN	WET_CREEK_RI
	6/18/2003	6/20/2003	2	0.03	UNKNOWN	UNKNOWN
	7/23/2003	7/25/2003	2	0.06	UNKNOWN	UNKNOWN
	8/20/2003	8/22/2003	2	0.06	UNKNOWN	UNKNOWN
Hope Ranch	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
	7/2/2003	7/3/2003	1	0.02	UNKNOWN	UNKNOWN
	9/10/2003	9/12/2003	2	0.06	UNKNOWN	UNKNOWN

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Hope Ranch	11/14/2003	11/19/2003	5	0.14	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Jalama Beach	3/12/2003	3/19/2003	7	0.24	UNKNOWN	WET_CREEK_RI
	6/4/2003	6/11/2003	7	0.12	UNKNOWN	UNKNOWN
	7/16/2003	7/18/2003	2	0.03	UNKNOWN	UNKNOWN
	10/15/2003	10/22/2003	7	0.2	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Leadbetter	1/23/2003	1/29/2003	6	0.1	UNKNOWN	UNKNOWN
	3/19/2003	3/21/2003	2	0.07	UNKNOWN	UNKNOWN
	4/16/2003	4/23/2003	7	0.2	RAIN	WET_CREEK_RI
	8/6/2003	8/8/2003	2	0.03	UNKNOWN	UNKNOWN
	12/10/2003	12/12/2003	2	0.06	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Mission Creek	1/8/2003	1/15/2003	7	0.12	UNKNOWN	UNKNOWN
	2/12/2003	2/20/2003	8	0.14	UNKNOWN	WET_CREEK_RI
	3/5/2003	3/7/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	3/19/2003	3/21/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
	11/5/2003	11/14/2003	9	0.26	UNKNOWN	UNKNOWN
	12/10/2003	12/17/2003	7	0.2	UNKNOWN	UNKNOWN
Ocean Beach	12/31/2003	1/8/2004	8	0.23	UNKNOWN	UNKNOWN
	10/15/2003	10/22/2003	7	0.2	UNKNOWN	UNKNOWN
Refugio State Beach	3/12/2003	3/14/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	3/19/2003	3/21/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Rincon Beach	7/23/2003	7/25/2003	2	0.03	UNKNOWN	UNKNOWN
Sands Beach at Coal Oil Point	3/19/2003	3/21/2003	2	0.07	OTHER	WET_CREEK_RI
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Sycamore Creek	1/23/2003	1/29/2003	6	0.1	UNKNOWN	UNKNOWN
	2/12/2003	2/20/2003	8	0.14	UNKNOWN	WET_CREEK_RI
	3/19/2003	3/26/2003	7	0.24	UNKNOWN	WET_CREEK_RI
	8/27/2003	8/29/2003	2	0.06	UNKNOWN	UNKNOWN
	10/22/2003	10/24/2003	2	0.06	UNKNOWN	UNKNOWN
	12/24/2003	1/7/2004	14	0.4	UNKNOWN	UNKNOWN

Number of Beach Postings: 87  
 Sum of Days: 366  
 Sum of Beach Mile Days: 9.66

# County of Ventura - Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
25 yds south of creek mouth	4/15/2003	4/21/2003	6	0.34		
	5/6/2003	5/7/2003	1	0.06		
	6/18/2003	6/19/2003	1	0.06		
	7/22/2003	7/23/2003	1	0.06		
	8/12/2003	8/13/2003	1	0.06		
25'yds south of Industrial Drain	12/23/2003	12/30/2003	7	0.4		
	2/12/2003	2/19/2003	7	0.4		
	10/28/2003	11/12/2003	15	0.85		
	11/19/2003	12/3/2003	14	0.8		
	12/17/2003	12/18/2003	1	0.06		
25 yds south of J Street drain.	2/12/2003	2/19/2003	7	0.4		
	11/4/2003	11/5/2003	1	0.06		
	11/26/2003	12/3/2003	7	0.4		
5th Street	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
Amalfi Way	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
at flag pole	1/7/2003	1/8/2003	1	0.06		
	4/15/2003	4/21/2003	6	0.34		
	5/6/2003	5/7/2003	1	0.06		
bottom of foot path	8/12/2003	8/13/2003	1	0.06		
	4/15/2003	4/21/2003	6	0.34		
	5/6/2003	5/7/2003	1	0.06		
California Street	8/12/2003	8/13/2003	1	0.06		
	12/23/2003	12/30/2003	7	0.4		
	2/26/2003	3/4/2003	6	0.34		
Channel Islands Harbor Beach Park	8/12/2003	8/13/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
	11/25/2003	12/2/2003	7	0.4		
	1/16/2003	1/22/2003	6	0.34		
	2/13/2003	2/19/2003	6	0.34		
	2/27/2003	3/4/2003	6	0.34		
	3/6/2003	3/11/2003	5	0.28		
	3/13/2003	3/20/2003	7	0.4		
	3/25/2003	4/8/2003	15	0.85		
	4/15/2003	4/17/2003	2	0.11		
	5/1/2003	5/8/2003	7	0.4		
	5/13/2003	5/15/2003	1	0.06		
	5/20/2003	5/22/2003	2	0.11		
	5/29/2003	6/5/2003	7	0.4		
	6/12/2003	6/17/2003	5	0.28		
6/18/2003	6/24/2003	6	0.34			
7/8/2003	7/10/2003	2	0.11			
7/16/2003	7/17/2003	1	0.06			
8/5/2003	8/12/2003	7	0.4			
8/19/2003	8/21/2003	2	0.11			
9/9/2003	9/25/2003	16	0.91			
9/30/2003	10/9/2003	9	0.51			
10/16/2003	11/4/2003	19	1.08			
11/6/2003	11/13/2003	7	0.4			
12/4/2003	12/9/2003	5	0.28			
12/11/2003	12/18/2003	7	0.4			
12/23/2003	12/30/2003	7	0.4			
Channel Way	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		

## Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
County Line Beach	3/18/2003	3/24/2003	6	0.34		
	12/23/2003	12/30/2003	7	0.4		
cypress tree	1/7/2003	1/8/2003	1	0.06		
	2/26/2003	3/4/2003	6	0.34		
Deer Creek Beach	3/18/2003	3/24/2003	6	0.34		
	4/2/2003	4/3/2003	1	0.06		
Dover Lane	12/23/2003	12/30/2003	7	0.4		
	6/11/2003	6/12/2003	1	0.06		
east gate access road	9/23/2003	9/25/2003	2	0.11		
	12/9/2003	12/10/2003	1	0.06		
Emma Woods State Beach	4/8/2003	4/9/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
Falkirk Avenue	9/23/2003	9/25/2003	2	0.11		
	3/18/2003	3/24/2003	6	0.34		
Faria County Park Beach	4/16/2003	4/22/2003	6	0.34		
	2/26/2003	3/4/2003	6	0.34		
Figueroa Street	11/25/2003	12/2/2003	7	0.4		
	12/23/2003	12/30/2003	7	0.4		
	1/7/2003	1/8/2003	1	0.06		
	2/26/2003	3/4/2003	6	0.34		
	3/19/2003	3/25/2003	6	0.34		
	4/15/2003	4/21/2003	6	0.34		
	8/12/2003	8/13/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
	11/5/2003	11/6/2003	1	0.06		
	11/25/2003	12/2/2003	7	0.4		
Go-Cart Track - south of McGrath Lake	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
Hobie Beach	10/1/2003	10/8/2003	7	0.4		
	2/5/2003	2/6/2003	1	0.06		
	2/25/2003	3/5/2003	8	0.45		
	3/18/2003	4/2/2003	15	0.85		
	5/29/2003	6/5/2003	7	0.4		
	8/27/2003	9/11/2003	15	0.85		
	9/17/2003	9/18/2003	1	0.06		
	11/19/2003	11/20/2003	1	0.06		
Hobson County Park	8/5/2003	8/6/2003	1	0.06		
	12/30/2003	12/31/2003	1	0.06		
Hollywood Beach	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
Kalorama Street	4/15/2003	4/21/2003	6	0.34		
	5/6/2003	5/7/2003	1	0.06		
	8/5/2003	8/6/2003	1	0.06		
	8/12/2003	8/13/2003	1	0.06		
Los Robles Street	9/23/2003	9/25/2003	2	0.11		
	3/18/2003	3/24/2003	6	0.34		
Marina Park Beach	4/16/2003	4/22/2003	6	0.34		
	1/7/2003	1/8/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
	12/23/2003	12/30/2003	7	0.4		
McGrath State Beach	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
north of Gonzales Road	10/1/2003	10/2/2003	1	0.06		
	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
	10/1/2003	10/2/2003	1	0.06		
Oak Street	1/7/2003	1/8/2003	1	0.06		
	2/26/2003	3/4/2003	6	0.34		
	8/12/2003	8/13/2003	1	0.06		
	8/19/2003	8/20/2003	1	0.06		
Outrigger Way	9/23/2003	9/25/2003	2	0.11		
	3/18/2003	3/24/2003	6	0.34		
Peninsula Beach	4/16/2003	4/22/2003	6	0.34		
	4/15/2003	4/21/2003	6	0.34		
	6/11/2003	6/12/2003	1	0.06		
	9/16/2003	9/17/2003	1	0.06		

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Penninsula Beach	9/23/2003	9/25/2003	2	0.11		
Point Mugu Beach	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
	7/16/2003	7/17/2003	1	0.06		
	10/15/2003	10/16/2003	1	0.06		
Port Hueneme Beach Park	2/12/2003	2/19/2003	7	0.4		
Redwood Apartments	2/26/2003	3/4/2003	6	0.34		
	8/12/2003	8/13/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
Rincon Parkway North	4/15/2003	4/21/2003	6	0.34		
San Jon Road	9/23/2003	9/30/2003	7	0.4		
	11/11/2003	11/18/2003	7	0.4		
	12/23/2003	12/30/2003	7	0.4		
San Nicolas Avenue	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
	12/23/2003	12/30/2003	7	0.4		
Santa Paula Avenue	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
Sawtelle Avenue	2/5/2003	2/6/2003	1	0.06		
	2/12/2003	2/19/2003	7	0.4		
	3/18/2003	3/24/2003	6	0.34		
	11/26/2003	12/3/2003	7	0.4		
Seaside Wilderness Park Beach	9/23/2003	9/25/2003	2	0.11		
South Jetty Beach	2/20/2003	2/25/2003	5	0.28		
	9/23/2003	9/25/2003	2	0.11		
Staircase Beach	3/18/2003	3/24/2003	6	0.34		
	12/23/2003	12/30/2003	7	0.4		
Starfish Drive	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
Surfers Knoll Beach	3/19/2003	3/25/2003	6	0.34		
	5/6/2003	5/7/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
	11/25/2003	12/2/2003	7	0.4		
	12/9/2003	12/10/2003	1	0.06		
Surfers Point at Seaside	2/26/2003	3/4/2003	6	0.34		
	4/15/2003	4/21/2003	6	0.34		
	9/23/2003	9/25/2003	2	0.11		
	11/5/2003	11/11/2003	6	0.34		
	11/25/2003	12/2/2003	7	0.4		
Sycamore Cove Beach	3/18/2003	3/24/2003	6	0.34		
	5/13/2003	5/15/2003	1	0.06		
Thornhill Broome Beach	3/18/2003	3/24/2003	6	0.34		
Weymouth Lane	7/30/2003	7/31/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
	12/23/2003	12/30/2003	7	0.4		

**Number of Beach Postings: 166**  
**Sum of Days: 790**  
**Sum of Beach Mile Days: 44.96**



# Los Angeles County 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Avalon Beach	4/15/2003	4/17/2003	2	0.06		
	4/15/2003	4/17/2003	2	0.06		
	4/15/2003	4/17/2003	2	0.06		
	4/15/2003	4/17/2003	2	0.06		
	4/15/2003	4/17/2003	2	0.06		
	4/22/2003	4/24/2003	2	0.06		
	4/29/2003	5/1/2003	2	0.11		
	4/29/2003	5/1/2003	2	0.11		
	5/6/2003	5/13/2003	7	0.2		
	5/6/2003	5/13/2003	7	0.2		
	5/20/2003	5/22/2003	2	0.06		
	5/20/2003	5/28/2003	8	0.23		
	5/28/2003	6/3/2003	6	0.17		
	6/10/2003	6/12/2003	2	0.06		
	6/10/2003	6/12/2003	2	0.06		
	6/17/2003	6/24/2003	7	0.2		
	7/1/2003	7/3/2003	2	0.06		
	7/1/2003	7/3/2003	2	0.06		
	7/15/2003	7/22/2003	7	0.2		
	7/15/2003	7/22/2003	7	0.2		
	7/22/2003	7/24/2003	2	0.06		
	7/29/2003	8/7/2003	9	0.26		
	7/29/2003	7/31/2003	2	0.06		
	7/29/2003	8/5/2003	7	0.2		
	8/5/2003	8/7/2003	2	0.06		
	8/12/2003	8/14/2003	2	0.06		
	8/12/2003	8/19/2003	7	0.2		
	8/19/2003	8/26/2003	7	0.2		
	9/16/2003	9/18/2003	2	0.06		
	9/23/2003	9/25/2003	2	0.06		
	9/30/2003	10/2/2003	2	0.06		
	10/7/2003	10/17/2003	10	0.28		
	10/15/2003	10/17/2003	2	0.06		
10/21/2003	10/28/2003	7	0.2			
10/21/2003	10/28/2003	7	0.2			
Big Rock Beach	4/15/2003	4/17/2003	2	0.11		
	6/17/2003	6/19/2003	2	0.11		
	6/24/2003	6/26/2003	2	0.11		
	8/12/2003	8/14/2003	2	0.11		
Cabrillo Beach	1/3/2003	1/6/2003	3	0.34		
	1/7/2003	1/13/2003	6	0.68		
	1/15/2003	1/27/2003	12	1.36		
	1/30/2003	2/6/2003	7	0.8		
	2/20/2003	2/24/2003	4	0.45		
	3/5/2003	3/7/2003	2	0.23		
	3/24/2003	3/24/2003	1	0.11		
	3/25/2003	3/27/2003	2	0.23		
	3/31/2003	3/31/2003	1	0.11		
	4/3/2003	4/7/2003	4	0.23		
	4/14/2003	4/17/2003	3	0.34		
	4/15/2003	4/17/2003	2	0.23		
	4/21/2003	4/22/2003	1	0.11		
	4/24/2003	4/25/2003	1	0.11		
	5/7/2003	5/9/2003	2	0.23		
5/19/2003	5/21/2003	2	0.23			

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source	
Cabrillo Beach	6/3/2003	6/9/2003	6	0.68		
	6/11/2003	6/12/2003	1	0.11		
	6/16/2003	6/23/2003	7	0.8		
	6/30/2003	7/1/2003	1	0.11		
	7/3/2003	7/3/2003	1	0.11		
	7/7/2003	7/7/2003	1	0.11		
	7/8/2003	7/9/2003	1	0.11		
	7/11/2003	7/21/2003	10	1.14		
	7/28/2003	7/28/2003	1	0.11		
	8/11/2003	8/14/2003	3	0.34		
	8/29/2003	9/2/2003	4	0.45		
	9/25/2003	9/29/2003	4	0.45		
	10/1/2003	10/3/2003	2	0.23		
	10/10/2003	10/15/2003	5	0.57		
	10/16/2003	10/20/2003	4	0.45		
	10/22/2003	10/23/2003	1	0.11		
	10/27/2003	11/3/2003	7	0.8		
	11/6/2003	11/10/2003	4	0.45		
	11/17/2003	11/18/2003	1	0.11		
	11/20/2003	11/21/2003	1	0.11		
	11/24/2003	12/1/2003	7	0.8		
	12/5/2003	12/12/2003	7	0.8		
	12/15/2003	12/16/2003	1	0.11		
	12/17/2003	12/18/2003	1	0.11		
	Dockweiler Beach	2/3/2003	2/3/2003	1	0.11	
		3/6/2003	3/7/2003	1	0.11	
		3/26/2003	3/27/2003	1	0.06	
		3/31/2003	4/1/2003	1	0.11	
		3/31/2003	4/1/2003	1	0.11	
		4/1/2003	4/3/2003	2	0.11	
		4/15/2003	4/17/2003	2	0.11	
		4/15/2003	4/18/2003	3	0.34	
		4/15/2003	4/17/2003	2	0.11	
		4/15/2003	4/17/2003	2	0.11	
		4/15/2003	4/17/2003	2	0.11	
		4/15/2003	4/17/2003	2	0.11	
		5/5/2003	5/5/2003	1	0.11	
		5/5/2003	5/6/2003	1	0.06	
		5/7/2003	5/20/2003	13	0.74	
		5/7/2003	5/8/2003	1	0.11	
5/9/2003		5/12/2003	3	0.34		
5/13/2003		5/19/2003	6	0.34		
5/27/2003		6/2/2003	6	0.34		
6/18/2003		6/20/2003	2	0.11		
6/20/2003		6/20/2003	1	0.11		
7/28/2003		7/29/2003	1	0.06		
7/29/2003		7/31/2003	2	0.11		
7/31/2003		8/4/2003	4	0.23		
7/31/2003		8/4/2003	4	0.23		
8/14/2003		8/15/2003	1	0.11		
8/14/2003		8/15/2003	1	0.11		
8/26/2003		9/3/2003	8	0.45		
8/28/2003		8/29/2003	1	0.11		
8/28/2003		8/29/2003	1	0.11		
8/28/2003		8/29/2003	1	0.11		
9/15/2003		9/16/2003	1	0.06		
10/27/2003		10/28/2003	1	0.06		
11/7/2003		11/10/2003	3	0.34		
11/7/2003		11/10/2003	3	0.34		
11/12/2003		11/12/2003	1	0.06		
11/12/2003		11/12/2003	1	0.06		
11/18/2003		12/1/2003	13	0.74		
12/9/2003		12/11/2003	2	0.11		
12/9/2003		12/10/2003	1	0.11		
12/9/2003	12/11/2003	2	0.11			
12/16/2003	12/18/2003	2	0.11			

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
El Segundo Beach	12/9/2003	12/16/2003	7	0.4	
	4/15/2003	4/17/2003	2	0.23	
Hermosa Beach	4/15/2003	4/17/2003	2	0.23	
	6/3/2003	6/5/2003	2	0.11	
Latigo Shore	12/8/2003	12/9/2003	1	0.11	
	12/16/2003	12/18/2003	2	0.23	
	4/15/2003	4/17/2003	2	0.11	
	2/20/2003	2/25/2003	5	0.28	
	2/20/2003	2/24/2003	4	0.23	
Malaga Cove	4/15/2003	4/22/2003	7	0.4	
	9/9/2003	9/19/2003	10	0.57	
Malibu Pier	1/7/2003	1/9/2003	2	0.23	
	4/15/2003	4/17/2003	2	0.23	
	5/6/2003	5/8/2003	2	0.23	
	6/17/2003	6/24/2003	7	0.8	
	8/6/2003	8/7/2003	1	0.11	
	8/12/2003	8/14/2003	2	0.23	
	9/9/2003	9/11/2003	2	0.23	
	10/7/2003	10/9/2003	2	0.23	
	4/15/2003	4/17/2003	2	0.11	
	4/22/2003	4/24/2003	2	0.11	
Malibu Point	5/6/2003	5/13/2003	7	0.4	
	6/17/2003	6/19/2003	2	0.11	
	8/12/2003	8/14/2003	2	0.11	
	9/9/2003	9/11/2003	2	0.11	
	9/30/2003	10/2/2003	2	0.23	
	10/7/2003	10/15/2003	8	0.91	
	12/2/2003	12/4/2003	2	0.23	
	12/9/2003	12/11/2003	2	0.23	
	3/31/2003	4/1/2003	1	0.11	
	4/8/2003	4/10/2003	2	0.11	
Manhattan Beach	4/11/2003	4/14/2003	3	0.34	
	4/15/2003	4/17/2003	2	0.11	
	4/29/2003	5/1/2003	2	0.11	
	5/5/2003	5/5/2003	1	0.06	
	8/19/2003	8/21/2003	2	0.11	
	11/12/2003	11/12/2003	1	0.06	
	1/21/2003	1/22/2003	1	0.06	
	1/27/2003	1/28/2003	1	0.11	
	2/3/2003	2/5/2003	2	0.23	
	2/6/2003	2/10/2003	4	0.23	
Marina del Rey Beach	2/24/2003	2/24/2003	1	0.06	
	3/11/2003	3/14/2003	3	0.34	
	3/20/2003	3/21/2003	1	0.06	
	3/27/2003	3/28/2003	1	0.06	
	4/16/2003	4/17/2003	1	0.06	
	5/5/2003	5/19/2003	14	0.8	
	6/11/2003	6/12/2003	1	0.06	
	6/23/2003	6/30/2003	7	0.4	
	7/7/2003	7/8/2003	1	0.06	
	7/18/2003	7/21/2003	3	0.34	
	7/24/2003	7/28/2003	4	0.45	
	7/29/2003	8/5/2003	7	0.4	
	8/20/2003	8/22/2003	2	0.11	
	9/4/2003	9/11/2003	7	0.4	
	9/18/2003	9/19/2003	1	0.11	
	10/24/2003	10/28/2003	4	0.45	
	11/7/2003	11/10/2003	3	0.34	
	11/17/2003	11/18/2003	1	0.06	
	11/24/2003	12/2/2003	8	0.91	
	12/2/2003	12/3/2003	1	0.06	
Palos Verdes Beach	1/6/2003	1/6/2003	1	0.11	
	1/13/2003	1/14/2003	1	0.11	
Paradise Cove	10/20/2003	10/30/2003	10	0.57	
	1/28/2003	2/4/2003	7	0.8	
	2/19/2003	2/21/2003	2	0.23	
	4/15/2003	4/17/2003	2	0.23	

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
Paradise Cove	11/25/2003	12/2/2003	7	0.8	
Puerto Beach	4/15/2003	4/17/2003	2	0.23	
	6/17/2003	6/19/2003	2	0.23	
Redondo Beach	1/9/2003	1/10/2003	1	0.11	
	1/13/2003	1/16/2003	3	0.17	
	1/15/2003	1/16/2003	1	0.11	
	1/17/2003	1/23/2003	6	0.68	
	1/17/2003	1/21/2003	4	0.45	
	1/28/2003	2/4/2003	7	0.8	
	2/3/2003	2/5/2003	2	0.23	
	2/3/2003	2/3/2003	1	0.11	
	2/10/2003	2/11/2003	1	0.06	
	3/5/2003	3/7/2003	2	0.11	
	3/27/2003	3/28/2003	1	0.06	
	3/31/2003	4/1/2003	1	0.11	
	4/3/2003	4/8/2003	5	0.28	
	4/15/2003	4/16/2003	1	0.06	
	4/15/2003	4/17/2003	2	0.11	
	5/6/2003	5/13/2003	7	0.8	
	5/27/2003	5/27/2003	1	0.11	
	6/3/2003	6/4/2003	1	0.06	
	6/6/2003	6/9/2003	3	0.34	
	6/10/2003	6/12/2003	2	0.11	
	6/13/2003	6/16/2003	3	0.34	
	7/22/2003	7/24/2003	2	0.11	
	7/28/2003	7/29/2003	1	0.06	
	7/30/2003	8/4/2003	5	0.28	
	9/8/2003	9/15/2003	7	3.7	
	9/16/2003	9/23/2003	7	0.8	
	9/22/2003	9/23/2003	1	0.06	
	9/26/2003	9/29/2003	3	0.34	
	10/1/2003	10/2/2003	1	0.11	
	10/24/2003	10/28/2003	4	0.45	
	10/27/2003	10/30/2003	3	0.34	
	10/28/2003	11/3/2003	6	0.34	
	11/12/2003	11/12/2003	1	0.06	
	11/24/2003	12/1/2003	7	0.8	
	11/25/2003	12/2/2003	7	0.4	
	12/9/2003	12/11/2003	2	0.11	
	12/9/2003	12/11/2003	2	0.11	
	12/9/2003	12/10/2003	1	0.06	
	12/11/2003	12/16/2003	5	0.28	
Royal Palms Beach - White's Point	4/15/2003	4/22/2003	7	0.4	
Santa Monica Beach	1/3/2003	1/6/2003	3	0.34	
	1/6/2003	1/7/2003	1	0.11	
	1/6/2003	1/7/2003	1	0.11	
	1/7/2003	1/9/2003	2	0.23	
	2/20/2003	2/24/2003	4	0.23	
	2/20/2003	2/24/2003	4	0.23	
	3/5/2003	3/6/2003	1	0.06	
	3/12/2003	3/14/2003	2	0.23	
	3/21/2003	3/24/2003	3	0.34	
	3/28/2003	3/31/2003	3	0.34	
	4/3/2003	4/7/2003	4	0.23	
	4/14/2003	4/17/2003	3	0.17	
	4/15/2003	4/16/2003	1	0.11	
	4/15/2003	4/17/2003	2	0.11	
	4/15/2003	4/16/2003	1	0.11	
	4/15/2003	4/16/2003	1	0.11	
	4/15/2003	4/22/2003	7	0.4	
	4/15/2003	4/17/2003	2	0.11	
	4/28/2003	4/29/2003	1	0.06	
Santa Monica Beach	5/5/2003	5/5/2003	1	0.11	
	5/5/2003	5/5/2003	1	0.11	
	5/5/2003	5/5/2003	1	0.11	
	5/9/2003	5/12/2003	3	0.34	

