

**Monitoring Station Locations**

<u>Station</u>	<u>Description</u>
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**Surf Zone Stations:**

C1	San Juan Creek
C2	San Juan Creek above SERRA plant (enter through park)
S0	Surf at outfall
S1	Surf 1,000 feet southeasterly of outfall
S2	Surf, North Doheny Beach, midpoint between jetty and San Juan Creek
S3	Surf, 2,000 feet southeasterly of outfall
S4	Surf at entrance to Dana Point Harbor
S5	Surf 3,000 feet southeasterly of outfall
S6	Surf 50 feet west of westerly end of the Dana Point Harbor complex
S7	Surf 4,000 feet southeasterly of outfall
S9	Surf 5,000 feet southeasterly of outfall
S11	Surf 7,500 feet southeasterly of outfall
S13	Surf 10,000 feet southeasterly of outfall
S15	Surf 14,000 feet southeasterly of outfall
S17	Surf 20,000 feet southeasterly of outfall
S19	Surf 25,000 feet southeasterly of outfall
S21	Surf 31,000 feet southeasterly of outfall
S23	Surf 35,000 feet southeasterly of outfall

**Nearshore Stations:**

N1	At the 30-foot depth countour, 6,000 feet down-coast from the outfall
N2	At the 30-foot depth countour, 4,000 feet down-coast from the outfall
N3	At the 30-foot depth countour, 2,000 feet down-coast from the outfall
N4	At the 30-foot depth countour, 2,000 feet up-coast from the outfall
N5	At the 30-foot depth countour, 4,000 feet up -coast from the outfall
N6	At the 30-foot depth countour, 6,000 feet up -coast from the outfall

**Offshore Stations:**

A1-A4	At the corners of a 2,000 x 2,000-foot square having one side parallel to shore and the intersection of the diagonals located at the center of the outfall diffuser sections. Station A1 shall be located at the east corner and Stations A2 through A4 at successive corners in a clockwise direction.
A5	At the intersection of the diagonals of the above square.
B1	One mile down-coast from the outfall and over the same depth contour as Station A5.
B2	One mile up-coast from the outfall and over the same depth contour as Station A5.

### Monitoring Station Locations

<u>Station</u>	<u>Description</u>
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	<b>Biological Transects:</b>
T0	At the 20, 40, 60, and 80-foot depth contours along the transect located 50 feet down-coast of and parallel to the outfall.
T0	At the 20, 40, 60, and 80-foot depth contours along the transect located one mile down-coast of and parallel to the outfall.
T0	At the 20, 40, 60, and 80-foot depth contours along the transect located one-and-one-half miles up-coast of and parallel to the outfall.

It is recommended that stations be located using a land-based microwave positioning system, such as Mini-Ranger or trisponder, or a satellite positioning system such as Global Positioning System (GPS). The high levels of accuracy and precision afforded by this type of positioning system will ensure that stations are properly located with respect to the ZID. If an alternate navigation system (e.g. Loran C) is proposed, its accuracy should be compared to that of the systems recommended herein, and any compromises in accuracy should be justified.

Monitoring station locations may be modified with the approval of the Executive Officer.

#### 4. SURF ZONE WATER QUALITY MONITORING

- a. Surf zone monitoring is intended to assess bacteriological conditions in areas used for body-contact activities (e.g., swimming); and to assess aesthetic conditions for general recreational uses (e.g., picnicking).
- b. All "surf zone stations" shall be monitored as follows:
  - (1) Grab samples shall be collected and analyzed for total and fecal coliforms, and enterococcus at a minimum frequency of once per week from May 1 through October 31, and at a minimum frequency of once every other week from November 1 through April 30 of each year.
  - (2) At the same time samples are collected from "surf zone stations," the following information shall be recorded: observation of wind (direction and speed), weather (e.g., cloudy, sunny, or rainy), current (e.g., direction), and tidal conditions; observations of water color, discoloration, oil and grease, turbidity, odor, and materials of sewage origin in the water or on the beach; and water temperature (°F).

## 5. NEARSHORE WATER QUALITY MONITORING

- a. Nearshore monitoring is intended to assess bacteriological conditions in areas used for body-contact activities (e.g. scuba diving) and where shellfish and/or kelp may be harvested; and to assess aesthetic conditions for general boating and recreational uses.
- b. All "nearshore stations" shall be monitored as follows:

### (1) Reduced Monitoring

If the Executive Officer determines that the effluent at all times complies with Discharge Specifications B.1, B.3, and B.5 of Order No. 2000-13, only the reduced nearshore water quality monitoring specified below is required.

<u>Determination</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency</u>
Visual Observations			Monthly
Total and Fecal Coliforms,	#/100mL	Grab <sup>9</sup>	Monthly
Enterococcus <sup>10</sup>	#/100mL	Grab <sup>9</sup>	Monthly

### (2) Intensive Monitoring

The intensive nearshore water quality monitoring specified below is required during the 12-month period beginning August 1, 2003 through July 31, 2004, and must be submitted by August 31, 2004. This monitoring data will assist Regional Board staff in the evaluation of the Report of Waste Discharge required by Reporting Requirement G.2 to be submitted by August 9, 2004, 180 days prior to the Order's expiration date of February 9, 2005. The intensive nearshore water quality monitoring specified below is also required if the Executive Officer determines that the effluent does not at all times comply with Discharge Specifications B.1, B.3, and B.5 of Order No. 2000-13.

<u>Determination</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency</u>
Visual Observations --	--		Monthly
Total and Fecal Coliforms,	#/100mL	Grab <sup>11</sup>	Monthly
Enterococcus	#/100mL	Grab <sup>11</sup>	Monthly

## 6. OFFSHORE WATER QUALITY MONITORING

Offshore monitoring is intended to determine compliance with the Ocean Plan; and to determine if the applicant's discharge causes significant impacts on the water quality within the ZID and beyond the ZID as compared to reference areas.

- a. All "offshore stations" shall be monitored as follows:

(1) Reduced Monitoring

If the Executive Officer determines that the effluent at all times complies with Discharge Specifications B.1, B.3, and B.5 of Order No. 2000-13, only the reduced offshore water quality monitoring specified below is required.

