

Exhibit 4. Bacterial Objective Violations

January 2023

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2023	85	204	57	4	4	20	73	29
02 Jan 2023	85	204	57	4	4	20	73	29
03 Jan 2023	138	461	165	11	4	49	203	57
04 Jan 2023	138	461	165	11	4	49	203	57
05 Jan 2023	399	1794	499	17	5	109	645	132
06 Jan 2023	399	1794	499	17	5	109	645	132
07 Jan 2023	399	1794	499	17	5	109	645	132
08 Jan 2023	399	1794	499	17	5	109	645	132
09 Jan 2023	399	1794	499	17	5	109	645	132
10 Jan 2023	403	2466	803	45	7	199	964	279
11 Jan 2023	403	2466	803	45	7	199	964	279
12 Jan 2023	233	1661	815	99	9	109	986	206
13 Jan 2023	233	1661	815	99	9	109	986	206
14 Jan 2023	233	1661	815	99	9	109	986	206
15 Jan 2023	233	1661	815	99	9	109	986	206
16 Jan 2023	233	1661	815	99	9	109	986	206
17 Jan 2023	513	2466	1109	190	23	279	1459	423
18 Jan 2023	513	2466	1109	190	23	279	1459	423
19 Jan 2023	1560	1661	1490	594	43	959	948	908
20 Jan 2023	1560	1661	1490	594	43	959	948	908
21 Jan 2023	1560	1661	1490	594	43	959	948	908
22 Jan 2023	1560	1661	1490	594	43	959	948	908
23 Jan 2023	1560	1661	1490	594	43	959	948	908
24 Jan 2023	2262	1500	723	288	27	1487	438	307
25 Jan 2023	2262	1500	723	288	27	1487	438	307
26 Jan 2023	2651	5966	1772	562	29	4366	1685	607
27 Jan 2023	2651	5966	1772	562	29	4366	1685	607
28 Jan 2023	2651	5966	1772	562	29	4366	1685	607
29 Jan 2023	2651	5966	1772	562	29	4366	1685	607
30 Jan 2023	2651	5966	1772	562	29	4366	1685	607
31 Jan 2023	1691	6861	2597	426	17	4290	2495	486

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Jan 2023	E	E	E	E	IC	E	E	E
10 Jan 2023	E	E	E	E	IC	E	E	E
17 Jan 2023	E	E	E	E	E	E	E	E
24 Jan 2023	E	E	IC	IC	IC	E	IC	IC
31 Jan 2023	IC	E	E	IC	IC	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2023	42	246	36	2	3	30	98	17
02 Jan 2023	42	246	36	2	3	30	98	17
03 Jan 2023	86	451	79	7	4	53	191	39
04 Jan 2023	86	451	79	7	4	53	191	39
05 Jan 2023	86	451	79	7	4	53	191	39
06 Jan 2023	86	451	79	7	4	53	191	39
07 Jan 2023	86	451	79	7	4	53	191	39
08 Jan 2023	86	451	79	7	4	53	191	39
09 Jan 2023	86	451	79	7	4	53	191	39
10 Jan 2023	100	802	141	16	5	96	412	86
11 Jan 2023	100	802	141	16	5	96	412	86
12 Jan 2023	100	802	141	16	5	96	412	86
13 Jan 2023	100	802	141	16	5	96	412	86
14 Jan 2023	100	802	141	16	5	96	412	86
15 Jan 2023	100	802	141	16	5	96	412	86
16 Jan 2023	100	802	141	16	5	96	412	86
17 Jan 2023	427	3419	600	56	13	408	1565	357
18 Jan 2023	427	3419	600	56	13	408	1565	357
19 Jan 2023	427	3419	600	56	13	408	1565	357
20 Jan 2023	427	3419	600	56	13	408	1565	357
21 Jan 2023	427	3419	600	56	13	408	1565	357
22 Jan 2023	427	3419	600	56	13	408	1565	357
23 Jan 2023	427	3419	600	56	13	408	1565	357
24 Jan 2023	394	1781	360	63	27	368	910	233
25 Jan 2023	394	1781	360	63	27	368	910	233
26 Jan 2023	394	1781	360	63	27	368	910	233
27 Jan 2023	394	1781	360	63	27	368	910	233
28 Jan 2023	394	1781	360	63	27	368	910	233
29 Jan 2023	394	1781	360	63	27	368	910	233
30 Jan 2023	394	1781	360	63	27	368	910	233
31 Jan 2023	606	1781	814	121	27	881	1146	278

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
January	E	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2023	1917	8010	2010	13	3	120	7506	220
02 Jan 2023	1917	8010	2010	13	3	120	7506	220
03 Jan 2023	3800	16000	4000	20	2	220	15000	400
04 Jan 2023	3800	16000	4000	20	2	220	15000	400
05 Jan 2023	8400	16000	5300	20	3	5610	15500	5200
06 Jan 2023	8400	16000	5300	20	3	5610	15500	5200
07 Jan 2023	8400	16000	5300	20	3	5610	15500	5200
08 Jan 2023	8400	16000	5300	20	3	5610	15500	5200
09 Jan 2023	8400	16000	5300	20	3	5610	15500	5200
10 Jan 2023	4800	16000	6600	20	4	11000	16000	10000
11 Jan 2023	4800	16000	6600	20	4	11000	16000	10000
12 Jan 2023	4300	16000	10000	8010	11	5610	16000	7700
13 Jan 2023	4300	16000	10000	8010	11	5610	16000	7700
14 Jan 2023	4300	16000	10000	8010	11	5610	16000	7700
15 Jan 2023	4300	16000	10000	8010	11	5610	16000	7700
16 Jan 2023	4300	16000	10000	8010	11	5610	16000	7700
17 Jan 2023	4800	16000	16000	16000	20	11000	16000	15000
18 Jan 2023	4800	16000	16000	16000	20	11000	16000	15000
19 Jan 2023	8900	16000	16000	16000	80	13500	16000	15500
20 Jan 2023	8900	16000	16000	16000	80	13500	16000	15500
21 Jan 2023	8900	16000	16000	16000	80	13500	16000	15500
22 Jan 2023	8900	16000	16000	16000	80	13500	16000	15500
23 Jan 2023	8900	16000	16000	16000	80	13500	16000	15500
24 Jan 2023	13000	16000	16000	16000	120	16000	16000	15000
25 Jan 2023	13000	16000	16000	16000	120	16000	16000	15000
26 Jan 2023	14500	16000	16000	16000	130	16000	16000	15500
27 Jan 2023	14500	16000	16000	16000	130	16000	16000	15500
28 Jan 2023	14500	16000	16000	16000	130	16000	16000	15500
29 Jan 2023	14500	16000	16000	16000	130	16000	16000	15500
30 Jan 2023	14500	16000	16000	16000	130	16000	16000	15500
31 Jan 2023	13000	16000	16000	16000	140	16000	16000	15000

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
January	E	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2023	78	42	27	15	7	12	47
02 Jan 2023	78	42	27	15	7	12	47
03 Jan 2023	78	42	27	15	7	12	47
04 Jan 2023	371	123	70	88	42	17	324
05 Jan 2023	371	123	70	88	42	17	324
06 Jan 2023	371	123	70	88	42	17	324
07 Jan 2023	371	123	70	88	42	17	324
08 Jan 2023	371	123	70	88	42	17	324
09 Jan 2023	371	123	70	88	42	17	324
10 Jan 2023	371	123	70	88	42	17	324
11 Jan 2023	371	123	70	88	42	17	324
12 Jan 2023	803	71	51	33	35	10	186
13 Jan 2023	803	71	51	33	35	10	186
14 Jan 2023	803	71	51	33	35	10	186
15 Jan 2023	803	71	51	33	35	10	186
16 Jan 2023	803	71	51	33	35	10	186
17 Jan 2023	803	71	51	33	35	10	186
18 Jan 2023	1010	137	88	55	54	25	342
19 Jan 2023	1010	137	88	55	54	25	342
20 Jan 2023	3151	187	105	127	122	30	445
21 Jan 2023	3151	187	105	127	122	30	445
22 Jan 2023	3151	187	105	127	122	30	445
23 Jan 2023	3151	187	105	127	122	30	445
24 Jan 2023	2648	276	169	81	90	20	418
25 Jan 2023	2648	276	169	81	90	20	418
26 Jan 2023	2189	557	362	172	232	35	990
27 Jan 2023	2189	557	362	172	232	35	990
28 Jan 2023	2189	557	362	172	232	35	990
29 Jan 2023	2189	557	362	172	232	35	990
30 Jan 2023	2189	557	362	172	232	35	990
31 Jan 2023	1399	697	522	267	222	37	1443

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Jan 2023	E	IC	IC	E	E	IC	E
12 Jan 2023	E	IC	IC	IC	IC	IC	IC
18 Jan 2023	E	E	E	E	IC	E	E
24 Jan 2023	E	E	E	IC	IC	IC	E
31 Jan 2023	IC	E	E	E	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2023	24	20	14	10	10	5	30
02 Jan 2023	34	22	14	14	14	7	32
03 Jan 2023	34	22	14	14	14	7	32
04 Jan 2023	57	33	22	28	26	7	66
05 Jan 2023	57	33	22	28	26	7	66
06 Jan 2023	57	33	22	28	26	7	66
07 Jan 2023	57	33	22	28	26	7	66
08 Jan 2023	57	33	22	28	26	7	66
09 Jan 2023	57	33	22	28	26	7	66
10 Jan 2023	57	33	22	28	26	7	66
11 Jan 2023	57	33	22	28	26	7	66
12 Jan 2023	151	66	44	46	26	10	111
13 Jan 2023	151	66	44	46	26	10	111
14 Jan 2023	151	66	44	46	26	10	111
15 Jan 2023	151	66	44	46	26	10	111
16 Jan 2023	339	133	82	85	43	13	200
17 Jan 2023	339	133	82	85	43	13	200
18 Jan 2023	470	213	141	130	67	29	342
19 Jan 2023	470	213	141	130	67	29	342
20 Jan 2023	470	213	141	130	67	29	342
21 Jan 2023	470	213	141	130	67	29	342
22 Jan 2023	470	213	141	130	67	29	342
23 Jan 2023	470	213	141	130	67	29	342
24 Jan 2023	537	164	120	54	59	20	309
25 Jan 2023	537	164	120	54	59	20	309
26 Jan 2023	537	164	120	54	59	20	309
27 Jan 2023	537	164	120	54	59	20	309
28 Jan 2023	537	164	120	54	59	20	309
29 Jan 2023	537	164	120	54	59	20	309
30 Jan 2023	537	164	120	54	59	20	309
31 Jan 2023	504	211	171	86	57	22	505

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
January	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Jan 2023	702	1707	831	56	316	500	161	115	200	11	11	23	2	2	11	11	2	12	923	1620	620
02 Jan 2023	702	1707	831	56	316	500	161	115	200	11	11	23	2	2	11	11	2	12	923	1620	620
03 Jan 2023	702	1707	831	56	316	500	161	115	200	11	11	23	2	2	11	11	2	12	923	1620	620
04 Jan 2023	1700	7200	6300	555	720	1050	380	550	780	910	3410	5520	1601	1601	1707	27	29	43	8400	3200	6000
05 Jan 2023	1700	7200	6300	555	720	1050	380	550	780	910	3410	5520	1601	1601	1707	27	29	43	8400	3200	6000
06 Jan 2023	1700	7200	6300	555	720	1050	380	550	780	910	3410	5520	1601	1601	1707	27	29	43	8400	3200	6000
07 Jan 2023	1700	7200	6300	555	720	1050	380	550	780	910	3410	5520	1601	1601	1707	27	29	43	8400	3200	6000
08 Jan 2023	1700	7200	6300	555	720	1050	380	550	780	910	3410	5520	1601	1601	1707	27	29	43	8400	3200	6000
09 Jan 2023	1700	7200	6300	555	720	1050	380	550	780	910	3410	5520	1601	1601	1707	27	29	43	8400	3200	6000
10 Jan 2023	1700	7200	6300	555	720	1050	380	550	780	910	3410	5520	1601	1601	1707	27	29	43	8400	3200	6000
11 Jan 2023	1700	7200	6300	555	720	1050	380	550	780	910	3410	5520	1601	1601	1707	27	29	43	8400	3200	6000
12 Jan 2023	9000	13500	13500	555	950	1050	380	550	780	300	560	620	391	1101	907	60	64	69	1300	2300	1100
13 Jan 2023	9000	13500	13500	555	950	1050	380	550	780	300	560	620	391	1101	907	60	64	69	1300	2300	1100
14 Jan 2023	9000	13500	13500	555	950	1050	380	550	780	300	560	620	391	1101	907	60	64	69	1300	2300	1100
15 Jan 2023	9000	13500	13500	555	950	1050	380	550	780	300	560	620	391	1101	907	60	64	69	1300	2300	1100
16 Jan 2023	9000	13500	13500	555	950	1050	380	550	780	300	560	620	391	1101	907	60	64	69	1300	2300	1100
17 Jan 2023	9000	13500	13500	555	950	1050	380	550	780	300	560	620	391	1101	907	60	64	69	1300	2300	1100
18 Jan 2023	16000	11000	16000	1000	1300	1300	440	880	1200	580	1100	1200	780	2200	1800	86	72	72	1800	3400	1200
19 Jan 2023	16000	11000	16000	1000	1300	1300	440	880	1200	580	1100	1200	780	2200	1800	86	72	72	1800	3400	1200
20 Jan 2023	16000	13500	16000	1200	2150	1950	720	990	2600	2790	2350	5200	1890	2800	4500	187	266	193	8400	4100	6100
21 Jan 2023	16000	13500	16000	1200	2150	1950	720	990	2600	2790	2350	5200	1890	2800	4500	187	266	193	8400	4100	6100
22 Jan 2023	16000	13500	16000	1200	2150	1950	720	990	2600	2790	2350	5200	1890	2800	4500	187	266	193	8400	4100	6100
23 Jan 2023	16000	13500	16000	1200	2150	1950	720	990	2600	2790	2350	5200	1890	2800	4500	187	266	193	8400	4100	6100
24 Jan 2023	16000	11000	16000	1400	3000	1600	1000	1100	4000	580	1100	1200	780	2200	1800	200	120	66	4800	3400	1200
25 Jan 2023	16000	11000	16000	1400	3000	1600	1000	1100	4000	580	1100	1200	780	2200	1800	200	120	66	4800	3400	1200
26 Jan 2023	16000	10500	13500	8700	4800	2100	4000	3550	4100	2790	2350	5200	1890	2800	4500	270	290	193	10400	5200	6100
27 Jan 2023	16000	10500	13500	8700	4800	2100	4000	3550	4100	2790	2350	5200	1890	2800	4500	270	290	193	10400	5200	6100
28 Jan 2023	16000	10500	13500	8700	4800	2100	4000	3550	4100	2790	2350	5200	1890	2800	4500	270	290	193	10400	5200	6100
29 Jan 2023	16000	10500	13500	8700	4800	2100	4000	3550	4100	2790	2350	5200	1890	2800	4500	270	290	193	10400	5200	6100
30 Jan 2023	16000	10500	13500	8700	4800	2100	4000	3550	4100	2790	2350	5200	1890	2800	4500	270	290	193	10400	5200	6100
31 Jan 2023	16000	10000	11000	16000	3000	2600	7000	6000	4200	5000	3600	9200	780	2200	1800	340	460	320	16000	7000	11000