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
Santa Monica Beach	5/20/2003	5/27/2003	7	0.4	
	5/22/2003	5/27/2003	5	0.57	
	6/4/2003	6/5/2003	1	0.11	
	6/4/2003	6/5/2003	1	0.11	
	6/9/2003	6/10/2003	1	0.06	
	6/12/2003	6/13/2003	1	0.06	
	6/17/2003	6/24/2003	7	0.4	
	6/19/2003	6/20/2003	1	0.06	
	7/7/2003	7/7/2003	1	0.11	
	7/14/2003	7/15/2003	1	0.06	
	7/15/2003	7/17/2003	2	0.11	
	7/30/2003	7/31/2003	1	0.06	
	8/8/2003	8/11/2003	3	0.34	
	8/21/2003	8/22/2003	1	0.06	
	8/26/2003	8/28/2003	2	0.11	
	8/26/2003	9/3/2003	8	0.45	
	8/26/2003	8/28/2003	2	0.11	
	8/29/2003	9/2/2003	4	0.23	
	9/2/2003	9/2/2003	1	0.06	
	9/3/2003	9/4/2003	1	0.06	
	9/5/2003	9/8/2003	3	0.17	
	9/15/2003	9/22/2003	7	0.4	
	10/14/2003	10/15/2003	1	0.11	
	10/27/2003	10/30/2003	3	0.17	
	10/27/2003	10/30/2003	3	0.17	
	11/10/2003	11/12/2003	2	0.23	
	11/12/2003	11/12/2003	1	0.06	
	11/12/2003	11/12/2003	1	0.06	
	11/20/2003	11/21/2003	1	0.06	
	11/25/2003	11/26/2003	1	0.06	
	11/25/2003	12/1/2003	6	0.34	
	11/25/2003	12/2/2003	7	0.4	
	12/4/2003	12/5/2003	1	0.11	
	12/4/2003	12/5/2003	1	0.11	
	12/8/2003	12/9/2003	1	0.06	
	12/9/2003	12/11/2003	2	0.23	
	12/9/2003	12/11/2003	2	0.23	
	12/16/2003	12/18/2003	2	0.11	
	12/17/2003	12/19/2003	2	0.11	
	Santa Monica Beach	12/31/2003	1/2/2004	2	0.23
Surfrider Beach	1/3/2003	1/21/2003	18	2.05	
	1/28/2003	1/30/2003	2	0.11	
	2/6/2003	2/10/2003	4	0.23	
	3/4/2003	3/6/2003	2	0.23	
	3/13/2003	3/14/2003	1	0.06	
	3/20/2003	3/27/2003	7	0.8	
	3/28/2003	4/2/2003	5	0.57	
	4/7/2003	4/10/2003	3	2.78	
	4/15/2003	4/17/2003	2	0.23	
	4/28/2003	5/20/2003	22	1.25	
	5/22/2003	6/3/2003	12	1.36	
	6/9/2003	6/10/2003	1	0.11	
	6/11/2003	6/12/2003	1	0.11	
	6/23/2003	6/25/2003	2	0.11	
	7/1/2003	7/7/2003	6	0.68	
	7/7/2003	7/14/2003	7	0.8	
	7/15/2003	7/21/2003	6	0.68	
	7/29/2003	7/30/2003	1	0.11	
	8/8/2003	8/18/2003	10	1.14	
	8/21/2003	8/22/2003	1	0.11	
	9/2/2003	9/4/2003	2	0.23	
	9/5/2003	9/8/2003	3	0.34	
	9/11/2003	9/15/2003	4	0.45	
	9/15/2003	9/16/2003	1	0.11	
	10/7/2003	10/8/2003	1	0.11	
	10/10/2003	10/14/2003	4	0.45	

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source	
Surfrider Beach	10/15/2003	10/22/2003	7	0.8		
	10/23/2003	10/24/2003	1	0.11		
	10/27/2003	11/3/2003	7	0.8		
	11/7/2003	11/12/2003	5	0.57		
	11/19/2003	12/1/2003	12	1.36		
	12/2/2003	12/10/2003	8	0.91		
	12/11/2003	12/15/2003	4	0.45		
	12/19/2003	12/23/2003	4	0.45		
	12/31/2003	1/2/2004	2	0.23		
	2/24/2003	2/24/2003	1	0.11		
Topanga Beach	3/11/2003	3/14/2003	3	0.34		
	3/20/2003	3/21/2003	1	0.11		
	3/24/2003	3/26/2003	2	0.23		
	4/15/2003	4/17/2003	2	0.23		
	5/5/2003	5/7/2003	2	0.23		
	5/19/2003	5/21/2003	2	0.23		
	Topanga Beach	6/2/2003	6/3/2003	1	0.11	
6/10/2003		6/11/2003	1	0.11		
6/20/2003		6/20/2003	1	0.11		
6/23/2003		6/24/2003	1	0.11		
6/27/2003		7/7/2003	10	1.14		
7/7/2003		7/9/2003	2	0.23		
7/16/2003		7/22/2003	6	0.68		
8/22/2003		8/25/2003	3	0.34		
9/17/2003		9/19/2003	2	0.23		
10/27/2003		10/28/2003	1	0.11		
12/8/2003		12/9/2003	1	0.11		
Venice Beach		1/21/2003	1/22/2003	1	0.11	
		4/15/2003	4/17/2003	2	0.23	
	4/15/2003	4/17/2003	2	0.23		
	4/15/2003	4/22/2003	7	0.8		
	4/15/2003	4/17/2003	2	0.23		
	5/6/2003	5/8/2003	2	0.23		
	5/6/2003	5/8/2003	2	0.23		
	8/26/2003	9/3/2003	8	0.45		
	8/26/2003	8/28/2003	2	0.23		
	11/12/2003	11/12/2003	1	0.11		
	11/18/2003	11/20/2003	2	0.23		
	11/25/2003	12/2/2003	7	0.8		
	11/25/2003	12/2/2003	7	0.8		
	12/9/2003	12/11/2003	2	0.23		
	12/9/2003	12/16/2003	7	0.8		
Will Rogers State Beach	1/6/2003	1/9/2003	3	0.34		
	1/17/2003	1/27/2003	10	1.14		
	1/30/2003	2/3/2003	4	0.45		
	2/24/2003	2/25/2003	1	0.11		
	3/6/2003	3/14/2003	8	0.91		
	3/24/2003	3/25/2003	1	0.11		
	3/26/2003	3/27/2003	1	0.11		
	4/15/2003	4/16/2003	1	0.11		
	4/15/2003	4/17/2003	2	0.23		
	4/15/2003	4/22/2003	7	0.8		
	4/15/2003	4/17/2003	2	0.23		
	4/15/2003	4/17/2003	2	0.23		
	5/5/2003	5/19/2003	14	0.8		
	5/5/2003	5/5/2003	1	0.11		
	5/9/2003	5/12/2003	3	0.34		
5/29/2003	5/30/2003	1	0.11			
7/1/2003	7/3/2003	2	0.11			
Will Rogers State Beach	7/1/2003	7/3/2003	2	0.11		
	8/25/2003	8/28/2003	3	0.34		
	8/26/2003	8/28/2003	2	0.23		
	9/16/2003	9/18/2003	2	0.23		
	9/23/2003	9/25/2003	2	0.11		
	10/28/2003	10/30/2003	2	0.23		
	11/7/2003	11/12/2003	5	0.57		

## Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
Will Rogers State Beach	11/12/2003	11/12/2003	1	0.11	
	11/12/2003	11/12/2003	1	0.11	
	12/8/2003	12/9/2003	1	0.11	
Zuma Beach	4/15/2003	4/17/2003	2	0.23	

**Number of Beach Postings: 390**

**Sum of Days: 1256**

**Sum of Beach Mile Days: 110.66**

# City of Long Beach Health Dept

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
10th Place-Beach	9/3/2003	9/10/2003	7	0.2	UNKNOWN	UNKNOWN
	9/9/2003	9/10/2003	1	0.03	UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03	UNKNOWN	UNKNOWN
16th Place-Beach	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
	8/12/2003	8/13/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/5/2003	2	0.06	UNKNOWN	UNKNOWN
1st & Bayshore	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
	2/25/2003	2/26/2003	1	0.03	UNKNOWN	UNKNOWN
2nd St Bridge & Bayshore	2/4/2003	2/5/2003	1	0.03	UNKNOWN	UNKNOWN
	3/25/2003	3/26/2003	1	0.03	UNKNOWN	UNKNOWN
36th Place Beach	9/9/2003	9/11/2003	2	0.06	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03	UNKNOWN	UNKNOWN
	6/16/2003	6/18/2003	2	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/6/2003	3	0.09	UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03	UNKNOWN	UNKNOWN
3rd Place Beach	10/28/2003	10/29/2003	1	0.03	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	3/11/2003	3/12/2003	1	0.03	UNKNOWN	UNKNOWN
	3/25/2003	3/26/2003	1	0.03	UNKNOWN	UNKNOWN
	7/29/2003	7/30/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/9/2003	6	0.17	UNKNOWN	UNKNOWN
	10/7/2003	10/9/2003	2	0.06	UNKNOWN	UNKNOWN
	10/21/2003	10/22/2003	1	0.03	UNKNOWN	UNKNOWN
54th Place Beach	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	8/12/2003	8/14/2003	2	0.06	UNKNOWN	UNKNOWN
	8/19/2003	8/20/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/16/2003	9/18/2003	2	0.06	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
55th Place Beach	8/12/2003	8/13/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
56th Place on Bayside	4/8/2003	4/9/2003	1	0.03	UNKNOWN	UNKNOWN
5th Place Beach	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/9/2003	6	0.17	UNKNOWN	UNKNOWN
	10/7/2003	10/9/2003	2	0.06	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03	UNKNOWN	UNKNOWN
62nd Place-Beach	8/12/2003	8/13/2003	1	0.03	UNKNOWN	UNKNOWN
	8/19/2003	8/20/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/5/2003	2	0.06	UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03	UNKNOWN	UNKNOWN
	10/7/2003	10/8/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
72nd Place Beach	2/4/2003	2/7/2003	3	0.09	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	2/25/2003	2/26/2003	1	0.03	UNKNOWN	UNKNOWN
	8/12/2003	8/13/2003	1	0.03	UNKNOWN	UNKNOWN
	8/19/2003	8/20/2003	1	0.03	UNKNOWN	UNKNOWN



Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/16/2003	9/18/2003	2	0.06	UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
Alamitos-Bay shore float	1/8/2003	1/9/2003	1	0.03	UNKNOWN	UNKNOWN
	2/4/2003	2/5/2003	1	0.03	UNKNOWN	UNKNOWN
	4/8/2003	4/9/2003	1	0.03	UNKNOWN	UNKNOWN
	4/29/2003	4/30/2003	1	0.03	UNKNOWN	UNKNOWN
Belmont Pier-east side	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03	UNKNOWN	UNKNOWN
	7/8/2003	7/9/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
Belmont Pier-west side	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03	UNKNOWN	UNKNOWN
Colorado Lagoon-center	2/4/2003	2/5/2003	1	0.03	UNKNOWN	UNKNOWN
Colorado Lagoon-north	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	7/29/2003	8/6/2003	8	0.23	UNKNOWN	UNKNOWN
	8/26/2003	8/27/2003	1	0.03	UNKNOWN	UNKNOWN
	9/9/2003	9/11/2003	2	0.06	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
Colorado Lagoon-south	5/8/2003	5/9/2003	1	0.03	UNKNOWN	UNKNOWN
	7/21/2003	7/22/2003	1	0.03	UNKNOWN	UNKNOWN
	11/18/2003	11/19/2003	1	0.03	UNKNOWN	UNKNOWN
Coronado Ave Beach	5/20/2003	5/21/2003	1	0.03	UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03	UNKNOWN	UNKNOWN
	10/28/2003	10/29/2003	1	0.03	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
cypress tree	7/29/2003	7/30/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/6/2003	3	0.09	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
Granada Ave Beach	8/12/2003	8/14/2003	2	0.06	UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03	UNKNOWN	UNKNOWN
	10/14/2003	10/15/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
Molino Ave Beach	1/8/2003	1/9/2003	1	0.03	UNKNOWN	UNKNOWN
	1/22/2003	1/24/2003	2	0.06	UNKNOWN	UNKNOWN
	2/19/2003	2/22/2003	3	0.09	UNKNOWN	UNKNOWN
	3/11/2003	3/14/2003	3	0.09	UNKNOWN	UNKNOWN
	5/8/2003	5/9/2003	1	0.03	UNKNOWN	UNKNOWN
	6/3/2003	6/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/5/2003	2	0.06	UNKNOWN	UNKNOWN
	10/21/2003	10/22/2003	1	0.03	UNKNOWN	UNKNOWN
	11/25/2003	11/27/2003	2	0.06	UNKNOWN	UNKNOWN
Mothers Beach	1/28/2003	1/29/2003	1	0.03	UNKNOWN	UNKNOWN
	10/7/2003	10/8/2003	1	0.03	UNKNOWN	UNKNOWN
	12/2/2003	12/3/2003	1	0.03	UNKNOWN	UNKNOWN
Prospect Ave Beach	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	3/4/2003	3/5/2003	1	0.03	UNKNOWN	UNKNOWN
	6/3/2003	6/4/2003	1	0.03	UNKNOWN	UNKNOWN
	8/12/2003	8/14/2003	2	0.06	UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	WILDLIFE

Number of Beach Postings: 113  
 Sum of Days: 181  
 Sum of Beach Mile Days: 5.36

# Orange County Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Aliso County Beach	1/3/2003	1/4/2003	1	0.47		
	1/7/2003	1/8/2003	1	0.06		
	1/21/2003	1/25/2003	4	0.23		
	1/21/2003	1/25/2003	4	0.76		
	2/19/2003	2/20/2003	1	0.06		
	3/11/2003	3/12/2003	1	0.06		
	9/4/2003	9/5/2003	1	0.06		
	10/9/2003	10/11/2003	2	0.11		
Bolsa Chica State Beach	6/17/2003	6/18/2003	1	0.06		
	7/30/2003	8/1/2003	2	0.11		
	8/10/2003	8/13/2003	3	0.17		
	8/15/2003	8/17/2003	2	0.11		
	9/10/2003	9/11/2003	1	0.06		
	9/19/2003	9/21/2003	2	0.11		
	9/28/2003	9/30/2003	2	0.11		
	10/14/2003	10/15/2003	1	0.06		
Capistrano Bay District	1/15/2003	4/10/2003	85	136		
	6/11/2003	6/14/2003	3	0.17		
	7/22/2003	7/24/2003	2	0.38		
	7/30/2003	8/6/2003	7	1.33		
	9/30/2003	10/3/2003	3	0.57		
Capistrano Beach	1/1/2003	4/10/2003	99	24.75		
	5/13/2003	5/14/2003	1	0.06		
Crystal Cove State Park	4/4/2003	4/8/2003	4	0.23		
Dana Point	12/23/2003	12/25/2003	2	0.11		
Dana Point Harbor	1/1/2003	12/31/2003	364	20.68		
	1/1/2003	5/3/2003	122	4.76		
	1/31/2003	2/4/2003	4	0.23		
	6/13/2003	6/18/2003	5	0.06		
	6/27/2003	6/29/2003	2	0.02		
	7/16/2003	7/18/2003	2	0.02		
	7/25/2003	7/27/2003	2	0.09		
	8/15/2003	8/23/2003	8	0.09		
	8/29/2003	12/31/2003	124	4.82		
	1/1/2003	8/6/2003	217	175.82		
	Doheny State Beach	8/12/2003	8/15/2003	3	2.67	
8/21/2003		9/10/2003	20	3.73		
8/29/2003		8/31/2003	2	0.11		
9/10/2003		12/31/2003	112	61.4		
9/16/2003		9/19/2003	3	0.17		
Emerald Bay	7/4/2003	7/5/2003	1	0.06		
Huntington City Beach	1/3/2003	1/5/2003	2	3.6		
	1/7/2003	1/8/2003	1	1.3		
	1/7/2003	1/8/2003	1	0.66		
	1/17/2003	1/19/2003	2	0.11		
	1/29/2003	1/30/2003	1	0.06		
	1/31/2003	2/2/2003	2	0.11		
	2/20/2003	2/21/2003	1	0.03		
	3/9/2003	3/12/2003	3	0.17		
	3/21/2003	3/23/2003	2	0.25		
	3/28/2003	3/30/2003	2	0.11		
	4/13/2003	4/15/2003	2	0.11		
	4/15/2003	4/19/2003	4	0.23		
	5/22/2003	5/23/2003	1	0.06		
	7/18/2003	7/20/2003	2	0.11		

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Huntington City Beach	7/30/2003	7/31/2003	1	0.09		
	8/12/2003	8/13/2003	1	0.09		
	9/22/2003	9/23/2003	1	0.06		
	11/21/2003	11/23/2003	2	0.38		
	11/25/2003	11/26/2003	1	0.06		
	11/30/2003	12/2/2003	2	0.11		
Huntington Harbour	12/23/2003	12/25/2003	2	0.06		
	1/1/2003	3/8/2003	66	1.88		
	1/1/2003	1/17/2003	16	0.91		
	1/1/2003	1/9/2003	8	0.45		
	1/16/2003	1/29/2003	13	0.74		
	1/30/2003	2/6/2003	7	0.4		
	1/30/2003	3/6/2003	35	0.5		
	1/30/2003	2/2/2003	3	0.17		
	2/20/2003	3/6/2003	14	0.8		
	3/6/2003	3/8/2003	2	0.11		
	3/6/2003	3/8/2003	2	0.11		
	3/20/2003	3/22/2003	2	0.11		
	3/20/2003	3/22/2003	2	0.11		
	3/20/2003	3/22/2003	2	0.11		
	3/27/2003	3/29/2003	2	0.11		
	4/10/2003	5/2/2003	22	1.25		
	5/8/2003	5/10/2003	2	0.11		
	5/8/2003	5/10/2003	2	0.03		
	5/22/2003	5/24/2003	2	0.11		
	5/30/2003	5/31/2003	1	0.06		
	6/5/2003	6/8/2003	3	0.17		
	6/5/2003	6/11/2003	6	0.34		
	6/19/2003	7/10/2003	21	1.19		
	6/19/2003	6/23/2003	4	0.23		
	8/7/2003	8/9/2003	2	0.03		
	8/21/2003	8/23/2003	2	0.11		
	9/5/2003	9/7/2003	2	0.11		
	10/2/2003	10/4/2003	2	0.11		
	10/17/2003	10/18/2003	1	0.06		
	10/30/2003	11/3/2003	4	0.23		
	11/13/2003	11/20/2003	7	0.4		
	11/25/2003	11/27/2003	2	0.03		
	12/4/2003	12/6/2003	2	0.11		
12/4/2003	12/6/2003	2	0.03			
12/23/2003	12/31/2003	8	0.23			
12/30/2003	12/31/2003	1	0.06			
Huntington State Beach	1/5/2003	1/7/2003	2	0.11		
	1/7/2003	1/8/2003	1	0.06		
	1/7/2003	1/8/2003	1	0.09		
	1/17/2003	1/24/2003	7	1.19		
	1/26/2003	1/30/2003	4	0.36		
	1/31/2003	2/2/2003	2	2.6		
	2/20/2003	2/21/2003	1	0.03		
	2/23/2003	2/24/2003	1	0.75		
	3/6/2003	3/7/2003	1	0.06		
	3/20/2003	3/21/2003	1	0.09		
	3/21/2003	3/25/2003	4	0.91		
	3/27/2003	3/29/2003	2	0.11		
	4/13/2003	4/22/2003	9	2.45		
	5/15/2003	5/16/2003	1	0.75		
	5/16/2003	5/20/2003	4	0.49		
	6/3/2003	6/4/2003	1	0.06		
	6/4/2003	6/5/2003	1	0.06		
	6/6/2003	6/8/2003	2	0.11		
	6/15/2003	6/18/2003	3	0.44		
	6/29/2003	7/4/2003	5	3.06		
	7/11/2003	7/17/2003	6	3.38		
7/18/2003	7/20/2003	2	3.6			
7/22/2003	7/24/2003	2	0.11			
7/29/2003	8/3/2003	5	4.3			

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
Huntington State Beach	8/8/2003	8/19/2003	11	13.74	
	8/27/2003	8/29/2003	2	0.25	
	8/31/2003	9/3/2003	3	0.3	
	9/10/2003	9/12/2003	2	1.36	
	9/14/2003	9/17/2003	3	3.6	
	9/28/2003	9/30/2003	2	1.32	
	10/3/2003	10/6/2003	3	2.25	
	10/12/2003	10/15/2003	3	0.11	
	10/29/2003	10/31/2003	2	0.25	
	11/12/2003	11/13/2003	1	0.06	
	11/21/2003	11/30/2003	9	6.36	
	12/5/2003	12/14/2003	9	1.9	
	12/21/2003	12/23/2003	2	0.11	
	12/23/2003	12/25/2003	2	0.06	
Laguna Beach	1/3/2003	1/4/2003	1	0.06	
	1/3/2003	1/7/2003	4	0.23	
	1/3/2003	1/8/2003	5	0.28	
	1/7/2003	1/8/2003	1	0.06	
	1/21/2003	1/25/2003	4	0.23	
	1/21/2003	1/25/2003	4	0.23	
	6/24/2003	6/25/2003	1	0.25	
	6/24/2003	6/25/2003	1	0.06	
	7/2/2003	7/4/2003	2	0.11	
	10/28/2003	10/31/2003	3	0.17	
	10/28/2003	10/31/2003	3	0.17	
	10/28/2003	10/29/2003	1	0.06	
	11/12/2003	11/15/2003	3	0.17	
	Monarch Beach	1/29/2003	1/31/2003	2	0.11
2/21/2003		2/24/2003	3	0.28	
7/30/2003		8/6/2003	7	0.4	
10/10/2003		10/31/2003	21	1.19	
Newport Bay	11/25/2003	11/30/2003	5	0.28	
	1/1/2003	12/31/2003	364	20.68	
Newport Bay	1/1/2003	12/31/2003	364	20.68	
	1/1/2003	12/31/2003	364	5.17	
	1/7/2003	1/9/2003	2	0.02	
	1/7/2003	1/9/2003	2	0.11	
	1/7/2003	1/9/2003	2	0.02	
	1/7/2003	1/9/2003	2	0.02	
	1/7/2003	1/9/2003	2	0.06	
	1/7/2003	1/9/2003	2	0.06	
	1/7/2003	1/9/2003	2	0.06	
	1/7/2003	1/9/2003	2	0.06	
	1/7/2003	1/9/2003	2	0.11	
	1/7/2003	1/9/2003	2	0.11	
	1/14/2003	1/16/2003	2	0.11	
	1/14/2003	1/16/2003	2	0.06	
	1/14/2003	1/16/2003	2	0.02	
	1/14/2003	1/16/2003	2	0.06	
	1/22/2003	1/25/2003	3	0.03	
	1/28/2003	2/4/2003	7	0.08	
	2/4/2003	3/4/2003	28	0.8	
	2/7/2003	2/8/2003	1	0.03	
	2/7/2003	2/11/2003	4	0.23	
	2/19/2003	2/21/2003	2	0.03	
	3/4/2003	5/1/2003	58	3.3	
	3/11/2003	3/13/2003	2	0.06	
	3/25/2003	3/28/2003	3	0.04	
	3/25/2003	3/28/2003	3	0.04	
	3/25/2003	3/28/2003	3	0.03	
	3/25/2003	3/28/2003	3	0.17	
	3/25/2003	3/28/2003	3	0.17	
	4/8/2003	4/10/2003	2	0.06	
	4/8/2003	4/10/2003	2	0.03	
	4/8/2003	4/10/2003	2	0.11	
	4/22/2003	4/24/2003	2	0.03	
	4/22/2003	4/24/2003	2	0.11	
	4/22/2003	4/26/2003	4	0.11	

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source	
Newport Bay	4/22/2003	4/24/2003	2	0.03			
	5/13/2003	5/14/2003	1	0.03			
	5/20/2003	5/22/2003	2	0.03			
	6/10/2003	6/14/2003	4	0.23			
	7/2/2003	7/4/2003	2	0.11			
	7/8/2003	7/12/2003	4	0.05			
	7/8/2003	7/10/2003	2	0.06			
	7/15/2003	8/20/2003	36	0.51			
	7/15/2003	8/5/2003	21	0.24			
	7/22/2003	7/24/2003	2	0.02			
	7/22/2003	7/24/2003	2	0.02			
	7/29/2003	8/5/2003	7	0.4			
	8/5/2003	8/7/2003	2	0.06			
	8/5/2003	8/7/2003	2	0.11			
	8/5/2003	8/7/2003	2	0.02			
	8/12/2003	8/20/2003	8	0.09			
	8/12/2003	8/14/2003	2	0.06			
	8/22/2003	8/28/2003	6	0.34			
	8/22/2003	9/23/2003	32	1.82			
	8/22/2003	8/25/2003	3	0.03			
	9/3/2003	9/9/2003	6	0.34			
	9/9/2003	9/13/2003	4	0.23			
	9/9/2003	9/11/2003	2	0.03			
	9/9/2003	9/11/2003	2	0.02			
	9/16/2003	9/23/2003	7	0.4			
	9/23/2003	9/25/2003	2	0.11			
	9/23/2003	9/25/2003	2	0.02			
	9/23/2003	9/25/2003	2	0.11			
	9/23/2003	9/25/2003	2	0.03			
	9/30/2003	10/2/2003	2	0.11			
	10/7/2003	10/9/2003	2	0.02			
	11/13/2003	11/15/2003	2	0.02			
	11/13/2003	11/15/2003	2	0.06			
	11/25/2003	11/30/2003	5	0.07			
	11/25/2003	11/27/2003	2	0.02			
	12/23/2003	12/25/2003	2	0.03			
	12/23/2003	12/25/2003	2	0.02			
	12/23/2003	12/25/2003	2	0.02			
	12/30/2003	12/31/2003	1	0.06			
	Newport Beach	1/1/2003	1/18/2003	17	0.19		
		1/1/2003	1/18/2003	17	0.19		
		1/5/2003	1/8/2003	3	0.3		
		1/17/2003	1/19/2003	2	0.11		
		1/22/2003	1/23/2003	1	0.06		
		1/24/2003	2/2/2003	9	0.1		
		1/24/2003	1/31/2003	7	0.08		
		1/29/2003	1/31/2003	2	0.11		
1/30/2003		2/4/2003	5	0.47			
1/31/2003		2/2/2003	2	1.5			
2/5/2003		2/6/2003	1	0.06			
2/6/2003		4/25/2003	78	0.89			
2/6/2003		2/8/2003	2	0.02			
2/19/2003		2/21/2003	2	3.06			
2/21/2003		2/23/2003	2	0.11			
2/24/2003		3/4/2003	8	1.7			
3/6/2003		3/8/2003	2	0.02			
3/7/2003		3/9/2003	2	0.11			
3/11/2003		3/12/2003	1	0.06			
3/13/2003		3/25/2003	12	0.87			
3/20/2003		4/30/2003	41	0.47			
4/21/2003		4/22/2003	1	0.06			
5/22/2003		5/24/2003	2	0.25			
5/30/2003		5/31/2003	1	0.01			
6/4/2003		6/5/2003	1	0.06			
6/6/2003		6/8/2003	2	0.11			
6/6/2003		6/8/2003	2	0.11			