<u>Determination</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency</u>
Visual Observations			Monthly
Total and Fecal Coliforms,	#/100mL	Grab <sup>11</sup>	Monthly
Enterococcus <sup>10</sup>	#/100mL	Grab <sup>11</sup>	Monthly

(2) Intensive Monitoring

The intensive water quality monitoring specified below is required during the 12-month period beginning August 1, 2003 through July 31, 2004, and must be submitted by August 31, 2004. This monitoring data will assist Regional Board staff in the evaluation of the Report of Waste Discharge required by Reporting Requirement G.2 to be submitted by August 9, 2004, 180 days prior to the Order's expiration date of February 9, 2005. The intensive offshore water quality monitoring specified below is also required if the Executive Officer determines that the effluent does not at all times comply with Discharge Specifications B.1, B.3, and B.5 of Order No. 2000-13.

<u>Determination</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency</u>
Visual Observations			Monthly
Total and Fecal Coliforms,	#/100mL	Grab <sup>11</sup>	Monthly
Enterococcus	#/100mL	Grab <sup>11</sup>	Monthly
Temperature	°F	Grab <sup>12</sup>	Monthly
Dissolved Oxygen	mg/L	Grab <sup>12</sup>	Monthly
Light Transmittance	%	Instrument <sup>12</sup>	Monthly
pH	pH units	Grab <sup>9</sup>	Annually

7. BENTHIC MONITORING

Benthic monitoring is intended to assess the status of the benthic community, and to evaluate the physical and chemical quality of the sediments.

- a. The intensive monitoring specified below is required during the 12-month period beginning August 1, 2003 through July 31, 2004, and must be submitted by August 31, 2004. This monitoring data will assist Regional Board staff in the evaluation of the Report of Waste Discharge required by Reporting Requirement

## MRP 2000-13 MONTHLY MONITORING REPORT

NPDES No. CA0107417

South East Regional Reclamation Authority

## Surfzone Fecal Coliform Limit Calculation Worksheet, CFU/100 ml

Comments:

Station No.											30-day Geo. Mean Apr-2001	60-day % > 400
	03/05/01	03/12/01	03/20/01	03/27/01	04/02/01	04/11/01	04/16/01	04/24/01	04/30/01			
S-0	100	140	400	360	4600	980	280	20	30		<b>238</b>	<b>22%</b>
S-1	100	40	40	9.9	580	260	36	50	9.9		77	<b>11%</b>
S-2	900	690	5,500	80	10	54	10	10	9.9		14	<b>33%</b>
S-3	340	30	500	20	36	110	10	140	9.9		35	<b>11%</b>
S-4	120	10	9	9.9	3	2	1.9	9.9	1.9		3	0%
S-5	290	10	50	40	4	130	10	20	30		20	0%
S-6	10	4	3	9.9	1.9	1.9	1.9	10	1.9		3	0%
S-7	430	30	50	20	64	70	10	10	40		28	<b>11%</b>
S-9	170	40	73	20	20	60	9.9	100	9.9		26	0%
S-11	210	9.9	120	30	9.9	9.9	27	20	10		14	0%
S-13	20	9.9	120	20	36	10	9.9	10	9.9		13	0%
S-15	20	70	10	10	9.9	20	9.9	20	9.9		13	0%
S-17	30	20	10	9.9	1.9	54	10	9.9	10		10	0%
S-19	80	9.9	9.9	9.9	6	20	9.9	10	8		10	0%
S-21	9.9	9.9	0.9	20	1.9	9.9	9.9	9.9	1.9		5	0%
S-23	9.9	10	2	9.9	1.9	100	9.9	9.9	2		8	0%
C-1	840	2,200	4,300	3,000	8800	1,500	2,000	1,800	6,000		<b>3097</b>	<b>100%</b>
C-2	220	500	99.9	190	9	120	20	1000	2400		139	<b>33%</b>

Requirement: The fecal coliform density based on a minimum of not less than 5 samples for any 30-day period, shall not exceed a geometric mean of 200 per 100 ml nor shall more than 10% of the total samples during any 60-day period exceed 400 per 100 ml.

## MRP 2000-13 MONTHLY MONITORING REPORT

NPDES No. CA0107417

South East Regional Reclamation Authority

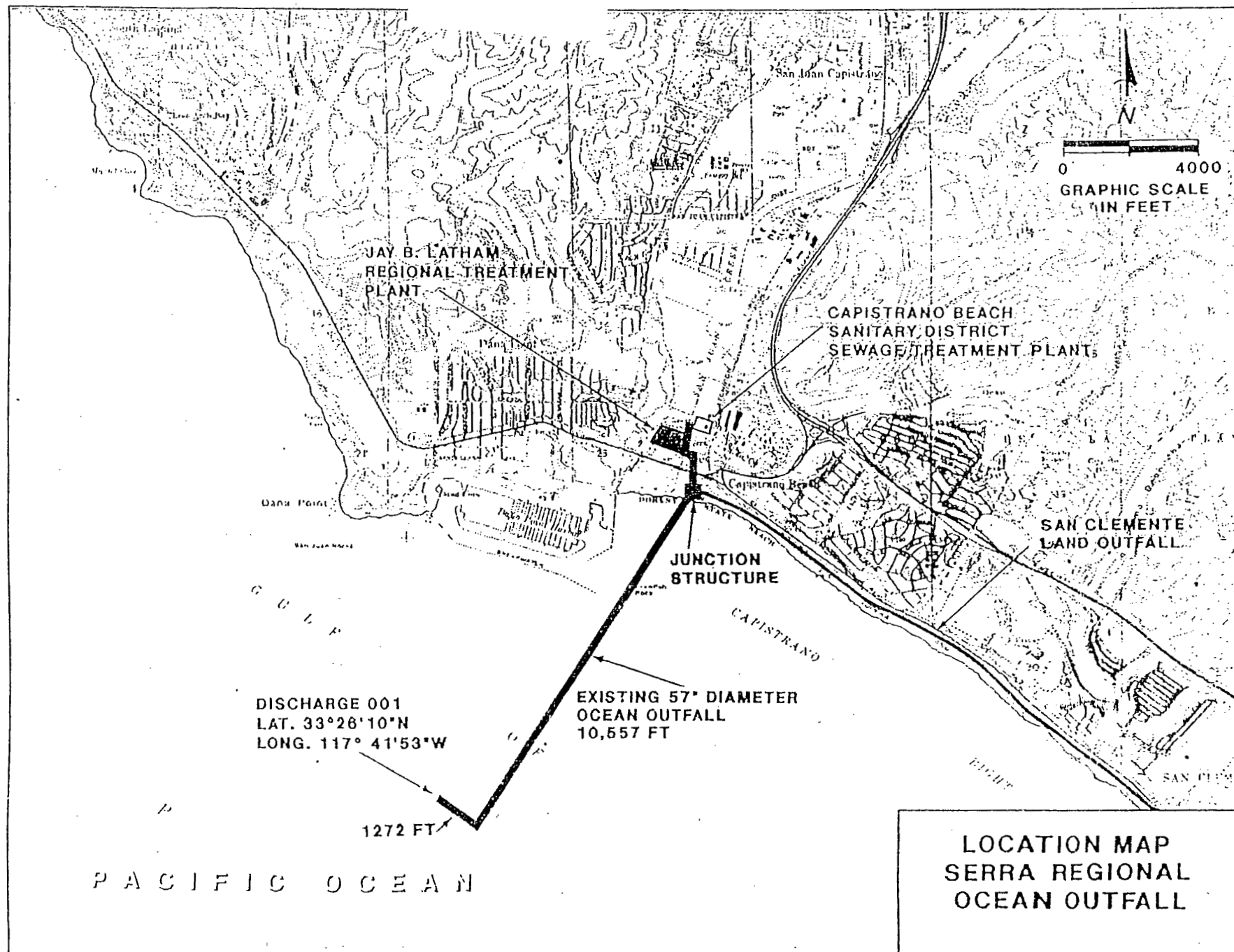
## Surfzone Enterococcus Limit Calculation Worksheet, CFU/100 ml