* Median calculated using n<5

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
January	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

February 2023

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2023	1691	6861	2597	426	17	4290	2495	486
02 Feb 2023	1938	5966	1772	344	20	5490	1685	430
03 Feb 2023	1938	5966	1772	344	20	5490	1685	430
04 Feb 2023	1938	5966	1772	344	20	5490	1685	430
05 Feb 2023	1938	5966	1772	344	20	5490	1685	430
06 Feb 2023	1938	5966	1772	344	20	5490	1685	430
07 Feb 2023	1092	1500	524	123	13	2162	438	147
08 Feb 2023	1092	1500	524	123	13	2162	438	147
09 Feb 2023	1387	964	292	58	11	2152	241	59
10 Feb 2023	1387	964	292	58	11	2152	241	59
11 Feb 2023	1387	964	292	58	11	2152	241	59
12 Feb 2023	1387	964	292	58	11	2152	241	59
13 Feb 2023	1387	964	292	58	11	2152	241	59
14 Feb 2023	2135	1596	438	63	8	3035	414	87
15 Feb 2023	2135	1596	438	63	8	3035	414	87
16 Feb 2023	1387	964	255	25	2	2152	204	28
17 Feb 2023	1387	964	255	25	2	2152	204	28
18 Feb 2023	1387	964	255	25	2	2152	204	28
19 Feb 2023	1387	964	255	25	2	2152	204	28
20 Feb 2023	1387	964	255	25	2	2152	204	28
21 Feb 2023	1188	1007	252	15	2	2460	291	31
22 Feb 2023	1188	1007	252	15	2	2460	291	31
23 Feb 2023	697	1009	399	15	2	1799	567	51
24 Feb 2023	697	1009	399	15	2	1799	567	51
25 Feb 2023	697	1009	399	15	2	1799	567	51
26 Feb 2023	697	1009	399	15	2	1799	567	51
27 Feb 2023	697	1009	399	15	2	1799	567	51
28 Feb 2023	1232	1656	527	13	2	2630	1045	83

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
07 Feb 2023	IC	IC	IC	IC	IC	IC	IC	IC
14 Feb 2023	E	E	E	IC	IC	E	E	IC
21 Feb 2023	E	E	IC	IC	IC	E	E	IC
28 Feb 2023	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2023	606	1781	814	121	27	881	1146	278
02 Feb 2023	606	1781	814	121	27	881	1146	278
03 Feb 2023	606	1781	814	121	27	881	1146	278
04 Feb 2023	606	1781	814	121	27	881	1146	278
05 Feb 2023	606	1781	814	121	27	881	1146	278
06 Feb 2023	606	1781	814	121	27	881	1146	278
07 Feb 2023	569	1529	1194	121	33	1152	1438	326
08 Feb 2023	569	1529	1194	121	33	1152	1438	326
09 Feb 2023	569	1529	1194	121	33	1152	1438	326
10 Feb 2023	569	1529	1194	121	33	1152	1438	326
11 Feb 2023	569	1529	1194	121	33	1152	1438	326
12 Feb 2023	569	1529	1194	121	33	1152	1438	326
13 Feb 2023	569	1529	1194	121	33	1152	1438	326
14 Feb 2023	841	1529	886	59	24	1909	1226	292
15 Feb 2023	841	1529	886	59	24	1909	1226	292
16 Feb 2023	841	1529	886	59	24	1909	1226	292
17 Feb 2023	841	1529	886	59	24	1909	1226	292
18 Feb 2023	841	1529	886	59	24	1909	1226	292
19 Feb 2023	841	1529	886	59	24	1909	1226	292
20 Feb 2023	841	1529	886	59	24	1909	1226	292
21 Feb 2023	875	1279	549	24	18	1621	776	130
22 Feb 2023	875	1279	549	24	18	1621	776	130
23 Feb 2023	875	1279	549	24	18	1621	776	130
24 Feb 2023	875	1279	549	24	18	1621	776	130
25 Feb 2023	875	1279	549	24	18	1621	776	130
26 Feb 2023	875	1279	549	24	18	1621	776	130
27 Feb 2023	875	1279	549	24	18	1621	776	130
28 Feb 2023	596	1279	333	11	6	1621	566	77

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
February	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2023	13000	16000	16000	16000	140	16000	16000	15000
02 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
03 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
04 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
05 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
06 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
07 Feb 2023	4800	16000	16000	3200	140	16000	16000	2000
08 Feb 2023	4800	16000	16000	3200	140	16000	16000	2000
09 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
10 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
11 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
12 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
13 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
14 Feb 2023	16000	16000	9400	780	120	16000	16000	2000
15 Feb 2023	16000	16000	9400	780	120	16000	16000	2000
16 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
17 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
18 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
19 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
20 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
21 Feb 2023	3800	14000	1500	180	40	16000	12000	300
22 Feb 2023	3800	14000	1500	180	40	16000	12000	300
23 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
24 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
25 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
26 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
27 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
28 Feb 2023	3800	16000	9400	200	40	16000	16000	2000

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station, per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
February	E	E	E	E	IC	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2023	1399	697	522	267	222	37	1443
02 Feb 2023	1399	697	522	267	222	37	1443
03 Feb 2023	1514	1027	819	154	125	55	1079
04 Feb 2023	1514	1027	819	154	125	55	1079
05 Feb 2023	1514	1027	819	154	125	55	1079
06 Feb 2023	1514	1027	819	154	125	55	1079
07 Feb 2023	1514	1027	819	154	125	55	1079
08 Feb 2023	1514	1027	819	154	125	55	1079
09 Feb 2023	1514	1027	819	154	125	55	1079
10 Feb 2023	1310	1243	1217	79	55	48	1600
11 Feb 2023	870	1838	1839	84	41	46	2845
12 Feb 2023	870	1838	1839	84	41	46	2845
13 Feb 2023	1438	2170	2167	138	89	44	3109
14 Feb 2023	1438	2170	2167	138	89	44	3109
15 Feb 2023	1438	2170	2167	138	89	44	3109
16 Feb 2023	1438	2170	2167	138	89	44	3109
17 Feb 2023	1248	2243	2828	103	67	21	2925
18 Feb 2023	1248	2243	2828	103	67	21	2925
19 Feb 2023	1248	2243	2828	103	67	21	2925
20 Feb 2023	1248	2243	2828	103	67	21	2925
21 Feb 2023	707	701	1275	106	86	25	1231
22 Feb 2023	707	701	1275	106	86	25	1231
23 Feb 2023	604	598	1309	178	115	39	1716
24 Feb 2023	604	598	1309	178	115	39	1716
25 Feb 2023	604	598	1309	178	115	39	1716
26 Feb 2023	604	598	1309	178	115	39	1716
27 Feb 2023	692	569	815	124	146	26	1326
28 Feb 2023	692	569	815	124	146	26	1326

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
10 Feb 2023	E	E	E	IC	IC	IC	E
13 Feb 2023	E	E	E	E	E	IC	E
21 Feb 2023	IC	IC	IC	IC	IC	IC	IC
27 Feb 2023	E	E	IC	IC	E	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2023	1076	323	271	161	99	31	752
02 Feb 2023	1076	323	271	161	99	31	752
03 Feb 2023	1076	323	271	161	99	31	752
04 Feb 2023	1076	323	271	161	99	31	752
05 Feb 2023	1076	323	271	161	99	31	752
06 Feb 2023	1076	323	271	161	99	31	752
07 Feb 2023	862	515	462	270	164	48	1624
08 Feb 2023	862	515	462	270	164	48	1624
09 Feb 2023	862	515	462	270	164	48	1624
10 Feb 2023	598	521	512	125	100	40	1662
11 Feb 2023	598	521	512	125	100	40	1662
12 Feb 2023	598	521	512	125	100	40	1662
13 Feb 2023	777	681	637	124	123	36	1899
14 Feb 2023	777	681	637	124	123	36	1899
15 Feb 2023	778	799	785	89	97	47	1818
16 Feb 2023	778	799	785	89	97	47	1818
17 Feb 2023	778	799	785	89	97	47	1818
18 Feb 2023	778	799	785	89	97	47	1818
19 Feb 2023	778	799	785	89	97	47	1818
20 Feb 2023	778	799	785	89	97	47	1818
21 Feb 2023	425	428	425	70	79	37	901
22 Feb 2023	425	428	425	70	79	37	901
23 Feb 2023	361	525	513	70	82	42	1356
24 Feb 2023	361	525	513	70	82	42	1356
25 Feb 2023	361	525	513	70	82	42	1356
26 Feb 2023	361	525	513	70	82	42	1356
27 Feb 2023	447	492	445	65	104	34	1171
28 Feb 2023	447	492	445	65	104	34	1171

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
February	E	E	E	E	E	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Feb 2023	16000	10000	11000	16000	3000	2600	7000	6000	4200	5000	3600	9200	780	2200	1800	340	460	320	16000	7000	11000
02 Feb 2023	16000	10000	11000	16000	3000	2600	7000	6000	4200	5000	3600	9200	780	2200	1800	340	460	320	16000	7000	11000
03 Feb 2023	16000	8600	10100	16000	4800	4600	11500	8600	7100	2790	2350	5200	650	1700	1370	500	470	570	10400	5200	8600
04 Feb 2023	16000	8600	10100	16000	4800	4600	11500	8600	7100	2790	2350	5200	650	1700	1370	500	470	570	10400	5200	8600
05 Feb 2023	16000	8600	10100	16000	4800	4600	11500	8600	7100	2790	2350	5200	650	1700	1370	500	470	570	10400	5200	8600
06 Feb 2023	16000	8600	10100	16000	4800	4600	11500	8600	7100	2790	2350	5200	650	1700	1370	500	470	570	10400	5200	8600
07 Feb 2023	16000	8600	10100	16000	4800	4600	11500	8600	7100	2790	2350	5200	650	1700	1370	500	470	570	10400	5200	8600
08 Feb 2023	16000	8600	10100	16000	4800	4600	11500	8600	7100	2790	2350	5200	650	1700	1370	500	470	570	10400	5200	8600
09 Feb 2023	16000	8600	10100	16000	4800	4600	11500	8600	7100	2790	2350	5200	650	1700	1370	500	470	570	10400	5200	8600
10 Feb 2023	16000	7200	4800	16000	6600	6600	16000	7200	10000	580	1100	1200	520	1200	940	340	460	320	16000	7000	16000
11 Feb 2023	9800	6100	4500	16000	7500	7300	16000	11600	10500	2503	1840	4670	277	660	670	430	370	470	16000	11500	16000
12 Feb 2023	9800	6100	4500	16000	7500	7300	16000	11600	10500	2503	1840	4670	277	660	670	430	370	470	16000	11500	16000
13 Feb 2023	16000	7200	4800	16000	6600	6600	16000	7200	10000	1400	3600	3400	520	1200	940	200	260	220	16000	16000	16000
14 Feb 2023	16000	7200	4800	16000	6600	6600	16000	7200	10000	1400	3600	3400	520	1200	940	200	260	220	16000	16000	16000
15 Feb 2023	16000	7200	4800	16000	6600	6600	16000	7200	10000	1400	3600	3400	520	1200	940	200	260	220	16000	16000	16000
16 Feb 2023	16000	7200	4800	16000	6600	6600	16000	7200	10000	1400	3600	3400	520	1200	940	200	260	220	16000	16000	16000
17 Feb 2023	9800	6100	4500	16000	4000	4100	16000	11600	7600	703	2040	1770	277	660	670	160	190	170	16000	16000	9200
18 Feb 2023	9800	6100	4500	16000	4000	4100	16000	11600	7600	703	2040	1770	277	660	670	160	190	170	16000	16000	9200
19 Feb 2023	9800	6100	4500	16000	4000	4100	16000	11600	7600	703	2040	1770	277	660	670	160	190	170	16000	16000	9200
20 Feb 2023	9800	6100	4500	16000	4000	4100	16000	11600	7600	703	2040	1770	277	660	670	160	190	170	16000	16000	9200
21 Feb 2023	3500	5000	4200	16000	1400	1600	16000	7200	4200	1000	900	540	520	1200	940	120	140	220	16000	16000	2400
22 Feb 2023	3500	5000	4200	16000	1400	1600	16000	7200	4200	1000	900	540	520	1200	940	120	140	220	16000	16000	2400
23 Feb 2023	3500	6100	4500	15500	1300	4000	16000	4800	5840	1200	2450	1970	860	1200	960	108	200	260	16000	16000	9200
24 Feb 2023	3500	6100	4500	15500	1300	4000	16000	4800	5840	1200	2450	1970	860	1200	960	108	200	260	16000	16000	9200
25 Feb 2023	3500	6100	4500	15500	1300	4000	16000	4800	5840	1200	2450	1970	860	1200	960	108	200	260	16000	16000	9200
26 Feb 2023	3500	6100	4500	15500	1300	4000	16000	4800	5840	1200	2450	1970	860	1200	960	108	200	260	16000	16000	9200
27 Feb 2023	3600	7200	4800	16000	1400	3400	16000	5200	5800	1000	900	940	520	1200	980	96	200	220	16000	16000	7000
28 Feb 2023	3600	7200	4800	16000	1400	3400	16000	5200	5800	1000	900	940	520	1200	980	96	200	220	16000	16000	7000

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40			
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m	
February	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	IC	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