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source	
Newport Beach	6/17/2003	6/18/2003	1	0.06			
	6/26/2003	7/3/2003	7	0.08			
	7/2/2003	7/3/2003	1	0.06			
	7/3/2003	7/4/2003	1	0.06			
	7/10/2003	8/29/2003	50	0.57			
	7/16/2003	7/17/2003	1	0.06			
	7/27/2003	7/29/2003	2	0.11			
	7/27/2003	7/29/2003	2	0.11			
	8/10/2003	8/13/2003	3	0.17			
	8/14/2003	8/16/2003	2	0.11			
	8/14/2003	8/16/2003	2	0.11			
	10/23/2003	12/31/2003	69	0.78			
	11/13/2003	11/20/2003	7	0.08			
	11/21/2003	11/26/2003	5	11.2			
	12/5/2003	12/7/2003	2	0.11			
	12/21/2003	12/23/2003	2	0.11			
	12/30/2003	12/31/2003	1	0.06			
	12/30/2003	12/31/2003	1	0.01			
	Poche County Beach	1/17/2003	4/30/2003	103	19.51		
		6/11/2003	6/14/2003	3	0.57		
7/2/2003		7/12/2003	10	0.57			
7/15/2003		7/16/2003	1	0.06			
7/22/2003		8/29/2003	38	3.35			
9/9/2003		9/12/2003	3	0.17			
9/30/2003		10/3/2003	3	0.57			
11/12/2003		11/22/2003	10	0.57			
Salt Creek County Beach Park		1/3/2003	1/4/2003	1	0.06		
		7/23/2003	7/25/2003	2	0.11		
	10/10/2003	10/14/2003	4	0.23			
	10/21/2003	10/22/2003	1	0.06			
	10/24/2003	10/29/2003	5	0.28			
	12/31/2003	12/31/2003	1	0.06			
San Clemente City Beach	1/1/2003	1/8/2003	7	0.4			
	1/15/2003	1/17/2003	2	0.11			
	1/15/2003	1/19/2003	4	0.23			
	1/17/2003	1/23/2003	6	0.34			
	1/21/2003	3/8/2003	46	2.61			
	2/5/2003	3/15/2003	38	2.16			
	2/5/2003	3/8/2003	31	1.76			
	3/21/2003	3/23/2003	2	0.11			
	8/1/2003	8/3/2003	2	0.28			
	8/19/2003	8/21/2003	2	0.11			
	9/19/2003	9/21/2003	2	0.11			
	10/28/2003	10/29/2003	1	0.06			
	11/21/2003	11/25/2003	4	0.23			
	Seal Beach/Surfside	2/20/2003	2/25/2003	5	0.28		
		3/1/2003	3/6/2003	5	0.28		
3/20/2003		3/22/2003	2	0.11			
3/25/2003		3/27/2003	2	0.19			
5/30/2003		5/31/2003	1	0.06			
7/17/2003		7/19/2003	2	0.11			
9/18/2003		9/20/2003	2	0.11			
11/13/2003		11/15/2003	2	0.11			
11/13/2003		11/15/2003	2	0.11			
11/22/2003		11/25/2003	3	0.17			
11/25/2003		11/27/2003	2	0.19			
12/23/2003		12/25/2003	2	0.11			
12/30/2003		12/31/2003	1	0.19			

**Number of Beach Postings: 312**  
**Sum of Days: 3919**  
**Sum of Beach Mile Days: 641.8**

# San Diego County Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source	
Border Field State Park	1/24/2003	2/11/2003	18	1.02	UNKNOWN	UNKNOWN	
	6/19/2003	6/25/2003	6	1.14	UNKNOWN	UNKNOWN	
Cardiff State Beach	2/13/2003	3/10/2003	25	1.42	UNKNOWN	UNKNOWN	
	3/19/2003	3/24/2003	5	0.28	UNKNOWN	UNKNOWN	
	3/26/2003	3/28/2003	2	0.11	UNKNOWN	UNKNOWN	
	4/15/2003	4/23/2003	8	0.45	UNKNOWN	UNKNOWN	
	7/18/2003	7/23/2003	5	0.28	UNKNOWN	UNKNOWN	
Carlsbad municipal beach	4/18/2003	4/22/2003	4	0.23	LAGOON_OPE	DRY_CREEK_RIV	
	7/14/2003	7/16/2003	2	0.11	LAGOON_OPE	DRY_CREEK_RIV	
	11/6/2003	11/8/2003	2	0.11	LAGOON_OPE	DRY_CREEK_RIV	
Coronado municipal beach, other	6/11/2003	6/13/2003	2	0.11	UNKNOWN	UNKNOWN	
Del Mar municipal beach, other	4/14/2003	4/25/2003	11	1.25	LAGOON_OPE	DRY_CREEK_RIV	
	8/28/2003	8/30/2003	2	0.11	LAGOON_OPE	DRY_CREEK_RIV	
	9/5/2003	9/9/2003	4	0.45	LAGOON_OPE	DRY_CREEK_RIV	
Fletcher Cove	1/17/2003	1/19/2003	2	0.11	PUMP_STATIO	SEWAGE	
	6/10/2003	6/12/2003	2	0.11	UNKNOWN	UNKNOWN	
Imperial Beach municipal beach, other	1/22/2003	1/24/2003	2	0.11	UNKNOWN	UNKNOWN	
	1/22/2003	1/24/2003	2	0.11	UNKNOWN	UNKNOWN	
	2/23/2003	2/24/2003	1	0.06	UNKNOWN	UNKNOWN	
	5/23/2003	5/25/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/14/2003	8/15/2003	1	0.06	UNKNOWN	UNKNOWN	
Kellogg St.(Lawrence)	9/3/2003	9/5/2003	2	0.11	UNKNOWN	UNKNOWN	
	9/12/2003	9/13/2003	1	0.06	UNKNOWN	UNKNOWN	
La Jolla Cove	4/10/2003	4/11/2003	1	0.06	UNKNOWN	UNKNOWN	
	8/29/2003	8/30/2003	1	0.06	UNKNOWN	UNKNOWN	
La Jolla Shores Beach	4/10/2003	4/11/2003	1	0.06	UNKNOWN	UNKNOWN	
	7/10/2003	7/12/2003	2	0.11			
	7/10/2003	7/12/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/27/2003	8/29/2003	2	0.11	UNKNOWN	UNKNOWN	
	9/5/2003	9/7/2003	2	0.23	WATER_LINE_	WET_URBAN_RU	
	9/11/2003	9/13/2003	2	0.11	UNKNOWN	UNKNOWN	
	9/15/2003	9/20/2003	5	0.28	WATER_LINE_	WET_URBAN_RU	
Ladera Street	6/10/2003	6/12/2003	2	0.11	UNKNOWN	UNKNOWN	
	10/24/2003	10/30/2003	6	0.34	UNKNOWN	UNKNOWN	
Mission Bay, Campland On The Bay	1/1/2003	4/3/2003	92	5.23	UNKNOWN	UNKNOWN	
	4/18/2003	5/1/2003	13	0.74	UNKNOWN	UNKNOWN	
	6/26/2003	6/27/2003	1	0.06	UNKNOWN	UNKNOWN	
	7/8/2003	7/10/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/6/2003	8/8/2003	2	0.11	UNKNOWN	UNKNOWN	
	9/11/2003	9/12/2003	1	0.06	UNKNOWN	UNKNOWN	
	10/1/2003	10/3/2003	2	0.11	UNKNOWN	UNKNOWN	
	10/31/2003	11/1/2003	1	0.06			
	11/7/2003	11/26/2003	19	1.08	UNKNOWN	UNKNOWN	
	12/5/2003	12/13/2003	8	0.45	UNKNOWN	UNKNOWN	
	4/18/2003	4/22/2003	4	0.23	UNKNOWN	UNKNOWN	
	Mission Bay, Crown Point Shores	2/27/2003	3/6/2003	7	0.4	UNKNOWN	UNKNOWN
	Mission Bay, De Anza Cove	3/21/2003	3/26/2003	5	0.28	UNKNOWN	UNKNOWN
4/10/2003		4/11/2003	1	0.06	UNKNOWN	UNKNOWN	
4/18/2003		5/1/2003	13	0.74	UNKNOWN	UNKNOWN	
7/8/2003		7/10/2003	2	0.11	UNKNOWN	UNKNOWN	
8/4/2003		8/13/2003	9	0.51	UNKNOWN	UNKNOWN	
Mission Bay, Fanuel Park	9/1/2003	9/4/2003	3	0.17	UNKNOWN	UNKNOWN	
	1/15/2003	1/18/2003	3	0.28			
	10/7/2003	10/16/2003	9	0.51	UNKNOWN	UNKNOWN	
	10/31/2003	11/5/2003	5	0.28			
Beach Name	Date	Date	Days	BMDS	Cause	Source	

Appendix C - 2003 County-specific Beach Postings

Beach Name	Posted	Opened	Posted	BMDS	Cause	Source	
Mission Bay, Leisure Lagoon	4/3/2003	4/5/2003	2	0.11	UNKNOWN	UNKNOWN	
	4/18/2003	4/22/2003	4	0.23	UNKNOWN	UNKNOWN	
	5/27/2003	5/29/2003	2	0.11	UNKNOWN	UNKNOWN	
	6/9/2003	6/10/2003	1	0.06	UNKNOWN	UNKNOWN	
	6/23/2003	6/25/2003	2	0.11	UNKNOWN	UNKNOWN	
	7/6/2003	7/10/2003	4	0.23	UNKNOWN	UNKNOWN	
	7/14/2003	7/16/2003	2	0.11	UNKNOWN	UNKNOWN	
	7/21/2003	7/23/2003	2	0.11	UNKNOWN	UNKNOWN	
	7/28/2003	7/30/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/4/2003	8/6/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/11/2003	8/13/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/19/2003	8/20/2003	1	0.06	UNKNOWN	UNKNOWN	
	9/1/2003	9/4/2003	3	0.17	UNKNOWN	UNKNOWN	
	Mission Bay, Mariners Basin	5/27/2003	5/29/2003	2	0.11	UNKNOWN	UNKNOWN
		6/2/2003	6/5/2003	3	0.34	UNKNOWN	UNKNOWN
6/19/2003		6/20/2003	1	0.06	UNKNOWN	UNKNOWN	
6/30/2003		7/2/2003	2	0.11	UNKNOWN	UNKNOWN	
7/6/2003		7/10/2003	4	0.45	UNKNOWN	UNKNOWN	
7/21/2003		7/23/2003	2	0.11	UNKNOWN	UNKNOWN	
8/5/2003		8/8/2003	3	0.34	UNKNOWN	UNKNOWN	
8/18/2003		8/20/2003	2	0.23	UNKNOWN	UNKNOWN	
8/26/2003		8/28/2003	2	0.11	UNKNOWN	UNKNOWN	
9/1/2003		9/4/2003	3	0.17	UNKNOWN	UNKNOWN	
9/11/2003		9/12/2003	1	0.06	UNKNOWN	UNKNOWN	
9/17/2003		9/19/2003	2	0.11	UNKNOWN	UNKNOWN	
10/1/2003		10/7/2003	6	0.34	UNKNOWN	UNKNOWN	
10/31/2003		11/1/2003	1	0.06			
Mission Bay, north pacific passage		2/21/2003	2/22/2003	1	0.06	UNKNOWN	WET_URBAN_RU
	2/27/2003	3/14/2003	15	0.85	UNKNOWN	WET_URBAN_RU	
Moonlight Beach	4/18/2003	4/22/2003	4	0.45	RAIN	WET_URBAN_RU	
	6/3/2003	6/4/2003	1	0.06	UNKNOWN	UNKNOWN	
	8/22/2003	8/23/2003	1	0.06	RAIN	WET_URBAN_RU	
	10/25/2003	10/28/2003	3	0.17	UNKNOWN	UNKNOWN	
	12/11/2003	12/15/2003	4	0.23	UNKNOWN	UNKNOWN	
Ocean Beach	4/3/2003	4/4/2003	1	0.09	UNKNOWN	UNKNOWN	
	6/20/2003	6/22/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/26/2003	8/27/2003	1	0.06	UNKNOWN	UNKNOWN	
	9/3/2003	9/4/2003	1	0.06	RAIN	WET_URBAN_RU	
	10/9/2003	10/10/2003	1	0.11	UNKNOWN	UNKNOWN	
	10/16/2003	10/20/2003	4	0.45	UNKNOWN	UNKNOWN	
	10/16/2003	10/20/2003	4	0.45	UNKNOWN	UNKNOWN	
	11/14/2003	11/19/2003	5	0.28	UNKNOWN	UNKNOWN	
	Oceanside municipal beach, other	2/25/2003	3/6/2003	9	0.34	UNKNOWN	UNKNOWN
		4/15/2003	4/18/2003	3	0.17	LAGOON_OPE	WET_CREEK_RI
4/15/2003		4/18/2003	3	0.17	UNKNOWN	UNKNOWN	
4/15/2003		4/18/2003	3	0.17	LAGOON_OPE	DRY_CREEK_RIV	
4/15/2003		4/18/2003	3	0.17	LAGOON_OPE	WET_CREEK_RI	
4/16/2003		4/18/2003	2	0.11	UNKNOWN	UNKNOWN	
4/16/2003		4/18/2003	2	0.11	UNKNOWN	UNKNOWN	
5/15/2003		5/16/2003	1	0.06	UNKNOWN	UNKNOWN	
6/10/2003		6/18/2003	8	0.45	LAGOON_OPE	DRY_CREEK_RIV	
8/20/2003		8/22/2003	2	0.11	UNKNOWN	UNKNOWN	
9/16/2003		9/19/2003	3	0.17	UNKNOWN	UNKNOWN	
9/23/2003		9/25/2003	2	0.11	UNKNOWN	UNKNOWN	
10/8/2003		10/13/2003	5	0.28	LAGOON_OPE	DRY_CREEK_RIV	
11/14/2003		11/15/2003	1	0.06	LAGOON_OPE	WET_CREEK_RI	
11/14/2003		11/15/2003	1	0.06	LAGOON_OPE	WET_CREEK_RI	
Pacific Beach	6/20/2003	6/25/2003	5	0.28	UNKNOWN	UNKNOWN	
	6/25/2003	6/27/2003	2	0.11	UNKNOWN	UNKNOWN	
	7/2/2003	7/4/2003	2	0.11	UNKNOWN	UNKNOWN	
	7/10/2003	9/5/2003	57	3.24	UNKNOWN	UNKNOWN	
	9/16/2003	9/17/2003	1	0.06	UNKNOWN	UNKNOWN	
	9/25/2003	10/9/2003	14	0.8	UNKNOWN	UNKNOWN	
	10/16/2003	10/24/2003	8	0.45	UNKNOWN	UNKNOWN	
San Diego Bay	1/24/2003	1/25/2003	1	0.06	UNKNOWN	UNKNOWN	
	4/4/2003	4/5/2003	1	0.06	UNKNOWN	UNKNOWN	



## Appendix C - 2003 County-specific Beach Postings

San Diego Bay	5/1/2003	5/3/2003	2	0.11	UNKNOWN	UNKNOWN
	5/31/2003	6/1/2003	1	0.06	UNKNOWN	UNKNOWN
	8/20/2003	8/22/2003	2	0.11	UNKNOWN	UNKNOWN
	9/19/2003	9/23/2003	4	0.23	UNKNOWN	UNKNOWN
	9/26/2003	9/28/2003	2	0.11	UNKNOWN	UNKNOWN
	10/10/2003	10/12/2003	2	0.11	UNKNOWN	UNKNOWN
	10/24/2003	10/26/2003	2	0.11	UNKNOWN	UNKNOWN
San Onofre State Beach	5/9/2003	5/15/2003	6	0.34	UNKNOWN	UNKNOWN
	8/8/2003	8/13/2003	5	0.28	UNKNOWN	UNKNOWN
Santa Clara Pl., north side	1/1/2003	1/14/2003	13	0.74	UNKNOWN	UNKNOWN
	2/21/2003	2/22/2003	1	0.06	UNKNOWN	UNKNOWN
	4/18/2003	4/22/2003	4	0.23	UNKNOWN	UNKNOWN
	7/1/2003	7/4/2003	3	0.17	UNKNOWN	UNKNOWN
	7/21/2003	7/23/2003	2	0.11	UNKNOWN	UNKNOWN
	7/29/2003	8/1/2003	3	0.17	UNKNOWN	UNKNOWN
	7/29/2003	7/31/2003	2	0.3	UNKNOWN	UNKNOWN
	8/13/2003	8/15/2003	2	0.11	UNKNOWN	UNKNOWN
	9/4/2003	9/6/2003	2	0.11	UNKNOWN	UNKNOWN
	Shelter Island	1/1/2003	2/4/2003	34	1.93	UNKNOWN
2/20/2003		3/21/2003	29	1.65	UNKNOWN	UNKNOWN
4/4/2003		5/3/2003	29	1.65	UNKNOWN	UNKNOWN
6/20/2003		6/22/2003	2	0.11	UNKNOWN	UNKNOWN
11/26/2003		12/3/2003	7	0.4	UNKNOWN	UNKNOWN
Silver Strand State Beach	7/18/2003	7/23/2003	5	0.28	UNKNOWN	UNKNOWN
Solana Beach City Beaches	2/19/2003	2/20/2003	1	0.06	UNKNOWN	UNKNOWN
South Carlsbad State Beach	7/1/2003	7/3/2003	2	0.11	UNKNOWN	UNKNOWN
Spanish Landing Tecolote Creek outlet	1/10/2003	1/19/2003	9	0.85	UNKNOWN	UNKNOWN
	4/3/2003	4/5/2003	2	0.11	UNKNOWN	UNKNOWN
	4/18/2003	5/1/2003	13	0.74	UNKNOWN	UNKNOWN
	7/21/2003	7/23/2003	2	0.11	UNKNOWN	UNKNOWN
	8/11/2003	8/13/2003	2	0.11	UNKNOWN	UNKNOWN
	8/18/2003	8/20/2003	2	0.11	UNKNOWN	UNKNOWN
	9/1/2003	9/4/2003	3	0.17	UNKNOWN	UNKNOWN
	8/14/2003	8/15/2003	1	0.06	UNKNOWN	UNKNOWN
	12/17/2003	12/19/2003	2	0.98	UNKNOWN	UNKNOWN
	Torrey Pines State Beach	2/8/2003	2/19/2003	11	0.63	UNKNOWN
3/19/2003		3/25/2003	6	0.34	UNKNOWN	UNKNOWN
4/17/2003		4/22/2003	5	0.28	UNKNOWN	UNKNOWN
11/19/2003		12/1/2003	12	0.68	UNKNOWN	DRY_URBAN_RU
Tourmaline Surfing Park Visitor's Center, near storm drain	2/19/2003	3/7/2003	16	0.91	UNKNOWN	UNKNOWN
	1/1/2003	4/10/2003	96	5.45	UNKNOWN	UNKNOWN
	4/22/2003	4/24/2003	2	0.11	UNKNOWN	UNKNOWN
	5/8/2003	5/15/2003	7	0.4	UNKNOWN	UNKNOWN
	5/27/2003	5/29/2003	2	0.11		
	7/14/2003	7/16/2003	2	0.11	UNKNOWN	UNKNOWN
	10/31/2003	11/1/2003	1	0.06		

**Number of Beach Postings: 167**  
**Sum of Days: 952**  
**Sum of Beach Mile Days: 58.47**

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118



DRAFT  
2003  
California Beach Advisory Report

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
STATE WATER RESOURCES CONTROL BOARD

July 2004

## TABLE OF CONTENTS

	Page
LIST OF TABLES.....	i
LIST OF FIGURES.....	ii
EXECUTIVE SUMMARY.....	1
INTRODUCTION.....	2
Economic Impact of California Beaches.....	2
Sources of Beach Contamination.....	2
Roll of the Local Health Officers.....	4
Beach Closure, Beach Posting (Warning Sign), and Rain Advisory.....	5
Beach-Mile Days (BMD).....	5
The Future of Beach Water Quality.....	6
BEACH POSTING AND CLOSURE INFORMATION FOR 2003.....	7
Beach Closures.....	7
Beach Postings.....	9
APPENDIX A: Statewide Summary Tables of Closures and Postings.....	A-1
APPENDIX B: 2003 County-specific Beach Closures.....	B-1
APPENDIX C: 2003 County-specific Beach Postings.....	C-1

## LIST OF TABLES

	Page
1. Waterborne Pathogens, Diseases They Cause, and the Effects on Exposed Populations.....	2
2. California Department of Health Services Bacteriological Standards for Water-Contact Sports.....	4

## LIST OF FIGURES

	Page
1. Statewide Beach Closure Totals for 2000 – 2003.....	8
2. BMD Closures by County Displayed Graphically North to South.....	9
3. Statewide Beach Posting Totals for 2000 – 2003.....	10
4. BMD Posted by County Displayed Graphically North to South.....	11

## EXECUTIVE SUMMARY

This report, required by California Health and Safety Code Section 115910(d), summarizes the beach closure and posting information submitted by local health officers for the year 2003. For perspective, this beach data is also displayed for four consecutive years. The data is presented using three parameters; the number of closure or posting events, the total number of days the advisories were issued, and the total Beach Mile-Days (BMD) of impairment. This is the fourth annual beach closure and posting report since the California Department of Health Services (DHS) adopted emergency regulations to implement AB 411<sup>1</sup>. AB 411 requires more consistent monitoring statewide, beginning in 2000, and requires the use of more sensitive bacterial indicators than had been used in the past. These changes resulted in a substantial increase in the number of posting events than reported prior to 2000.

Statewide, the year 2003 data shows leveling in the number of closure events from a previous high in 2001. The number of closure days and closure BMD increased from 2002 levels, but not to previous 2001 highs. Statewide posting events and number of days posted increased in 2003, but the overall amount of impacted beach, measured by BMD, decreased. The beach posting/closure data, tabulated by county, are provided in Appendix A.

Many projects aimed at improving coastal water quality are currently underway as part of the California Clean Beaches Initiative (CBI). These projects are funded with Proposition 13 bond funds, totaling approximately \$32 million (Fiscal Year (FY) 2001-02). Additionally, the FY 2002-03 budget includes \$46 million in Proposition 40 funds to continue the funding for CBI projects. Improvements in beach water quality have already been observed in the few Proposition 13 CBI projects that are nearing completion and have submitted draft final documents. It is expected that these, as well as future projects, will have a continuing positive effect on the state's coastal water quality and reduce the health risk to the public at beaches. An annual January report to the Legislature required by the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Proposition 50) provides more information on the use of environmental indicators to administer the bond funded beach projects of the CBI.

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<sup>1</sup> In 1997, AB 411 (Chapter 765, Statutes of 1997,) mandated that beaches with storm drains that discharge during dry weather and visited by more than 50,000 people per year be monitored at least weekly from April 1 through October 31 by the local health officer or environmental health agency. Beginning in July 1999, DHS regulations implementing AB 411 required that local officials must post beaches that exceed standards set by the DHS with warning signs. Beaches suspected of being contaminated with sewage must be immediately closed until bacterial monitoring indicates the waters are safe for human contact.

## INTRODUCTION

### Economic Impact of California Beaches

California's coastline is one of its most important natural features. It extends over 1,000 miles from the rocky cliffs of the north to the sandy, sun-drenched beaches in the south. The coastal areas represent a desirable place to live, and approximately 80 percent of California's 36 million residents live within a 30-mile drive of its coastline. Millions of visitors come to view the beauty of the California coastline and partake in the recreational opportunities the coast provides. California's beaches generate \$1 billion per year in direct revenue. When indirect benefits are added, California's beaches contribute \$73 billion to the national economy and generate 883,000 jobs nationwide. (King, Philip, *The Fiscal Impact of Beaches in California*, Public Research Institute, San Francisco State University, September 1999.)

Increasingly, the public is becoming concerned about beach closures, swimmers' illnesses, and the lack of public confidence due to the up and down nature of posted warning signs. When a beach is closed due to contamination, the economic effect can be devastating to local business owners.

### Sources of Beach Contamination

A 1996 epidemiological study sponsored by the Santa Monica Bay Restoration Project and partially funded by the State Water Resources Control Board (State Water Board) validated the cause and effect relationship between elevated levels of bacteria in beach water and health problems observed in exposed beachgoers. Pathogens in the water can potentially impact the health of beachgoers when they are exposed to the contaminated water through skin contact (swimming or surfing) or ingestion. Fever, flu-like symptoms, ear infection, respiratory illness, gastroenteritis, cryptosporidiosis, hepatitis, and other illnesses have been associated with waterborne pathogens. Table 1 lists a number of pathogenic bacteria, protozoa, and viruses; their observed effects on the exposed population; and the diseases commonly associated with them. Beach closures can also result from other events, such as syringes washing on shore or an oil spill.

**Table 1. Waterborne Pathogens, Diseases They Cause, and the Effects on Exposed Populations.**

PATHOGEN		DISEASE	EFFECTS
BACTERIA	<i>Escherichia coli</i> ( <i>enteropathogenic</i> )	Gastroenteritis	Vomiting, diarrhea, death in susceptible populations
	<i>Legionella pneumophila</i>	Legionellosis	Acute respiratory illness
	<i>Leptospira</i>	Leptospirosis	Jaundice, fever (Weil's disease)
	<i>Salmonella typhi</i>	Typhoid fever	High fever, diarrhea, ulceration of the small intestine
	<i>Salmonella</i>	Salmonellosis	Diarrhea, dehydration

	<i>Shigella</i>	Shigellosis	Bacillary dysentery
	<i>Vibrio cholerae</i>	Cholera	Extremely heavy diarrhea, dehydration
	<i>Yersinia enterocolitica</i>	Yersinosis	Diarrhea
PROTOZOANS	<i>Balantidium coli</i>	Balantidiasis	Diarrhea, dysentery
	<i>Cryptosporidium</i>	Cryptosporidiosis	Diarrhea
	<i>Entamoeba histolytica</i>	Amebiasis (amoebic dysentery)	Prolonged diarrhea with bleeding, abscesses of the liver and small intestine
	<i>Giardia lamblia</i>	Giardiasis	Mild to severe diarrhea, nausea, indigestion
	<i>Naegleria fowleri</i>	Amoebic meningoencephalitis	Fatal disease; inflammation of the brain
VIRUSES	Adenovirus (31 types)	Respiratory disease	
	Enterovirus (67 types, e.g., polio, echo, and Coxsackie viruses)	Gastroenteritis	Heart anomalies, meningitis
	Hepatitis A	Infectious hepatitis	Jaundice, fever
	Norwalk agent	Gastroenteritis	Vomiting, diarrhea
	Reovirus	Gastroenteritis	Vomiting, diarrhea
	Rotavirus	Gastroenteritis	Vomiting, diarrhea

There are three primary sources of beach water contamination:

#### **Sewage related contamination**

Beach closures are primarily caused by spills of untreated or partially treated sewage that makes its way into ocean waters primarily via the drains used to direct storm water away from streets. Untreated or partially treated sewage contains pathogens that pose the health related impacts noted in Table 1 above.