Comments:

Station No.	04/02/01	04/11/01	04/16/01	04/24/01	04/30/01	30-day Geo. Mean Apr-2001
S-0	2200	1700	200	110	60	346
S-1	600	590	9.9	70	10	76
S-2	54	130	20	10	9.9	27
S-3	380	210	20	370	40	119
S-4	32	12	1.9	9.9	1.9	7
S-5	160	190	9.9	100	64	72
S-6	1.9	1.9	1.9	9.9	2	3
S-7	80	110	9	40	150	54
S-9	9.9	110	36	300	73	61
S-11	9.9	30	20	9.9	10	14
S-13	9.9	10	9.9	10	9.9	10
S-15	10	20	9.9	10	9	11
S-17	2	120	9.9	9.9	70	18
S-19	2	20	9.9	10	8	8
S-21	1.9	20	9.9	9.9	1.9	6
S-23	1.9	10.0	10.0	9.9	1.9	5
C-1	8,400	3,500	950	900	3,300	2420
C-2	30	140	40	1200	720	171

Limitations: 1) geometric mean enterococcus density of 24 cfu/100ml for a 30-day period or;

2) 12 cfu/100ml for a six -month period



DEVELOPED FROM THE FOLLOWING U.S.G.S. MAP: DANA POINT

SERRA water quality monitoring data for surf zone near Prima D. and Segunda D. outfalls.

S15 = Prima D ("Poche") enters 100 ft south of S15. 14,000 feet southeast of outfall - End of beach road, sample north of Poche Creek.

S17 = Segunda D ("Pico Pipe") enters approx 200 ft. north of S17. 20,000 feet southeast of outfall - Old SC playground at concession stand.

\* note: Some 10's and lower entered on this sheet are non-detects.

\* twice weekly May-Oct; once weekly Nov-Apr

\*note: regional board does not believe discharger's effluent is causing exceedances.

date	Station	total	fecal	entero	notes
6/5/00	15	1000	440	550	33.46989
6/7/00	15	340	70	220	
6/12/00	15	10	10	10	
6/14/00	15	10	10	10	
6/19/00	15	210	40	30	
6/21/00	15	10	10	30	
6/26/00	15	26	22	18	
6/27/00	15	18	10	18	
7/3/00	15	30	30	50	42.89835 48.63628
7/5/00	15	10	10	10	
7/10/00	15	730	500	470	
7/12/00	15	470	100	180	
7/17/00	15	10	20	10	
7/18/00	15	10	10	10	
7/25/00	15	10	10	20	
7/27/00	15	90	40	30	
7/31/00	15	1100	410	600	115.0777 90.25942
8/7/00	15	5	4	12	
8/8/00	15	180	60	30	
8/14/00	15	840	130	75	
8/15/00	15	730	74	86	
8/22/00	15	850	640	270	
8/23/00	15	440	90	30	
8/24/00	15	240	50	50	no 17 data
8/28/00	15	810	180	120	
8/29/00	15	1000	830	530	78.73073 105.0803
9/5/00	15	10	10	10	
9/6/00	15	10	10	10	
9/7/00	15	410	80	1700	no 17 data
9/12/00	15	840	330	460	
9/13/00	15	940	580	680	
9/18/00	15	10	10	10	184.1843
9/20/00	15	150	100	64	
9/25/00	15	630	180	130	
9/27/00	15	50	40	70	302.5392
10/2/00	15		510	540	232.2442
10/4/00	15	930	790	930	
10/9/00	15	2600	2200	1110	1005.254
10/11/00	15	2100	400	400	
10/16/00	15	300	80	40	
10/18/00	15	4500	2200	2200	
10/23/00	15	50	45	200	
10/25/00	15	2800	700	780	
11/1/00	15	54	10	64	37.05788
11/6/00	15	280	40	70	
11/13/00	15	30	10	60	
11/20/00	15	2	2	2	
11/27/00	15	20	40	130	
12/4/00	15	100	20	20	43.84328
12/11/00	15	20	10	900	
12/18/00	15	10	10	10	
12/26/00	15	30	10	90	
1/2/01	15	10	10	10	
1/8/01	15	240	70	200	93.45306
1/17/01	15	70	80	120	
1/22/01	15	20	20	20	195.947
1/30/01	15	350	590	330	533.256
2/5/01	15	10	10	45	



2/14/01	15	1000	3600	9600	1890	665	
2/20/01	15	1400	680	2200			
2/28/01	15	800	170	320			light rain