March 2023

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2023	1232	1656	527	13	2	2630	1045	83
02 Mar 2023	1784	1009	241	7	2	2368	567	66
03 Mar 2023	1784	1009	241	7	2	2368	567	66
04 Mar 2023	1784	1009	241	7	2	2368	567	66
05 Mar 2023	1784	1009	241	7	2	2368	567	66
06 Mar 2023	1784	1009	241	7	2	2368	567	66
07 Mar 2023	1784	730	106	6	3	2368	253	38
08 Mar 2023	2137	730	106	6	3	1282	253	38
09 Mar 2023	4487	2425	241	7	3	2856	849	79
10 Mar 2023	4487	2425	241	7	3	2856	849	79
11 Mar 2023	4487	2425	241	7	3	2856	849	79
12 Mar 2023	4487	2425	241	7	3	2856	849	79
13 Mar 2023	4487	2425	241	7	3	2856	849	79
14 Mar 2023	5463	3338	222	8	3	3268	659	75
15 Mar 2023	5463	3338	222	8	3	3268	659	75
16 Mar 2023	4487	2425	125	4	4	2360	431	49
17 Mar 2023	4487	2425	125	4	4	2360	431	49
18 Mar 2023	4487	2425	125	4	4	2360	431	49
19 Mar 2023	4487	2425	125	4	4	2360	431	49
20 Mar 2023	4487	2425	125	4	4	2360	431	49
21 Mar 2023	4487	3219	248	20	10	2360	686	148
22 Mar 2023	4724	3219	248	20	10	2950	686	148
23 Mar 2023	7786	4120	250	36	14	2701	597	202
24 Mar 2023	7786	4120	250	36	14	2701	597	202
25 Mar 2023	7786	4120	250	36	14	2701	597	202
26 Mar 2023	7786	4120	250	36	14	2701	597	202
27 Mar 2023	7786	4120	250	36	14	2701	597	202
28 Mar 2023	5524	5102	188	32	15	3286	1069	146
29 Mar 2023	5524	5102	188	32	15	3286	1069	146
30 Mar 2023	4550	4120	110	46	21	2377	584	104
31 Mar 2023	4550	4120	110	46	21	2377	584	104

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
07 Mar 2023	ns	IC	IC	IC	IC	ns	IC	IC
08 Mar 2023	E	ns	ns	ns	ns	IC	ns	ns
14 Mar 2023	E	E	IC	IC	IC	E	IC	IC
21 Mar 2023	ns	E	E	E	IC	ns	E	E
22 Mar 2023	E	ns	ns	ns	ns	E	ns	ns
28 Mar 2023	E	E	IC	IC	IC	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2023	596	1279	333	11	6	1621	566	77
02 Mar 2023	596	1279	333	11	6	1621	566	77
03 Mar 2023	596	1279	333	11	6	1621	566	77
04 Mar 2023	596	1279	333	11	6	1621	566	77
05 Mar 2023	596	1279	333	11	6	1621	566	77
06 Mar 2023	596	1279	333	11	6	1621	566	77
07 Mar 2023	489	1114	306	9	3	1669	479	60
08 Mar 2023	465	1114	306	9	3	1129	479	60
09 Mar 2023	465	1114	306	9	3	1129	479	60
10 Mar 2023	465	1114	306	9	3	1129	479	60
11 Mar 2023	465	1114	306	9	3	1129	479	60
12 Mar 2023	465	1114	306	9	3	1129	479	60
13 Mar 2023	465	1114	306	9	3	1129	479	60
14 Mar 2023	355	1114	159	6	3	550	233	55
15 Mar 2023	355	1114	159	6	3	550	233	55
16 Mar 2023	355	1114	159	6	3	550	233	55
17 Mar 2023	355	1114	159	6	3	550	233	55
18 Mar 2023	355	1114	159	6	3	550	233	55
19 Mar 2023	355	1114	159	6	3	550	233	55
20 Mar 2023	355	1114	159	6	3	550	233	55
21 Mar 2023	462	2855	281	18	4	773	424	137
22 Mar 2023	719	2855	281	18	4	1105	424	137
23 Mar 2023	719	2855	281	18	4	1105	424	137
24 Mar 2023	719	2855	281	18	4	1105	424	137
25 Mar 2023	719	2855	281	18	4	1105	424	137
26 Mar 2023	719	2855	281	18	4	1105	424	137
27 Mar 2023	719	2855	281	18	4	1105	424	137
28 Mar 2023	339	2855	210	16	4	698	389	102
29 Mar 2023	339	2855	210	16	4	698	389	102
30 Mar 2023	339	2855	210	16	4	698	389	102
31 Mar 2023	339	2855	210	16	4	698	389	102

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
March	E	E	E	E	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2023	3800	16000	9400	200	40	16000	16000	2000
02 Mar 2023	8900	11100	5450	110	30	15500	14000	6150
03 Mar 2023	8900	11100	5450	110	30	15500	14000	6150
04 Mar 2023	8900	11100	5450	110	30	15500	14000	6150
05 Mar 2023	8900	11100	5450	110	30	15500	14000	6150
06 Mar 2023	8900	11100	5450	110	30	15500	14000	6150
07 Mar 2023	8900	6800	1500	20	20	15500	12000	300
08 Mar 2023	16000	6800	1500	20	20	16000	12000	300
09 Mar 2023	16000	11400	5450	110	20	16000	14000	6150
10 Mar 2023	16000	11400	5450	110	20	16000	14000	6150
11 Mar 2023	16000	11400	5450	110	20	16000	14000	6150
12 Mar 2023	16000	11400	5450	110	20	16000	14000	6150
13 Mar 2023	16000	11400	5450	110	20	16000	14000	6150
14 Mar 2023	16000	16000	9400	200	20	16000	16000	2200
15 Mar 2023	16000	16000	9400	200	20	16000	16000	2200
16 Mar 2023	16000	11400	6750	110	44	16000	14000	1250
17 Mar 2023	16000	11400	6750	110	44	16000	14000	1250
18 Mar 2023	16000	11400	6750	110	44	16000	14000	1250
19 Mar 2023	16000	11400	6750	110	44	16000	14000	1250
20 Mar 2023	16000	11400	6750	110	44	16000	14000	1250
21 Mar 2023	16000	16000	12000	200	68	16000	16000	2200
22 Mar 2023	16000	16000	12000	200	68	16000	16000	2200
23 Mar 2023	16000	16000	14000	200	74	16000	16000	7100
24 Mar 2023	16000	16000	14000	200	74	16000	16000	7100
25 Mar 2023	16000	16000	14000	200	74	16000	16000	7100
26 Mar 2023	16000	16000	14000	200	74	16000	16000	7100
27 Mar 2023	16000	16000	14000	200	74	16000	16000	7100
28 Mar 2023	16000	16000	12000	200	68	16000	16000	2200
29 Mar 2023	16000	16000	12000	200	68	16000	16000	2200
30 Mar 2023	16000	16000	6400	130	60	16000	16000	1180
31 Mar 2023	16000	16000	6400	130	60	16000	16000	1180

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
March	E	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2023	692	569	815	124	146	26	1326
02 Mar 2023	908	432	632	66	137	23	890
03 Mar 2023	908	432	632	66	137	23	890
04 Mar 2023	908	432	632	66	137	23	890
05 Mar 2023	908	432	632	66	137	23	890
06 Mar 2023	908	432	632	66	137	23	890
07 Mar 2023	662	169	200	35	68	17	398
08 Mar 2023	662	169	200	35	68	17	398
09 Mar 2023	662	169	200	35	68	17	398
10 Mar 2023	662	169	200	35	68	17	398
11 Mar 2023	662	169	200	35	68	17	398
12 Mar 2023	646	85	86	55	163	16	190
13 Mar 2023	646	85	86	55	163	16	190
14 Mar 2023	815	229	104	40	105	14	354
15 Mar 2023	428	111	42	18	50	11	188
16 Mar 2023	428	111	42	18	50	11	188
17 Mar 2023	428	111	54	18	50	11	188
18 Mar 2023	428	111	54	18	50	11	188
19 Mar 2023	428	111	54	18	50	11	188
20 Mar 2023	428	111	54	18	50	11	188
21 Mar 2023	428	111	54	18	50	11	188
22 Mar 2023	428	111	54	18	50	11	188
23 Mar 2023	773*	282*	55	10*	30*	6*	319*
24 Mar 2023	907	429	103	21	51	23	473
25 Mar 2023	907	429	103	21	51	23	473
26 Mar 2023	907	429	103	21	51	23	473
27 Mar 2023	907	429	103	21	51	23	473
28 Mar 2023	915	429	122	13	51	14	560
29 Mar 2023	857	420	122	10	31	18	585
30 Mar 2023	857	420	122	10	31	18	585
31 Mar 2023	857	420	122	10	31	18	585

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
07 Mar 2023	IC	IC	IC	IC	IC	IC	IC
14 Mar 2023	E	E	IC	IC	IC	IC	E
17 Mar 2023	ns	ns	IC	ns	ns	ns	ns
24 Mar 2023	E	E	E	IC	E	E	E
28 Mar 2023	E	E	E	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2023	338	383	346	41	78	18	920
02 Mar 2023	338	383	346	41	78	18	920
03 Mar 2023	338	383	346	41	78	18	920
04 Mar 2023	338	383	346	41	78	18	920
05 Mar 2023	338	383	346	41	78	18	920
06 Mar 2023	338	383	346	41	78	18	920
07 Mar 2023	244	197	151	29	57	11	477
08 Mar 2023	244	197	151	29	57	11	477
09 Mar 2023	244	197	151	29	57	11	477
10 Mar 2023	244	197	151	29	57	11	477
11 Mar 2023	244	197	151	29	57	11	477
12 Mar 2023	244	197	151	29	57	11	477
13 Mar 2023	244	197	151	29	57	11	477
14 Mar 2023	196	225	78	12	49	7	388
15 Mar 2023	196	225	78	12	49	7	388
16 Mar 2023	196	225	78	12	49	7	388
17 Mar 2023	196	225	64	12	49	7	388
18 Mar 2023	196	225	64	12	49	7	388
19 Mar 2023	196	225	64	12	49	7	388
20 Mar 2023	196	225	64	12	49	7	388
21 Mar 2023	196	225	64	12	49	7	388
22 Mar 2023	196	225	64	12	49	7	388
23 Mar 2023	196	225	64	12	49	7	388
24 Mar 2023	276	232	56	28	90	11	338
25 Mar 2023	276	232	56	28	90	11	338
26 Mar 2023	276	232	56	28	90	11	338
27 Mar 2023	164	136	30	21	66	9	204
28 Mar 2023	163	109	31	18	77	7	210
29 Mar 2023	163	109	31	18	77	7	210
30 Mar 2023	163	109	31	18	77	7	210
31 Mar 2023	163	109	31	18	77	7	210

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
March	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	119			124			125			126			132			139			140		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Mar 2023	3600	7200	4800	16000	1400	3400	16000	5000	5800	1000	900	940	520	1200	690	56	200	220	16000	16000	7000
02 Mar 2023	9300	6300	10400	15500	7100	2400	8700	3800	3240	575	840	740	710	5600	6990	87	170	220	13600	13600	4700
03 Mar 2023	9300	6300	10400	15500	7100	2400	8700	3800	3240	575	840	740	710	5600	6990	87	170	220	13600	13600	4700
04 Mar 2023	9300	6300	10400	15500	7100	2400	8700	3800	3240	575	840	740	710	5600	6990	87	170	220	13600	13600	4700
05 Mar 2023	9300	6300	10400	15500	7100	2400	8700	3800	3240	575	840	740	710	5600	6990	87	170	220	13600	13600	4700
06 Mar 2023	9300	6300	10400	15500	7100	2400	8700	3800	3240	575	840	740	710	5600	6990	87	170	220	13600	13600	4700
07 Mar 2023	3600	5000	6600	15000	1200	1400	1400	2400	680	150	780	540	220	1200	980	78	140	220	11000	11000	2400
08 Mar 2023	3600	5000	6600	15000	1200	1400	1400	2400	680	150	780	540	220	1200	980	78	140	220	11000	11000	2400
09 Mar 2023	3600	5000	6600	15000	1200	1400	1400	2400	680	150	780	540	220	1200	980	78	140	220	11000	11000	2400
10 Mar 2023	3600	5000	6600	15000	1200	1400	1400	2400	680	150	780	540	220	1200	980	78	140	220	11000	11000	2400
11 Mar 2023	3600	5000	6600	15000	1200	1400	1400	2400	680	150	780	540	220	1200	980	78	140	220	11000	11000	2400
12 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
13 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
14 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
15 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
16 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
17 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
18 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
19 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
20 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
21 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
22 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
23 Mar 2023	9200	5600	11300	8012	836	910	1250	1290	400	576	840	740	710	5500	6590	65	130	220	5504	5500	1500
24 Mar 2023	15500	11800	11500	16000	9900	5300	1250	3900	6000	113	720	970	180	2400	5000	56	120	170	12000	7000	7400
25 Mar 2023	15500	11800	11500	16000	9900	5300	1250	3900	6000	113	720	970	180	2400	5000	56	120	170	12000	7000	7400
26 Mar 2023	15500	11800	11500	16000	9900	5300	1250	3900	6000	113	720	970	180	2400	5000	56	120	170	12000	7000	7400
27 Mar 2023	15500	11800	11500	16000	9900	5300	1250	3900	6000	113	720	970	180	2400	5000	56	120	170	12000	7000	7400
28 Mar 2023	15000	9800	11000	16000	8800	7200	1100	2600	5800	74	880	940	220	1400	1500	52	40	120	13000	8000	7800
29 Mar 2023	10400	12900	9200	9400	4800	7400	1050	1340	3165	39	350	510	360	950	1090	31	21	110	14500	7000	11900
30 Mar 2023	10400	12900	9200	9400	4800	7400	1050	1340	3165	39	350	510	360	950	1090	31	21	110	14500	7000	11900
31 Mar 2023	10400	12900	9200	9400	4800	7400	1050	1340	3165	39	350	510	360	950	1090	31	21	110	14500	7000	11900

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	119			124			125			126			132			139			140			
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m	
March	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