#### **Dry weather runoff**

Coastal water impairment also comes from the runoff flowing in dry weather from the land through storm drains and natural stream courses. Water that is not absorbed by the soil flows from streets, yards, gardens, open spaces, parking lots, animal yards, construction sites, roads, homeless camps and the like. It collects human and animal waste as it travels seaward and may contain high bacterial counts and viruses. Dry weather runoff is a significant source of impairment to California's beach waters during the summer heightened recreation season and a major source of the beach postings recorded in this report.

The ocean is the final deposition site for most land-based pollutants entering California's coastal watersheds. In addition to carry bacteria and virus, which are the focus of the current regulations for

protecting the public health of beachgoers, dry weather runoff may also be toxic to marine life, and can carry tons of garbage and silt that litter the ocean and beaches and kill or injure marine life.

**Stormwater runoff**

Rainwater flows off the land over and past all the same features as dry weather runoff; there is just more of it. The amount of water flowing during these events can contaminate large portions of the coastline. During rain events, local health officers issue general advisories, known as rain advisories, reminding people not to swim for 72 hours after rain events.

**Roll of Local Health Officers**

California law commonly referred to as AB 411 (Health and Safety Code section 115880 et. seq.) requires local health officers to conduct weekly bacterial testing between April 1 and October 31 of waters adjacent to public beaches which have more than 50,000 visitors annually and are near storm drains which flow in the summer. Local health officers are required to test for three indicator organisms: total coliform, fecal coliform, and enterococci. If any one of these indicator organisms exceeds the standards (Table 2) established by the Department of Health Services (DHS), the county health officer is required to post warning signs at the beach and make a determination whether to close that beach in the case of extended exceedance. The law also requires the local health officer to establish a telephone hotline to inform the public of all beaches that are closed, posted, or otherwise restricted.

**Table 2. California Department of Health Services Bacteriological Standards for Water Contact Sports.**

SAMPLE TYPE	INDICATOR	STANDARD <sup>1</sup>
Single	Total Coliform <sup>2</sup>	1,000
	Total Coliform	10,000
	Fecal Coliform	400
	Enterococci	104
30-day Log Mean	Total Coliform	1,000
	Fecal Coliform	200
	Enterococci	35

<sup>1</sup> Number of organisms or colonies forming per 100 ml of water.

<sup>2</sup> If the ratio of fecal to total coliform exceeds 0.1.

Ten coastal counties (Sonoma, San Mateo, Santa Cruz, Monterey, San Luis Obispo, Santa Barbara, Ventura, Los Angeles, Orange, and San Diego) and one city (Long Beach) have reported they have beaches near storm drains that are visited by more than 50,000 people annually. These beaches have been tested regularly for bacterial contamination as required by law, and each month the counties and city submit the information on beach postings and closures to the State Water Board. Five additional counties (Del Norte, Humboldt, Mendocino, Marin, and San Francisco) were recently provided funding



for monitoring from a federal BEACH Act grant awarded to California and are expected to report data to the State Water Board.

### **Beach Closure, Beach Posting (Warning Sign), and Rain Advisory**

Local health officers may take three discrete actions based on beach water quality monitoring data, sewage spills, and storm events. Beaches or, more precisely, the ocean waters adjacent to the beaches, are posted with warning signs or are closed when water samples that are collected in the surf zone have indicator levels that exceed DHS standards. The beach is reopened to the public once further sampling confirms that bacteria levels no longer exceed the health standards.

A "Beach Closure" occurs as a result of a sewage spill or repeated exceedance of bacterial standards that appear to have a fecal bacterial signature from an unknown source. A closure is a notice to the public that the water is unsafe for contact and that there is a high risk of getting ill from swimming or other contact with the water. Closures are mandatory in the event of a known untreated sewage discharge reaching recreational waters; otherwise, the decision to close the beach is at the discretion of the local health officer. A beach closure does not necessarily result in the closure of the entire beach for recreational activities. In most cases, the ocean is closed to swimming and other water contact recreation while the beach area is open for sunbathing, volleyball, and other activities that do not involve water contact.

A "Beach Warning" commonly known as a "Posting" means that at least one bacterial standard has been exceeded, but there is no known source of human sewage. The posting of warning signs alerts the public to a possible risk of illness associated with water contact. Postings are most often placed on only part of the beach with 100 yards being the most typical length. The placement of signs may be short term when a single bacterial indicator standard is exceeded, or more permanent where monitoring indicates repeated contamination (e.g., from a storm drain). Warnings may also be posted where sources of contamination are identifiable and can be explained as not of human origin (e.g., resident marine mammals or seabirds).

A "Rain Advisory" is issued during and for a period of 72 hours after a storm event. Past experience has shown that indicator levels generally exceed state standards during and after storm events. The runoff generated by the storm event brings with it pollution from the surrounding urban and rural areas and with that pollution comes high numbers of indicator bacteria. Rain advisories are typically issued to the public through various media outlets (television, radio, newspapers, etc.). These advisories are preemptive in nature and may not be based on actual water quality data. There is inconsistency among counties regarding when and if they issue rain advisories, so those numbers are not included in this report.

### **Beach-Mile Days (BMD)**

BMD is used to express the magnitude of beach closure or posting incidents. It is the product of the number of days a beach is posted/closed and the length of impacted coastline (in miles). For example, if a particular beach is closed for five days and for a distance of 200 yards, the number of BMD for this incident is 0.57 (200 yards (0.000563 miles/yard) X 5 days).

BMD is a useful measure for comparing the health of beach waters from year to year. It is a more meaningful measure of comparison than the number of posting or closure events or the number of days of postings or closures. One of the reasons for deciding to use the BMD metric is California's beach naming convention. California has a history of identifying small segments of beach areas with locally recognized names. When the posting and closure data is reported by these beach names, the numbers are skewed because of so many beaches. The BMD metric solves this by standardizing the quantification of impact magnitude.

### **The Future of Beach Water Quality**

The prospect of solving beach water quality problems and eliminating the warning system of beach closures and postings is unfortunately not promising. This is because the cost of making fail-safe sewage and storm water collection and treatment systems is currently prohibitive. In addition, there are sources of bacterial contamination that are not and never will be under human control. These include sources such as marine mammals, shore birds, and other wildlife that exist in upstream areas. The goals, therefore, are to 1) reduce the number of closures and postings caused by controllable sources to the absolute minimum within the boundaries of technology and affordability, and 2) perfect a notification system of beach water quality information so beach users can make informed decisions about beach visitation and water contact.

## BEACH POSTING AND CLOSURE INFORMATION FOR 2003

Data collected in 2003 represents the fourth complete year of data collection since the onset of AB 411 in 1999. Local resources as well as state and federal assistance support this data collection. For the past 4 years, the Department of Health Services (DHS) distributed approximately \$1 million for monitoring among the eleven AB 411 counties. In 2003, the U.S. EPA, as part of its Beaches Environmental Assessment and Coastal Health Act<sup>2</sup> (BEACH Act) grant, provided an additional \$535,643. Of this, \$279,375 was used to augment the monitoring programs of the AB 411 counties. These augmentations were to be used on non-AB 411 beaches or for monitoring beaches outside of the AB 411 time frame (April 1 through October 31). The 5 non-AB 411 counties (Del Norte, Humboldt, Mendocino, Marin, and San Francisco) shared \$220,622 for beach water quality monitoring and public notification. U.S. EPA made an additional \$532,164 available for 2004 and a similar amount is expected to be available for 2005.

The information submitted by each local health officer to the State Water Board identifies the beach name, type of event (closure/posting/rain advisory), dates of the event, and length of affected coastline. A BMD calculation is associated with each non-permanent closure or posting event in the State Water Board database. A summary of local health officer reported numbers of closure and posting information in 2003 is provided in Appendix A.

### Beach Closures

Figure 1 shows a statewide summary of the closure events, duration, and BMD for 2000 through 2003. The table shows that while the statewide number of closure events stayed the same from 2002 to 2003, the number of closure days and BMD increased, but not to the recorded highs of 2002.

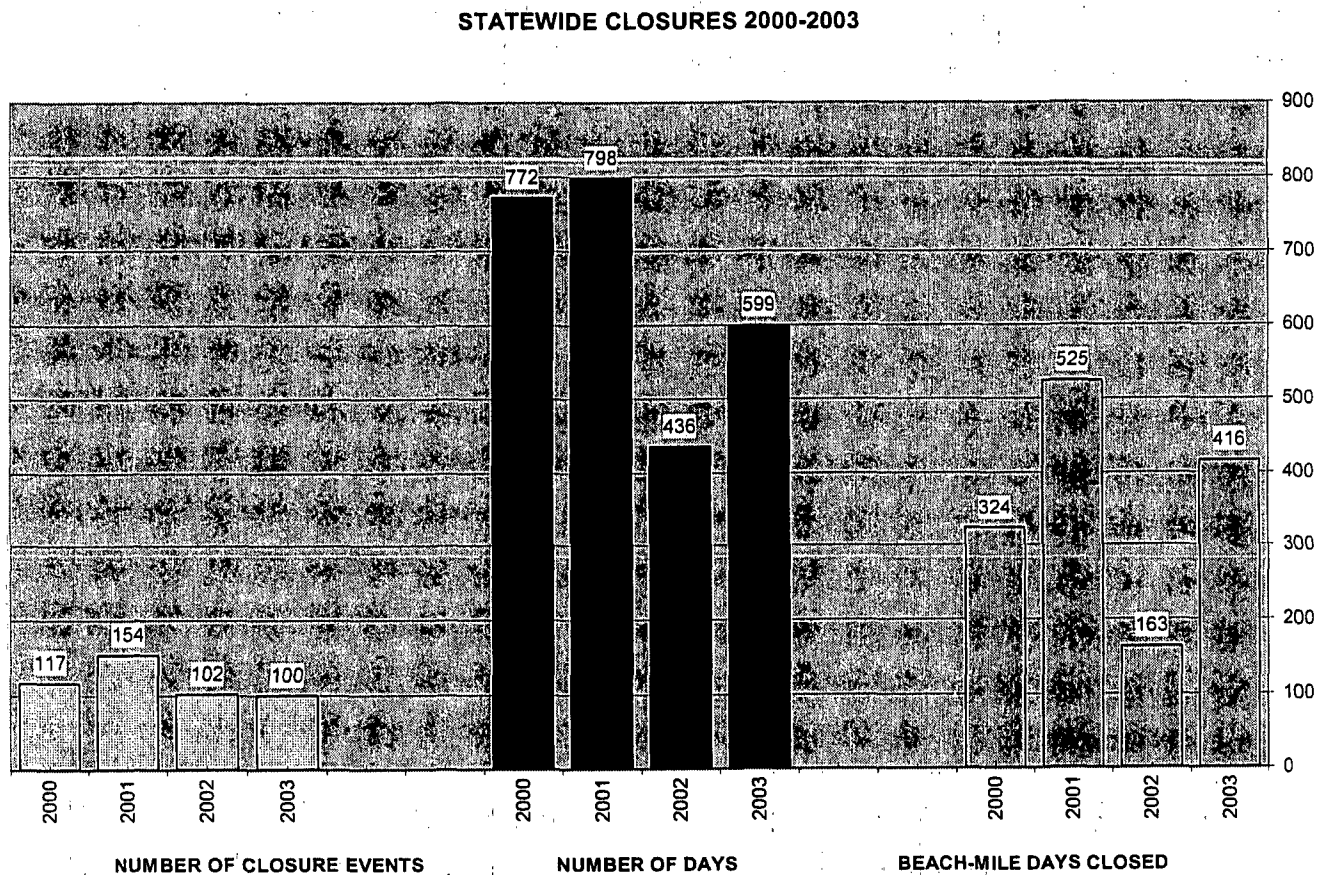
Figure 2 shows the 2000 through 2003 beach closure BMD data by county listed north to south. Increases occurred in Sonoma, San Francisco, Santa Cruz, and San Diego counties. The balance of the coastal counties remained the same or experienced a decrease in BMD closures in 2003.

San Diego County continues to account for over half of the BMD closures in the state, thus driving the statewide beach closure data. Nearly 90% of the total BMD closures in San Diego (287 of 324 BMD) were due to the urban runoff and sewage flowing in the Tijuana River from Mexico. This is a circumstance beyond the control of the county. These flows impact three beach areas: Tijuana Slough National Wildlife Refuge and Boarder Field State Park [with nearly half of the closure BMD due to the Tijuana River (135 BMD or 46% of 288.2)], Imperial Beach municipal beach (71 BMD, 24%), and Coronado municipal beach and Silver Strand State Beach (81 BMD, 28%).

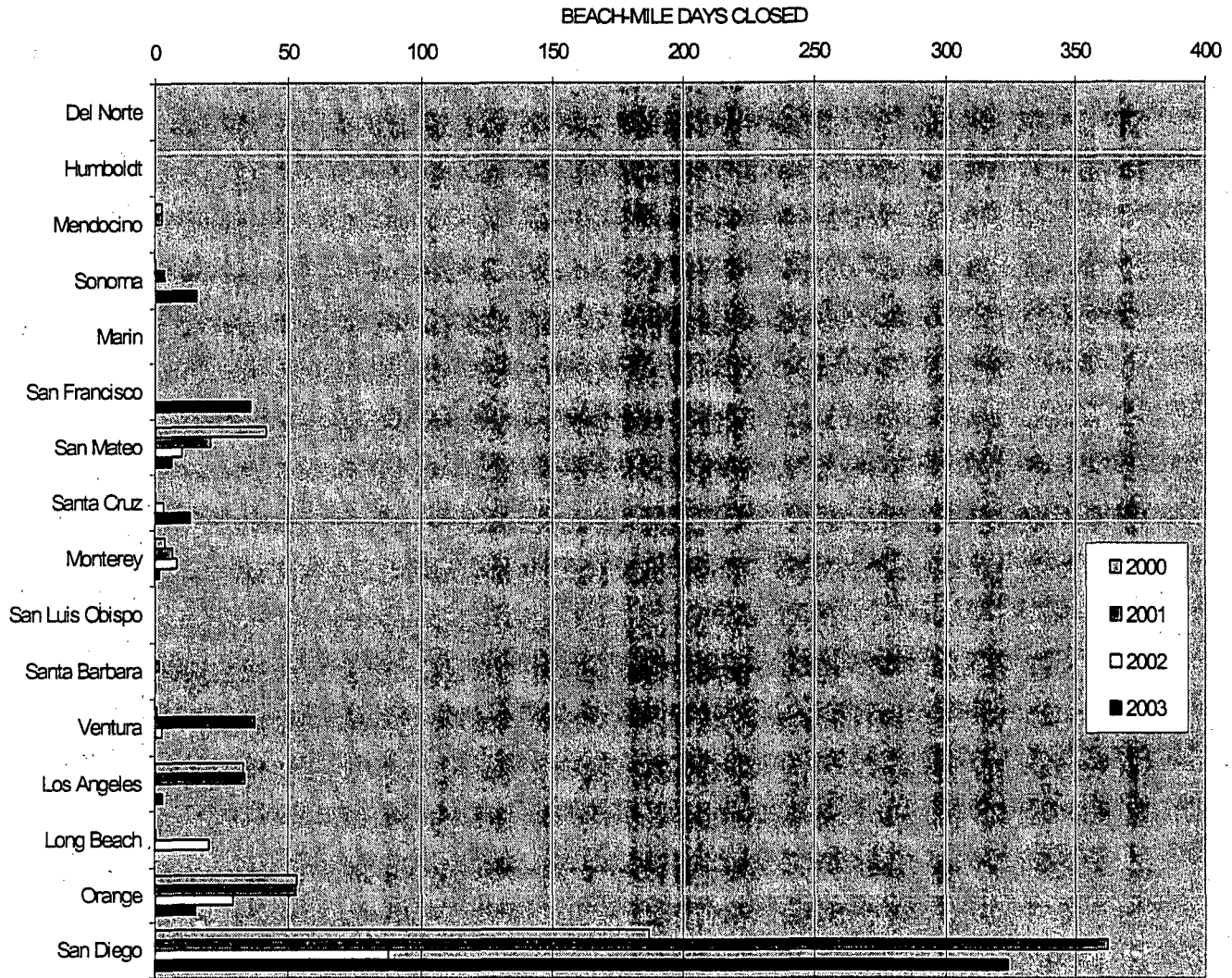
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<sup>2</sup> Enacted on October 10, 2000, the BEACH Act authorizes U.S. EPA to award grants to eligible states to develop and implement water quality monitoring programs at coastal recreational waters near beaches, and to provide support for the development and implementation of programs to reduce risk of exposure to disease-causing microorganisms.

**Figure 1. Statewide Beach Closure Totals for 2000 –2003**



**Figure 2. BMD Closures by County Displayed Geographically from North of South**



**Beach Postings**

Figure 3 shows a statewide summary of the number of posting events, days of posting, and BMD of posting for 2000 through 2003. Although the number of posting events went up from 2002 to 2003, and the number of days increased, the overall amount of area posted (BMD) decreased. We are unable to measure the extent to which the increased monitoring resulting from the U.S. EPA BEACH grant contributed to these increased postings, but logically there was a contribution.

**Figure 3. Statewide Beach Postings Totals for 2000 - 2003**

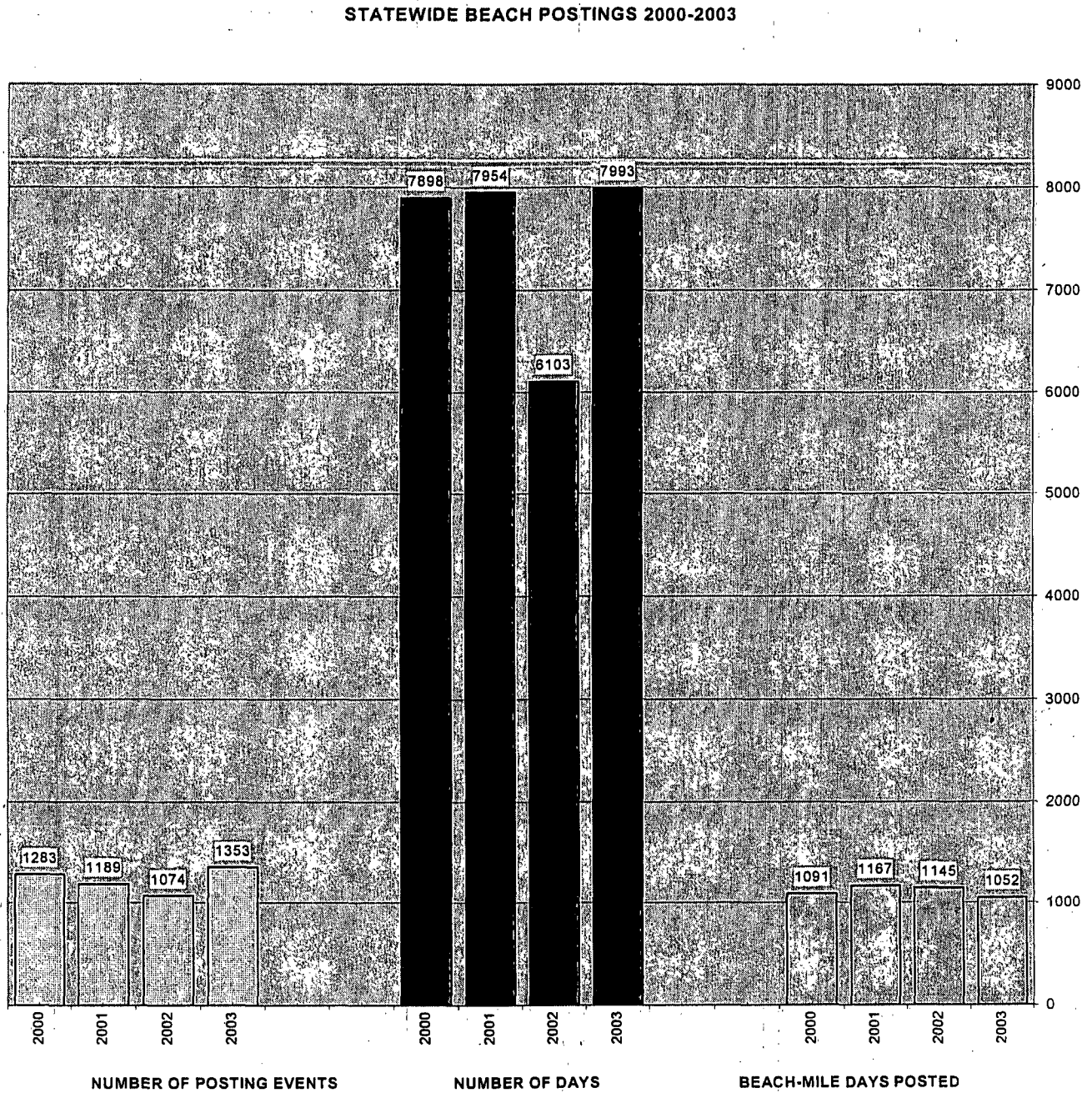
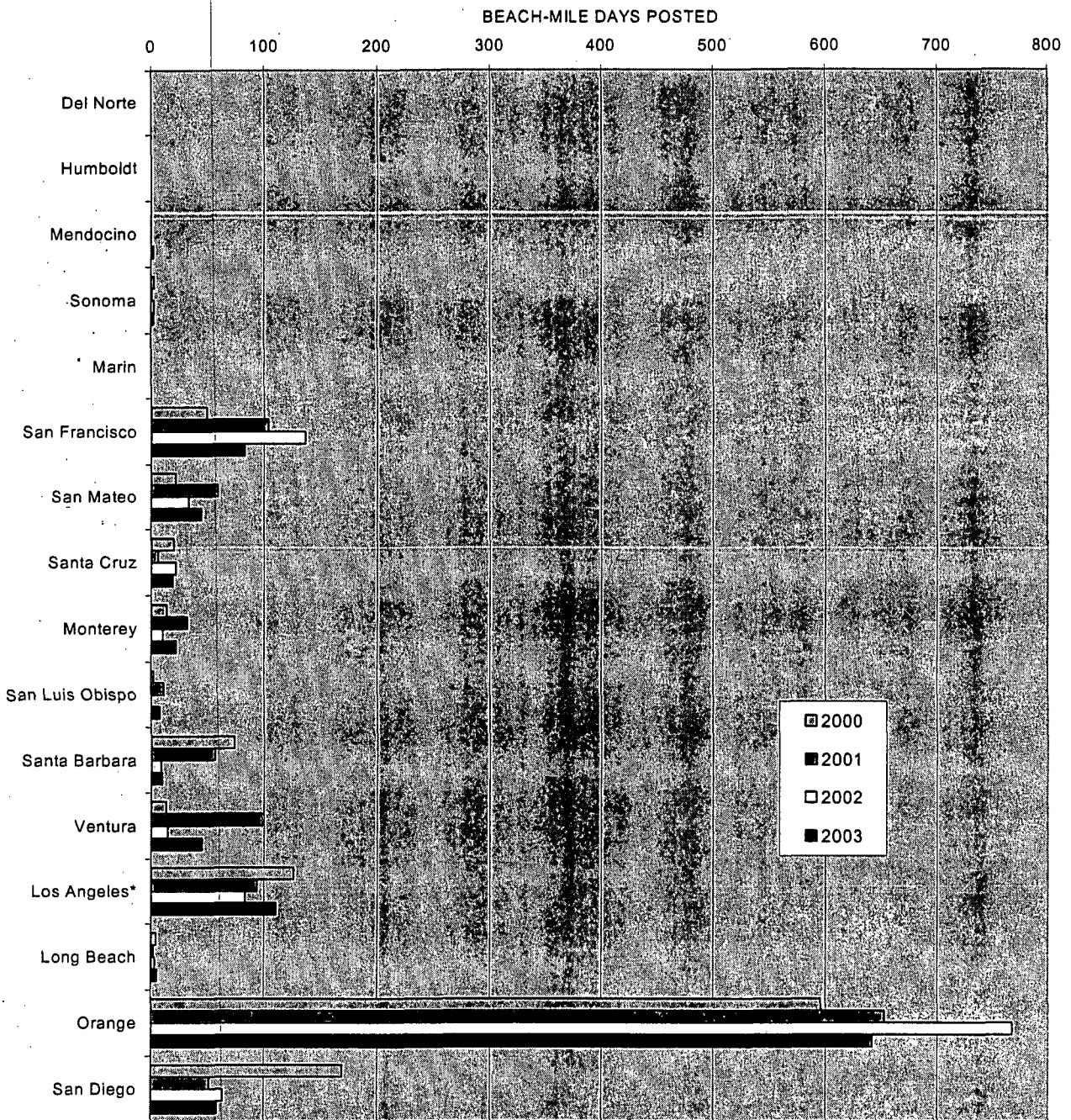


Figure 4 shows a summary of the posting BMD for each county for 2000 through 2003. Mendocino data is reported for the first time as a result of monitoring funded by the U.S. EPA BEACH grant. The remaining counties were split regarding increases or decreases in reported postings. San Mateo, Monterey, San Luis Obispo, Santa Barbara, Ventura, and Long Beach experienced increases. Sonoma,

**Figure 4. BMD Posted by County Displayed Geographically from North to South**



San Francisco, Santa Cruz, Orange, and San Diego experienced decreases. San Diego was the site of an epidemiological study that substantially increased the amount of reported monitoring in Mission Bay

(study results to be released at the end of 2004). Even with this additional monitoring, the posting BMD for San Diego decreased.

### **Data Usage**

Although there has been great improvement in consistency among counties with respect to how they monitor and report beach data, each county has unique circumstances that make comparisons with other counties difficult. Counties vary primarily in how much monitoring is done. More monitoring can result in more postings, and even closures. All counties with AB 411 beaches must monitor those beaches weekly. However, some beach sites are monitored daily or 5 times a week. Also, certain counties will collect and analyze follow-up samples when standards are exceeded, while other counties leave the posting in effect until the next weekly sample is taken. In addition, some counties utilize and report monitoring from other entities, like sanitation agencies, that occurs at other frequencies.

Other inconsistencies arise from variations in how standards are applied. For example, Orange County will issue a posting when the 30-day geometric mean standard for one of the bacterial indicators is exceeded while other counties only maintain an existing posting when the geometric mean is exceeded. Also, Orange County will post large expanses between sampling areas when samples tested from adjacent sampling stations exceed standards. Other counties only post an expanse either side of the sampling station, usually 100 yards. The State Water Board is continuing to work with the counties to improve consistency. Until greater consistency is achieved, the most effective use of current data is to compare and analyze trends within a county and not between counties.



Appendix A - Statewide Summary Tables for Closures and Postings

Table 1. Beach Closures for 2000 -2003 by County.