6/5/00	17	20	20	10			
6/7/00	17	9	10	10			
6/12/00	17	20	10	10			
6/14/00	17	20	10	30			
6/19/00	17	10	10	60			
6/21/00	17	10	10	10			
6/26/00	17	20	10	10			
6/27/00	17	10	10	20			
7/3/00	17	50	10	10			
7/5/00	17	20	30	50			
7/10/00	17	10	10	20			
7/12/00	17	10	10	20			
7/17/00	17	2	2	2			
7/18/00	17	150	110	20			
7/25/00	17	10	10	10			
7/27/00	17	10	10	10			
7/31/00	17	50	10	10			
8/7/00	17	10	10	20			
8/8/00	17	10	10	10			
8/14/00	17	130	60	10			
8/15/00	17	90	10	20			
8/22/00	17	20	10	10			
8/23/00	17	30	40	10			
8/28/00	17	110	20	70			
8/29/00	17	10	30	10			
9/5/00	17	10	10	10			
9/6/00	17	80	40	10			
9/12/00	17	60	50	10			
9/13/00	17	10	10	10			
9/18/00	17	40	10	10			
9/20/00	17	40	20	20			
9/25/00	17	80	10	10			
9/27/00	17	60	30	50			
10/2/00	17	10	10	10			
10/4/00	17	20	30	10			
10/9/00	17	40	20	10			
10/11/00	17	9700	5500	14200			rain
10/16/00	17	10	80	60			
10/18/00	17	50	30	10			
10/23/00	17	30	20	90			
10/25/00	17	160	90	60			
11/1/00	17	50	10	30			
11/6/00	17	20	40	10			
11/13/00	17	210	30	80	109	1438	
11/20/00	17	50	20	40			
11/27/00	17	70	10	220			
12/4/00	17	10	20	20			
12/11/00	17	650	240	1100			
12/18/00	17	20	20	10			
12/26/00	17	30	20	10			
1/2/01	17	10	10	10			
1/8/01	17	40	10	20			
1/17/01	17	60	30	180			
1/22/01	17	130	40	10	33	90096	
1/30/01	17	64	40	60			
2/5/01	17	50	10	10			
2/14/01	17	130	30	10			
2/20/01	17	240	120	230			
2/28/01	17	300	110	140			light rain



Cal/EPA

California  
Regional Water  
Quality Control  
Board, San Diego  
Region

9771 Clairemont Mesa  
Blvd., Suite A  
San Diego, CA 92124  
(619) 467-2952  
FAX (619) 571-6972

OC beaches

April 8, 1998

SERRA  
Monitoring



Pete Wilson  
Governor

Mr. David A. Caretto  
SERRA  
30290 Rancho Viejo Road  
San Juan Capistrano, CA 92675

Dear Mr. Caretto:

Receipt of monitoring reports for Order No. 95-01: NPDES No.  
CA0107417

Facility: SERRA Ocean Outfall  
WDID No.: 9 000000175

This will acknowledge receipt of the February 1998 monthly  
monitoring report, the July - December 1997 semiannual  
monitoring report, and the 1997 annual monitoring report.

The next monitoring report due is the March 1998 monthly  
report.

The following comments refer to the report just received:

The February 1998 monthly reports show that total and fecal  
coliform and enterococcus receiving water limitations were  
not met at several stations. At this time we do not believe  
these results were attributable to the permitted discharge.

Thank you for your monitoring report submission. If you  
have any questions, please call Ms. Susan Pease at the above  
number.

Sincerely,

*Susan Pease*

For: John H. Robertus  
Executive Officer



SOUTH EAST REGIONAL RECLAMATION AUTHORITY

30290 RANCHO VIEJO ROAD • SAN JUAN CAPISTRANO, CA 92675 • (714) 770-6296

May 21, 1998

Surface Water Unit  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
San Diego Region  
9771 Clairmont Mesa Blvd., Suite B  
San Diego, CA. 92124-1331

SUBJECT: APRIL 1998 SUMMARY OF VIOLATIONS OF ORDER NO. 95-01  
SERRA NPDES PERMIT NO. CA0107417.

Surface Water Unit,

No effluent violations occurred during April.

Total and fecal coliform and enterococcus exceeded the limit at stations S0, S2, S15, and C1. Total coliform and enterococcus exceeded the limit at S1, S4, S17 and C2. Enterococcus only exceeded the limit at S3, S5, S7, S9, S11, and S19. Heavy rains during the month caused increased runoff. The microorganisms responsible for the violations are endemic to urban runoff and have no correlation to SERRA's effluent quality.

Very truly yours,

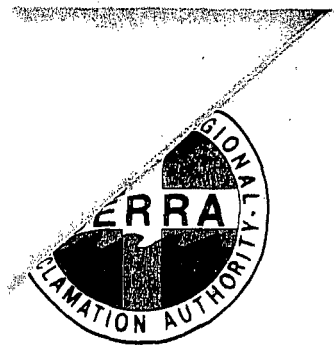
SOUTH EAST REGIONAL RECLAMATION AUTHORITY

Matthew P. Smith, P.E.  
Director of Engineering

1998 MAY 28 P 12:20  
SAN DIEGO REGIONAL  
WATER QUALITY  
CONTROL BOARD

A public agency created by:

CAPISTRANO BEACH SANITARY DISTRICT • DANA POINT SANITARY DISTRICT • CITY OF SAN CLEMENTE  
MOULTON NIGUEL WATER DISTRICT • CITY OF SAN JUAN CAPISTRANO • SANTA MARGARITA WATER DISTRICT



SOUTH EAST REGIONAL RECLAMATION AUTHORITY

30290 RANCHO VIEJO ROAD • SAN JUAN CAPISTRANO, CA 92675 • (714) 770-6296

June 18, 1998

Surface Water Unit  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
San Diego Region  
9771 Clairmont Mesa Blvd., Suite B  
San Diego, CA. 92124-1331

SUBJECT: MAY 1998 SUMMARY OF VIOLATIONS OF ORDER NO. 95-01  
SERRA NPDES PERMIT NO. CA0107417.

Surface Water Unit,

No effluent violations occurred during May.

Total and fecal coliform and enterococcus exceeded the limit at stations S0, S1, S2, S3, S5, S7, C1 and C2. Fecal coliform and enterococcus exceeded the limit at S9. Total coliform and enterococcus exceeded the limit at S15. Enterococcus only exceeded the limit at S11, S13, S17, S19 and S21. Rainfall during the month caused increased runoff. The microorganisms responsible for the violations are endemic to urban runoff and have no correlation to SERRA's effluent quality.