April 2023

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2023	4550	4120	110	46	21	2377	584	104
02 Apr 2023	4550	4120	110	46	21	2377	584	104
03 Apr 2023	4550	4120	110	46	21	2377	584	104
04 Apr 2023	2199	2203	91	31	18	3286	342	81
05 Apr 2023	2199	2203	91	31	18	3286	342	81
06 Apr 2023	2199	4012	198	60	27	3286	826	171
07 Apr 2023	1849	4012	198	60	27	7683	826	171
08 Apr 2023	1849	4012	198	60	27	7683	826	171
09 Apr 2023	1849	4012	198	60	27	7683	826	171
10 Apr 2023	1849	4012	198	60	27	7683	826	171
11 Apr 2023	2688	4995	162	31	16	8399	1410	88
12 Apr 2023	2688	4995	162	31	16	8399	1410	88
13 Apr 2023	1849	4012	162	40	19	9295	2195	96
14 Apr 2023	1849	4012	162	40	19	9295	2195	96
15 Apr 2023	1849	4012	162	40	19	9295	2195	96
16 Apr 2023	1849	4012	162	40	19	9295	2195	96
17 Apr 2023	1849	4012	162	40	19	9295	2195	96
18 Apr 2023	2592	4995	383	22	12	9782	3084	227
19 Apr 2023	2592	4995	383	22	12	9782	3084	227
20 Apr 2023	2592	4200	216	5	5	9782	2821	84
21 Apr 2023	2119	4200	216	5	5	10561	2821	84
22 Apr 2023	2119	4200	216	5	5	10561	2821	84
23 Apr 2023	2119	4200	216	5	5	10561	2821	84
24 Apr 2023	2119	4200	216	5	5	10561	2821	84
25 Apr 2023	797	5181	428	7	4	2369	3769	96
26 Apr 2023	797	5181	428	7	4	2369	3769	96
27 Apr 2023	693	4200	700	5	3	1794	2883	119
28 Apr 2023	693	4200	700	5	3	1794	2883	119
29 Apr 2023	693	4200	700	5	3	1794	2883	119
30 Apr 2023	693	4200	700	5	3	1794	2883	119

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Apr 2023	IC	IC	IC	IC	IC	E	IC	IC
11 Apr 2023	E	E	IC	IC	IC	E	E	IC
18 Apr 2023	E	E	E	IC	IC	E	E	E
25 Apr 2023	IC	E	E	IC	IC	IC	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2023	339	2855	210	16	4	698	389	102
02 Apr 2023	339	2855	210	16	4	698	389	102
03 Apr 2023	339	2855	210	16	4	698	389	102
04 Apr 2023	355	2233	220	27	5	1162	389	160
05 Apr 2023	355	2233	220	27	5	1162	389	160
06 Apr 2023	355	2233	220	27	5	1162	389	160
07 Apr 2023	355	2233	220	27	5	1162	389	160
08 Apr 2023	355	2233	220	27	5	1162	389	160
09 Apr 2023	355	2233	220	27	5	1162	389	160
10 Apr 2023	355	2233	220	27	5	1162	389	160
11 Apr 2023	477	2233	134	18	6	1162	396	82
12 Apr 2023	477	2233	134	18	6	1162	396	82
13 Apr 2023	477	2233	134	18	6	1162	396	82
14 Apr 2023	477	2233	134	18	6	1162	396	82
15 Apr 2023	477	2233	134	18	6	1162	396	82
16 Apr 2023	477	2233	134	18	6	1162	396	82
17 Apr 2023	477	2233	134	18	6	1162	396	82
18 Apr 2023	522	4994	223	18	6	1622	773	165
19 Apr 2023	555	4994	223	18	6	2387	773	165
20 Apr 2023	555	4994	223	18	6	2387	773	165
21 Apr 2023	555	4994	223	18	6	2387	773	165
22 Apr 2023	555	4994	223	18	6	2387	773	165
23 Apr 2023	555	4994	223	18	6	2387	773	165
24 Apr 2023	555	4994	223	18	6	2387	773	165
25 Apr 2023	312	4994	292	17	6	1449	1587	122
26 Apr 2023	312	4994	292	17	6	1449	1587	122
27 Apr 2023	312	4994	292	17	6	1449	1587	122
28 Apr 2023	312	4994	292	17	6	1449	1587	122
29 Apr 2023	312	4994	292	17	6	1449	1587	122
30 Apr 2023	312	4994	292	17	6	1449	1587	122

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
April	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2023	16000	16000	6400	130	60	16000	16000	1180
02 Apr 2023	16000	16000	6400	130	60	16000	16000	1180
03 Apr 2023	16000	16000	6400	130	60	16000	16000	1180
04 Apr 2023	16000	16000	800	200	40	16000	16000	640
05 Apr 2023	16000	16000	800	200	40	16000	16000	640
06 Apr 2023	16000	16000	6400	240	60	16000	16000	1420
07 Apr 2023	11800	16000	6400	240	60	16000	16000	1420
08 Apr 2023	11800	16000	6400	240	60	16000	16000	1420
09 Apr 2023	11800	16000	6400	240	60	16000	16000	1420
10 Apr 2023	11800	16000	6400	240	60	16000	16000	1420
11 Apr 2023	16000	16000	800	200	40	16000	16000	640
12 Apr 2023	16000	16000	800	200	40	16000	16000	640
13 Apr 2023	11800	16000	700	170	30	16000	16000	400
14 Apr 2023	11800	16000	700	170	30	16000	16000	400
15 Apr 2023	11800	16000	700	170	30	16000	16000	400
16 Apr 2023	11800	16000	700	170	30	16000	16000	400
17 Apr 2023	11800	16000	700	170	30	16000	16000	400
18 Apr 2023	16000	16000	800	60	20	16000	16000	640
19 Apr 2023	16000	16000	800	60	20	16000	16000	640
20 Apr 2023	16000	16000	700	40	20	16000	16000	400
21 Apr 2023	11800	16000	700	40	20	16000	16000	400
22 Apr 2023	11800	16000	700	40	20	16000	16000	400
23 Apr 2023	11800	16000	700	40	20	16000	16000	400
24 Apr 2023	11800	16000	700	40	20	16000	16000	400
25 Apr 2023	7600	16000	800	60	20	16000	16000	640
26 Apr 2023	7600	16000	800	60	20	16000	16000	640
27 Apr 2023	9900	16000	8300	140	20	16000	16000	820
28 Apr 2023	9900	16000	8300	140	20	16000	16000	820
29 Apr 2023	9900	16000	8300	140	20	16000	16000	820
30 Apr 2023	9900	16000	8300	140	20	16000	16000	820

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
April	E	E	E	E	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2023	857	420	122	10	31	18	585
02 Apr 2023	857	420	122	10	31	18	585
03 Apr 2023	857	420	122	10	31	18	585
04 Apr 2023	857	420	122	10	31	18	585
05 Apr 2023	897	232	62	8	21	12	285
06 Apr 2023	1326	639	122	10	31	14	585
07 Apr 2023	1326	639	122	10	31	14	585
08 Apr 2023	1326	639	122	10	31	14	585
09 Apr 2023	1326	639	122	10	31	14	585
10 Apr 2023	1724	319	67	7	18	9	751
11 Apr 2023	1724	319	67	7	18	9	751
12 Apr 2023	1724	319	67	7	18	9	751
13 Apr 2023	1647	129	52	6	18	10	486
14 Apr 2023	1647	129	52	6	18	10	486
15 Apr 2023	1647	129	52	6	18	10	486
16 Apr 2023	1647	129	40	6	18	10	486
17 Apr 2023	1647	129	40	6	18	10	486
18 Apr 2023	1748	156	66	5	13	7	843
19 Apr 2023	1748	156	66	5	13	7	843
20 Apr 2023	1748	156	66	5	13	7	843
21 Apr 2023	1748	156	66	5	13	7	843
22 Apr 2023	1748	156	66	5	13	7	843
23 Apr 2023	1826	88	32	2	6	2	726
24 Apr 2023	1826	88	32	2	6	2	726
25 Apr 2023	1826	88	32	2	6	2	726
26 Apr 2023	1191	162	48	5	9	5	875
27 Apr 2023	1262	126	31	6	6	6	825
28 Apr 2023	1262	126	31	6	6	6	825
29 Apr 2023	1262	126	31	6	6	6	825
30 Apr 2023	1262	126	31	6	6	6	825

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Apr 2023	E	IC	IC	IC	IC	IC	IC
10 Apr 2023	E	IC	IC	IC	IC	IC	E
18 Apr 2023	E	E	E	IC	IC	IC	E
26 Apr 2023	E	E	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2023	163	109	31	18	77	7	210
02 Apr 2023	163	109	31	18	77	7	210
03 Apr 2023	163	109	31	18	77	7	210
04 Apr 2023	277	175	38	19	98	7	364
05 Apr 2023	272	112	25	13	83	6	252
06 Apr 2023	272	112	25	13	83	6	252
07 Apr 2023	272	112	25	13	83	6	252
08 Apr 2023	272	112	25	13	83	6	252
09 Apr 2023	272	112	25	13	83	6	252
10 Apr 2023	293	58	13	8	42	4	223
11 Apr 2023	293	58	13	8	42	4	223
12 Apr 2023	293	58	13	8	42	4	223
13 Apr 2023	293	58	13	8	42	4	223
14 Apr 2023	293	58	13	8	42	4	223
15 Apr 2023	293	58	13	8	42	4	223
16 Apr 2023	293	58	13	8	42	4	223
17 Apr 2023	293	58	13	8	42	4	223
18 Apr 2023	367	63	19	8	35	4	436
19 Apr 2023	367	63	19	8	35	4	436
20 Apr 2023	367	63	19	8	35	4	436
21 Apr 2023	367	63	19	8	35	4	436
22 Apr 2023	367	63	19	8	35	4	436
23 Apr 2023	367	63	19	8	35	4	436
24 Apr 2023	367	63	19	8	35	4	436
25 Apr 2023	481	31	18	8	40	5	301
26 Apr 2023	370	49	21	10	33	7	313
27 Apr 2023	370	49	21	10	33	7	313
28 Apr 2023	370	49	21	10	33	7	313
29 Apr 2023	370	49	21	10	33	7	313
30 Apr 2023	370	49	21	10	33	7	313

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
April	E	E	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	6m	11m	2m	6m	9m
01 Apr 2023	16400	12900	9200	9400	4800	7400	1050	1340	3188	30	350	510	360	950	1050	31	21	110	14500	7000	11900
02 Apr 2023	16400	12900	9200	9400	4800	7400	1050	1340	3188	30	350	510	360	950	1050	31	21	110	14500	7000	11900
03 Apr 2023	16400	12900	9200	9400	4800	7400	1050	1340	3188	30	350	510	360	950	1050	31	21	110	14500	7000	11900
04 Apr 2023	16400	12900	9200	9400	4800	7400	1050	1340	3188	30	350	510	360	950	1050	31	21	110	14500	7000	11900
05 Apr 2023	16000	9000	7400	2800	2800	7200	1000	80	130	2	40	40	140	800	380	2	2	190	13000	6000	7800
06 Apr 2023	16000	12900	9200	9400	4800	7400	1050	1340	3188	30	350	520	360	950	1050	31	21	72	14500	7000	11900
07 Apr 2023	16000	12900	9200	9400	4800	7400	1050	1340	3188	30	350	520	360	950	1050	31	21	72	14500	7000	11900
08 Apr 2023	16000	12900	9200	9400	4800	7400	1050	1340	3188	30	350	520	360	950	1050	31	21	72	14500	7000	11900
09 Apr 2023	16000	12900	9200	9400	4800	7400	1050	1340	3188	30	350	520	360	950	1050	31	21	72	14500	7000	11900
10 Apr 2023	16000	9800	7400	2800	2800	7200	1000	80	130	2	40	40	140	800	380	2	2	24	18000	8000	7800
11 Apr 2023	16000	9800	7400	2800	2800	7200	1000	80	130	2	40	40	140	800	380	2	2	24	18000	8000	7800
12 Apr 2023	16000	9800	7400	2800	2800	7200	1000	80	130	2	40	40	140	800	380	2	2	24	18000	8000	7800
13 Apr 2023	16000	9300	4300	1420	1540	4200	1000	53	77	2	24	30	299	340	370	2	2	15	14500	6150	9600
14 Apr 2023	16000	9300	4300	1420	1540	4200	1000	53	77	2	24	30	299	340	370	2	2	15	14500	6150	9600
15 Apr 2023	16000	9300	4300	1420	1540	4200	1000	53	77	2	24	30	299	340	370	2	2	15	14500	6150	9600
16 Apr 2023	16000	9300	4300	1420	1540	4200	801	53	77	2	24	30	299	340	370	2	2	15	14500	6150	9600
17 Apr 2023	16000	9300	4300	1420	1540	4200	801	53	77	2	24	30	299	340	370	2	2	15	14500	6150	9600
18 Apr 2023	16000	8800	5000	2200	2400	1200	680	80	130	2	8	20	20	180	360	2	2	6	16000	8000	9000
19 Apr 2023	16000	8800	5000	2200	2400	1200	680	80	130	2	8	20	20	180	360	2	2	6	16000	8000	9000
20 Apr 2023	16000	8800	5000	2200	2400	1200	680	80	130	2	8	20	20	180	360	2	2	6	16000	8000	9000
21 Apr 2023	16000	8800	5000	2200	2400	1200	680	80	130	2	8	20	20	180	360	2	2	6	16000	8000	9000
22 Apr 2023	16000	8800	5000	2200	2400	1200	680	80	130	2	8	20	20	180	360	2	2	6	16000	8000	9000
23 Apr 2023	16000	7800	3100	1120	1340	1000	341	53	77	2	5	17	19	100	210	2	2	4	16000	10100	8100
24 Apr 2023	16000	7800	3100	1120	1340	1000	341	53	77	2	5	17	19	100	210	2	2	4	16000	10100	8100
25 Apr 2023	16000	7800	3100	1120	1340	1000	341	53	77	2	5	17	19	100	210	2	2	4	16000	10100	8100
26 Apr 2023	16000	8800	1200	1120	1340	1000	680	80	130	2	8	20	20	180	360	2	2	6	16000	4200	3200
27 Apr 2023	16000	8800	1200	1120	1340	1000	341	513	302	3	5	27	19	100	80	2	3	15	18000	3500	1950
28 Apr 2023	16000	8800	1200	1120	1340	1000	341	513	302	3	5	27	19	100	80	2	3	15	18000	3500	1950
29 Apr 2023	16000	8800	1200	1120	1340	1000	341	513	302	3	5	27	19	100	80	2	3	15	18000	3500	1950
30 Apr 2023	16000	8800	1200	1120	1340	1000	341	513	302	3	5	27	19	100	80	2	3	15	18000	3500	1950