COUNTY	NUMBER OF CLOSURE EVENTS				NUMBER OF DAYS				BEACH-MILE DAYS CLOSED			
	2000	2001	2002	2003	2000	2001	2002	2003	2000	2001	2002	2003
Del Norte												
Humboldt												
Mendocino	1	1			15	12			2.6	2.73		
Sonoma	2	2		6	4	37		124	0.4	3.7		15.86
Marin												
San Francisco				10				32				36
San Mateo	9	6	6	2	217	38	35	5	41.9	21.21	10.3	6.57
Santa Cruz		2	1	4		4	13	27		0.22	3.25	13.62
Monterey	6	6	10	4	16	39	32	12	3.9	6.75	8.45	1.8
San Luis Obispo	1				1				0.1			
Santa Barbara		1		1		7		7		1.59		0.2
Ventura	4	16	6	0	12	78	18	0	0.7	37.67	2.69	0
Los Angeles	7	6		1	45	12		3	33.6	34.06		3
Long Beach		1	2			9	7			0.51	20.75	
Orange	40	53	39	29	152	190	158	86	53.4	53.1	29.74	15.38
San Diego	47	59	37	43	310	362	166	303	187	362.4	87.56	323.99
<b>TOTALS</b>	<b>117</b>	<b>153</b>	<b>101</b>	<b>100</b>	<b>772</b>	<b>788</b>	<b>429</b>	<b>599</b>	<b>323.6</b>	<b>523.94</b>	<b>162.74</b>	<b>416.42</b>

Table 2. Beach Postings for 2000 - 2003 by County.

COUNTY	NUMBER OF POSTING EVENTS				NUMBER OF DAYS				BEACH-MILE DAYS POSTED			
	2000	2001	2002	2003	2000	2001	2002	2003	2000	2001	2002	2003
Del Norte												
Humboldt												
Mendocino				4				20				2.14
Sonoma	12	2	7	7	29	4	28	19	2.7	0.4	2.62	2.43
Marin												
San Francisco	13	34	21	52	31	70	89	102	49	104.2	136.5	83
San Mateo	17	17	18	18	387	101	186	162	21.5	59.03	32.82	44.22
Santa Cruz	7	16	29	7	44	53	119	115	19.8	6.13	21.54	19.12
Monterey	16	15	10	8	42	81	35	44	13.8	31.5	10	22
San Luis Obispo	6	20	5	22	16	68	6	67	2.2	11.07	0.27	7.66
Santa Barbara	152	148	103	87	1296	1233	524	366	73.5	56.15	8.77	9.66
Ventura	72	96	83	166	237	967	255	790	13.4	98.52	14.53	44.96
Los Angeles	325	267	268	390	1150	1197	791	1256	126.1	93.96	83.25	110.7
Long Beach	99	58	93	113	161	78	115	181	4.6	2.33	3.45	5.36
Orange	290	325	305	312	2055	3235	3203	3919	595.8	652.5	767.9	641.9
San Diego	274	191	132	167	2450	867	752	952	168.9	51.45	63.38	58.47
<b>TOTALS</b>	<b>1283</b>	<b>1189</b>	<b>1074</b>	<b>1353</b>	<b>7898</b>	<b>7954</b>	<b>6103</b>	<b>7993</b>	<b>1091</b>	<b>1167</b>	<b>1145</b>	<b>1052</b>

# Appendix B

2003

## County-specific Beach Closures

# County of Sonoma Division of Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Campbell Cove State Beach	7/2/2003	7/3/2003	1	0.15	UNKNOWN	UNKNOWN
	8/20/2003	8/29/2003	9	1.35	UNKNOWN	UNKNOWN
	9/3/2003	12/3/2003	91	13.65	UNKNOWN	UNKNOWN
Goat Rock State Beach	5/21/2003	5/23/2003	2	0.11	UNKNOWN	UNKNOWN
Salmon Creek State Beach	4/9/2003	4/23/2003	14	0.4	RAIN	WET_CREEK_RI
	4/30/2003	5/7/2003	7	0.2	UNKNOWN	RAIN

**Number of Beach Closures: 6**  
**Sum of Days: 124**  
**Sum of Beach Mile Days: 15.86**

# San Francisco County 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Baker Beach	12/7/2003	12/8/2003	1	1	RAIN	COMBINED_SEW
	12/14/2003	12/15/2003	1	1	RAIN	COMBINED_SEW
	12/29/2003	12/31/2003	2	1.5	RAIN	COMBINED_SEW
Candlestick Point	12/23/2003	1/3/2004	11	10.5	RAIN	COMBINED_SEW
China Beach	12/14/2003	12/15/2003	1	0.5	RAIN	COMBINED_SEW
	12/21/2003	12/22/2003	1	0.5	UNKNOWN	COMBINED_SEW
Fort Funston	12/29/2003	12/31/2003	2	1	RAIN	COMBINED_SEW
	12/14/2003	12/15/2003	1	0.5	RAIN	COMBINED_SEW
Ocean Beach	12/29/2003	1/5/2004	7	3.5	RAIN	COMBINED_SEW
	12/29/2003	1/3/2004	5	16	RAIN	COMBINED_SEW

**Number of Beach Closures: 10**

**Sum of Days: 32**

**Sum of Beach Mile Days: 36**

# San Mateo County Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Manor Beach	4/14/2003	4/17/2003	3	6	BLOCKAGE_U	SANITARY_SEW
Pescadero State Beach	5/27/2003	5/29/2003	2	0.57	BLOCKAGE	SANITARY_SEW

Number of Beach Closures: 2  
Sum of Days: 5  
Sum of Beach Mile Days: 6.57

# County of Santa Cruz Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Beercan Beach	12/19/2003	12/22/2003	3	1.5	BLOCKAGE_D	SANITARY_SEW
Capitola State Beach	1/6/2003	1/17/2003	11	5.62	LINE_BREAK	SEWAGE
	3/4/2003	3/14/2003	10	5	PUMP_STATIO	SANITARY_SEW
Seascape Beach	12/19/2003	12/22/2003	3	1.5	BLOCKAGE_D	SANITARY_SEW

**Number of Beach Closures: 4**  
**Sum of Days: 27**  
**Sum of Beach Mile Days: 13.62**

# Monterey County

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Coral and Oceanview3	1/22/2003	1/24/2003	2	0.5	SEWER_OVERF	SEWAGE
Lover's Point	6/5/2003	6/6/2003	1	0.25	OTHER	SANITARY_SEW
Maccabee Beach	4/23/2003	5/1/2003	8	0.8	OTHER	UNKNOWN
Seal Rock, Pebble Beach	9/10/2003	9/11/2003	1	0.25	PUMP_STATIO	SANITARY_SEW

**Number of Beach Closures: 4**  
**Sum of Days: 12**  
**Sum of Beach Mile Days: 1.8**

# Santa Barbara County, Environmental Health Services

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
El Capitan State Beach	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN

**Number of Beach Closures: 1**  
**Sum of Days: 7**  
**Sum of Beach Mile Days: 0.2**



# Los Angeles County 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Multiple Beaches	11/13/2003	11/16/2003	3	3		

Number of Beach Closures: 1  
Sum of Days: 3  
Sum of Beach Mile Days: 3

# Orange County Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Aliso County Beach	1/14/2003	1/16/2003	2	0.76		
Crystal Cove State Park	5/17/2003	5/20/2003	3	0.57		
Dana Point Harbor	2/1/2003	2/4/2003	3	0.03		
	4/23/2003	4/26/2003	3	0.17		
	5/10/2003	5/12/2003	2	0.11		
	8/16/2003	8/19/2003	3	0.34		
	9/23/2003	9/25/2003	2	0.02		
	11/28/2003	12/1/2003	3	0.03		
	12/22/2003	12/25/2003	3	0.03		
Doheny State Beach	11/4/2003	11/6/2003	2	0.38		
Huntington Harbour	2/9/2003	2/13/2003	4	1		
	11/16/2003	11/19/2003	3	0.34		
	12/15/2003	12/17/2003	2	0.03		
Huntington State Beach	5/27/2003	5/29/2003	2	0.76		
Laguna Beach	1/17/2003	1/19/2003	2	0.11		
	2/2/2003	2/4/2003	2	0.38		
Newport Bay	1/12/2003	1/18/2003	6	3		
	1/30/2003	2/2/2003	3	0.17		
	5/1/2003	5/3/2003	2	0.11		
	6/16/2003	6/20/2003	4	0.18		
	6/16/2003	6/20/2003	4	0.18		
	8/13/2003	8/15/2003	2	0.06		
Newport Beach	7/7/2003	7/10/2003	3	0.17		
Salt Creek County Beach Park	2/8/2003	2/11/2003	3	3		
San Clemente City Beach	7/27/2003	8/1/2003	5	1.42		
	10/28/2003	10/31/2003	3	0.14		
	10/28/2003	10/31/2003	3	0.14		
Seal Beach/Surfside	2/25/2003	3/1/2003	4	1		
	3/12/2003	3/15/2003	3	0.75		

**Number of Beach Closures: 29**  
**Sum of Days: 86**  
**Sum of Beach Mile Days: 15.38**

# San Diego County Environmental Health

## 2003 - Beach Closures

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Coronado municipal beach, other	2/25/2003	3/6/2003	9	28.64	UNKNOWN	UNKNOWN
	3/17/2003	3/22/2003	5	15.91	UNKNOWN	UNKNOWN
	4/15/2003	4/25/2003	10	31.82	UNKNOWN	UNKNOWN
Del Mar municipal beach, other	2/5/2003	2/8/2003	3	0.57	LAGOON_OPE	DRY_CREEK_RIV
	2/20/2003	2/21/2003	1	0.06	LAGOON_OPE	DRY_CREEK_RIV
Glorietta Bay	11/21/2003	11/24/2003	3	0.17	OTHER	SEWAGE
Imperial Beach municipal beach, other	2/11/2003	2/22/2003	11	14.58	URBAN_RUNOF	SEWAGE
	2/24/2003	3/7/2003	11	14.58	URBAN_RUNOF	SEWAGE
	3/11/2003	3/22/2003	11	14.57	URBAN_RUNOF	SEWAGE
	4/1/2003	4/3/2003	2	2.65	URBAN_RUNOF	SEWAGE
	4/15/2003	4/25/2003	10	13.26	URBAN_RUNOF	SEWAGE
	5/5/2003	5/12/2003	7	9.28	URBAN_RUNOF	SEWAGE
	8/17/2003	8/18/2003	1	0.08	OTHER	SEWAGE
La Jolla Shores Beach	11/12/2003	11/14/2003	2	2.65	URBAN_RUNOF	SEWAGE
	11/6/2003	11/9/2003	3	1.7	BLOCKAGE_D	SANITARY_SEW
Ladera Street	3/17/2003	3/20/2003	3	1.02	UNKNOWN	UNKNOWN
Mission Bay, Mariners Basin	5/7/2003	5/12/2003	5	2.84	UNKNOWN	UNKNOWN
	10/14/2003	10/21/2003	7	5.7		
Mission Bay, north pacific passage	2/18/2003	2/23/2003	5	2.56	UNKNOWN	WET_URBAN_RU
Moonlight Beach	2/6/2003	2/9/2003	3	0.23	UNKNOWN	UNKNOWN
	2/25/2003	2/28/2003	3	0.57	RAIN	WET_URBAN_RU
	3/16/2003	3/20/2003	4	2.88	UNKNOWN	UNKNOWN
	4/2/2003	4/4/2003	2	0.23	UNKNOWN	UNKNOWN
	4/15/2003	4/18/2003	3	0.57	UNKNOWN	UNKNOWN
	4/22/2003	4/24/2003	2	0.38	UNKNOWN	UNKNOWN
	4/6/2003	4/9/2003	3	0.28	UNKNOWN	UNKNOWN
Oceanside municipal beach, other	9/3/2003	9/4/2003	1	0.06	BLOCKAGE_D	SANITARY_SEW
San, Diego Bay	5/5/2003	5/8/2003	3	5.11	UNKNOWN	UNKNOWN
Silver Strand State Beach	7/20/2003	7/24/2003	4	0.76	UNKNOWN	UNKNOWN
	2/12/2003	2/18/2003	6	4.55	LINE_BREAK	SEWAGE
South Carlsbad State Beach	3/19/2003	3/20/2003	1	0.19	LINE_BREAK	RECLAIMED_WA
Sunset Cliffs Park	10/13/2003	10/14/2003	1	0.11	LINE_BREAK	SEWAGE
Tijuana Slough National Wildlife Refuge	1/1/2003	1/24/2003	23	22.65	RAIN	WET_URBAN_RU
	2/11/2003	5/22/2003	100	98.49	RAIN	WET_URBAN_RU
	11/12/2003	11/22/2003	10	9.85	RAIN	SEWAGE
Torrey Pines State Beach	12/26/2003	12/31/2003	5	4.92	RAIN	SEWAGE
	3/29/2003	4/1/2003	3	0.34	LINE_BREAK	SEWAGE
	7/10/2003	7/11/2003	1	0.11	BLOCKAGE_D	SANITARY_SEW
	8/5/2003	8/9/2003	4	3.94	PUMP_STATIO	SANITARY_SEW
USMC Camp Pendleton	11/6/2003	11/9/2003	3	3.84	LINE_BREAK	SANITARY_SEW
	2/26/2003	3/1/2003	3	0.45	BLOCKAGE_D	SEWAGE
Windansea Beach	4/14/2003	4/18/2003	4	0.61	BLOCKAGE_D	SEWAGE
	1/15/2003	1/17/2003	2	0.23	BLOCKAGE_D	SEWAGE

**Number of Beach Closures: 43**  
**Sum of Days: 303**  
**Sum of Beach Mile Days: 323.99**

# Appendix C

## 2003 County-specific Beach Postings

# Mendocino County Environmental Health 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Mackerricher	5/30/2003	6/4/2003	5	1.99	UNKNOWN	UNKNOWN
Russian Gulch	6/6/2003	6/11/2003	5	0.05	UNKNOWN	UNKNOWN
Van Damme	6/6/2003	6/11/2003	5	0.05	UNKNOWN	UNKNOWN
Virgin Creek Beach	6/13/2003	6/18/2003	5	0.05	UNKNOWN	UNKNOWN

Number of Beach Postings: 4  
Sum of Days: 20  
Sum of Beach Mile Days: 2.14

# County of Sonoma Division of Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Campbell Cove State Beach	8/6/2003	8/11/2003	5	0.75	UNKNOWN	UNKNOWN
Doran Park County Regional Park	8/27/2003	8/29/2003	2	0.34	UNKNOWN	UNKNOWN
	10/29/2003	10/31/2003	2	0.34	UNKNOWN	UNKNOWN
Goat Rock State Beach	5/29/2003	6/2/2003	4	0.23	UNKNOWN	UNKNOWN
	10/15/2003	10/17/2003	2	0.34	UNKNOWN	UNKNOWN
Gualala Regional Park Beach	6/11/2003	6/13/2003	2	0.23	UNKNOWN	UNKNOWN
Still Water Cove Regional Park	6/11/2003	6/13/2003	2	0.2	UNKNOWN	UNKNOWN

Number of Beach Postings: 7

Sum of Days: 19

Sum of Beach Mile Days: 2.43

# San Francisco County

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source	
Aquatic Park	6/3/2003	6/4/2003	1	0.5	UNKNOWN	UNKNOWN	
	8/22/2003	8/23/2003	1	0.5	UNKNOWN	UNKNOWN	
	10/21/2003	10/22/2003	1	0.5	UNKNOWN	UNKNOWN	
	10/23/2003	10/24/2003	1	0.5	UNKNOWN	UNKNOWN	
	10/28/2003	10/31/2003	3	1.5	UNKNOWN	UNKNOWN	
	11/5/2003	11/8/2003	3	1.5	UNKNOWN	UNKNOWN	
	11/25/2003	11/27/2003	2	1	UNKNOWN	UNKNOWN	
	12/7/2003	12/10/2003	3	1.5	RAIN	WET_URBAN_RU	
	12/12/2003	12/13/2003	1	0.5	RAIN	WET_URBAN_RU	
	12/23/2003	12/24/2003	1	0.5	RAIN	WET_URBAN_RU	
	12/31/2003	1/4/2004	4	2	RAIN	WET_URBAN_RU	
	Baker Beach	3/15/2003	3/16/2003	1	1	RAIN	COMBINED_SEW
		10/9/2003	10/11/2003	2	1	UNKNOWN	UNKNOWN
10/10/2003		10/11/2003	1	0.5	UNKNOWN	UNKNOWN	
10/23/2003		10/24/2003	1	0.5	UNKNOWN	UNKNOWN	
12/11/2003		12/13/2003	2	2	RAIN	COMBINED_SEW	
12/24/2003		12/25/2003	1	1	RAIN	WET_URBAN_RU	
Candlestick Point	3/15/2003	3/18/2003	3	1.5	URBAN_RUNOF	COMBINED_SEW	
	4/25/2003	4/26/2003	1	0.5	RAIN	WET_URBAN_RU	
	4/26/2003	4/28/2003	2	1	RAIN	WET_URBAN_RU	
	4/29/2003	5/1/2003	2	1	RAIN	WET_URBAN_RU	
	5/13/2003	5/14/2003	1	0.5	URBAN_RUNOF	DRY_URBAN_RU	
	6/4/2003	6/5/2003	1	0.5	UNKNOWN	UNKNOWN	
	6/19/2003	6/22/2003	3	1.5	UNKNOWN	UNKNOWN	
	6/27/2003	6/29/2003	2	2	UNKNOWN	UNKNOWN	
	6/28/2003	6/30/2003	2	1	UNKNOWN	UNKNOWN	
	8/26/2003	8/27/2003	1	2	UNKNOWN	UNKNOWN	
	9/11/2003	9/15/2003	4	4	UNKNOWN	UNKNOWN	
	9/23/2003	9/29/2003	6	4	UNKNOWN	UNKNOWN	
	10/29/2003	10/30/2003	1	0.5	UNKNOWN	UNKNOWN	
	11/18/2003	11/20/2003	2	1	UNKNOWN	UNKNOWN	
	12/2/2003	12/3/2003	1	1	RAIN	WET_URBAN_RU	
12/5/2003	12/9/2003	4	2	RAIN	WET_URBAN_RU		
12/10/2003	12/13/2003	3	1.5	RAIN	WET_URBAN_RU		
12/17/2003	12/18/2003	1	0.5	RAIN	WET_URBAN_RU		
Candlestick Point	12/23/2003	12/26/2003	3	3	RAIN	WET_URBAN_RU	
China Beach	10/10/2003	10/11/2003	1	0.5	UNKNOWN	UNKNOWN	
	10/23/2003	10/24/2003	1	0.5	UNKNOWN	UNKNOWN	
Crissy Field	8/12/2003	8/14/2003	2	4	UNKNOWN	UNKNOWN	
	8/22/2003	8/23/2003	1	2	UNKNOWN	UNKNOWN	
	10/28/2003	10/31/2003	3	3	UNKNOWN	UNKNOWN	
	11/25/2003	11/28/2003	3	2.5	UNKNOWN	UNKNOWN	
	12/23/2003	12/27/2003	4	6	RAIN	WET_URBAN_RU	
Fort Funston	4/22/2003	4/24/2003	2	1	RAIN	UNKNOWN	
	5/1/2003	5/2/2003	1	0.5	URBAN_RUNOF	DRY_URBAN_RU	
Ocean Beach	1/9/2003	1/11/2003	2	6	RAIN	COMBINED_SEW	
	6/27/2003	6/28/2003	1	0.5	UNKNOWN	UNKNOWN	
	11/20/2003	11/23/2003	3	1	UNKNOWN	UNKNOWN	
	11/26/2003	11/28/2003	2	2	UNKNOWN	UNKNOWN	
	12/4/2003	12/5/2003	1	0.5	RAIN	WET_URBAN_RU	
	12/11/2003	12/12/2003	1	3.5	RAIN	WET_URBAN_RU	
	12/24/2003	12/26/2003	2	4	RAIN	WET_URBAN_RU	

Number of Beach Postings: 52  
 Sum of Days: 102  
 Sum of Beach Mile Days: 83

# San Mateo County Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Fitzgerald Marine (Moss Beach)	5/20/2003	5/23/2003	3	0.34	OTHER	WET_CREEK_RI
	5/29/2003	6/4/2003	6	0.09	UNKNOWN	DRY_CREEK_RIV
	8/12/2003	8/14/2003	2	0.11	UNKNOWN	WET_CREEK_RI
Pacifica State Beach	9/17/2003	9/22/2003	5	10.74	UNKNOWN	DOMESTIC_AGRI
	4/28/2003	5/6/2003	8	0.45	UNKNOWN	UNKNOWN
	4/29/2003	5/6/2003	7	1.99	UNKNOWN	WET_CREEK_RI
	5/29/2003	6/3/2003	5	1.42	UNKNOWN	DRY_CREEK_RIV
Pillar Point	9/17/2003	10/15/2003	28	7.95	UNKNOWN	UNKNOWN
	7/2/2003	7/9/2003	7	0.2	UNKNOWN	UNKNOWN
	7/22/2003	7/29/2003	7	0.4	UNKNOWN	UNKNOWN
Roosevelt State Beach	8/19/2003	9/8/2003	20	2.27	OTHER	WILDLIFE
	6/3/2003	6/10/2003	7	3.26	UNKNOWN	DRY_CREEK_RIV
	7/22/2003	7/29/2003	7	0.8	UNKNOWN	UNKNOWN
San Gregorio State Beach	8/19/2003	8/26/2003	7	1.99	OTHER	WILDLIFE
	4/29/2003	5/7/2003	8	2.27	RAIN	WET_CREEK_RI
Venice State Beach	4/23/2003	5/7/2003	14	3.98	OTHER	WET_CREEK_RI
	7/14/2003	7/15/2003	1	0.28	UNKNOWN	WET_CREEK_RI
	8/19/2003	9/8/2003	20	5.68	OTHER	WILDLIFE

**Number of Beach Postings: 18**  
**Sum of Days: 162**  
**Sum of Beach Mile Days: 44.22**



# County of Santa Cruz Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Capitola State Beach	4/23/2003	4/24/2003	1	0.03	UNKNOWN	WILDLIFE
	8/5/2003	8/9/2003	4	2.05	UNKNOWN	UNKNOWN
	10/30/2003	12/31/2003	62	3.52	UNKNOWN	UNKNOWN
New Brighton State Beach	7/22/2003	7/24/2003	2	1	UNKNOWN	UNKNOWN
Rio del Mar Beach	8/5/2003	9/16/2003	42	10.5	UNKNOWN	UNKNOWN
Seacliff Beach	7/22/2003	7/24/2003	2	1	UNKNOWN	UNKNOWN
	8/5/2003	8/7/2003	2	1.02	UNKNOWN	UNKNOWN

**Number of Beach Postings: 7**

**Sum of Days: 115**

**Sum of Beach Mile Days: 19.12**

# Monterey County 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Del Monte Beach Stillwater Cove	9/30/2003	10/1/2003	1	0.5	UNKNOWN	UNKNOWN
	7/1/2003	7/2/2003	1	0.5	UNKNOWN	UNKNOWN
	8/26/2003	8/29/2003	3	1.5	UNKNOWN	UNKNOWN
	9/16/2003	9/18/2003	2	1	UNKNOWN	UNKNOWN
Sunset Dr. @ Arena	9/30/2003	10/31/2003	31	15.5	UNKNOWN	UNKNOWN
	7/1/2003	7/3/2003	2	1	UNKNOWN	UNKNOWN
	9/9/2003	9/11/2003	2	1	UNKNOWN	UNKNOWN
	10/21/2003	10/23/2003	2	1	UNKNOWN	UNKNOWN

**Number of Beach Postings: 8**  
**Sum of Days: 44**  
**Sum of Beach Mile Days: 22**

# San Luis Obispo County

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Avila Beach	2/26/2003	2/28/2003	2	0.11	UNKNOWN	UNKNOWN
	3/18/2003	3/20/2003	2	0.11	RAIN	RAIN
	3/18/2003	3/19/2003	1	0.11	RAIN	RAIN
Cayucos Beach	12/23/2003	12/30/2003	7	0.4	UNKNOWN	UNKNOWN
	3/19/2003	3/20/2003	1	0.09	RAIN	RAIN
	12/23/2003	12/30/2003	7	0.8		
Morro Bay City Beach	4/9/2003	4/10/2003	1	0.06	UNKNOWN	UNKNOWN
	8/7/2003	8/8/2003	1	0.11	UNKNOWN	UNKNOWN
Pismo State Beach	4/2/2003	4/3/2003	1	0.06	UNKNOWN	UNKNOWN
	4/16/2003	4/17/2003	1	0.06	UNKNOWN	UNKNOWN
	7/3/2003	7/8/2003	5	0.28	UNKNOWN	UNKNOWN
	8/13/2003	8/14/2003	1	0.06	UNKNOWN	UNKNOWN
	8/27/2003	8/29/2003	2	0.8	UNKNOWN	UNKNOWN
	9/24/2003	9/25/2003	1	0.06	UNKNOWN	UNKNOWN
	10/15/2003	10/17/2003	2	0.8	UNKNOWN	UNKNOWN
	11/19/2003	11/21/2003	2	0.11	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.06	UNKNOWN	UNKNOWN
	12/9/2003	12/17/2003	8	0.45	UNKNOWN	UNKNOWN
	12/9/2003	12/18/2003	10	0.57	UNKNOWN	UNKNOWN
	12/9/2003	12/11/2003	2	0.8	UNKNOWN	UNKNOWN
12/23/2003	12/24/2003	2	0.17	UNKNOWN	UNKNOWN	
12/23/2003	12/30/2003	7	1.59	UNKNOWN	UNKNOWN	