Very truly yours,

SOUTH EAST REGIONAL RECLAMATION AUTHORITY

Matthew P. Smith, P.E.  
Director of Engineering

A public agency created by:

CAPISTRANO BEACH SANITARY DISTRICT • DANA POINT SANITARY DISTRICT • CITY OF SAN CLEMENTE  
MOULTON NIGUEL WATER DISTRICT • CITY OF SAN JUAN CAPISTRANO • SANTA MARGARITA WATER DISTRICT



SOUTH EAST REGIONAL RECLAMATION AUTHORITY

30290 RANCHO VIEJO ROAD • SAN JUAN CAPISTRANO, CA 92675 • (714) 770-6296

February 22, 1999

Surface Water Unit  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
San Diego Region  
9771 Clairmont Mesa Blvd., Suite B  
San Diego, CA. 92124-1331

REC'D FEB 25 A 11:57

CALIFORNIA REGIONAL  
WATER QUALITY  
CONTROL BOARD

SUBJECT: JANUARY 1999 SUMMARY OF VIOLATIONS OF ORDER NO. 95-01  
SERRA NPDES PERMIT NO. CA0107417.

Surface Water Unit,

No effluent violations occurred during January 1999.

Effluent cBOD data is not available for 1/3/99. The dilution water used for the analysis did not meet QA limits. No TSS data is available for one weekly influent sample from the Capistrano Beach Treatment Facility due to technician error in the SERRA laboratory.

Total and fecal coliform and enterococcus exceeded the limit at stations S0, C1 and C2. Enterococcus only exceeded the permit limit at stations S1, S2, S3, S4, S5, S7, S9, S11, S13, S15, and S17. Rainfall during the month increased runoff to storm drain channels in the area. The microorganisms responsible for the violations are endemic to urban runoff and have no correlation to SERRA's effluent quality.

Very truly yours,

SOUTH EAST REGIONAL RECLAMATION AUTHORITY

Matthew P. Smith, P.E.  
Director of Engineering

CER 9/10/99

1) missing signatory statement

A public agency created by:

CAPISTRANO BEACH SANITARY DISTRICT • DANA POINT SANITARY DISTRICT • CITY OF SAN CLEMENTE  
MOULTON NIGUEL WATER DISTRICT • CITY OF SAN JUAN CAPISTRANO • SANTA MARGARITA WATER DISTRICT



SOUTH EAST REGIONAL RECLAMATION AUTHORITY

30290 RANCHO VIEJO ROAD • SAN JUAN CAPISTRANO, CA 92675 • (714) 770-6296

March 11, 1999

Surface Water Unit  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
San Diego Region  
9771 Clairmont Mesa Blvd., Suite B  
San Diego, CA. 92124-1331

Missing  
signature  
statement

SUBJECT: FEBRUARY 1999 SUMMARY OF VIOLATIONS OF ORDER NO. 95-01  
SERRA NPDES PERMIT NO. CA0107417.

Surface Water Unit,

No effluent violations occurred during February 1999.

Effluent cBOD data is not available for February 4, 7, and 28, 1999. The dilution water used for the analyses did not meet QA limits. No influent TSS and cBOD data is available for the week of February 7 from the Capistrano Beach Treatment Facility. The SERRA laboratory staff will assist the Capistrano Beach staff with any sample collection problems to ensure complete data submissions in the future.

Total and fecal coliform and enterococcus exceeded the limit at stations S0, S1, S7, S9, C1 and C2. Total coliform and enterococcus exceeded the limit at station S5. Enterococcus only exceeded the permit limit at stations S2, S3, S6, S11, S13, S15, S17, S19 and S23. Rainfall during the month increased runoff to storm drain channels in the area. The microorganisms responsible for the violations are endemic to urban runoff and have no correlation to SERRA's effluent quality.

Very truly yours,

SOUTH EAST REGIONAL RECLAMATION AUTHORITY

Matthew P. Smith, P.E.  
Director of Engineering

A public agency created by:

CAPISTRANO BEACH SANITARY DISTRICT • DANA POINT SANITARY DISTRICT • CITY OF SAN CLEMENTE  
MOULTON NIGUEL WATER DISTRICT • CITY OF SAN JUAN CAPISTRANO • SANTA MARGARITA WATER DISTRICT



## SOUTH EAST REGIONAL RECLAMATION AUTHORITY

30290 RANCHO VIEJO ROAD • SAN JUAN CAPISTRANO, CA 92675 • (714) 770-6296

April 20, 1999

Surface Water Unit  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
San Diego Region  
9771 Clairmont Mesa Blvd., Suite B  
San Diego, CA. 92124-1331

SUBJECT: MARCH 1999 SUMMARY OF VIOLATIONS OF ORDER NO. 95-01  
SERRA NPDES PERMIT NO. CA0107417.

Surface Water Unit,

No effluent violations occurred during March 1999.

Effluent cBOD data is not available for March 1, 2, 3 and 28, 1999. Influent cBOD data for the J.B. Latham Facility is not available for the first week and the Capistrano Beach Facility for the fourth week of March. The dilution water used for these analyses did not meet QA limits; the blank dilution was greater than 0.3 mg/L.

Total and fecal coliform and enterococcus exceeded the limit at stations S0, S1, S5, C1 and C2. Fecal coliform and enterococcus exceeded the limit at stations S2, S3, S7, S9, and S13. Enterococcus only exceeded the permit limit at stations S11, S15, S17, and S19. Rainfall during the month increased runoff to storm drain channels in the area. The microorganisms responsible for the violations are endemic to urban runoff and have no correlation to SERRA's effluent quality.

Very truly yours,

SOUTH EAST REGIONAL RECLAMATION AUTHORITY

Matthew P. Smith, P.E.  
Director of Engineering

RECEIVED  
MAY 10 1999  
WATER QUALITY  
CONTROL BOARD

A public agency created by:

CAPISTRANO BEACH SANITARY DISTRICT • DANA POINT SANITARY DISTRICT • CITY OF SAN CLEMENTE  
CITY OF SAN JUAN CAPISTRANO • SANTA MARGARITA WATER DISTRICT



# California Regional Water Quality Control Board

## San Diego Region

Winston H. Hickox  
Secretary for  
Environmental  
Protection

Internet Address: <http://www.swrcb.ca.gov/rwqcb9/>  
9771 Clairemont Mesa Boulevard, Suite A, San Diego, California 92124-1324  
Phone (858) 467-2952 • FAX (858) 571-6972



Gray Davis  
Governor

April 10, 2001

Mr. David A. Caretto  
South East Regional Reclamation Authority  
30290 Rancho Viejo Road  
San Juan Capistrano, CA 92675

Dear Mr. Caretto:

**RECEIPT OF MONITORING REPORTS FOR ORDER NO. 2000-13, NPDES NO. CA0107417**  
**FACILITY: SOUTH EAST REGIONAL RECLAMATION AUTHORITY**  
**WDID NO.: 9 000000175**

This will acknowledge receipt of the July – September 2000 Quarterly Monitoring Report, October 2000 Monthly Monitoring Report, November 2000 Monthly Monitoring Report, December 2000 Monthly Monitoring Report, October – December 2000 Quarterly Monitoring Report, July – December 2000 Semiannual Monitoring Report, January – December 2000 Annual Monitoring Report, and the January 2001 Monthly Monitoring Report.