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	6m	11m	2m	6m	9m
April	E	E	E	E	E	E	E	E	E	E	E	E	E	IC	E	E	E	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

May 2023

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2023	693	4200	700	5	3	1794	2883	119
02 May 2023	1226	1989	344	4	3	2624	1067	82
03 May 2023	1226	1989	344	4	3	2624	1067	82
04 May 2023	2191	3626	581	4	2	1794	2425	105
05 May 2023	2191	3626	581	4	2	1794	2425	105
06 May 2023	2191	3626	581	4	2	1794	2425	105
07 May 2023	2191	3626	581	4	2	1794	2425	105
08 May 2023	2191	3626	581	4	2	1794	2425	105
09 May 2023	2446	4606	187	5	2	2166	2172	48
10 May 2023	2446	4606	187	5	2	2166	2172	48
11 May 2023	1644	3626	237	7	2	1412	1417	80
12 May 2023	1644	3626	237	7	2	1412	1417	80
13 May 2023	1644	3626	237	7	2	1412	1417	80
14 May 2023	1644	3626	237	7	2	1412	1417	80
15 May 2023	1644	3626	237	7	2	1412	1417	80
16 May 2023	1004	4606	255	12	3	795	1089	217
17 May 2023	1004	4606	255	12	3	795	1089	217
18 May 2023	565	3626	97	18	3	403	598	91
19 May 2023	565	3626	97	18	3	403	598	91
20 May 2023	565	3626	97	18	3	403	598	91
21 May 2023	565	3626	97	18	3	403	598	91
22 May 2023	565	3626	97	18	3	403	598	91
23 May 2023	326	4606	255	19	4	266	1089	227
24 May 2023	326	4606	255	19	4	266	1089	227
25 May 2023	692	3626	113	16	5	685	598	248
26 May 2023	692	3626	113	16	5	685	598	248
27 May 2023	692	3626	113	16	5	685	598	248
28 May 2023	692	3626	113	16	5	685	598	248
29 May 2023	692	3626	113	16	5	685	598	248
30 May 2023	466	2802	155	14	4	384	459	469

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 May 2023	E	IC	IC	IC	IC	E	IC	IC
09 May 2023	E	E	IC	IC	IC	E	E	IC
16 May 2023	IC	E	IC	IC	IC	IC	IC	E
23 May 2023	IC	E	E	IC	IC	IC	E	E
30 May 2023	IC	E	E	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2023	312	4994	292	17	6	1449	1587	122
02 May 2023	475	2410	86	6	4	1960	728	36
03 May 2023	307	2410	86	6	4	1601	728	36
04 May 2023	307	2410	86	6	4	1601	728	36
05 May 2023	307	2410	86	6	4	1601	728	36
06 May 2023	307	2410	86	6	4	1601	728	36
07 May 2023	307	2410	86	6	4	1601	728	36
08 May 2023	307	2410	86	6	4	1601	728	36
09 May 2023	457	2410	44	4	3	1848	615	18
10 May 2023	457	2410	44	4	3	1848	615	18
11 May 2023	457	2410	44	4	3	1848	615	18
12 May 2023	457	2410	44	4	3	1848	615	18
13 May 2023	457	2410	44	4	3	1848	615	18
14 May 2023	457	2410	44	4	3	1848	615	18
15 May 2023	457	2410	44	4	3	1848	615	18
16 May 2023	440	4491	46	4	3	897	575	34
17 May 2023	440	4491	46	4	3	897	575	34
18 May 2023	440	4491	46	4	3	897	575	34
19 May 2023	440	4491	46	4	3	897	575	34
20 May 2023	440	4491	46	4	3	897	575	34
21 May 2023	440	4491	46	4	3	897	575	34
22 May 2023	440	4491	46	4	3	897	575	34
23 May 2023	171	4491	124	8	3	360	775	107
24 May 2023	171	4491	124	8	3	360	775	107
25 May 2023	171	4491	124	8	3	360	775	107
26 May 2023	171	4491	124	8	3	360	775	107
27 May 2023	171	4491	124	8	3	360	775	107
28 May 2023	171	4491	124	8	3	360	775	107
29 May 2023	171	4491	124	8	3	360	775	107
30 May 2023	95	2695	107	11	3	106	478	119

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
May	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2023	9900	16000	8300	140	20	16000	16000	820
02 May 2023	16000	16000	600	20	20	16000	16000	640
03 May 2023	16000	16000	600	20	20	16000	16000	640
04 May 2023	16000	16000	8190	20	20	16000	16000	530
05 May 2023	16000	16000	8190	20	20	16000	16000	530
06 May 2023	16000	16000	8190	20	20	16000	16000	530
07 May 2023	16000	16000	8190	20	20	16000	16000	530
08 May 2023	16000	16000	8190	20	20	16000	16000	530
09 May 2023	16000	16000	380	20	20	16000	16000	60
10 May 2023	16000	16000	380	20	20	16000	16000	60
11 May 2023	16000	16000	8030	20	20	16000	15500	530
12 May 2023	16000	16000	8030	20	20	16000	15500	530
13 May 2023	16000	16000	8030	20	20	16000	15500	530
14 May 2023	16000	16000	8030	20	20	16000	15500	530
15 May 2023	16000	16000	8030	20	20	16000	15500	530
16 May 2023	16000	16000	1600	20	20	16000	15000	1000
17 May 2023	16000	16000	1600	20	20	16000	15000	1000
18 May 2023	8320	16000	830	140	20	8190	8200	530
19 May 2023	8320	16000	830	140	20	8190	8200	530
20 May 2023	8320	16000	830	140	20	8190	8200	530
21 May 2023	8320	16000	830	140	20	8190	8200	530
22 May 2023	8320	16000	830	140	20	8190	8200	530
23 May 2023	640	16000	1600	200	20	380	15000	1000
24 May 2023	640	16000	1600	200	20	380	15000	1000
25 May 2023	8320	16000	830	110	20	8190	8200	8030
26 May 2023	8320	16000	830	110	20	8190	8200	8030
27 May 2023	8320	16000	830	110	20	8190	8200	8030
28 May 2023	8320	16000	830	110	20	8190	8200	8030
29 May 2023	8320	16000	830	110	20	8190	8200	8030
30 May 2023	640	16000	1600	20	20	380	1400	8200

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station, per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
May	E	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 May 2023	1262	126	31	6	6	6	825
02 May 2023	1321	63	22	5	7	5	678
03 May 2023	1321	63	22	5	7	5	678
04 May 2023	1321	63	22	5	7	5	678
05 May 2023	1390	83	40	6	8	6	1730
06 May 2023	1390	83	40	6	8	6	1730
07 May 2023	1390	83	40	6	8	6	1730
08 May 2023	1390	83	40	6	8	6	1730
09 May 2023	1212	39	22	5	6	5	2059
10 May 2023	853	47	36	6	8	6	2062
11 May 2023	853	47	36	6	8	6	2062
12 May 2023	853	47	36	6	8	6	2062
13 May 2023	853	47	36	6	8	6	2062
14 May 2023	853	47	36	6	8	6	2062
15 May 2023	254	33	20	5	21	9	1569
16 May 2023	254	33	20	5	21	9	1569
17 May 2023	254	33	20	5	21	9	1569
18 May 2023	148	18	9	6	33	14	1056
19 May 2023	148	18	9	6	33	14	1056
20 May 2023	148	18	9	6	33	14	1056
21 May 2023	148	18	9	6	33	14	1056
22 May 2023	86	12	7	5	37	9	832
23 May 2023	86	12	7	5	37	9	832
24 May 2023	86	12	7	5	37	9	832
25 May 2023	86	12	7	5	37	9	832
26 May 2023	69	3	3	2	34	5	682
27 May 2023	69	3	3	2	34	5	682
28 May 2023	69	3	3	2	34	5	682
29 May 2023	69	3	3	2	34	5	682
30 May 2023	69	3	3	2	34	5	682

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 May 2023	E	IC	IC	IC	IC	IC	E
09 May 2023	E	IC	IC	IC	IC	IC	E
15 May 2023	IC	IC	IC	IC	E	IC	E
22 May 2023	IC	IC	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 May 2023	370	49	21	10	33	7	313
02 May 2023	355	31	15	8	26	6	243
03 May 2023	355	31	15	8	26	6	243
04 May 2023	355	31	15	8	26	6	243
05 May 2023	314	19	9	4	17	3	198
06 May 2023	314	19	9	4	17	3	198
07 May 2023	314	19	9	4	17	3	198
08 May 2023	314	19	9	4	17	3	198
09 May 2023	323	12	5	3	8	3	270
10 May 2023	323	12	5	3	8	3	270
11 May 2023	323	12	5	3	8	3	270
12 May 2023	323	12	5	3	8	3	270
13 May 2023	323	12	5	3	8	3	270
14 May 2023	323	12	5	3	8	3	270
15 May 2023	163	10	5	3	14	4	291
16 May 2023	163	10	5	3	14	4	291
17 May 2023	152	10	5	3	11	4	405
18 May 2023	152	10	5	3	11	4	405
19 May 2023	152	10	5	3	11	4	405
20 May 2023	152	10	5	3	11	4	405
21 May 2023	152	10	5	3	11	4	405
22 May 2023	68	8	5	3	13	4	533
23 May 2023	68	8	5	3	13	4	533
24 May 2023	68	8	5	3	13	4	533
25 May 2023	68	8	5	3	13	4	533
26 May 2023	68	8	5	3	13	4	533
27 May 2023	68	8	5	3	13	4	533
28 May 2023	68	8	5	3	13	4	533
29 May 2023	68	8	5	3	13	4	533
30 May 2023	49	7	4	4	15	5	443

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
May	E	IC	IC	IC	E	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 May 2023	16000	5800	1200	1120	1340	1000	341	513	302	3	5	27	19	100	80	2	3	15	16000	3500	1950
02 May 2023	16000	4800	1200	40	280	800	2	26	24	2	2	14	20	60	80	2	2	6	16000	2800	700
03 May 2023	16000	4800	1200	40	280	800	2	26	24	2	2	14	20	60	80	2	2	6	16000	2800	700
04 May 2023	16000	4800	1200	40	280	800	2	26	24	2	2	14	20	60	80	2	2	6	16000	2800	700
05 May 2023	12200	5200	1100	1110	1340	520	341	513	302	3	2	9	20	40	70	2	3	4	16000	3500	1940
06 May 2023	12200	5200	1100	1110	1340	520	341	513	302	3	2	9	20	40	70	2	3	4	16000	3500	1940
07 May 2023	12200	5200	1100	1110	1340	520	341	513	302	3	2	9	20	40	70	2	3	4	16000	3500	1940
08 May 2023	12200	5200	1100	1110	1340	520	341	513	302	3	2	9	20	40	70	2	3	4	16000	3500	1940
09 May 2023	16000	3600	1000	20	280	240	2	26	24	2	2	4	20	20	60	2	2	2	16000	2800	1800
10 May 2023	12200	2220	780	1110	1220	430	341	510	300	3	11	3	20	40	50	2	3	2	16000	1850	1240
11 May 2023	12200	2220	780	1110	1220	430	341	510	300	3	11	3	20	40	50	2	3	2	16000	1850	1240
12 May 2023	12200	2220	780	1110	1220	430	341	510	300	3	11	3	20	40	50	2	3	2	16000	1850	1240
13 May 2023	12200	2220	780	1110	1220	430	341	510	300	3	11	3	20	40	50	2	3	2	16000	1850	1240
14 May 2023	12200	2220	780	1110	1220	430	341	510	300	3	11	3	20	40	50	2	3	2	16000	1850	1240
15 May 2023	8400	840	560	34	40	60	8	20	20	2	20	4	20	60	80	2	4	2	16000	1000	1800
16 May 2023	8400	840	560	34	40	60	8	20	20	2	20	4	20	60	80	2	4	2	16000	1000	1800
17 May 2023	8400	840	560	34	40	60	8	20	20	2	20	4	20	60	80	2	4	2	16000	1000	1800
18 May 2023	6100	580	440	27	40	35	5	20	20	2	50	16	260	130	90	2	241	22	11700	950	1240
19 May 2023	6100	580	440	27	40	35	5	20	20	2	50	16	260	130	90	2	241	22	11700	950	1240
20 May 2023	6100	580	440	27	40	35	5	20	20	2	50	16	260	130	90	2	241	22	11700	950	1240
21 May 2023	6100	580	440	27	40	35	5	20	20	2	50	16	260	130	90	2	241	22	11700	950	1240
22 May 2023	3800	320	320	20	40	10	2	20	20	2	20	4	20	200	100	2	2	2	7400	900	680
23 May 2023	3800	320	320	20	40	10	2	20	20	2	20	4	20	200	100	2	2	2	7400	900	680
24 May 2023	3800	320	320	20	40	10	2	20	20	2	20	4	20	200	100	2	2	2	7400	900	680
25 May 2023	3800	320	320	20	40	10	2	20	20	2	20	4	20	200	100	2	2	2	7400	900	680
26 May 2023	4240	425	180	12	30	7	2	12	20	2	11	3	20	220	290	2	2	2	7200	800	1010
27 May 2023	4240	425	180	12	30	7	2	12	20	2	11	3	20	220	290	2	2	2	7200	800	1010
28 May 2023	4240	425	180	12	30	7	2	12	20	2	11	3	20	220	290	2	2	2	7200	800	1010
29 May 2023	4240	425	180	12	30	7	2	12	20	2	11	3	20	220	290	2	2	2	7200	800	1010
30 May 2023	4240	425	180	12	30	7	2	12	20	2	11	3	20	220	290	2	2	2	7200	800	1010

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
May	E	E	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	E	E	E	IC	E	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