**Number of Beach Postings: 22**  
**Sum of Days: 67**  
**Sum of Beach Mile Days: 7.66**

# Santa Barbara County, Environmental Health Services

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Arroyo Burro Beach	2/5/2003	2/7/2003	2	0.03	UNKNOWN	DRY_CREEK_RIV
	3/19/2003	3/26/2003	7	0.24	UNKNOWN	WET_CREEK_RI
	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
	5/7/2003	5/9/2003	2	0.03	UNKNOWN	WET_CREEK_RI
	8/6/2003	8/8/2003	2	0.03	UNKNOWN	UNKNOWN
	11/5/2003	11/7/2003	2	0.06	UNKNOWN	UNKNOWN
	12/24/2003	1/7/2004	14	0.4	UNKNOWN	UNKNOWN
Arroyo Quemado	1/15/2003	1/17/2003	2	0.03	UNKNOWN	UNKNOWN
	1/23/2003	1/29/2003	6	0.1	UNKNOWN	UNKNOWN
	2/20/2003	2/26/2003	6	0.1	VESSEL_POS_L	WET_CREEK_RI
	7/23/2003	7/25/2003	2	0.03	UNKNOWN	UNKNOWN
	12/24/2003	1/7/2004	14	0.4	UNKNOWN	UNKNOWN
Butterfly Beach	3/19/2003	3/21/2003	2	0.07	OTHER	WET_URBAN_RU
	4/9/2003	4/11/2003	2	0.06	UNKNOWN	UNKNOWN
	9/4/2003	9/6/2003	2	0.03	UNKNOWN	UNKNOWN
	10/29/2003	10/31/2003	2	0.06	UNKNOWN	UNKNOWN
	11/26/2003	12/1/2003	5	0.3	UNKNOWN	UNKNOWN
Carpinteria City Beach	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
	4/16/2003	4/18/2003	2	0.06	RAIN	UNKNOWN
Carpinteria State Beach	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
	1/27/2003	1/31/2003	4	0.07	UNKNOWN	UNKNOWN
El Capitan State Beach	4/16/2003	4/18/2003	2	0.11	RAIN	WET_CREEK_RI
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
	7/9/2003	7/11/2003	2	0.03	UNKNOWN	UNKNOWN
Gaviota Beach	9/10/2003	9/12/2003	2	0.06	UNKNOWN	UNKNOWN
	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
Goleta Beach	6/4/2003	6/6/2003	2	0.03	UNKNOWN	UNKNOWN
	6/11/2003	6/13/2003	2	0.03	UNKNOWN	UNKNOWN
	9/24/2003	9/26/2003	2	0.06	UNKNOWN	UNKNOWN
	11/14/2003	11/19/2003	5	0.14	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
	3/19/2003	3/21/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	6/4/2003	6/6/2003	2	0.03	UNKNOWN	UNKNOWN
Guadalupe Dunes Hammonds	6/18/2003	6/20/2003	2	0.03	UNKNOWN	UNKNOWN
	7/23/2003	7/25/2003	2	0.03	UNKNOWN	UNKNOWN
	8/6/2003	8/8/2003	2	0.03	UNKNOWN	UNKNOWN
	10/29/2003	10/31/2003	2	0.06	UNKNOWN	UNKNOWN
	12/17/2003	12/19/2003	2	0.06	UNKNOWN	UNKNOWN
Haskell's	1/8/2003	1/15/2003	7	0.12	UNKNOWN	UNKNOWN
	3/19/2003	3/21/2003	2	0.07	OTHER	WET_CREEK_RI
	5/7/2003	5/9/2003	2	0.03	UNKNOWN	WET_CREEK_RI
	7/9/2003	7/11/2003	2	0.03	UNKNOWN	UNKNOWN
	10/15/2003	10/17/2003	2	0.06	UNKNOWN	UNKNOWN
Hope Ranch	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
	7/2/2003	7/3/2003	1	0.02	UNKNOWN	UNKNOWN
	9/10/2003	9/12/2003	2	0.06	UNKNOWN	UNKNOWN
	8/20/2003	8/22/2003	2	0.06	UNKNOWN	UNKNOWN
Haskell's	5/21/2003	5/23/2003	2	0.03	UNKNOWN	WET_CREEK_RI
	6/18/2003	6/20/2003	2	0.03	UNKNOWN	UNKNOWN
	7/23/2003	7/25/2003	2	0.06	UNKNOWN	UNKNOWN
	8/20/2003	8/22/2003	2	0.06	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN

## Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Hope Ranch	11/14/2003	11/19/2003	5	0.14	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Jalama Beach	3/12/2003	3/19/2003	7	0.24	UNKNOWN	WET_CREEK_RI
	6/4/2003	6/11/2003	7	0.12	UNKNOWN	UNKNOWN
	7/16/2003	7/18/2003	2	0.03	UNKNOWN	UNKNOWN
	10/15/2003	10/22/2003	7	0.2	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Leadbetter	1/23/2003	1/29/2003	6	0.1	UNKNOWN	UNKNOWN
	3/19/2003	3/21/2003	2	0.07	UNKNOWN	UNKNOWN
	4/16/2003	4/23/2003	7	0.2	RAIN	WET_CREEK_RI
	8/6/2003	8/8/2003	2	0.03	UNKNOWN	UNKNOWN
	12/10/2003	12/12/2003	2	0.06	UNKNOWN	UNKNOWN
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Mission Creek	1/8/2003	1/15/2003	7	0.12	UNKNOWN	UNKNOWN
	2/12/2003	2/20/2003	8	0.14	UNKNOWN	WET_CREEK_RI
	3/5/2003	3/7/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	3/19/2003	3/21/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	4/16/2003	4/18/2003	2	0.06	RAIN	WET_CREEK_RI
	11/5/2003	11/14/2003	9	0.26	UNKNOWN	UNKNOWN
	12/10/2003	12/17/2003	7	0.2	UNKNOWN	UNKNOWN
	12/31/2003	1/8/2004	8	0.23	UNKNOWN	UNKNOWN
Ocean Beach	10/15/2003	10/22/2003	7	0.2	UNKNOWN	UNKNOWN
Refugio State Beach	3/12/2003	3/14/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	3/19/2003	3/21/2003	2	0.07	UNKNOWN	WET_CREEK_RI
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Rincon Beach	7/23/2003	7/25/2003	2	0.03	UNKNOWN	UNKNOWN
Sands Beach at Coal Oil Point	3/19/2003	3/21/2003	2	0.07	OTHER	WET_CREEK_RI
	12/24/2003	12/31/2003	7	0.2	UNKNOWN	UNKNOWN
Sycamore Creek	1/23/2003	1/29/2003	6	0.1	UNKNOWN	UNKNOWN
	2/12/2003	2/20/2003	8	0.14	UNKNOWN	WET_CREEK_RI
	3/19/2003	3/26/2003	7	0.24	UNKNOWN	WET_CREEK_RI
	8/27/2003	8/29/2003	2	0.06	UNKNOWN	UNKNOWN
	10/22/2003	10/24/2003	2	0.06	UNKNOWN	UNKNOWN
	12/24/2003	1/7/2004	14	0.4	UNKNOWN	UNKNOWN

**Number of Beach Postings: 87**

**Sum of Days: 366**

**Sum of Beach Mile Days: 9.66**

# County of Ventura - Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
25 yds south of creek mouth	4/15/2003	4/21/2003	6	0.34		
	5/6/2003	5/7/2003	1	0.06		
	6/18/2003	6/19/2003	1	0.06		
	7/22/2003	7/23/2003	1	0.06		
	8/12/2003	8/13/2003	1	0.06		
25 yds south of Industrial Drain	12/23/2003	12/30/2003	7	0.4		
	2/12/2003	2/19/2003	7	0.4		
	10/28/2003	11/12/2003	15	0.85		
	11/19/2003	12/3/2003	14	0.8		
25 yds south of J Street drain	12/17/2003	12/18/2003	1	0.06		
	2/12/2003	2/19/2003	7	0.4		
	11/4/2003	11/5/2003	1	0.06		
5th Street	11/26/2003	12/3/2003	7	0.4		
	3/18/2003	3/24/2003	6	0.34		
Amalfi Way	4/16/2003	4/22/2003	6	0.34		
	3/18/2003	3/24/2003	6	0.34		
at flag pole	4/16/2003	4/22/2003	6	0.34		
	1/7/2003	1/8/2003	1	0.06		
	4/15/2003	4/21/2003	6	0.34		
bottom of foot path	5/6/2003	5/7/2003	1	0.06		
	8/12/2003	8/13/2003	1	0.06		
	4/15/2003	4/21/2003	6	0.34		
	5/6/2003	5/7/2003	1	0.06		
	8/12/2003	8/13/2003	1	0.06		
California Street	12/23/2003	12/30/2003	7	0.4		
	2/26/2003	3/4/2003	6	0.34		
	8/12/2003	8/13/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
Channel Islands Harbor Beach Park	11/25/2003	12/2/2003	7	0.4		
	1/16/2003	1/22/2003	6	0.34		
	2/13/2003	2/19/2003	6	0.34		
	2/27/2003	3/4/2003	6	0.34		
	3/6/2003	3/11/2003	5	0.28		
	3/13/2003	3/20/2003	7	0.4		
	3/25/2003	4/8/2003	15	0.85		
	4/15/2003	4/17/2003	2	0.11		
	5/1/2003	5/8/2003	7	0.4		
	5/13/2003	5/15/2003	1	0.06		
	5/20/2003	5/22/2003	2	0.11		
	5/29/2003	6/5/2003	7	0.4		
	6/12/2003	6/17/2003	5	0.28		
	6/18/2003	6/24/2003	6	0.34		
	7/8/2003	7/10/2003	2	0.11		
	7/16/2003	7/17/2003	1	0.06		
	8/5/2003	8/12/2003	7	0.4		
8/19/2003	8/21/2003	2	0.11			
9/9/2003	9/25/2003	16	0.91			
9/30/2003	10/9/2003	9	0.51			
10/16/2003	11/4/2003	19	1.08			
11/6/2003	11/13/2003	7	0.4			
12/4/2003	12/9/2003	5	0.28			
12/11/2003	12/18/2003	7	0.4			
12/23/2003	12/30/2003	7	0.4			
Channel Way	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
County Line Beach	3/18/2003	3/24/2003	6	0.34		
	12/23/2003	12/30/2003	7	0.4		
cypress tree	1/7/2003	1/8/2003	1	0.06		
	2/26/2003	3/4/2003	6	0.34		
Deer Creek Beach	3/18/2003	3/24/2003	6	0.34		
	4/2/2003	4/3/2003	1	0.06		
Dover Lane	12/23/2003	12/30/2003	7	0.4		
	6/11/2003	6/12/2003	1	0.06		
east gate access road	9/23/2003	9/25/2003	2	0.11		
	12/9/2003	12/10/2003	1	0.06		
Emma Woods State Beach	4/8/2003	4/9/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
Falkirk Avenue	9/23/2003	9/25/2003	2	0.11		
	3/18/2003	3/24/2003	6	0.34		
Faria County Park Beach	4/16/2003	4/22/2003	6	0.34		
	2/26/2003	3/4/2003	6	0.34		
Figueroa Street	11/25/2003	12/2/2003	7	0.4		
	12/23/2003	12/30/2003	7	0.4		
Figueroa Street	1/7/2003	1/8/2003	1	0.06		
	2/26/2003	3/4/2003	6	0.34		
Go-Cart Track - south of McGrath Lake	3/19/2003	3/25/2003	6	0.34		
	4/15/2003	4/21/2003	6	0.34		
Hobie Beach	8/12/2003	8/13/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
Hobson County Park	11/5/2003	11/6/2003	1	0.06		
	11/25/2003	12/2/2003	7	0.4		
Hollywood Beach	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
Kalorama Street	10/1/2003	10/8/2003	7	0.4		
	2/5/2003	2/6/2003	1	0.06		
Los Robles Street	2/25/2003	3/5/2003	8	0.45		
	3/18/2003	4/2/2003	15	0.85		
Marina Park Beach	5/29/2003	6/5/2003	7	0.4		
	8/27/2003	9/11/2003	15	0.85		
McGrath State Beach	9/17/2003	9/18/2003	1	0.06		
	11/19/2003	11/20/2003	1	0.06		
north of Gonzales Road	8/5/2003	8/6/2003	1	0.06		
	12/30/2003	12/31/2003	1	0.06		
Oak Street	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
Outrigger Way	4/15/2003	4/21/2003	6	0.34		
	5/6/2003	5/7/2003	1	0.06		
Penninsula Beach	8/5/2003	8/6/2003	1	0.06		
	8/12/2003	8/13/2003	1	0.06		
cypress tree	9/23/2003	9/25/2003	2	0.11		
	3/18/2003	3/24/2003	6	0.34		
Deer Creek Beach	4/16/2003	4/22/2003	6	0.34		
	10/1/2003	10/2/2003	1	0.06		
Dover Lane	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
east gate access road	10/1/2003	10/2/2003	1	0.06		
	1/7/2003	1/8/2003	1	0.06		
Emma Woods State Beach	2/26/2003	3/4/2003	6	0.34		
	8/12/2003	8/13/2003	1	0.06		
Falkirk Avenue	8/19/2003	8/20/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
Faria County Park Beach	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
Figueroa Street	4/15/2003	4/21/2003	6	0.34		
	6/11/2003	6/12/2003	1	0.06		
Figueroa Street	9/16/2003	9/17/2003	1	0.06		

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Penninsula Beach	9/23/2003	9/25/2003	2	0.11		
Point Mugu Beach	3/18/2003	3/24/2003	6	0.34		
	4/16/2003	4/22/2003	6	0.34		
	7/16/2003	7/17/2003	1	0.06		
	10/15/2003	10/16/2003	1	0.06		
Port Hueneeme Beach Park	2/12/2003	2/19/2003	7	0.4		
	Redwood Apartments	2/26/2003	3/4/2003	6	0.34	
		8/12/2003	8/13/2003	1	0.06	
Rincon Parkway North	9/23/2003	9/25/2003	2	0.11		
	San Jon Road	4/15/2003	4/21/2003	6	0.34	
		9/23/2003	9/30/2003	7	0.4	
San Nicolas Avenue	11/11/2003	11/18/2003	7	0.4		
	12/23/2003	12/30/2003	7	0.4		
	3/18/2003	3/24/2003	6	0.34		
Santa Paula Avenue	4/16/2003	4/22/2003	6	0.34		
	12/23/2003	12/30/2003	7	0.4		
	3/18/2003	3/24/2003	6	0.34		
Sawtelle Avenue	4/16/2003	4/22/2003	6	0.34		
	2/5/2003	2/6/2003	1	0.06		
	2/12/2003	2/19/2003	7	0.4		
Seaside Wilderness Park Beach	3/18/2003	3/24/2003	6	0.34		
	11/26/2003	12/3/2003	7	0.4		
	9/23/2003	9/25/2003	2	0.11		
South Jetty Beach	2/20/2003	2/25/2003	5	0.28		
	9/23/2003	9/25/2003	2	0.11		
	3/18/2003	3/24/2003	6	0.34		
Staircase Beach	12/23/2003	12/30/2003	7	0.4		
	3/18/2003	3/24/2003	6	0.34		
Starfish Drive	4/16/2003	4/22/2003	6	0.34		
	3/19/2003	3/25/2003	6	0.34		
Surfers Knoll Beach	5/6/2003	5/7/2003	1	0.06		
	9/23/2003	9/25/2003	2	0.11		
	11/25/2003	12/2/2003	7	0.4		
	12/9/2003	12/10/2003	1	0.06		
Surfers Point at Seaside	2/26/2003	3/4/2003	6	0.34		
	4/15/2003	4/21/2003	6	0.34		
	9/23/2003	9/25/2003	2	0.11		
	11/5/2003	11/11/2003	6	0.34		
Sycamore Cove Beach	11/25/2003	12/2/2003	7	0.4		
	3/18/2003	3/24/2003	6	0.34		
	5/13/2003	5/15/2003	1	0.06		
Thornhill Broome Beach	3/18/2003	3/24/2003	6	0.34		
	Weymouth Lane	7/30/2003	7/31/2003	1	0.06	
	9/23/2003	9/25/2003	2	0.11		
	12/23/2003	12/30/2003	7	0.4		

**Number of Beach Postings: 166**  
**Sum of Days: 790**  
**Sum of Beach Mile Days: 44.96**



# Los Angeles County 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Avalon Beach	4/15/2003	4/17/2003	2	0.06		
	4/15/2003	4/17/2003	2	0.06		
	4/15/2003	4/17/2003	2	0.06		
	4/15/2003	4/17/2003	2	0.06		
	4/15/2003	4/17/2003	2	0.06		
	4/22/2003	4/24/2003	2	0.06		
	4/29/2003	5/1/2003	2	0.11		
	4/29/2003	5/1/2003	2	0.11		
	5/6/2003	5/13/2003	7	0.2		
	5/6/2003	5/13/2003	7	0.2		
	5/20/2003	5/22/2003	2	0.06		
	5/20/2003	5/28/2003	8	0.23		
	5/28/2003	6/3/2003	6	0.17		
	6/10/2003	6/12/2003	2	0.06		
	6/10/2003	6/12/2003	2	0.06		
	6/17/2003	6/24/2003	7	0.2		
	7/1/2003	7/3/2003	2	0.06		
	7/1/2003	7/3/2003	2	0.06		
	7/15/2003	7/22/2003	7	0.2		
	7/15/2003	7/22/2003	7	0.2		
	7/22/2003	7/24/2003	2	0.06		
	7/29/2003	8/7/2003	9	0.26		
	7/29/2003	7/31/2003	2	0.06		
	7/29/2003	8/5/2003	7	0.2		
	8/5/2003	8/7/2003	2	0.06		
	8/12/2003	8/14/2003	2	0.06		
	8/12/2003	8/19/2003	7	0.2		
	8/19/2003	8/26/2003	7	0.2		
	9/16/2003	9/18/2003	2	0.06		
	9/23/2003	9/25/2003	2	0.06		
	9/30/2003	10/2/2003	2	0.06		
	10/7/2003	10/17/2003	10	0.28		
	10/15/2003	10/17/2003	2	0.06		
10/21/2003	10/28/2003	7	0.2			
10/21/2003	10/28/2003	7	0.2			
Big Rock Beach	4/15/2003	4/17/2003	2	0.11		
	6/17/2003	6/19/2003	2	0.11		
	6/24/2003	6/26/2003	2	0.11		
	8/12/2003	8/14/2003	2	0.11		
Cabrillo Beach	1/3/2003	1/6/2003	3	0.34		
	1/7/2003	1/13/2003	6	0.68		
	1/15/2003	1/27/2003	12	1.36		
	1/30/2003	2/6/2003	7	0.8		
	2/20/2003	2/24/2003	4	0.45		
	3/5/2003	3/7/2003	2	0.23		
	3/24/2003	3/24/2003	1	0.11		
	3/25/2003	3/27/2003	2	0.23		
	3/31/2003	3/31/2003	1	0.11		
	4/3/2003	4/7/2003	4	0.23		
	4/14/2003	4/17/2003	3	0.34		
	4/15/2003	4/17/2003	2	0.23		
	4/21/2003	4/22/2003	1	0.11		
	4/24/2003	4/25/2003	1	0.11		
	5/7/2003	5/9/2003	2	0.23		
	5/19/2003	5/21/2003	2	0.23		

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source	
Cabrillo Beach	6/3/2003	6/9/2003	6	0.68		
	6/11/2003	6/12/2003	1	0.11		
	6/16/2003	6/23/2003	7	0.8		
	6/30/2003	7/1/2003	1	0.11		
	7/3/2003	7/3/2003	1	0.11		
	7/7/2003	7/7/2003	1	0.11		
	7/8/2003	7/9/2003	1	0.11		
	7/11/2003	7/21/2003	10	1.14		
	7/28/2003	7/28/2003	1	0.11		
	8/11/2003	8/14/2003	3	0.34		
	8/29/2003	9/2/2003	4	0.45		
	9/25/2003	9/29/2003	4	0.45		
	10/1/2003	10/3/2003	2	0.23		
	10/10/2003	10/15/2003	5	0.57		
	10/16/2003	10/20/2003	4	0.45		
	10/22/2003	10/23/2003	1	0.11		
	10/27/2003	11/3/2003	7	0.8		
	11/6/2003	11/10/2003	4	0.45		
	11/17/2003	11/18/2003	1	0.11		
	11/20/2003	11/21/2003	1	0.11		
	11/24/2003	12/1/2003	7	0.8		
	12/5/2003	12/12/2003	7	0.8		
	12/15/2003	12/16/2003	1	0.11		
	12/17/2003	12/18/2003	1	0.11		
	Dockweiler Beach	2/3/2003	2/3/2003	1	0.11	
		3/6/2003	3/7/2003	1	0.11	
		3/26/2003	3/27/2003	1	0.06	
		3/31/2003	4/1/2003	1	0.11	
		3/31/2003	4/1/2003	1	0.11	
		4/1/2003	4/3/2003	2	0.11	
		4/15/2003	4/17/2003	2	0.11	
		4/15/2003	4/18/2003	3	0.34	
		4/15/2003	4/17/2003	2	0.11	
		4/15/2003	4/17/2003	2	0.11	
		4/15/2003	4/17/2003	2	0.11	
		4/15/2003	4/17/2003	2	0.11	
		5/5/2003	5/5/2003	1	0.11	
		5/5/2003	5/6/2003	1	0.06	
		5/7/2003	5/20/2003	13	0.74	
5/7/2003		5/8/2003	1	0.11		
5/9/2003		5/12/2003	3	0.34		
5/13/2003		5/19/2003	6	0.34		
5/27/2003		6/2/2003	6	0.34		
6/18/2003		6/20/2003	2	0.11		
6/20/2003		6/20/2003	1	0.11		
7/28/2003		7/29/2003	1	0.06		
7/29/2003		7/31/2003	2	0.11		
7/31/2003		8/4/2003	4	0.23		
7/31/2003		8/4/2003	4	0.23		
8/14/2003		8/15/2003	1	0.11		
8/14/2003		8/15/2003	1	0.11		
8/26/2003		9/3/2003	8	0.45		
8/28/2003		8/29/2003	1	0.11		
8/28/2003		8/29/2003	1	0.11		
8/28/2003		8/29/2003	1	0.11		
9/15/2003		9/16/2003	1	0.06		
10/27/2003		10/28/2003	1	0.06		
11/7/2003		11/10/2003	3	0.34		
11/7/2003		11/10/2003	3	0.34		
11/12/2003		11/12/2003	1	0.06		
11/12/2003		11/12/2003	1	0.06		
11/18/2003		12/1/2003	13	0.74		
12/9/2003		12/11/2003	2	0.11		
12/9/2003	12/10/2003	1	0.11			
12/9/2003	12/11/2003	2	0.11			
12/16/2003	12/18/2003	2	0.11			

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
El Segundo Beach	12/9/2003	12/16/2003	7	0.4		
	Hermosa Beach	4/15/2003	4/17/2003	2	0.23	
		4/15/2003	4/17/2003	2	0.23	
		6/3/2003	6/5/2003	2	0.11	
Latigo Shore	12/8/2003	12/9/2003	1	0.11		
	12/16/2003	12/18/2003	2	0.23		
	Malaga Cove	4/15/2003	4/17/2003	2	0.11	
		2/20/2003	2/25/2003	5	0.28	
	2/20/2003	2/24/2003	4	0.23		
	4/15/2003	4/22/2003	7	0.4		
Malibu Pier	9/9/2003	9/19/2003	10	0.57		
	1/7/2003	1/9/2003	2	0.23		
	4/15/2003	4/17/2003	2	0.23		
	5/6/2003	5/8/2003	2	0.23		
	6/17/2003	6/24/2003	7	0.8		
	8/6/2003	8/7/2003	1	0.11		
	8/12/2003	8/14/2003	2	0.23		
	9/9/2003	9/11/2003	2	0.23		
Malibu Point	10/7/2003	10/9/2003	2	0.23		
	4/15/2003	4/17/2003	2	0.11		
	4/22/2003	4/24/2003	2	0.11		
	5/6/2003	5/13/2003	7	0.4		
	6/17/2003	6/19/2003	2	0.11		
	8/12/2003	8/14/2003	2	0.11		
	9/9/2003	9/11/2003	2	0.11		
	9/30/2003	10/2/2003	2	0.23		
	10/7/2003	10/15/2003	8	0.91		
	12/2/2003	12/4/2003	2	0.23		
	12/9/2003	12/11/2003	2	0.23		
	Manhattan Beach	3/31/2003	4/1/2003	1	0.11	
		4/8/2003	4/10/2003	2	0.11	
4/11/2003		4/14/2003	3	0.34		
4/15/2003		4/17/2003	2	0.11		
4/29/2003		5/1/2003	2	0.11		
5/5/2003		5/5/2003	1	0.06		
8/19/2003		8/21/2003	2	0.11		
11/12/2003		11/12/2003	1	0.06		
Marina del Rey Beach		1/21/2003	1/22/2003	1	0.06	
		1/27/2003	1/28/2003	1	0.11	
	2/3/2003	2/5/2003	2	0.23		
	2/6/2003	2/10/2003	4	0.23		
	2/24/2003	2/24/2003	1	0.06		
	3/11/2003	3/14/2003	3	0.34		
	3/20/2003	3/21/2003	1	0.06		
	3/27/2003	3/28/2003	1	0.06		
	4/16/2003	4/17/2003	1	0.06		
	5/5/2003	5/19/2003	14	0.8		
	6/11/2003	6/12/2003	1	0.06		
	6/23/2003	6/30/2003	7	0.4		
	7/7/2003	7/8/2003	1	0.06		
	7/18/2003	7/21/2003	3	0.34		
	7/24/2003	7/28/2003	4	0.45		
	7/29/2003	8/5/2003	7	0.4		
	8/20/2003	8/22/2003	2	0.11		
	9/4/2003	9/11/2003	7	0.4		
	9/18/2003	9/19/2003	1	0.11		
	10/24/2003	10/28/2003	4	0.45		
	11/7/2003	11/10/2003	3	0.34		
	11/17/2003	11/18/2003	1	0.06		
	11/24/2003	12/2/2003	8	0.91		
12/2/2003	12/3/2003	1	0.06			
Palos Verdes Beach	1/6/2003	1/6/2003	1	0.11		
	1/13/2003	1/14/2003	1	0.11		
Paradise Cove	10/20/2003	10/30/2003	10	0.57		
	1/28/2003	2/4/2003	7	0.8		
	2/19/2003	2/21/2003	2	0.23		
	4/15/2003	4/17/2003	2	0.23		