**Comments regarding the July - September 2000 Quarterly Monitoring Report:**

- No comments at this time.

**Comments regarding the October 2000 Monthly Monitoring Report:**

1. Fecal coliform values exceeded permit limits at receiving water sampling stations S0, S1, S2, S3, S5, S7, S17 (10% of recorded samples tested higher than 400 organisms per 100 ml), and at stations S15, C1 and C2 (with a monthly geometric mean greater than 200 organisms per 100 ml). Enterococcus values exceeded permit limits at stations S0, S1, S2, S3, S5, S7, S9, S11, S13, S15, S17, S19, C1 and C2 (with a monthly geometric mean greater than 24 organisms per 100 ml). Total coliform exceeded permit limits at stations S15, C1 and C2 with coliform densities greater than 1000 organisms per 100 ml. At the present time, the Regional Board does not believe that the discharger's effluent is causing these exceedances. Coliform concentrations closest to the outfall are within the limits established in Order No. 2000-13.

***California Environmental Protection Agency***

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at <http://www.swrcb.ca.gov>.*

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2. The daily maximum effluent concentration limit for settleable solids of 3.0 ml/L was exceeded on 10/06 with a result of 5.0 ml/L. The 7-day average effluent limit for settleable solids of 1.5 ml/L was exceeded on 10/06 with a value of 1.6 ml/L. Please take the necessary steps to prevent these violations from occurring in the future.
3. Effluent carbonaceous biochemical oxygen demand (CBOD) was not reported on a daily basis as required by Order No. 2000-13. If five sample results are not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.

**Comments regarding the November 2000 Monthly Monitoring Report:**

1. Fecal coliform values exceeded permit limits at stations S0 (10% of recorded samples tested higher than 400 organisms per 100 ml), and at stations C1 and C2 (with a monthly geometric mean greater than 200 organisms per 100 ml). Enterococcus values exceeded permit limits at stations S0, S1, S2, S3, S5, S7, S9, S11, S15, S17, C1 and C2 (with a monthly geometric mean greater than 24 organisms per 100 ml). Total coliform values exceeded permit limits at stations C1 and C2 (with coliform densities greater than 1000 organisms per 100 ml). At the present time, the Regional Board does not believe that the discharger's effluent is causing these exceedances. Coliform concentrations closest to the outfall are within the limits established in Order No. 2000-13.
2. Effluent CBOD was not reported on a daily basis as required by Order No. 2000-13 (11/24 – 11/30). If five sample results are not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.
3. Influent CBOD was not reported on a weekly basis as required by Order No. 2000-13 (11/22 – 11/28). If one sample result is not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.
4. Influent total suspended solids (TSS) was not reported on a weekly basis as required by Order No. 2000-13 (11/22 – 11/28). If one sample result is not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.

**Comments regarding the December 2000 Monthly Monitoring Report:**

1. Fecal coliform values exceeded permit limits at stations S2, S5, C2 (10% of recorded samples tested higher than 400 organisms per 100 ml), and at stations S0, S1 and C1 (with a monthly geometric mean greater than 200 organisms per 100 ml). Enterococcus values exceeded permit limits at stations S0, S1, S2, S3, S5, S7, S9, S11, S13, S15, S17, S19, C1 and C2 (with a monthly geometric mean greater than 24 organisms per 100 ml). Total coliform exceeded permit limits at stations S0, S1, C1 and C2 (with coliform densities greater than 1000 organisms per 100 ml). At the present time, the Regional Board does not believe that the discharger's effluent is causing these exceedances. Coliform concentrations closest to the outfall are within the limits established in Order No. 2000-13.
2. Effluent CBOD was not reported on a daily basis as required by Order No. 2000-13 (12/01 – 12/07). If five sample results are not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.

**Comments regarding the October - December 2000 Quarterly Monitoring Report:**

- No comments at this time.

**Comments regarding the July - December 2000 Semiannual Monitoring Report:**

- No comments at this time.

**Comments regarding the January - December 2000 Annual Monitoring Report:**

- No comments at this time.

**Comments regarding the January 2001 Monthly Monitoring Report:**

1. Fecal coliform values exceeded permit limits at stations S0 (10% of recorded samples tested higher than 400 organisms per 100 ml), and at stations C1 and C2 (with a monthly geometric mean greater than 200 organisms per 100 ml). Enterococcus values exceeded permit limits at stations S0, S1, S2, S3, S5, S7, S9, S11, S13, S15, S17, S19, C1 and C2 (with a monthly geometric mean greater than 24 organisms per 100 ml). Total coliform exceeded permit limits at stations S0, C1 and C2 (with coliform densities greater than 1000 organisms per 100 ml). At the present time, the Regional Board does not believe that the discharger's effluent is causing these exceedances. Coliform concentrations closest to the outfall are within the limits established in Order No. 2000-13.

2. Effluent CBOD was not reported on a daily basis as required by Order No. 2000-13 (01/01 – 01/07, and 01/25 – 01/31). If five sample results are not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.
3. Effluent TSS was not reported on a daily basis as required by Order No. 2000-13 (01/25 – 01/31). If five sample results are not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.

**General Comments:**

- Please report mass emission rate (MER) values for all constituents with MER limits established in Order No. 2000-13 (e.g. settleable solids).
- Receiving water analyses yielded higher fecal coliform values than total coliform values in October 2000, November 2000, December 2000 and January 2001 for several Surf Zone Stations. If this discrepancy is due to sample analysis standard deviation, then please include the standard error with these values. If standard deviation cannot explain why fecal coliform values are higher than total coliform, then please provide an explanation for the discrepancy in your next monitoring report. A QA/QC investigation may be necessary to address total coliform and fecal coliform analyses.
- The 30-day geometric means for fecal coliform and enterococcus, required by Monitoring and Reporting Program No. 2000-13, were not reported. Please make the necessary changes in reporting format to include these required values.