June 2023

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2023	207	6447	258	23	5	163	1005	1061
02 Jun 2023	207	6447	258	23	5	163	1005	1061
03 Jun 2023	207	6447	258	23	5	163	1005	1061
04 Jun 2023	207	6447	258	23	5	163	1005	1061
05 Jun 2023	207	6447	258	23	5	163	1005	1061
06 Jun 2023	284	7300	555	16	7	234	1651	1397
07 Jun 2023	284	7300	555	16	7	234	1651	1397
08 Jun 2023	148	6447	2268	17	9	111	1720	7182
09 Jun 2023	148	6447	2268	17	9	111	1720	7182
10 Jun 2023	148	6447	2268	17	9	111	1720	7182
11 Jun 2023	148	6447	2268	17	9	111	1720	7182
12 Jun 2023	148	6447	2268	17	9	111	1720	7182
13 Jun 2023	304	6798	2459	11	7	243	1807	4631
14 Jun 2023	304	6798	2459	11	7	243	1807	4631
15 Jun 2023	370	5897	4032	6	6	321	2668	3650
16 Jun 2023	370	5897	4032	6	6	321	2668	3650
17 Jun 2023	370	5897	4032	6	6	321	2668	3650
18 Jun 2023	370	5897	4032	6	6	321	2668	3650
19 Jun 2023	370	5897	4032	6	6	321	2668	3650
20 Jun 2023	130	3955	1603	7	5	336	1843	813
21 Jun 2023	130	3955	1603	7	5	336	1843	813
22 Jun 2023	179	2997	969	5	4	540	1154	448
23 Jun 2023	179	2997	969	5	4	540	1154	448
24 Jun 2023	179	2997	969	5	4	540	1154	448
25 Jun 2023	179	2997	969	5	4	540	1154	448
26 Jun 2023	179	2997	969	5	4	540	1154	448
27 Jun 2023	149	3955	281	4	5	780	324	152
28 Jun 2023	149	3955	281	4	5	780	324	152
29 Jun 2023	166	5577	239	4	6	1661	386	61
30 Jun 2023	166	5577	239	4	6	1661	386	61

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
06 Jun 2023	E	E	E	IC	IC	E	E	E
13 Jun 2023	E	E	E	IC	IC	E	E	E
20 Jun 2023	IC	E	IC	IC	IC	IC	E	IC
27 Jun 2023	IC	E	IC	IC	IC	E	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2023	95	2695	107	11	3	106	478	119
02 Jun 2023	95	2695	107	11	3	106	478	119
03 Jun 2023	95	2695	107	11	3	106	478	119
04 Jun 2023	95	2695	107	11	3	106	478	119
05 Jun 2023	95	2695	107	11	3	106	478	119
06 Jun 2023	252	2656	147	10	5	261	478	323
07 Jun 2023	252	2656	147	10	5	261	478	323
08 Jun 2023	252	2656	147	10	5	261	478	323
09 Jun 2023	252	2656	147	10	5	261	478	323
10 Jun 2023	252	2656	147	10	5	261	478	323
11 Jun 2023	252	2656	147	10	5	261	478	323
12 Jun 2023	252	2656	147	10	5	261	478	323
13 Jun 2023	190	4409	376	10	6	191	782	521
14 Jun 2023	190	4409	376	10	6	191	782	521
15 Jun 2023	190	4409	376	10	6	191	782	521
16 Jun 2023	190	4409	376	10	6	191	782	521
17 Jun 2023	190	4409	376	10	6	191	782	521
18 Jun 2023	190	4409	376	10	6	191	782	521
19 Jun 2023	190	4409	376	10	6	191	782	521
20 Jun 2023	66	3004	886	10	6	210	845	626
21 Jun 2023	66	3004	886	10	6	210	845	626
22 Jun 2023	66	3004	886	10	6	210	845	626
23 Jun 2023	66	3004	886	10	6	210	845	626
24 Jun 2023	66	3004	886	10	6	210	845	626
25 Jun 2023	66	3004	886	10	6	210	845	626
26 Jun 2023	66	3004	886	10	6	210	845	626
27 Jun 2023	66	3524	448	5	6	399	427	164
28 Jun 2023	66	3524	448	5	6	399	427	164
29 Jun 2023	66	3524	448	5	6	399	427	164
30 Jun 2023	66	3524	448	5	6	399	427	164

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
June	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2023	460	16000	1700	110	20	320	8200	12100
02 Jun 2023	460	16000	1700	110	20	320	8200	12100
03 Jun 2023	460	16000	1700	110	20	320	8200	12100
04 Jun 2023	460	16000	1700	110	20	320	8200	12100
05 Jun 2023	460	16000	1700	110	20	320	8200	12100
06 Jun 2023	640	16000	1800	20	20	380	15000	9000
07 Jun 2023	640	16000	1800	20	20	380	15000	9000
08 Jun 2023	460	16000	8900	110	20	320	8700	12500
09 Jun 2023	460	16000	8900	110	20	320	8700	12500
10 Jun 2023	460	16000	8900	110	20	320	8700	12500
11 Jun 2023	460	16000	8900	110	20	320	8700	12500
12 Jun 2023	460	16000	8900	110	20	320	8700	12500
13 Jun 2023	640	16000	7400	20	20	380	11000	9000
14 Jun 2023	640	16000	7400	20	20	380	11000	9000
15 Jun 2023	3340	15500	11700	20	20	2730	13500	8600
16 Jun 2023	3340	15500	11700	20	20	2730	13500	8600
17 Jun 2023	3340	15500	11700	20	20	2730	13500	8600
18 Jun 2023	3340	15500	11700	20	20	2730	13500	8600
19 Jun 2023	3340	15500	11700	20	20	2730	13500	8600
20 Jun 2023	280	15000	7400	20	20	1400	11000	8200
21 Jun 2023	280	15000	7400	20	20	1400	11000	8200
22 Jun 2023	3340	10500	4600	20	20	3300	6000	5700
23 Jun 2023	3340	10500	4600	20	20	3300	6000	5700
24 Jun 2023	3340	10500	4600	20	20	3300	6000	5700
25 Jun 2023	3340	10500	4600	20	20	3300	6000	5700
26 Jun 2023	3340	10500	4600	20	20	3300	6000	5700
27 Jun 2023	280	15000	1800	20	20	5200	1000	3200
28 Jun 2023	280	15000	1800	20	20	5200	1000	3200
29 Jun 2023	3300	15500	3800	20	20	10600	6000	1610
30 Jun 2023	3300	15500	3800	20	20	10600	6000	1610

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
June	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jun 2023	18	3	2	2	22	5	910
02 Jun 2023	18	3	2	2	22	5	910
03 Jun 2023	18	3	2	2	22	5	910
04 Jun 2023	18	3	2	2	22	5	910
05 Jun 2023	18	3	2	2	22	5	910
06 Jun 2023	35	3	2	2	36	4	456
07 Jun 2023	35	3	2	2	36	4	456
08 Jun 2023	16	3	2	2	75	5	263
09 Jun 2023	16	3	2	2	75	5	263
10 Jun 2023	16	3	2	2	75	5	263
11 Jun 2023	16	3	2	2	75	5	263
12 Jun 2023	16	3	2	2	75	5	263
13 Jun 2023	21	3	2	2	36	4	151
14 Jun 2023	38	2	2	2	16	2	111
15 Jun 2023	38	2	2	2	16	2	111
16 Jun 2023	38	2	2	2	16	2	111
17 Jun 2023	38	2	2	2	16	2	111
18 Jun 2023	38	2	2	2	16	2	111
19 Jun 2023	38	2	2	2	16	2	111
20 Jun 2023	21	2	2	2	11	2	50
21 Jun 2023	25	2	2	2	7	2	31
22 Jun 2023	25	2	2	2	7	2	31
23 Jun 2023	25	2	2	2	7	2	31
24 Jun 2023	25	2	2	2	7	2	31
25 Jun 2023	25	2	2	2	7	2	31
26 Jun 2023	33	2	2	2	5	2	18
27 Jun 2023	33	2	2	2	5	2	18
28 Jun 2023	33	2	2	2	5	2	18
29 Jun 2023	33	2	2	2	5	2	18
30 Jun 2023	33	2	2	2	5	2	18

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jun 2023	IC	IC	IC	IC	IC	IC	E
06 Jun 2023	E	IC	IC	IC	E	IC	IC
13 Jun 2023	IC	IC	IC	IC	IC	IC	IC
20 Jun 2023	IC	IC	IC	IC	IC	IC	IC
26 Jun 2023	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jun 2023	29	6	3	3	11	4	441
02 Jun 2023	29	6	3	3	11	4	441
03 Jun 2023	29	6	3	3	11	4	441
04 Jun 2023	29	6	3	3	11	4	441
05 Jun 2023	29	6	3	3	11	4	441
06 Jun 2023	38	5	3	3	17	4	249
07 Jun 2023	32	2	2	2	17	3	232
08 Jun 2023	32	2	2	2	17	3	232
09 Jun 2023	32	2	2	2	17	3	232
10 Jun 2023	32	2	2	2	17	3	232
11 Jun 2023	32	2	2	2	17	3	232
12 Jun 2023	32	2	2	2	17	3	232
13 Jun 2023	21	2	2	2	15	3	134
14 Jun 2023	21	2	2	2	15	3	134
15 Jun 2023	21	2	2	2	15	3	134
16 Jun 2023	21	2	2	2	15	3	134
17 Jun 2023	21	2	2	2	15	3	134
18 Jun 2023	21	2	2	2	15	3	134
19 Jun 2023	21	2	2	2	15	3	134
20 Jun 2023	11	2	2	2	15	3	53
21 Jun 2023	11	2	2	2	15	3	53
22 Jun 2023	11	2	2	2	15	3	53
23 Jun 2023	11	2	2	2	15	3	53
24 Jun 2023	11	2	2	2	15	3	53
25 Jun 2023	11	2	2	2	15	3	53
26 Jun 2023	19	2	2	2	6	2	22
27 Jun 2023	19	2	2	2	6	2	22
28 Jun 2023	19	2	2	2	6	2	22
29 Jun 2023	19	2	2	2	6	2	22
30 Jun 2023	19	2	2	2	6	2	22

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
June	E	IC	IC	IC	E	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Jun 2023	50	55	90	4	20	7	2	3	11	2	11	2	20	200	260	2	2	2	7200	950	990
02 Jun 2023	50	55	90	4	20	7	2	3	11	2	11	2	20	200	260	2	2	2	7200	950	990
03 Jun 2023	50	55	90	4	20	7	2	3	11	2	11	2	20	200	260	2	2	2	7200	950	990
04 Jun 2023	50	55	90	4	20	7	2	3	11	2	11	2	20	200	260	2	2	2	7200	950	990
05 Jun 2023	50	55	90	4	20	7	2	3	11	2	11	2	20	200	260	2	2	2	7200	950	990
06 Jun 2023	80	100	140	4	20	4	2	2	20	2	4	2	20	380	500	2	2	2	7000	900	200
07 Jun 2023	80	100	140	4	20	4	2	2	20	2	4	2	20	380	500	2	2	2	7000	900	200
08 Jun 2023	50	55	90	3	11	7	2	2	11	2	3	2	70	890	550	2	2	2	6800	750	190
09 Jun 2023	50	55	90	3	11	7	2	2	11	2	3	2	70	890	550	2	2	2	6800	750	190
10 Jun 2023	50	55	90	3	11	7	2	2	11	2	3	2	70	890	550	2	2	2	6800	750	190
11 Jun 2023	50	55	90	3	11	7	2	2	11	2	3	2	70	890	550	2	2	2	6800	750	190
12 Jun 2023	50	55	90	3	11	7	2	2	11	2	3	2	70	890	550	2	2	2	6800	750	190
13 Jun 2023	80	20	40	2	2	4	2	2	2	2	2	2	20	380	500	2	2	2	6600	500	180
14 Jun 2023	460	60	90	2	2	3	2	2	2	2	2	2	11	191	260	2	2	2	3460	320	140
15 Jun 2023	460	60	90	2	2	3	2	2	2	2	2	2	11	191	260	2	2	2	3460	320	140
16 Jun 2023	460	60	90	2	2	3	2	2	2	2	2	2	11	191	260	2	2	2	3460	320	140
17 Jun 2023	460	60	90	2	2	3	2	2	2	2	2	2	11	191	260	2	2	2	3460	320	140
18 Jun 2023	460	60	90	2	2	3	2	2	2	2	2	2	11	191	260	2	2	2	3460	320	140
19 Jun 2023	460	60	90	2	2	3	2	2	2	2	2	2	11	191	260	2	2	2	3460	320	140
20 Jun 2023	80	20	40	2	2	2	2	2	2	2	2	2	2	20	2	2	2	320	140	100	
21 Jun 2023	430	60	90	2	2	2	2	2	2	2	2	2	11	2	11	2	2	200	90	60	
22 Jun 2023	430	60	90	2	2	2	2	2	2	2	2	2	11	2	11	2	2	200	90	60	
23 Jun 2023	430	60	90	2	2	2	2	2	2	2	2	2	11	2	11	2	2	200	90	60	
24 Jun 2023	430	60	90	2	2	2	2	2	2	2	2	2	11	2	11	2	2	200	90	60	
25 Jun 2023	430	60	90	2	2	2	2	2	2	2	2	2	11	2	11	2	2	200	90	60	
26 Jun 2023	840	20	40	2	2	2	2	2	2	2	2	2	2	2	20	2	2	80	40	20	
27 Jun 2023	840	20	40	2	2	2	2	2	2	2	2	2	2	2	20	2	2	80	40	20	
28 Jun 2023	840	20	40	2	2	2	2	2	2	2	2	2	2	2	20	2	2	80	40	20	
29 Jun 2023	840	20	40	2	2	2	2	2	2	2	2	2	2	2	20	2	2	80	40	20	
30 Jun 2023	840	20	40	2	2	2	2	2	2	2	2	2	2	2	20	2	2	80	40	20	

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
June	E	E	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	E	E	IC	IC	IC	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

July 2023

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jul 2023	166	5577	239	4	6	1661	386	61
02 Jul 2023	166	5577	239	4	6	1661	386	61
03 Jul 2023	166	5577	239	4	6	1661	386	61
04 Jul 2023	166	5577	239	4	6	1661	386	61
05 Jul 2023	166	5577	239	4	6	1661	386	61
06 Jul 2023	77	5577	160	3	5	640	165	21
07 Jul 2023	77	5577	160	3	5	640	165	21
08 Jul 2023	77	5577	160	3	5	640	165	21
09 Jul 2023	77	5577	160	3	5	640	165	21
10 Jul 2023	77	5577	160	3	5	640	165	21
11 Jul 2023	37	5270	83	3	4	202	85	15
12 Jul 2023	37	5270	83	3	4	202	85	15
13 Jul 2023	11	4690	33	3	5	88	38	6
14 Jul 2023	11	4690	33	3	5	88	38	6
15 Jul 2023	11	4690	33	3	5	88	38	6
16 Jul 2023	11	4690	33	3	5	88	38	6
17 Jul 2023	11	4690	33	3	5	88	38	6
18 Jul 2023	9	1422	39	3	5	41	34	5
19 Jul 2023	9	1422	39	3	5	41	34	5
20 Jul 2023	14	1641	38	2	6	23	18	7
21 Jul 2023	14	1641	38	2	6	23	18	7
22 Jul 2023	14	1641	38	2	6	23	18	7
23 Jul 2023	14	1641	38	2	6	23	18	7
24 Jul 2023	14	1641	38	2	6	23	18	7
25 Jul 2023	9	1324	21	2	8	19	14	9
26 Jul 2023	9	1324	21	2	8	19	14	9
27 Jul 2023	6	763	38	2	6	5	22	13
28 Jul 2023	6	763	38	2	6	5	22	13
29 Jul 2023	6	763	38	2	6	5	22	13
30 Jul 2023	6	763	38	2	6	5	22	13
31 Jul 2023	6	763	38	2	6	5	22	13