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
Paradise Cove	11/25/2003	12/2/2003	7	0.8	
Puerco Beach	4/15/2003	4/17/2003	2	0.23	
	6/17/2003	6/19/2003	2	0.23	
Redondo Beach	1/9/2003	1/10/2003	1	0.11	
	1/13/2003	1/16/2003	3	0.17	
	1/15/2003	1/16/2003	1	0.11	
	1/17/2003	1/23/2003	6	0.68	
	1/17/2003	1/21/2003	4	0.45	
	1/28/2003	2/4/2003	7	0.8	
	2/3/2003	2/5/2003	2	0.23	
	2/3/2003	2/3/2003	1	0.11	
	2/10/2003	2/11/2003	1	0.06	
	3/5/2003	3/7/2003	2	0.11	
	3/27/2003	3/28/2003	1	0.06	
	3/31/2003	4/1/2003	1	0.11	
	4/3/2003	4/8/2003	5	0.28	
	4/15/2003	4/16/2003	1	0.06	
	4/15/2003	4/17/2003	2	0.11	
	5/6/2003	5/13/2003	7	0.8	
	5/27/2003	5/27/2003	1	0.11	
	6/3/2003	6/4/2003	1	0.06	
	6/6/2003	6/9/2003	3	0.34	
	6/10/2003	6/12/2003	2	0.11	
	6/13/2003	6/16/2003	3	0.34	
	7/22/2003	7/24/2003	2	0.11	
	7/28/2003	7/29/2003	1	0.06	
	7/30/2003	8/4/2003	5	0.28	
	9/8/2003	9/15/2003	7	3.7	
	9/16/2003	9/23/2003	7	0.8	
	9/22/2003	9/23/2003	1	0.06	
	9/26/2003	9/29/2003	3	0.34	
	10/1/2003	10/2/2003	1	0.11	
	10/24/2003	10/28/2003	4	0.45	
	10/27/2003	10/30/2003	3	0.34	
	10/28/2003	11/3/2003	6	0.34	
	11/12/2003	11/12/2003	1	0.06	
	11/24/2003	12/1/2003	7	0.8	
	11/25/2003	12/2/2003	7	0.4	
	12/9/2003	12/11/2003	2	0.11	
	12/9/2003	12/11/2003	2	0.11	
	12/9/2003	12/10/2003	1	0.06	
	12/11/2003	12/16/2003	5	0.28	
Royal Palms Beach - White's Point	4/15/2003	4/22/2003	7	0.4	
Santa Monica Beach	1/3/2003	1/6/2003	3	0.34	
	1/6/2003	1/7/2003	1	0.11	
	1/6/2003	1/7/2003	1	0.11	
	1/7/2003	1/9/2003	2	0.23	
	2/20/2003	2/24/2003	4	0.23	
	2/20/2003	2/24/2003	4	0.23	
	3/5/2003	3/6/2003	1	0.06	
	3/12/2003	3/14/2003	2	0.23	
	3/21/2003	3/24/2003	3	0.34	
	3/28/2003	3/31/2003	3	0.34	
	4/3/2003	4/7/2003	4	0.23	
	4/14/2003	4/17/2003	3	0.17	
	4/15/2003	4/16/2003	1	0.11	
	4/15/2003	4/17/2003	2	0.11	
	4/15/2003	4/16/2003	1	0.11	
	4/15/2003	4/16/2003	1	0.11	
	4/15/2003	4/22/2003	7	0.4	
	4/15/2003	4/17/2003	2	0.11	
	4/28/2003	4/29/2003	1	0.06	
Santa Monica Beach	5/5/2003	5/5/2003	1	0.11	
	5/5/2003	5/5/2003	1	0.11	
	5/5/2003	5/5/2003	1	0.11	
	5/9/2003	5/12/2003	3	0.34	

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source	
Santa Monica Beach	5/20/2003	5/27/2003	7	0.4		
	5/22/2003	5/27/2003	5	0.57		
	6/4/2003	6/5/2003	1	0.11		
	6/4/2003	6/5/2003	1	0.11		
	6/9/2003	6/10/2003	1	0.06		
	6/12/2003	6/13/2003	1	0.06		
	6/17/2003	6/24/2003	7	0.4		
	6/19/2003	6/20/2003	1	0.06		
	7/7/2003	7/7/2003	1	0.11		
	7/14/2003	7/15/2003	1	0.06		
	7/15/2003	7/17/2003	2	0.11		
	7/30/2003	7/31/2003	1	0.06		
	8/8/2003	8/11/2003	3	0.34		
	8/21/2003	8/22/2003	1	0.06		
	8/26/2003	8/28/2003	2	0.11		
	8/26/2003	9/3/2003	8	0.45		
	8/26/2003	8/28/2003	2	0.11		
	8/29/2003	9/2/2003	4	0.23		
	9/2/2003	9/2/2003	1	0.06		
	9/3/2003	9/4/2003	1	0.06		
	9/5/2003	9/8/2003	3	0.17		
	9/15/2003	9/22/2003	7	0.4		
	10/14/2003	10/15/2003	1	0.11		
	10/27/2003	10/30/2003	3	0.17		
	10/27/2003	10/30/2003	3	0.17		
	11/10/2003	11/12/2003	2	0.23		
	11/12/2003	11/12/2003	1	0.06		
	11/12/2003	11/12/2003	1	0.06		
	11/20/2003	11/21/2003	1	0.06		
	11/25/2003	11/26/2003	1	0.06		
	11/25/2003	12/1/2003	6	0.34		
	11/25/2003	12/2/2003	7	0.4		
	12/4/2003	12/5/2003	1	0.11		
	12/4/2003	12/5/2003	1	0.11		
	12/8/2003	12/9/2003	1	0.06		
	12/9/2003	12/11/2003	2	0.23		
	12/9/2003	12/11/2003	2	0.23		
	12/16/2003	12/18/2003	2	0.11		
	12/17/2003	12/19/2003	2	0.11		
	Santa Monica Beach	12/31/2003	1/2/2004	2	0.23	
	Surfrider Beach	1/3/2003	1/21/2003	18	2.05	
		1/28/2003	1/30/2003	2	0.11	
		2/6/2003	2/10/2003	4	0.23	
		3/4/2003	3/6/2003	2	0.23	
		3/13/2003	3/14/2003	1	0.06	
		3/20/2003	3/27/2003	7	0.8	
		3/28/2003	4/2/2003	5	0.57	
	4/7/2003	4/10/2003	3	2.78		
	4/15/2003	4/17/2003	2	0.23		
	4/28/2003	5/20/2003	22	1.25		
	5/22/2003	6/3/2003	12	1.36		
	6/9/2003	6/10/2003	1	0.11		
	6/11/2003	6/12/2003	1	0.11		
	6/23/2003	6/25/2003	2	0.11		
	7/1/2003	7/7/2003	6	0.68		
	7/7/2003	7/14/2003	7	0.8		
	7/15/2003	7/21/2003	6	0.68		
	7/29/2003	7/30/2003	1	0.11		
	8/8/2003	8/18/2003	10	1.14		
	8/21/2003	8/22/2003	1	0.11		
	9/2/2003	9/4/2003	2	0.23		
	9/5/2003	9/8/2003	3	0.34		
	9/11/2003	9/15/2003	4	0.45		
	9/15/2003	9/16/2003	1	0.11		
	10/7/2003	10/8/2003	1	0.11		
	10/10/2003	10/14/2003	4	0.45		

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source	
Surfrider Beach	10/15/2003	10/22/2003	7	0.8		
	10/23/2003	10/24/2003	1	0.11		
	10/27/2003	11/3/2003	7	0.8		
	11/7/2003	11/12/2003	5	0.57		
	11/19/2003	12/1/2003	12	1.36		
	12/2/2003	12/10/2003	8	0.91		
	12/11/2003	12/15/2003	4	0.45		
	12/19/2003	12/23/2003	4	0.45		
	12/31/2003	1/2/2004	2	0.23		
	Topanga Beach	2/24/2003	2/24/2003	1	0.11	
		3/11/2003	3/14/2003	3	0.34	
		3/20/2003	3/21/2003	1	0.11	
3/24/2003		3/26/2003	2	0.23		
4/15/2003		4/17/2003	2	0.23		
5/5/2003		5/7/2003	2	0.23		
5/19/2003		5/21/2003	2	0.23		
Topanga Beach	6/2/2003	6/3/2003	1	0.11		
	6/10/2003	6/11/2003	1	0.11		
	6/20/2003	6/20/2003	1	0.11		
	6/23/2003	6/24/2003	1	0.11		
	6/27/2003	7/7/2003	10	1.14		
	7/7/2003	7/9/2003	2	0.23		
	7/16/2003	7/22/2003	6	0.68		
	8/22/2003	8/25/2003	3	0.34		
	9/17/2003	9/19/2003	2	0.23		
	10/27/2003	10/28/2003	1	0.11		
	12/8/2003	12/9/2003	1	0.11		
	Venice Beach	1/21/2003	1/22/2003	1	0.11	
		4/15/2003	4/17/2003	2	0.23	
4/15/2003		4/17/2003	2	0.23		
4/15/2003		4/22/2003	7	0.8		
4/15/2003		4/17/2003	2	0.23		
5/6/2003		5/8/2003	2	0.23		
5/6/2003		5/8/2003	2	0.23		
8/26/2003		9/3/2003	8	0.45		
8/26/2003		8/28/2003	2	0.23		
11/12/2003		11/12/2003	1	0.11		
11/18/2003		11/20/2003	2	0.23		
11/25/2003		12/2/2003	7	0.8		
11/25/2003		12/2/2003	7	0.8		
12/9/2003		12/11/2003	2	0.23		
12/9/2003		12/16/2003	7	0.8		
Will Rogers State Beach		1/6/2003	1/9/2003	3	0.34	
		1/17/2003	1/27/2003	10	1.14	
	1/30/2003	2/3/2003	4	0.45		
	2/24/2003	2/25/2003	1	0.11		
	3/6/2003	3/14/2003	8	0.91		
	3/24/2003	3/25/2003	1	0.11		
	3/26/2003	3/27/2003	1	0.11		
	4/15/2003	4/16/2003	1	0.11		
	4/15/2003	4/17/2003	2	0.23		
	4/15/2003	4/22/2003	7	0.8		
	4/15/2003	4/17/2003	2	0.23		
	4/15/2003	4/17/2003	2	0.23		
	5/5/2003	5/19/2003	14	0.8		
	5/5/2003	5/5/2003	1	0.11		
	5/9/2003	5/12/2003	3	0.34		
	5/29/2003	5/30/2003	1	0.11		
	7/1/2003	7/3/2003	2	0.11		
Will Rogers State Beach	7/1/2003	7/3/2003	2	0.11		
	8/25/2003	8/28/2003	3	0.34		
	8/26/2003	8/28/2003	2	0.23		
	9/16/2003	9/18/2003	2	0.23		
	9/23/2003	9/25/2003	2	0.11		
	10/28/2003	10/30/2003	2	0.23		
	11/7/2003	11/12/2003	5	0.57		

## Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
Will Rogers State Beach	11/12/2003	11/12/2003	1	0.11	
	11/12/2003	11/12/2003	1	0.11	
	12/8/2003	12/9/2003	1	0.11	
Zuma Beach	4/15/2003	4/17/2003	2	0.23	

**Number of Beach Postings: 390**

**Sum of Days: 1256**

**Sum of Beach Mile Days: 110.66**

# City of Long Beach Health Dept

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
10th Place-Beach	9/3/2003	9/10/2003	7	0.2	UNKNOWN	UNKNOWN
	9/9/2003	9/10/2003	1	0.03	UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
16th Place-Beach	8/12/2003	8/13/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/5/2003	2	0.06	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
1st & Bayshore	2/25/2003	2/26/2003	1	0.03	UNKNOWN	UNKNOWN
2nd St Bridge & Bayshore	2/4/2003	2/5/2003	1	0.03	UNKNOWN	UNKNOWN
	3/25/2003	3/26/2003	1	0.03	UNKNOWN	UNKNOWN
36th Place Beach	9/9/2003	9/11/2003	2	0.06	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03	UNKNOWN	UNKNOWN
3rd Place Beach	6/16/2003	6/18/2003	2	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/6/2003	3	0.09	UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03	UNKNOWN	UNKNOWN
	10/28/2003	10/29/2003	1	0.03	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	3/11/2003	3/12/2003	1	0.03	UNKNOWN	UNKNOWN
	3/25/2003	3/26/2003	1	0.03	UNKNOWN	UNKNOWN
54th Place Beach	7/29/2003	7/30/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/9/2003	6	0.17	UNKNOWN	UNKNOWN
	10/7/2003	10/9/2003	2	0.06	UNKNOWN	UNKNOWN
	10/21/2003	10/22/2003	1	0.03	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	8/12/2003	8/14/2003	2	0.06	UNKNOWN	UNKNOWN
55th Place Beach	8/19/2003	8/20/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/16/2003	9/18/2003	2	0.06	UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
	8/12/2003	8/13/2003	1	0.03	UNKNOWN	UNKNOWN
56th Place on Bayside	9/3/2003	9/4/2003	1	0.03	UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03	UNKNOWN	UNKNOWN
5th Place Beach	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
	4/8/2003	4/9/2003	1	0.03	UNKNOWN	UNKNOWN
62nd Place-Beach	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/9/2003	6	0.17	UNKNOWN	UNKNOWN
	10/7/2003	10/9/2003	2	0.06	UNKNOWN	UNKNOWN
72nd Place Beach	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03	UNKNOWN	UNKNOWN
	8/12/2003	8/13/2003	1	0.03	UNKNOWN	UNKNOWN
	8/19/2003	8/20/2003	1	0.03	UNKNOWN	UNKNOWN
	9/3/2003	9/5/2003	2	0.06	UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03	UNKNOWN	UNKNOWN
	10/7/2003	10/8/2003	1	0.03	UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09	UNKNOWN	UNKNOWN
8th Place Beach	2/4/2003	2/7/2003	3	0.09	UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03	UNKNOWN	UNKNOWN
	2/25/2003	2/26/2003	1	0.03	UNKNOWN	UNKNOWN
	8/12/2003	8/13/2003	1	0.03	UNKNOWN	UNKNOWN
	8/19/2003	8/20/2003	1	0.03	UNKNOWN	UNKNOWN



Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
Alamitos-Bay shore float	9/3/2003	9/4/2003	1	0.03 UNKNOWN	UNKNOWN
	9/16/2003	9/18/2003	2	0.06 UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03 UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09 UNKNOWN	UNKNOWN
	1/8/2003	1/9/2003	1	0.03 UNKNOWN	UNKNOWN
	2/4/2003	2/5/2003	1	0.03 UNKNOWN	UNKNOWN
	4/8/2003	4/9/2003	1	0.03 UNKNOWN	UNKNOWN
	4/29/2003	4/30/2003	1	0.03 UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03 UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03 UNKNOWN	UNKNOWN
Belmont Pier-east side	7/8/2003	7/9/2003	1	0.03 UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03 UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03 UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09 UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03 UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03 UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03 UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03 UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09 UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03 UNKNOWN	UNKNOWN
Belmont Pier-west side	5/20/2003	5/21/2003	1	0.03 UNKNOWN	UNKNOWN
	2/4/2003	2/5/2003	1	0.03 UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03 UNKNOWN	UNKNOWN
	7/29/2003	8/6/2003	8	0.23 UNKNOWN	UNKNOWN
	8/26/2003	8/27/2003	1	0.03 UNKNOWN	UNKNOWN
	9/9/2003	9/11/2003	2	0.06 UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09 UNKNOWN	UNKNOWN
	5/8/2003	5/9/2003	1	0.03 UNKNOWN	UNKNOWN
	7/21/2003	7/22/2003	1	0.03 UNKNOWN	UNKNOWN
	11/18/2003	11/19/2003	1	0.03 UNKNOWN	UNKNOWN
Colorado Lagoon-south	5/20/2003	5/21/2003	1	0.03 UNKNOWN	UNKNOWN
	5/20/2003	5/21/2003	1	0.03 UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03 UNKNOWN	UNKNOWN
	9/23/2003	9/24/2003	1	0.03 UNKNOWN	UNKNOWN
	10/28/2003	10/29/2003	1	0.03 UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03 UNKNOWN	UNKNOWN
	7/29/2003	7/30/2003	1	0.03 UNKNOWN	UNKNOWN
	9/3/2003	9/6/2003	3	0.09 UNKNOWN	UNKNOWN
	11/25/2003	11/26/2003	1	0.03 UNKNOWN	UNKNOWN
	8/12/2003	8/14/2003	2	0.06 UNKNOWN	UNKNOWN
Granada Ave Beach	9/3/2003	9/4/2003	1	0.03 UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03 UNKNOWN	UNKNOWN
	10/14/2003	10/15/2003	1	0.03 UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09 UNKNOWN	UNKNOWN
	1/8/2003	1/9/2003	1	0.03 UNKNOWN	UNKNOWN
	1/22/2003	1/24/2003	2	0.06 UNKNOWN	UNKNOWN
	2/19/2003	2/22/2003	3	0.09 UNKNOWN	UNKNOWN
	3/11/2003	3/14/2003	3	0.09 UNKNOWN	UNKNOWN
	5/8/2003	5/9/2003	1	0.03 UNKNOWN	UNKNOWN
	6/3/2003	6/4/2003	1	0.03 UNKNOWN	UNKNOWN
Molino Ave Beach	9/3/2003	9/5/2003	2	0.06 UNKNOWN	UNKNOWN
	10/21/2003	10/22/2003	1	0.03 UNKNOWN	UNKNOWN
	11/25/2003	11/27/2003	2	0.06 UNKNOWN	UNKNOWN
	1/28/2003	1/29/2003	1	0.03 UNKNOWN	UNKNOWN
	10/7/2003	10/8/2003	1	0.03 UNKNOWN	UNKNOWN
	12/2/2003	12/3/2003	1	0.03 UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03 UNKNOWN	UNKNOWN
	3/4/2003	3/5/2003	1	0.03 UNKNOWN	UNKNOWN
	6/3/2003	6/4/2003	1	0.03 UNKNOWN	UNKNOWN
	8/12/2003	8/14/2003	2	0.06 UNKNOWN	UNKNOWN
Mothers Beach	9/3/2003	9/4/2003	1	0.03 UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03 UNKNOWN	UNKNOWN
	12/23/2003	12/26/2003	3	0.09 UNKNOWN	UNKNOWN
	1/8/2003	1/9/2003	1	0.03 UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03 UNKNOWN	UNKNOWN
	3/11/2003	3/14/2003	3	0.09 UNKNOWN	UNKNOWN
	5/8/2003	5/9/2003	1	0.03 UNKNOWN	UNKNOWN
	6/3/2003	6/4/2003	1	0.03 UNKNOWN	UNKNOWN
	9/3/2003	9/5/2003	2	0.06 UNKNOWN	UNKNOWN
	10/21/2003	10/22/2003	1	0.03 UNKNOWN	UNKNOWN
Prospect Ave Beach	11/25/2003	11/27/2003	2	0.06 UNKNOWN	UNKNOWN
	1/28/2003	1/29/2003	1	0.03 UNKNOWN	UNKNOWN
	10/7/2003	10/8/2003	1	0.03 UNKNOWN	UNKNOWN
	12/2/2003	12/3/2003	1	0.03 UNKNOWN	UNKNOWN
	2/19/2003	2/20/2003	1	0.03 UNKNOWN	UNKNOWN
	3/4/2003	3/5/2003	1	0.03 UNKNOWN	UNKNOWN
	6/3/2003	6/4/2003	1	0.03 UNKNOWN	UNKNOWN
	8/12/2003	8/14/2003	2	0.06 UNKNOWN	UNKNOWN
	9/3/2003	9/4/2003	1	0.03 UNKNOWN	UNKNOWN
	9/16/2003	9/17/2003	1	0.03 UNKNOWN	UNKNOWN
12/23/2003	12/26/2003	3	0.09 WILDLIFE	UNKNOWN	

Number of Beach Postings: 113  
 Sum of Days: 181  
 Sum of Beach Mile Days: 5.36

# Orange County Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source	
Aliso County Beach	1/3/2003	1/4/2003	1	0.47			
	1/7/2003	1/8/2003	1	0.06			
	1/21/2003	1/25/2003	4	0.23			
	1/21/2003	1/25/2003	4	0.76			
	2/19/2003	2/20/2003	1	0.06			
	3/11/2003	3/12/2003	1	0.06			
	9/4/2003	9/5/2003	1	0.06			
	10/9/2003	10/11/2003	2	0.11			
	Bolsa Chica State Beach	6/17/2003	6/18/2003	1	0.06		
		7/30/2003	8/1/2003	2	0.11		
8/10/2003		8/13/2003	3	0.17			
8/15/2003		8/17/2003	2	0.11			
9/10/2003		9/11/2003	1	0.06			
9/19/2003		9/21/2003	2	0.11			
9/28/2003		9/30/2003	2	0.11			
10/14/2003		10/15/2003	1	0.06			
Capistrano Bay District		1/15/2003	4/10/2003	85	136		
		6/11/2003	6/14/2003	3	0.17		
	7/22/2003	7/24/2003	2	0.38			
	7/30/2003	8/6/2003	7	1.33			
	9/30/2003	10/3/2003	3	0.57			
Capistrano Beach	1/1/2003	4/10/2003	99	24.75			
	5/13/2003	5/14/2003	1	0.06			
Crystal Cove State Park	4/4/2003	4/8/2003	4	0.23			
Dana Point	12/23/2003	12/25/2003	2	0.11			
Dana Point Harbor	1/1/2003	12/31/2003	364	20.68			
	1/1/2003	5/3/2003	122	4.76			
	1/31/2003	2/4/2003	4	0.23			
	6/13/2003	6/18/2003	5	0.06			
	6/27/2003	6/29/2003	2	0.02			
	7/16/2003	7/18/2003	2	0.02			
	7/25/2003	7/27/2003	2	0.09			
	8/15/2003	8/23/2003	8	0.09			
	8/29/2003	12/31/2003	124	4.82			
	Doheny State Beach	1/1/2003	8/6/2003	217	175.82		
		8/12/2003	8/15/2003	3	2.67		
		8/21/2003	9/10/2003	20	3.73		
		8/29/2003	8/31/2003	2	0.11		
9/10/2003		12/31/2003	112	61.4			
9/16/2003		9/19/2003	3	0.17			
7/4/2003		7/5/2003	1	0.06			
Huntington City Beach	1/3/2003	1/5/2003	2	3.6			
	1/7/2003	1/8/2003	1	1.3			
	1/7/2003	1/8/2003	1	0.66			
	1/17/2003	1/19/2003	2	0.11			
	1/29/2003	1/30/2003	1	0.06			
	1/31/2003	2/2/2003	2	0.11			
	2/20/2003	2/21/2003	1	0.03			
	3/9/2003	3/12/2003	3	0.17			
	3/21/2003	3/23/2003	2	0.25			
	3/28/2003	3/30/2003	2	0.11			
	4/13/2003	4/15/2003	2	0.11			
	4/15/2003	4/19/2003	4	0.23			
	5/22/2003	5/23/2003	1	0.06			
	7/18/2003	7/20/2003	2	0.11			

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Huntington City Beach	7/30/2003	7/31/2003	1	0.09		
	8/12/2003	8/13/2003	1	0.09		
	9/22/2003	9/23/2003	1	0.06		
	11/21/2003	11/23/2003	2	0.38		
	11/25/2003	11/26/2003	1	0.06		
	11/30/2003	12/2/2003	2	0.11		
Huntington Harbour	12/23/2003	12/25/2003	2	0.06		
	1/1/2003	3/8/2003	66	1.88		
	1/1/2003	1/17/2003	16	0.91		
	1/1/2003	1/9/2003	8	0.45		
	1/16/2003	1/29/2003	13	0.74		
	1/30/2003	2/6/2003	7	0.4		
	1/30/2003	3/6/2003	35	0.5		
	1/30/2003	2/2/2003	3	0.17		
	2/20/2003	3/6/2003	14	0.8		
	3/6/2003	3/8/2003	2	0.11		
	3/6/2003	3/8/2003	2	0.11		
	3/20/2003	3/22/2003	2	0.11		
	3/20/2003	3/22/2003	2	0.11		
	3/20/2003	3/22/2003	2	0.11		
	3/27/2003	3/29/2003	2	0.11		
	4/10/2003	5/2/2003	22	1.25		
	5/8/2003	5/10/2003	2	0.11		
	5/8/2003	5/10/2003	2	0.03		
	5/22/2003	5/24/2003	2	0.11		
	5/30/2003	5/31/2003	1	0.06		
	6/5/2003	6/8/2003	3	0.17		
	6/5/2003	6/11/2003	6	0.34		
	6/19/2003	7/10/2003	21	1.19		
	6/19/2003	6/23/2003	4	0.23		
	8/7/2003	8/9/2003	2	0.03		
	8/21/2003	8/23/2003	2	0.11		
	9/5/2003	9/7/2003	2	0.11		
	10/2/2003	10/4/2003	2	0.11		
	10/17/2003	10/18/2003	1	0.06		
	10/30/2003	11/3/2003	4	0.23		
	11/13/2003	11/20/2003	7	0.4		
	11/25/2003	11/27/2003	2	0.03		
	12/4/2003	12/6/2003	2	0.11		
	12/4/2003	12/6/2003	2	0.03		
	12/23/2003	12/31/2003	8	0.23		
	12/30/2003	12/31/2003	1	0.06		
Huntington State Beach	1/5/2003	1/7/2003	2	0.11		
	1/7/2003	1/8/2003	1	0.06		
	1/7/2003	1/8/2003	1	0.09		
	1/17/2003	1/24/2003	7	1.19		
	1/26/2003	1/30/2003	4	0.36		
	1/31/2003	2/2/2003	2	2.6		
	2/20/2003	2/21/2003	1	0.03		
	2/23/2003	2/24/2003	1	0.75		
	3/6/2003	3/7/2003	1	0.06		
	3/20/2003	3/21/2003	1	0.09		
	3/21/2003	3/25/2003	4	0.91		
	3/27/2003	3/29/2003	2	0.11		
	4/13/2003	4/22/2003	9	2.45		
	5/15/2003	5/16/2003	1	0.75		
	5/16/2003	5/20/2003	4	0.49		
	6/3/2003	6/4/2003	1	0.06		
	6/4/2003	6/5/2003	1	0.06		
	6/6/2003	6/8/2003	2	0.11		
	6/15/2003	6/18/2003	3	0.44		
	6/29/2003	7/4/2003	5	3.06		
7/11/2003	7/17/2003	6	3.38			
7/18/2003	7/20/2003	2	3.6			
7/22/2003	7/24/2003	2	0.11			
7/29/2003	8/3/2003	5	4.3			