As you may be aware, the Porter-Cologne Water Quality Control Act (California Water Code [CWC]) was amended on January 1, 2000 to include provisions for mandatory minimum penalties for violations of waste discharge requirements applying to surface water discharges. The pertinent revisions can be found in CWC Section 13385(h) and (i). For the purposes of CWC 13385(h)(2), a serious violation is defined as either 1) an exceedance of effluent limitations for a Group I pollutant by 40%, or 2) an exceedance of effluent limitations for a Group II pollutant by 20% (Group I and II pollutants are specified in Appendix A to Section 123.45 of Title 40 of the Code of Federal Regulations). For the purposes of CWC 13385(i), a violation other than serious (i.e., a chronic violation) is defined as an exceedance of a waste discharge requirement effluent limitation.

In accordance with CWC 13385(h) each serious violation triggers the assessment of a mandatory minimum penalty (MMP) in the amount of \$3,000. In accordance with CWC 13385(i), the occurrence of four chronic violations in a 6-month period will also trigger the assessment of a

April 10, 2001

MMP in the amount of \$3,000 for the fourth violation, and an additional \$3,000 for each subsequent violation. In other words, the fourth chronic violation triggers the assessment of a \$3,000 MMP, the fifth chronic violation triggers the assessment of a \$3,000 MMP, and so on.

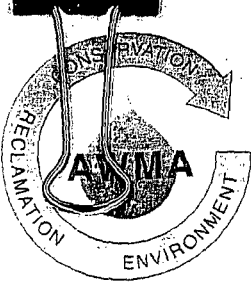
All effluent limitation violations listed in this document may be subject to MMPs. Staff will assess MMPs for these violations, as applicable, in an enforcement document separate from this letter.

If you have any questions or comments, please contact Mr. Adam Laputz at (858) 467-2727, or via email at [lapua@rb9.swrcb.ca.gov](mailto:lapua@rb9.swrcb.ca.gov).

Respectfully,

*Brian D. Kelley,*  
for MICHAEL P. McCANN  
Supervising Engineer

File: 01-0175.01



ALISO WATER MANAGEMENT AGENCY  
SOUTH EAST REGIONAL RECLAMATION AUTHORITY



May 21, 2001

Surface Water Unit  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
San Diego Region  
9771 Clairmont Mesa Blvd., Suite B  
San Diego, CA. 92124-1331

SUBJECT: APRIL 2001 SUMMARY OF MONITORING FOR ORDER NO. 2000-13,  
NPDES PERMIT NO. CA0107417

Surface Water Unit,

No effluent violations occurred during April 2001.

Permit limits for total coliform were exceeded at surfzone sites S0, S1, C1 and C2. Permit limits for fecal coliform were exceeded at S0, S1, S2, S3, S7, C1, and C2. Permit limits for enterococcus were exceeded at S0, S1, S2, S3, S5, S7, S9, C1 and C2. A worksheet showing the calculation of fecal coliform and enterococcus geometric means is attached to this report. The microorganisms responsible for the violations are endemic to urban runoff and have no correlation to SERRA's effluent quality.

A copy of Ogden Environmental Bioassay Laboratory's report detailing the conditions and results of chronic and acute toxicity tests is attached to this report.

Very truly yours,

SOUTH EAST REGIONAL RECLAMATION AUTHORITY

David A. Caretto  
General Manager

File: ~~01-0175.01~~ 01-0175.01

CITY OF LAGUNA BEACH  
EL TORO WATER DISTRICT  
EMERALD BAY SERVICE DISTRICT  
LOS ALISOS WATER DISTRICT  
MOULTON NIGUEL WATER DISTRICT  
SOUTH COAST WATER DISTRICT

A PUBLIC AGENCY  
30290 RANCHO VIEJO RD. • SAN JUAN CAPISTRANO, CALIFORNIA 92675  
AWMA (949) 489-7730 • SERRA (949) 489-7735 • FAX (949) 489-7724

CITY OF SAN CLEMENTE  
CITY OF SAN JUAN CAPISTRANO  
MOULTON NIGUEL WATER DISTRICT  
SANTA MARGARITA WATER DISTRICT  
SOUTH COAST WATER DISTRICT



# California Regional Water Quality Control Board

## San Diego Region



Winston H. Haskoy  
Secretary for  
Environmental  
Protection

Internet Address: <http://www.swrcb.ca.gov/rwqcb9/>  
9771 Clairemont Mesa Boulevard, Suite A, San Diego, California 92124-1324  
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Gray Davis  
Governor

June 13, 2001

Mr. David A. Caretto  
South East Regional Reclamation Authority  
30290 Rancho Viejo Road  
San Juan Capistrano, CA 92675

Dear Mr. Caretto:

**RECEIPT OF MONITORING REPORTS FOR ORDER NO. 2000-13, NPDES NO. CA0107417**  
**FACILITY: SOUTH EAST REGIONAL RECLAMATION AUTHORITY**  
**WDID NO.: 9 000000175**

This will acknowledge receipt of the February 2001 Monthly Monitoring Report, March 2001 Monthly Monitoring Report, January-March 2001 Quarterly Monitoring Report, and the April 2001 Monthly Monitoring Report.

The next report due by July 1, 2001, is the May 2001 Monthly Monitoring Report.

**Comments regarding the February 2001 Monthly Monitoring Report:**

1. Fecal coliform values exceeded permit limits at receiving water sampling stations S11, S13 (10% of recorded samples tested higher than 400 organisms per 100 ml), and at receiving water sampling stations S0, S1, S2, S7, S15, C1, and C2 (with a monthly geometric mean greater than 200 organisms per 100 ml). Enterococcus values exceeded permit limits at receiving water sampling stations N1, N3, S0, S1, S2, S3, S4, S5, S6, S7, S9, S11, S13, S15, S17, C1, and C2 (with a monthly geometric mean greater than 24 organisms per 100 ml). Total coliform exceeded permit limits at receiving water sampling stations S0, S1, S2, S3, S5, S6, S7, S9, S11, S13, S15, S17, C1, and C2 with coliform densities greater than 1,000 organisms per 100 ml. At the present time, the Regional Board does not believe that the discharger's effluent is causing these exceedances. Coliform concentrations closest to the outfall are within the limits established in Order No. 2000-13.
2. Effluent CBOD was not reported on a daily basis as required by Monitoring and Reporting Program No. 2000-13. If five sample results are not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.