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
06 Jul 2023	IC	E	E	IC	IC	IC	IC	IC
11 Jul 2023	IC	E	IC	IC	IC	IC	IC	IC
18 Jul 2023	IC	IC	IC	IC	IC	IC	IC	IC
25 Jul 2023	IC	E	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jul 2023	66	3524	448	5	6	399	427	164
02 Jul 2023	66	3524	448	5	6	399	427	164
03 Jul 2023	66	3524	448	5	6	399	427	164
04 Jul 2023	80	2758	232	3	5	605	219	77
05 Jul 2023	80	2758	232	3	5	605	219	77
06 Jul 2023	70	3046	269	5	6	315	236	66
07 Jul 2023	70	3046	269	5	6	315	236	66
08 Jul 2023	70	3046	269	5	6	315	236	66
09 Jul 2023	70	3046	269	5	6	315	236	66
10 Jul 2023	70	3046	269	5	6	315	236	66
11 Jul 2023	46	3934	138	3	6	250	168	35
12 Jul 2023	46	3934	138	3	6	250	168	35
13 Jul 2023	46	3934	138	3	6	250	168	35
14 Jul 2023	46	3934	138	3	6	250	168	35
15 Jul 2023	46	3934	138	3	6	250	168	35
16 Jul 2023	46	3934	138	3	6	250	168	35
17 Jul 2023	46	3934	138	3	6	250	168	35
18 Jul 2023	23	1785	87	3	4	102	88	15
19 Jul 2023	23	1785	87	3	4	102	88	15
20 Jul 2023	23	1785	87	3	4	102	88	15
21 Jul 2023	23	1785	87	3	4	102	88	15
22 Jul 2023	23	1785	87	3	4	102	88	15
23 Jul 2023	23	1785	87	3	4	102	88	15
24 Jul 2023	23	1785	87	3	4	102	88	15
25 Jul 2023	10	1166	34	3	5	33	46	11
26 Jul 2023	10	1166	34	3	5	33	46	11
27 Jul 2023	10	1166	34	3	5	33	46	11
28 Jul 2023	10	1166	34	3	5	33	46	11
29 Jul 2023	10	1166	34	3	5	33	46	11
30 Jul 2023	10	1166	34	3	5	33	46	11
31 Jul 2023	10	1166	34	3	5	33	46	11

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
July	IC	E	E	IC	IC	IC	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jul 2023	3300	15500	3800	20	20	10600	6000	1610
02 Jul 2023	3300	15500	3800	20	20	10600	6000	1610
03 Jul 2023	3300	15500	3800	20	20	10600	6000	1610
04 Jul 2023	3300	15500	3800	20	20	10600	6000	1610
05 Jul 2023	3300	15500	3800	20	20	10600	6000	1610
06 Jul 2023	300	15500	500	20	20	8700	3300	210
07 Jul 2023	300	15500	500	20	20	8700	3300	210
08 Jul 2023	300	15500	500	20	20	8700	3300	210
09 Jul 2023	300	15500	500	20	20	8700	3300	210
10 Jul 2023	300	15500	500	20	20	8700	3300	210
11 Jul 2023	200	16000	200	20	20	1400	1000	200
12 Jul 2023	200	16000	200	20	20	1400	1000	200
13 Jul 2023	110	16000	120	20	110	800	510	110
14 Jul 2023	110	16000	120	20	110	800	510	110
15 Jul 2023	110	16000	120	20	110	800	510	110
16 Jul 2023	110	16000	120	20	110	800	510	110
17 Jul 2023	110	16000	120	20	110	800	510	110
18 Jul 2023	20	16000	200	20	200	200	200	200
19 Jul 2023	20	16000	200	20	200	200	200	200
20 Jul 2023	110	16000	120	20	200	101	110	200
21 Jul 2023	110	16000	120	20	200	101	110	200
22 Jul 2023	110	16000	120	20	200	101	110	200
23 Jul 2023	110	16000	120	20	200	101	110	200
24 Jul 2023	110	16000	120	20	200	101	110	200
25 Jul 2023	200	16000	40	20	200	20	200	200
26 Jul 2023	200	16000	40	20	200	20	200	200
27 Jul 2023	110	16000	120	110	200	11	200	200
28 Jul 2023	110	16000	120	110	200	11	200	200
29 Jul 2023	110	16000	120	110	200	11	200	200
30 Jul 2023	110	16000	120	110	200	11	200	200
31 Jul 2023	110	16000	120	110	200	11	200	200

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
July	E	E	E	IC	IC	IC	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

August 2023

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2023	9	527	61	2	8	8	32	21
02 Aug 2023	9	527	61	2	8	8	32	21
03 Aug 2023	9	527	61	2	8	8	32	21
04 Aug 2023	9	527	61	2	8	8	32	21
05 Aug 2023	6	241	25	2	8	7	17	16
06 Aug 2023	6	241	25	2	8	7	17	16
07 Aug 2023	6	241	25	2	8	7	17	16
08 Aug 2023	7	527	37	2	8	5	36	14
09 Aug 2023	7	527	37	2	8	5	36	14
10 Aug 2023	9	314	58	2	11	7	57	19
11 Aug 2023	9	314	58	2	11	7	57	19
12 Aug 2023	9	314	58	2	11	7	57	19
13 Aug 2023	9	314	58	2	11	7	57	19
14 Aug 2023	9	314	58	2	11	7	57	19
15 Aug 2023	11	297	77	2	12	8	70	24
16 Aug 2023	11	297	77	2	12	8	70	24
17 Aug 2023	12	663	77	2	15	12	92	37
18 Aug 2023	12	663	77	2	15	12	92	37
19 Aug 2023	12	663	77	2	15	12	92	37
20 Aug 2023	12	663	77	2	15	12	92	37
21 Aug 2023	12	663	77	2	15	12	92	37
22 Aug 2023	39	1184	211	11	53	29	244	117
23 Aug 2023	39	1184	211	11	53	29	244	117
24 Aug 2023	82	1427	675	18	68	39	681	162
25 Aug 2023	82	1427	675	18	68	39	681	162
26 Aug 2023	82	1427	675	18	68	39	681	162
27 Aug 2023	82	1427	675	18	68	39	681	162
28 Aug 2023	82	1427	675	18	68	39	681	162
29 Aug 2023	64	1271	1133	16	42	32	692	383
30 Aug 2023	64	1271	1133	16	42	32	692	383
31 Aug 2023	69	2293	1470	26	50	27	1033	513

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2023	IC	IC	IC	IC	IC	IC	IC	IC
08 Aug 2023	IC	E	IC	IC	IC	IC	E	IC
15 Aug 2023	IC	IC	IC	IC	IC	IC	IC	IC
22 Aug 2023	E	E	E	E	E	E	E	E
29 Aug 2023	IC	E	E	IC	IC	IC	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2023	14	700	27	5	8	14	31	17
02 Aug 2023	14	700	27	5	8	14	31	17
03 Aug 2023	14	700	27	5	8	14	31	17
04 Aug 2023	14	700	27	5	8	14	31	17
05 Aug 2023	14	700	27	5	8	14	31	17
06 Aug 2023	14	700	27	5	8	14	31	17
07 Aug 2023	14	700	27	5	8	14	31	17
08 Aug 2023	11	690	82	7	10	5	101	32
09 Aug 2023	11	690	82	7	10	5	101	32
10 Aug 2023	11	690	82	7	10	5	101	32
11 Aug 2023	11	690	82	7	10	5	101	32
12 Aug 2023	11	690	82	7	10	5	101	32
13 Aug 2023	11	690	82	7	10	5	101	32
14 Aug 2023	11	690	82	7	10	5	101	32
15 Aug 2023	10	643	115	6	13	5	134	38
16 Aug 2023	10	643	115	6	13	5	134	38
17 Aug 2023	8	456	88	4	13	4	115	39
18 Aug 2023	8	456	88	4	13	4	115	39
19 Aug 2023	8	456	88	4	13	4	115	39
20 Aug 2023	8	456	88	4	13	4	115	39
21 Aug 2023	8	456	88	4	13	4	115	39
22 Aug 2023	30	589	334	15	40	12	367	95
23 Aug 2023	30	589	334	15	40	12	367	95
24 Aug 2023	30	589	334	15	40	12	367	95
25 Aug 2023	30	589	334	15	40	12	367	95
26 Aug 2023	30	589	334	15	40	12	367	95
27 Aug 2023	30	589	334	15	40	12	367	95
28 Aug 2023	30	589	334	15	40	12	367	95
29 Aug 2023	35	734	394	20	55	16	409	270
30 Aug 2023	35	734	394	20	55	16	409	270
31 Aug 2023	35	734	394	20	55	16	409	270

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
August	E	E	E	E	E	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2023	200	16000	200	200	200	20	200	200
02 Aug 2023	200	16000	200	200	200	20	200	200
03 Aug 2023	200	16000	200	200	200	20	200	200
04 Aug 2023	200	16000	200	200	200	20	200	200
05 Aug 2023	110	8400	120	110	200	11	200	200
06 Aug 2023	110	8400	120	110	200	11	200	200
07 Aug 2023	110	8400	120	110	200	11	200	200
08 Aug 2023	60	16000	200	200	200	20	200	200
09 Aug 2023	60	16000	200	200	200	20	200	200
10 Aug 2023	130	8400	1700	200	200	30	1500	200
11 Aug 2023	130	8400	1700	200	200	30	1500	200
12 Aug 2023	130	8400	1700	200	200	30	1500	200
13 Aug 2023	130	8400	1700	200	200	30	1500	200
14 Aug 2023	130	8400	1700	200	200	30	1500	200
15 Aug 2023	60	4000	3200	200	200	40	2800	200
16 Aug 2023	60	4000	3200	200	200	40	2800	200
17 Aug 2023	130	10000	5600	200	200	60	3600	700
18 Aug 2023	130	10000	5600	200	200	60	3600	700
19 Aug 2023	130	10000	5600	200	200	60	3600	700
20 Aug 2023	130	10000	5600	200	200	60	3600	700
21 Aug 2023	130	10000	5600	200	200	60	3600	700
22 Aug 2023	200	16000	8000	200	200	80	4400	1200
23 Aug 2023	200	16000	8000	200	200	80	4400	1200
24 Aug 2023	730	10000	8100	240	200	340	8200	2300
25 Aug 2023	730	10000	8100	240	200	340	8200	2300
26 Aug 2023	730	10000	8100	240	200	340	8200	2300
27 Aug 2023	730	10000	8100	240	200	340	8200	2300
28 Aug 2023	730	10000	8100	240	200	340	8200	2300
29 Aug 2023	80	8400	8200	200	200	80	9400	3400
30 Aug 2023	80	8400	8200	200	200	80	9400	3400
31 Aug 2023	70	12200	12100	240	200	60	10700	8600

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station, per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
August	E	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Aug 2023	IC	IC	IC	IC	IC	IC	IC
07 Aug 2023	IC	IC	IC	IC	IC	IC	IC
14 Aug 2023	IC	IC	IC	IC	IC	IC	IC
23 Aug 2023	IC	E	IC	IC	E	IC	IC
28 Aug 2023	IC	IC	IC	E	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
August	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Aug 2023	2	20	2	2	2	2	2	2	2	2	2	2	2	20	20	2	2	2	11	32	14
02 Aug 2023	2	20	2	2	2	2	2	2	2	2	2	2	2	20	20	2	2	2	11	32	14
03 Aug 2023	2	20	2	2	2	2	2	2	2	2	2	2	2	20	20	2	2	2	11	32	14
04 Aug 2023	2	20	11	2	11	11	7	11	11	2	2	11	2	20	20	2	2	2	11	32	14
05 Aug 2023	2	20	11	2	11	11	7	11	11	2	2	11	2	20	20	2	2	2	11	32	14
06 Aug 2023	2	20	11	2	11	11	7	11	11	2	2	11	2	20	20	2	2	2	11	32	14
07 Aug 2023	2	20	2	2	20	2	2	2	2	2	2	2	2	20	20	2	2	2	20	20	20
08 Aug 2023	2	20	2	2	20	2	2	2	2	2	2	2	2	20	20	2	2	2	20	20	20
09 Aug 2023	2	20	2	2	20	2	2	2	2	2	2	2	2	20	20	2	2	2	20	20	20
10 Aug 2023	2	20	2	2	20	2	2	2	2	2	2	2	2	20	20	2	2	2	20	20	20
11 Aug 2023	2	20	2	2	20	2	2	2	2	2	2	2	2	20	20	2	2	2	20	20	20
12 Aug 2023	11	20	2	11	20	7	11	11	11	2	2	11	11	20	20	2	2	3	20	40	20
13 Aug 2023	11	20	2	11	20	7	11	11	11	2	2	11	11	20	20	2	2	3	20	40	20
14 Aug 2023	20	20	2	20	20	2	20	20	2	2	4	20	20	20	2	2	2	20	20	20	20
15 Aug 2023	20	20	2	20	20	2	20	20	2	2	4	20	20	20	2	2	2	20	20	20	20
16 Aug 2023	20	20	2	20	20	2	20	20	2	2	4	20	20	20	2	2	2	20	20	20	20
17 Aug 2023	20	20	2	20	20	2	20	20	2	2	4	20	20	20	2	2	2	20	20	20	20
18 Aug 2023	20	20	15	21	20	7	21	11	11	11	3	20	20	20	8	2	2	20	20	20	20
19 Aug 2023	20	20	15	21	20	7	21	11	11	11	3	20	20	20	8	2	2	20	20	20	20
20 Aug 2023	20	20	15	21	20	7	21	11	11	11	3	20	20	20	8	2	2	20	20	20	20
21 Aug 2023	20	20	15	21	20	7	21	11	11	11	3	20	20	20	8	2	2	20	20	20	20
22 Aug 2023	20	20	15	21	20	7	21	11	11	11	3	20	20	20	8	2	2	20	20	20	20
23 Aug 2023	20	20	10	40	20	2	40	20	20	20	4	20	20	20	2	2	2	20	20	20	20
24 Aug 2023	20	20	10	40	20	2	40	20	20	20	4	20	20	20	2	2	2	20	20	20	20
25 Aug 2023	20	20	10	40	20	2	40	20	20	20	4	20	20	20	2	2	2	20	20	20	20
26 Aug 2023	30	20	19	220	110	2	220	110	20	110	12	110	20	110	8	5	3	40	110	110	110
27 Aug 2023	30	20	19	220	110	2	220	110	20	110	12	110	20	110	8	5	3	40	110	110	110
28 Aug 2023	20	20	28	40	200	2	140	80	20	200	20	60	20	200	14	8	4	20	60	200	200
29 Aug 2023	20	20	28	40	200	2	140	80	20	200	20	60	20	200	14	8	4	20	60	200	200
30 Aug 2023	20	20	28	40	200	2	140	80	20	200	20	60	20	200	14	8	4	20	60	200	200
31 Aug 2023	20	20	28	40	200	2	140	80	20	200	20	60	20	200	14	8	4	20	60	200	200