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Huntington State Beach	8/8/2003	8/19/2003	11	13.74		
	8/27/2003	8/29/2003	2	0.25		
	8/31/2003	9/3/2003	3	0.3		
	9/10/2003	9/12/2003	2	1.36		
	9/14/2003	9/17/2003	3	3.6		
	9/28/2003	9/30/2003	2	1.32		
	10/3/2003	10/6/2003	3	2.25		
	10/12/2003	10/15/2003	3	0.11		
	10/29/2003	10/31/2003	2	0.25		
	11/12/2003	11/13/2003	1	0.06		
	11/21/2003	11/30/2003	9	6.36		
	12/5/2003	12/14/2003	9	1.9		
	12/21/2003	12/23/2003	2	0.11		
	12/23/2003	12/25/2003	2	0.06		
	Laguna Beach	1/3/2003	1/4/2003	1	0.06	
1/3/2003		1/7/2003	4	0.23		
1/3/2003		1/8/2003	5	0.28		
1/7/2003		1/8/2003	1	0.06		
1/21/2003		1/25/2003	4	0.23		
1/21/2003		1/25/2003	4	0.23		
6/24/2003		6/25/2003	1	0.25		
6/24/2003		6/25/2003	1	0.06		
7/2/2003		7/4/2003	2	0.11		
10/28/2003		10/31/2003	3	0.17		
10/28/2003		10/31/2003	3	0.17		
10/28/2003		10/29/2003	1	0.06		
11/12/2003		11/15/2003	3	0.17		
1/29/2003		1/31/2003	2	0.11		
2/21/2003		2/24/2003	3	0.28		
Monarch Beach	7/30/2003	8/6/2003	7	0.4		
	10/10/2003	10/31/2003	21	1.19		
	11/25/2003	11/30/2003	5	0.28		
	1/1/2003	12/31/2003	364	20.68		
	1/1/2003	12/31/2003	364	20.68		
Newport Bay	1/1/2003	12/31/2003	364	5.17		
	1/7/2003	1/9/2003	2	0.02		
	1/7/2003	1/9/2003	2	0.11		
	1/7/2003	1/9/2003	2	0.02		
	1/7/2003	1/9/2003	2	0.02		
	1/7/2003	1/9/2003	2	0.06		
	1/7/2003	1/9/2003	2	0.06		
	1/7/2003	1/9/2003	2	0.06		
	1/7/2003	1/9/2003	2	0.11		
	1/7/2003	1/9/2003	2	0.11		
	1/14/2003	1/16/2003	2	0.11		
	1/14/2003	1/16/2003	2	0.06		
	1/14/2003	1/16/2003	2	0.02		
	1/14/2003	1/16/2003	2	0.06		
	1/22/2003	1/25/2003	3	0.03		
	1/28/2003	2/4/2003	7	0.08		
	2/4/2003	3/4/2003	28	0.8		
	2/7/2003	2/8/2003	1	0.03		
	2/7/2003	2/11/2003	4	0.23		
	2/19/2003	2/21/2003	2	0.03		
	3/4/2003	5/1/2003	58	3.3		
	3/11/2003	3/13/2003	2	0.06		
	3/25/2003	3/28/2003	3	0.04		
	3/25/2003	3/28/2003	3	0.04		
	3/25/2003	3/28/2003	3	0.03		
	3/25/2003	3/28/2003	3	0.17		
	3/25/2003	3/28/2003	3	0.17		
	4/8/2003	4/10/2003	2	0.06		
	4/8/2003	4/10/2003	2	0.03		
	4/8/2003	4/10/2003	2	0.11		
	4/22/2003	4/24/2003	2	0.03		
	4/22/2003	4/24/2003	2	0.11		
	4/22/2003	4/26/2003	4	0.11		

Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source	
Newport Bay	4/22/2003	4/24/2003	2	0.03		
	5/13/2003	5/14/2003	1	0.03		
	5/20/2003	5/22/2003	2	0.03		
	6/10/2003	6/14/2003	4	0.23		
	7/2/2003	7/4/2003	2	0.11		
	7/8/2003	7/12/2003	4	0.05		
	7/8/2003	7/10/2003	2	0.06		
	7/15/2003	8/20/2003	36	0.51		
	7/15/2003	8/5/2003	21	0.24		
	7/22/2003	7/24/2003	2	0.02		
	7/22/2003	7/24/2003	2	0.02		
	7/29/2003	8/5/2003	7	0.4		
	8/5/2003	8/7/2003	2	0.06		
	8/5/2003	8/7/2003	2	0.11		
	8/5/2003	8/7/2003	2	0.02		
	8/12/2003	8/20/2003	8	0.09		
	8/12/2003	8/14/2003	2	0.06		
	8/22/2003	8/28/2003	6	0.34		
	8/22/2003	9/23/2003	32	1.82		
	8/22/2003	8/25/2003	3	0.03		
	9/3/2003	9/9/2003	6	0.34		
	9/9/2003	9/13/2003	4	0.23		
	9/9/2003	9/11/2003	2	0.03		
	9/9/2003	9/11/2003	2	0.02		
	9/16/2003	9/23/2003	7	0.4		
	9/23/2003	9/25/2003	2	0.11		
	9/23/2003	9/25/2003	2	0.02		
	9/23/2003	9/25/2003	2	0.11		
	9/23/2003	9/25/2003	2	0.03		
	9/30/2003	10/2/2003	2	0.11		
	10/7/2003	10/9/2003	2	0.02		
	11/13/2003	11/15/2003	2	0.02		
	11/13/2003	11/15/2003	2	0.06		
	11/25/2003	11/30/2003	5	0.07		
	11/25/2003	11/27/2003	2	0.02		
	12/23/2003	12/25/2003	2	0.03		
	12/23/2003	12/25/2003	2	0.02		
	12/23/2003	12/25/2003	2	0.02		
	12/30/2003	12/31/2003	1	0.06		
	Newport Beach	1/1/2003	1/18/2003	17	0.19	
		1/1/2003	1/18/2003	17	0.19	
		1/5/2003	1/8/2003	3	0.3	
		1/17/2003	1/19/2003	2	0.11	
		1/22/2003	1/23/2003	1	0.06	
		1/24/2003	2/2/2003	9	0.1	
		1/24/2003	1/31/2003	7	0.08	
		1/29/2003	1/31/2003	2	0.11	
		1/30/2003	2/4/2003	5	0.47	
		1/31/2003	2/2/2003	2	1.5	
		2/5/2003	2/6/2003	1	0.06	
		2/6/2003	4/25/2003	78	0.89	
		2/6/2003	2/8/2003	2	0.02	
		2/19/2003	2/21/2003	2	3.06	
2/21/2003		2/23/2003	2	0.11		
2/24/2003		3/4/2003	8	1.7		
3/6/2003		3/8/2003	2	0.02		
3/7/2003		3/9/2003	2	0.11		
3/11/2003		3/12/2003	1	0.06		
3/13/2003		3/25/2003	12	0.87		
3/20/2003		4/30/2003	41	0.47		
4/21/2003		4/22/2003	1	0.06		
5/22/2003		5/24/2003	2	0.25		
5/30/2003		5/31/2003	1	0.01		
6/4/2003		6/5/2003	1	0.06		
6/6/2003		6/8/2003	2	0.11		
6/6/2003		6/8/2003	2	0.11		

# Appendix C - 2003 County-specific Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS Cause	Source
Newport Beach	6/17/2003	6/18/2003	1	0.06	
	6/26/2003	7/3/2003	7	0.08	
	7/2/2003	7/3/2003	1	0.06	
	7/3/2003	7/4/2003	1	0.06	
	7/10/2003	8/29/2003	50	0.57	
	7/16/2003	7/17/2003	1	0.06	
	7/27/2003	7/29/2003	2	0.11	
	7/27/2003	7/29/2003	2	0.11	
	8/10/2003	8/13/2003	3	0.17	
	8/14/2003	8/16/2003	2	0.11	
	8/14/2003	8/16/2003	2	0.11	
	10/23/2003	12/31/2003	69	0.78	
	11/13/2003	11/20/2003	7	0.08	
	11/21/2003	11/26/2003	5	11.2	
	12/5/2003	12/7/2003	2	0.11	
	12/21/2003	12/23/2003	2	0.11	
	12/30/2003	12/31/2003	1	0.06	
12/30/2003	12/31/2003	1	0.01		
Poche County Beach	1/17/2003	4/30/2003	103	19.51	
	6/11/2003	6/14/2003	3	0.57	
	7/2/2003	7/12/2003	10	0.57	
	7/15/2003	7/16/2003	1	0.06	
	7/22/2003	8/29/2003	38	3.35	
	9/9/2003	9/12/2003	3	0.17	
	9/30/2003	10/3/2003	3	0.57	
11/12/2003	11/22/2003	10	0.57		
Salt Creek County Beach Park	1/3/2003	1/4/2003	1	0.06	
	7/23/2003	7/25/2003	2	0.11	
	10/10/2003	10/14/2003	4	0.23	
	10/21/2003	10/22/2003	1	0.06	
	10/24/2003	10/29/2003	5	0.28	
San Clemente City Beach	12/31/2003	12/31/2003	1	0.06	
	1/1/2003	1/8/2003	7	0.4	
	1/15/2003	1/17/2003	2	0.11	
	1/15/2003	1/19/2003	4	0.23	
	1/17/2003	1/23/2003	6	0.34	
	1/21/2003	3/8/2003	46	2.61	
	2/5/2003	3/15/2003	38	2.16	
	2/5/2003	3/8/2003	31	1.76	
	3/21/2003	3/23/2003	2	0.11	
	8/1/2003	8/3/2003	2	0.28	
	8/19/2003	8/21/2003	2	0.11	
	9/19/2003	9/21/2003	2	0.11	
	10/28/2003	10/29/2003	1	0.06	
	11/21/2003	11/25/2003	4	0.23	
	Seal Beach/Surfside	2/20/2003	2/25/2003	5	0.28
3/1/2003		3/6/2003	5	0.28	
3/20/2003		3/22/2003	2	0.11	
3/25/2003		3/27/2003	2	0.19	
5/30/2003		5/31/2003	1	0.06	
7/17/2003		7/19/2003	2	0.11	
9/18/2003		9/20/2003	2	0.11	
11/13/2003		11/15/2003	2	0.11	
11/13/2003		11/15/2003	2	0.11	
11/22/2003		11/25/2003	3	0.17	
11/25/2003		11/27/2003	2	0.19	
12/23/2003		12/25/2003	2	0.11	
12/30/2003		12/31/2003	1	0.19	

**Number of Beach Postings: 312**  
**Sum of Days: 3919**  
**Sum of Beach Mile Days: 641.8**

# San Diego County Environmental Health

## 2003 - Beach Postings

Beach Name	Date Posted	Date Opened	Days Posted	BMDS	Cause	Source
Border Field State Park	1/24/2003	2/11/2003	18	1.02	UNKNOWN	UNKNOWN
	6/19/2003	6/25/2003	6	1.14	UNKNOWN	UNKNOWN
Cardiff State Beach	2/13/2003	3/10/2003	25	1.42	UNKNOWN	UNKNOWN
	3/19/2003	3/24/2003	5	0.28	UNKNOWN	UNKNOWN
	3/26/2003	3/28/2003	2	0.11	UNKNOWN	UNKNOWN
	4/15/2003	4/23/2003	8	0.45	UNKNOWN	UNKNOWN
	7/18/2003	7/23/2003	5	0.28	UNKNOWN	UNKNOWN
Carlsbad municipal beach	4/18/2003	4/22/2003	4	0.23	LAGOON_OPE	DRY_CREEK_RIV
	7/14/2003	7/16/2003	2	0.11	LAGOON_OPE	DRY_CREEK_RIV
	11/6/2003	11/8/2003	2	0.11	LAGOON_OPE	DRY_CREEK_RIV
	6/11/2003	6/13/2003	2	0.11	UNKNOWN	UNKNOWN
Coronado municipal beach, other	4/14/2003	4/25/2003	11	1.25	LAGOON_OPE	DRY_CREEK_RIV
Del Mar municipal beach, other	8/28/2003	8/30/2003	2	0.11	LAGOON_OPE	DRY_CREEK_RIV
	9/5/2003	9/9/2003	4	0.45	LAGOON_OPE	DRY_CREEK_RIV
Fletcher Cove	1/17/2003	1/19/2003	2	0.11	PUMP_STATIO	SEWAGE
	6/10/2003	6/12/2003	2	0.11	UNKNOWN	UNKNOWN
Imperial Beach municipal beach, other	1/22/2003	1/24/2003	2	0.11	UNKNOWN	UNKNOWN
	1/22/2003	1/24/2003	2	0.11	UNKNOWN	UNKNOWN
	2/23/2003	2/24/2003	1	0.06	UNKNOWN	UNKNOWN
	5/23/2003	5/25/2003	2	0.11	UNKNOWN	UNKNOWN
	8/14/2003	8/15/2003	1	0.06	UNKNOWN	UNKNOWN
	9/3/2003	9/5/2003	2	0.11	UNKNOWN	UNKNOWN
	9/12/2003	9/13/2003	1	0.06	UNKNOWN	UNKNOWN
Kellogg St.(Lawrence)	4/10/2003	4/11/2003	1	0.06	UNKNOWN	UNKNOWN
La Jolla Cove	8/29/2003	8/30/2003	1	0.06	UNKNOWN	UNKNOWN
La Jolla Shores Beach	4/10/2003	4/11/2003	1	0.06	UNKNOWN	UNKNOWN
	7/10/2003	7/12/2003	2	0.11	UNKNOWN	UNKNOWN
	7/10/2003	7/12/2003	2	0.11	UNKNOWN	UNKNOWN
	8/27/2003	8/29/2003	2	0.11	UNKNOWN	UNKNOWN
	9/5/2003	9/7/2003	2	0.23	WATER_LINE_	WET_URBAN_RU
	9/11/2003	9/13/2003	2	0.11	UNKNOWN	UNKNOWN
	9/15/2003	9/20/2003	5	0.28	WATER_LINE_	WET_URBAN_RU
	6/10/2003	6/12/2003	2	0.11	UNKNOWN	UNKNOWN
	10/24/2003	10/30/2003	6	0.34	UNKNOWN	UNKNOWN
	10/24/2003	10/30/2003	6	0.34	UNKNOWN	UNKNOWN
Mission Bay, Campland On The Bay	1/1/2003	4/3/2003	92	5.23	UNKNOWN	UNKNOWN
	4/18/2003	5/1/2003	13	0.74	UNKNOWN	UNKNOWN
	6/26/2003	6/27/2003	1	0.06	UNKNOWN	UNKNOWN
	7/8/2003	7/10/2003	2	0.11	UNKNOWN	UNKNOWN
	8/6/2003	8/8/2003	2	0.11	UNKNOWN	UNKNOWN
	9/11/2003	9/12/2003	1	0.06	UNKNOWN	UNKNOWN
	10/1/2003	10/3/2003	2	0.11	UNKNOWN	UNKNOWN
	10/31/2003	11/1/2003	1	0.06	UNKNOWN	UNKNOWN
	11/7/2003	11/26/2003	19	1.08	UNKNOWN	UNKNOWN
	12/5/2003	12/13/2003	8	0.45	UNKNOWN	UNKNOWN
	4/18/2003	4/22/2003	4	0.23	UNKNOWN	UNKNOWN
	2/27/2003	3/6/2003	7	0.4	UNKNOWN	UNKNOWN
	Mission Bay, Crown Point Shores	3/21/2003	3/26/2003	5	0.28	UNKNOWN
4/10/2003		4/11/2003	1	0.06	UNKNOWN	UNKNOWN
4/18/2003		5/1/2003	13	0.74	UNKNOWN	UNKNOWN
7/8/2003		7/10/2003	2	0.11	UNKNOWN	UNKNOWN
8/4/2003		8/13/2003	9	0.51	UNKNOWN	UNKNOWN
Mission Bay, De Anza Cove	9/1/2003	9/4/2003	3	0.17	UNKNOWN	UNKNOWN
	1/15/2003	1/18/2003	3	0.28	UNKNOWN	UNKNOWN
	10/7/2003	10/16/2003	9	0.51	UNKNOWN	UNKNOWN
	10/31/2003	11/5/2003	5	0.28	UNKNOWN	UNKNOWN
Mission Bay, Fanuel Park	1/15/2003	1/18/2003	3	0.28	UNKNOWN	UNKNOWN
	10/7/2003	10/16/2003	9	0.51	UNKNOWN	UNKNOWN
Mission Bay, Fanuel Park	10/7/2003	10/16/2003	9	0.51	UNKNOWN	UNKNOWN
	10/31/2003	11/5/2003	5	0.28	UNKNOWN	UNKNOWN
Beach Name	Date	Date	Days	BMDS	Cause	Source

Appendix C - 2003 County-specific Beach Postings

Beach Name	Posted	Opened	Days Posted	BMDS	Cause	Source	
Mission Bay, Leisure Lagoon	4/3/2003	4/5/2003	2	0.11	UNKNOWN	UNKNOWN	
	4/18/2003	4/22/2003	4	0.23	UNKNOWN	UNKNOWN	
	5/27/2003	5/29/2003	2	0.11	UNKNOWN	UNKNOWN	
	6/9/2003	6/10/2003	1	0.06	UNKNOWN	UNKNOWN	
	6/23/2003	6/25/2003	2	0.11	UNKNOWN	UNKNOWN	
	7/6/2003	7/10/2003	4	0.23	UNKNOWN	UNKNOWN	
	7/14/2003	7/16/2003	2	0.11	UNKNOWN	UNKNOWN	
	7/21/2003	7/23/2003	2	0.11	UNKNOWN	UNKNOWN	
	7/28/2003	7/30/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/4/2003	8/6/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/11/2003	8/13/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/19/2003	8/20/2003	1	0.06	UNKNOWN	UNKNOWN	
	9/1/2003	9/4/2003	3	0.17	UNKNOWN	UNKNOWN	
	Mission Bay, Mariners Basin	5/27/2003	5/29/2003	2	0.11	UNKNOWN	UNKNOWN
		6/2/2003	6/5/2003	3	0.34	UNKNOWN	UNKNOWN
		6/19/2003	6/20/2003	1	0.06	UNKNOWN	UNKNOWN
		6/30/2003	7/2/2003	2	0.11	UNKNOWN	UNKNOWN
		7/6/2003	7/10/2003	4	0.45	UNKNOWN	UNKNOWN
		7/21/2003	7/23/2003	2	0.11	UNKNOWN	UNKNOWN
8/5/2003		8/8/2003	3	0.34	UNKNOWN	UNKNOWN	
8/18/2003		8/20/2003	2	0.23	UNKNOWN	UNKNOWN	
8/26/2003		8/28/2003	2	0.11	UNKNOWN	UNKNOWN	
9/1/2003		9/4/2003	3	0.17	UNKNOWN	UNKNOWN	
9/11/2003		9/12/2003	1	0.06	UNKNOWN	UNKNOWN	
9/17/2003		9/19/2003	2	0.11	UNKNOWN	UNKNOWN	
10/1/2003		10/7/2003	6	0.34	UNKNOWN	UNKNOWN	
10/31/2003		11/1/2003	1	0.06	UNKNOWN	UNKNOWN	
Mission Bay, north pacific passage		2/21/2003	2/22/2003	1	0.06	UNKNOWN	WET_URBAN_RU
		2/27/2003	3/14/2003	15	0.85	UNKNOWN	WET_URBAN_RU
Moonlight Beach		4/18/2003	4/22/2003	4	0.45	RAIN	WET_URBAN_RU
		6/3/2003	6/4/2003	1	0.06	UNKNOWN	UNKNOWN
		8/22/2003	8/23/2003	1	0.06	RAIN	WET_URBAN_RU
	10/25/2003	10/28/2003	3	0.17	UNKNOWN	UNKNOWN	
Ocean Beach	12/11/2003	12/15/2003	4	0.23	UNKNOWN	UNKNOWN	
	4/3/2003	4/4/2003	1	0.09	UNKNOWN	UNKNOWN	
	6/20/2003	6/22/2003	2	0.11	UNKNOWN	UNKNOWN	
	8/26/2003	8/27/2003	1	0.06	UNKNOWN	UNKNOWN	
	9/3/2003	9/4/2003	1	0.06	RAIN	WET_URBAN_RU	
	10/9/2003	10/10/2003	1	0.11	UNKNOWN	UNKNOWN	
	10/16/2003	10/20/2003	4	0.45	UNKNOWN	UNKNOWN	
	10/16/2003	10/20/2003	4	0.45	UNKNOWN	UNKNOWN	
Oceanside municipal beach, other	11/14/2003	11/19/2003	5	0.28	UNKNOWN	UNKNOWN	
	2/25/2003	3/6/2003	9	0.34	UNKNOWN	UNKNOWN	
	4/15/2003	4/18/2003	3	0.17	LAGOON_OPE	WET_CREEK_RI	
	4/15/2003	4/18/2003	3	0.17	UNKNOWN	UNKNOWN	
	4/15/2003	4/18/2003	3	0.17	LAGOON_OPE	DRY_CREEK_RIV	
	4/15/2003	4/18/2003	3	0.17	LAGOON_OPE	WET_CREEK_RI	
	4/16/2003	4/18/2003	2	0.11	UNKNOWN	UNKNOWN	
	4/16/2003	4/18/2003	2	0.11	UNKNOWN	UNKNOWN	
	5/15/2003	5/16/2003	1	0.06	UNKNOWN	UNKNOWN	
	6/10/2003	6/18/2003	8	0.45	LAGOON_OPE	DRY_CREEK_RIV	
	8/20/2003	8/22/2003	2	0.11	UNKNOWN	UNKNOWN	
	9/16/2003	9/19/2003	3	0.17	UNKNOWN	UNKNOWN	
	9/23/2003	9/25/2003	2	0.11	UNKNOWN	UNKNOWN	
	10/8/2003	10/13/2003	5	0.28	LAGOON_OPE	DRY_CREEK_RIV	
	11/14/2003	11/15/2003	1	0.06	LAGOON_OPE	WET_CREEK_RI	
	11/14/2003	11/15/2003	1	0.06	LAGOON_OPE	WET_CREEK_RI	
	Pacific Beach	6/20/2003	6/25/2003	5	0.28	UNKNOWN	UNKNOWN
		6/25/2003	6/27/2003	2	0.11	UNKNOWN	UNKNOWN
		7/2/2003	7/4/2003	2	0.11	UNKNOWN	UNKNOWN
7/10/2003		9/5/2003	57	3.24	UNKNOWN	UNKNOWN	
9/16/2003		9/17/2003	1	0.06	UNKNOWN	UNKNOWN	
9/25/2003		10/9/2003	14	0.8	UNKNOWN	UNKNOWN	
10/16/2003		10/24/2003	8	0.45	UNKNOWN	UNKNOWN	
San Diego Bay	1/24/2003	1/25/2003	1	0.06	UNKNOWN	UNKNOWN	
	4/4/2003	4/5/2003	1	0.06	UNKNOWN	UNKNOWN	



## Appendix C - 2003 County-specific Beach Postings

San Diego Bay	5/1/2003	5/3/2003	2	0.11	UNKNOWN	UNKNOWN
	5/31/2003	6/1/2003	1	0.06	UNKNOWN	UNKNOWN
	8/20/2003	8/22/2003	2	0.11	UNKNOWN	UNKNOWN
	9/19/2003	9/23/2003	4	0.23	UNKNOWN	UNKNOWN
	9/26/2003	9/28/2003	2	0.11	UNKNOWN	UNKNOWN
	10/10/2003	10/12/2003	2	0.11	UNKNOWN	UNKNOWN
San Onofre State Beach	10/24/2003	10/26/2003	2	0.11	UNKNOWN	UNKNOWN
	5/9/2003	5/15/2003	6	0.34	UNKNOWN	UNKNOWN
Santa Clara Pl., north side	8/8/2003	8/13/2003	5	0.28	UNKNOWN	UNKNOWN
	1/1/2003	1/14/2003	13	0.74	UNKNOWN	UNKNOWN
	2/21/2003	2/22/2003	1	0.06	UNKNOWN	UNKNOWN
	4/18/2003	4/22/2003	4	0.23	UNKNOWN	UNKNOWN
	7/1/2003	7/4/2003	3	0.17	UNKNOWN	UNKNOWN
	7/21/2003	7/23/2003	2	0.11	UNKNOWN	UNKNOWN
	7/29/2003	8/1/2003	3	0.17	UNKNOWN	UNKNOWN
	7/29/2003	7/31/2003	2	0.3	UNKNOWN	UNKNOWN
	8/13/2003	8/15/2003	2	0.11	UNKNOWN	UNKNOWN
	9/4/2003	9/6/2003	2	0.11	UNKNOWN	UNKNOWN
	Shelter Island	1/1/2003	2/4/2003	34	1.93	UNKNOWN
2/20/2003		3/21/2003	29	1.65	UNKNOWN	UNKNOWN
4/4/2003		5/3/2003	29	1.65	UNKNOWN	UNKNOWN
6/20/2003		6/22/2003	2	0.11	UNKNOWN	UNKNOWN
Silver Strand State Beach	11/26/2003	12/3/2003	7	0.4	UNKNOWN	UNKNOWN
Solana Beach City Beaches	7/18/2003	7/23/2003	5	0.28	UNKNOWN	UNKNOWN
South Carlsbad State Beach	2/19/2003	2/20/2003	1	0.06	UNKNOWN	UNKNOWN
Spanish Landing	7/1/2003	7/3/2003	2	0.11	UNKNOWN	UNKNOWN
Tecolote Creek outlet	1/10/2003	1/19/2003	9	0.85	UNKNOWN	UNKNOWN
	4/3/2003	4/5/2003	2	0.11	UNKNOWN	UNKNOWN
	4/18/2003	5/1/2003	13	0.74	UNKNOWN	UNKNOWN
	7/21/2003	7/23/2003	2	0.11	UNKNOWN	UNKNOWN
	8/11/2003	8/13/2003	2	0.11	UNKNOWN	UNKNOWN
	8/18/2003	8/20/2003	2	0.11	UNKNOWN	UNKNOWN
	9/1/2003	9/4/2003	3	0.17	UNKNOWN	UNKNOWN
	8/14/2003	8/15/2003	1	0.06	UNKNOWN	UNKNOWN
	12/17/2003	12/19/2003	2	0.98	UNKNOWN	UNKNOWN
	Torrey Pines State Beach	2/8/2003	2/19/2003	11	0.63	UNKNOWN
3/19/2003		3/25/2003	6	0.34	UNKNOWN	UNKNOWN
4/17/2003		4/22/2003	5	0.28	UNKNOWN	UNKNOWN
11/19/2003		12/1/2003	12	0.68	UNKNOWN	DRY_URBAN_RU
Tourmaline Surfing Park	2/19/2003	3/7/2003	16	0.91	UNKNOWN	UNKNOWN
Visitor's Center, near storm drain	1/1/2003	4/10/2003	96	5.45	UNKNOWN	UNKNOWN
	4/22/2003	4/24/2003	2	0.11	UNKNOWN	UNKNOWN
	5/8/2003	5/15/2003	7	0.4	UNKNOWN	UNKNOWN
	5/27/2003	5/29/2003	2	0.11		
	7/14/2003	7/16/2003	2	0.11	UNKNOWN	UNKNOWN
	10/31/2003	11/1/2003	1	0.06		

Number of Beach Postings: 167

Sum of Days: 952

Sum of Beach Mile Days: 58.47