**California Environmental Protection Agency**

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at <http://www.swrcb.ca.gov>.*

File: 01-0175.01

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3. Influent CBOD was not reported on a weekly basis as required by Monitoring and Reporting Program No. 2000-13. If one sample result is not reported for any 7-day period when there is flow, it will be considered an omission of information. This is a violation of Monitoring and Reporting Program No. 2000-13. Please take the necessary action to prevent future monitoring discrepancies from occurring.

**Comments regarding the March 2001 Monthly Monitoring Report:**

1. Fecal coliform values exceeded permit limits at receiving water sampling stations S3, S7 (10% of recorded samples tested higher than 400 organisms per 100 ml), and at receiving water sampling stations S0, S2, C1, and C2 (with a monthly geometric mean greater than 200 organisms per 100 ml). Enterococcus values exceeded permit limits at receiving water sampling stations N1, N3, S0, S1, S2, S3, S5, S7, S9, S11, S13, S19, C1, and C2 (with a monthly geometric mean greater than 24 organisms per 100 ml). Total coliform exceeded permit limits at receiving water sampling stations S0, S2, S3, S5, S7, S9, C1, and C2 with coliform densities greater than 1,000 organisms per 100 ml. At the present time, the Regional Board does not believe that the discharger's effluent is causing these exceedances. Coliform concentrations closest to the outfall are within the limits established in Order No. 2000-13.

**Comments regarding the April 2001 Monthly Monitoring Report:**

1. Fecal coliform values exceeded permit limits at receiving water sampling stations S1, C2 (10% of recorded samples tested higher than 400 organisms per 100 ml), and at stations S0 and C1 (with a monthly geometric mean greater than 200 organisms per 100 ml). Enterococcus values exceeded permit limits at receiving water sampling stations N3, N4, S0, S1, S2, S3, S5, S7, S9, C1, and C2 (with a monthly geometric mean greater than 24 organisms per 100 ml). Total coliform exceeded permit limits at receiving water sampling stations S0, S1, C1, and C2 with coliform densities greater than 1,000 organisms per 100 ml. At the present time, the Regional Board does not believe that the discharger's effluent is causing these exceedances. Coliform concentrations closest to the outfall are within the limits established in Order No. 2000-13.

If you have any questions or comments, please contact Mr. Adam Laputz at (858) 467-2727, or via email at [lapua@rb9.swrcb.ca.gov](mailto:lapua@rb9.swrcb.ca.gov).

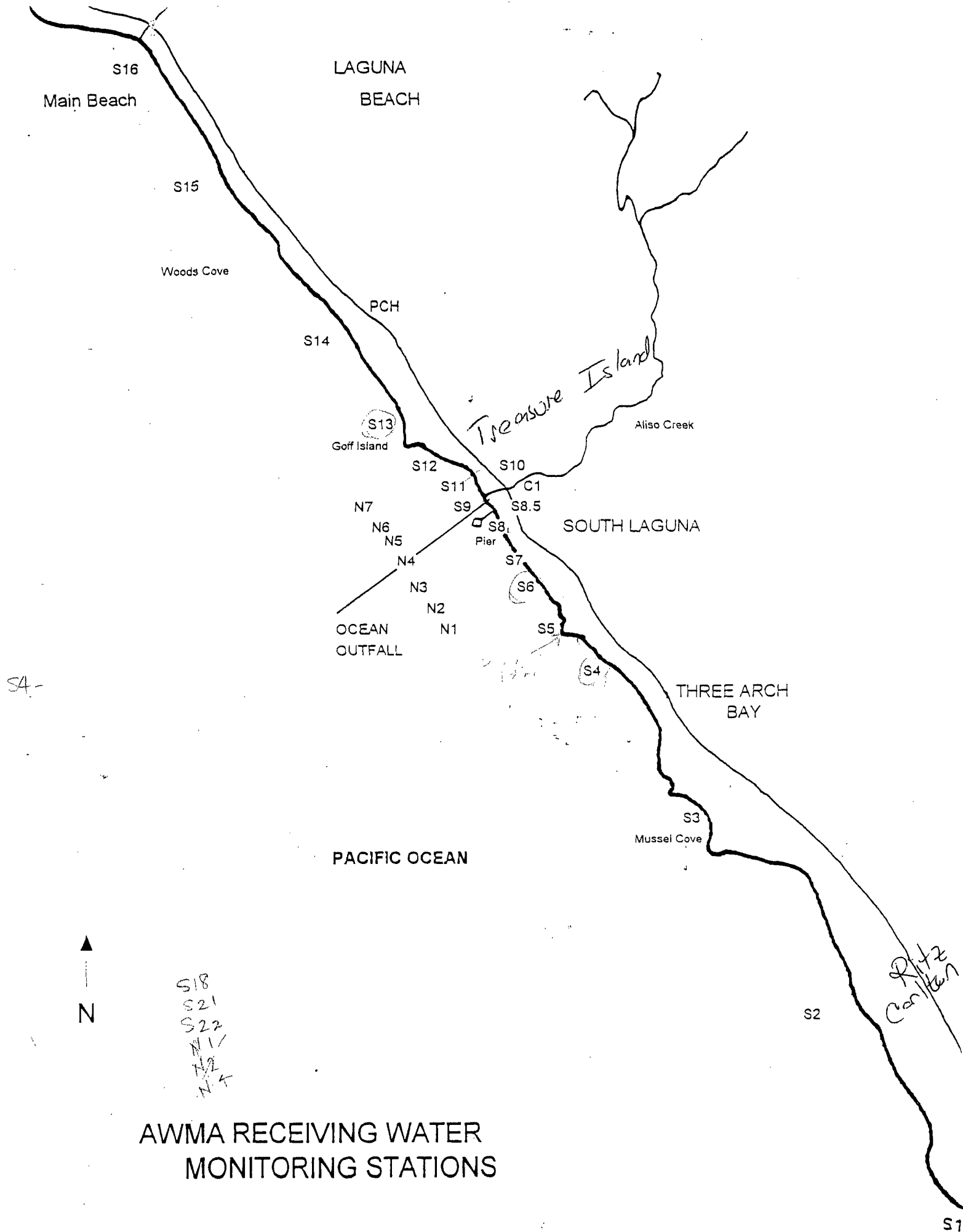
Respectfully,

*Brian D. Kelley*

MICHAEL P. McCANN

Supervising Water Resource Control Engineer

File: 01-0175.01



AWMA RECEIVING WATER  
MONITORING STATIONS