Exhibit 4. Bacterial Objective Violations

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
August	IC	E	E	IC	E	E	IC	E	E	E	E	E	E	E	E	E	E	E	IC	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

January 2022

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2022	860	177	24	6	7	936	34	12
02 Jan 2022	860	177	24	6	7	936	34	12
03 Jan 2022	860	177	24	6	7	936	34	12
04 Jan 2022	706	204	15	5	5	790	19	8
05 Jan 2022	706	204	15	5	5	790	19	8
06 Jan 2022	452	648	24	5	6	782	28	10
07 Jan 2022	452	648	24	5	6	782	28	10
08 Jan 2022	452	648	24	5	6	782	28	10
09 Jan 2022	452	648	24	5	6	782	28	10
10 Jan 2022	452	648	24	5	6	782	28	10
11 Jan 2022	384	1162	15	4	5	646	17	7
12 Jan 2022	384	1162	15	4	5	646	17	7
13 Jan 2022	324	1579	7	2	3	579	9	3
14 Jan 2022	324	1579	7	2	3	579	9	3
15 Jan 2022	324	1579	7	2	3	579	9	3
16 Jan 2022	324	1579	7	2	3	579	9	3
17 Jan 2022	324	1579	7	2	3	579	9	3
18 Jan 2022	466	1862	18	3	3	646	23	7
19 Jan 2022	466	1862	18	3	3	646	23	7
20 Jan 2022	959	3696	16	3	3	1095	18	7
21 Jan 2022	959	3696	16	3	3	1095	18	7
22 Jan 2022	959	3696	16	3	3	1095	18	7
23 Jan 2022	959	3696	16	3	3	1095	18	7
24 Jan 2022	959	3696	16	3	3	1095	18	7
25 Jan 2022	1589	4678	34	3	2	1768	34	6
26 Jan 2022	1589	4678	34	3	2	1768	34	6
27 Jan 2022	1113	3696	39	3	2	1095	39	5
28 Jan 2022	1113	3696	39	3	2	1095	39	5
29 Jan 2022	1113	3696	39	3	2	1095	39	5
30 Jan 2022	1113	3696	39	3	2	1095	39	5
31 Jan 2022	1113	3696	39	3	2	1095	39	5

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Jan 2022	IC	IC	IC	IC	IC	IC	IC	IC
11 Jan 2022	IC	E	IC	IC	IC	IC	IC	IC
18 Jan 2022	E	E	E	IC	IC	E	E	IC
25 Jan 2022	E	E	E	IC	IC	E	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2022	100	38	19	4	4	130	21	9
02 Jan 2022	100	38	19	4	4	130	21	9
03 Jan 2022	100	38	19	4	4	130	21	9
04 Jan 2022	155	72	21	4	4	193	21	9
05 Jan 2022	155	72	21	4	4	193	21	9
06 Jan 2022	155	72	21	4	4	193	21	9
07 Jan 2022	155	72	21	4	4	193	21	9
08 Jan 2022	155	72	21	4	4	193	21	9
09 Jan 2022	155	72	21	4	4	193	21	9
10 Jan 2022	155	72	21	4	4	193	21	9
11 Jan 2022	293	308	13	4	4	348	15	9
12 Jan 2022	293	308	13	4	4	348	15	9
13 Jan 2022	293	308	13	4	4	348	15	9
14 Jan 2022	293	308	13	4	4	348	15	9
15 Jan 2022	293	308	13	4	4	348	15	9
16 Jan 2022	293	308	13	4	4	348	15	9
17 Jan 2022	293	308	13	4	4	348	15	9
18 Jan 2022	226	792	30	4	2	314	31	16
19 Jan 2022	226	792	30	4	2	314	31	16
20 Jan 2022	226	792	30	4	2	314	31	16
21 Jan 2022	226	792	30	4	2	314	31	16
22 Jan 2022	226	792	30	4	2	314	31	16
23 Jan 2022	226	792	30	4	2	314	31	16
24 Jan 2022	226	792	30	4	2	314	31	16
25 Jan 2022	323	1663	23	2	2	476	23	11
26 Jan 2022	323	1663	23	2	2	476	23	11
27 Jan 2022	323	1663	23	2	2	476	23	11
28 Jan 2022	323	1663	23	2	2	476	23	11
29 Jan 2022	323	1663	23	2	2	476	23	11
30 Jan 2022	323	1663	23	2	2	476	23	11
31 Jan 2022	323	1663	23	2	2	476	23	11

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
January	E	E	E	IC	IC	E	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2022	10500	3600	630	40	20	6900	900	33
02 Jan 2022	10500	3600	630	40	20	6900	900	33
03 Jan 2022	10500	3600	630	40	20	6900	900	33
04 Jan 2022	5000	3800	60	20	20	6000	200	6
05 Jan 2022	5000	3800	60	20	20	6000	200	6
06 Jan 2022	3200	3800	630	34	12	4500	900	33
07 Jan 2022	3200	3800	630	34	12	4500	900	33
08 Jan 2022	3200	3800	630	34	12	4500	900	33
09 Jan 2022	3200	3800	630	34	12	4500	900	33
10 Jan 2022	3200	3800	630	34	12	4500	900	33
11 Jan 2022	1400	3800	60	8	4	2400	200	6
12 Jan 2022	1400	3800	60	8	4	2400	200	6
13 Jan 2022	1400	9900	40	7	3	1800	105	5
14 Jan 2022	1400	9900	40	7	3	1800	105	5
15 Jan 2022	1400	9900	40	7	3	1800	105	5
16 Jan 2022	1400	9900	40	7	3	1800	105	5
17 Jan 2022	1400	9900	40	7	3	1800	105	5
18 Jan 2022	1400	6800	60	8	4	2400	200	6
19 Jan 2022	1400	6800	60	8	4	2400	200	6
20 Jan 2022	6200	11400	40	17	11	4300	105	32
21 Jan 2022	6200	11400	40	17	11	4300	105	32
22 Jan 2022	6200	11400	40	17	11	4300	105	32
23 Jan 2022	6200	11400	40	17	11	4300	105	32
24 Jan 2022	6200	11400	40	17	11	4300	105	32
25 Jan 2022	11000	16000	60	8	2	6200	200	16
26 Jan 2022	11000	16000	60	8	2	6200	200	16
27 Jan 2022	6200	11400	610	5	2	4300	905	10
28 Jan 2022	6200	11400	610	5	2	4300	905	10
29 Jan 2022	6200	11400	610	5	2	4300	905	10
30 Jan 2022	6200	11400	610	5	2	4300	905	10
31 Jan 2022	6200	11400	610	5	2	4300	905	10

* Median calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
January	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2022	182	14	11	6	5	3	120
02 Jan 2022	182	14	11	6	5	3	120
03 Jan 2022	182	14	11	6	5	3	120
04 Jan 2022	149	31	22	5	4	3	139
05 Jan 2022	149	31	22	5	4	3	139
06 Jan 2022	149	31	22	5	4	3	139
07 Jan 2022	142	61	40	6	5	3	354
08 Jan 2022	142	61	40	6	5	3	354
09 Jan 2022	142	61	40	6	5	3	354
10 Jan 2022	168	41	31	10	4	3	397
11 Jan 2022	168	41	31	10	4	3	397
12 Jan 2022	168	41	31	10	4	3	397
13 Jan 2022	168	41	31	10	4	3	397
14 Jan 2022	168	41	31	10	4	3	397
15 Jan 2022	168	41	31	10	4	3	397
16 Jan 2022	175	87	61	14	5	3	383
17 Jan 2022	175	87	61	14	5	3	383
18 Jan 2022	162	97	54	20	10	7	468
19 Jan 2022	162	97	54	20	10	7	468
20 Jan 2022	273	109	55	24	14	9	743
21 Jan 2022	273	109	55	24	14	9	743
22 Jan 2022	273	109	55	24	14	9	743
23 Jan 2022	273	109	55	24	14	9	743
24 Jan 2022	242	129	49	15	10	7	740
25 Jan 2022	242	129	49	15	10	7	740
26 Jan 2022	140	121	47	12	6	6	591
27 Jan 2022	140	121	47	12	6	6	591
28 Jan 2022	140	121	47	12	6	6	591
29 Jan 2022	140	121	47	12	6	6	591
30 Jan 2022	140	121	47	12	6	6	591
31 Jan 2022	102	159	78	21	5	9	502

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Jan 2022	IC	E	E	IC	IC	IC	E
10 Jan 2022	E	IC	IC	IC	IC	IC	E
18 Jan 2022	IC	IC	IC	IC	IC	IC	E
24 Jan 2022	E	E	IC	IC	IC	IC	E
31 Jan 2022	IC	E	E	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2022	40	6	4	4	4	3	21
02 Jan 2022	40	6	4	4	4	3	21
03 Jan 2022	72	7	5	4	5	3	33
04 Jan 2022	70	12	8	4	4	3	41
05 Jan 2022	70	12	8	4	4	3	41
06 Jan 2022	70	12	8	4	4	3	41
07 Jan 2022	70	12	8	4	4	3	41
08 Jan 2022	70	12	8	4	4	3	41
09 Jan 2022	70	12	8	4	4	3	41
10 Jan 2022	76	10	8	5	4	3	56
11 Jan 2022	123	14	9	6	4	3	76
12 Jan 2022	123	14	9	6	4	3	76
13 Jan 2022	123	14	9	6	4	3	76
14 Jan 2022	123	14	9	6	4	3	76
15 Jan 2022	123	14	9	6	4	3	76
16 Jan 2022	123	14	9	6	4	3	76
17 Jan 2022	123	14	9	6	4	3	76
18 Jan 2022	118	18	10	9	6	4	98
19 Jan 2022	105	26	14	11	7	5	143
20 Jan 2022	105	26	14	11	7	5	143
21 Jan 2022	105	26	14	11	7	5	143
22 Jan 2022	105	26	14	11	7	5	143
23 Jan 2022	105	26	14	11	7	5	143
24 Jan 2022	87	28	13	9	6	4	144
25 Jan 2022	87	28	13	9	6	4	144
26 Jan 2022	87	28	13	9	6	4	144
27 Jan 2022	87	28	13	9	6	4	144
28 Jan 2022	94	41	17	11	7	5	178
29 Jan 2022	94	41	17	11	7	5	178
30 Jan 2022	94	41	17	11	7	5	178
31 Jan 2022	76	53	26	15	6	7	166

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
January	E	E	E	IC	IC	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m
01 Jan 2022	650	1580	890	41	351	200	201	501	102	61	146	272	2	3	2	14	15	12	2040	3690	1050
02 Jan 2022	650	1580	890	41	351	200	201	501	102	61	146	272	2	3	2	14	15	12	2040	3690	1050
03 Jan 2022	650	1580	890	41	351	200	201	501	102	61	146	272	2	3	2	14	15	12	2040	3690	1050
04 Jan 2022	500	960	800	80	700	340	400	1000	200	2	12	4	2	2	2	6	8	4	2200	3200	1300
05 Jan 2022	500	960	800	80	700	340	400	1000	200	2	12	4	2	2	2	6	8	4	2200	3200	1300
06 Jan 2022	500	960	800	80	700	340	400	1000	200	2	12	4	2	2	2	6	8	4	2200	3200	1300
07 Jan 2022	500	880	740	840	1550	1070	430	1700	340	61	141	272	2	3	2	12	15	11	3100	5200	1650
08 Jan 2022	500	880	740	840	1550	1070	430	1700	340	61	141	272	2	3	2	12	15	11	3100	5200	1650
09 Jan 2022	500	880	740	840	1550	1070	430	1700	340	61	141	272	2	3	2	12	15	11	3100	5200	1650
10 Jan 2022	200	960	800	80	700	340	400	1000	240	20	200	400	2	4	2	2	20	20	4000	3200	2000
11 Jan 2022	200	960	800	80	700	340	400	1000	240	20	200	400	2	4	2	2	20	20	4000	3200	2000
12 Jan 2022	200	960	800	80	700	340	400	1000	240	20	200	400	2	4	2	2	20	20	4000	3200	2000
13 Jan 2022	200	960	800	80	700	340	400	1000	240	20	200	400	2	4	2	2	20	20	4000	3200	2000
14 Jan 2022	200	960	800	80	700	340	400	1000	240	20	200	400	2	4	2	2	20	20	4000	3200	2000
15 Jan 2022	200	960	800	80	700	340	400	1000	240	20	200	400	2	4	2	2	20	20	4000	3200	2000
16 Jan 2022	200	1700	1700	840	1550	1070	430	1700	360	70	240	470	2	12	11	12	24	31	3500	3000	1650
17 Jan 2022	200	1700	1700	840	1550	1070	430	1700	360	70	240	470	2	12	11	12	24	31	3500	3000	1650
18 Jan 2022	200	800	800	1600	700	400	460	1000	240	120	280	400	2	20	20	22	20	42	4800	2800	1300
19 Jan 2022	200	800	800	1600	700	400	460	1000	240	120	280	400	2	20	20	22	20	42	4800	2800	1300
20 Jan 2022	1400	1700	1700	3400	1310	1100	520	600	220	200	310	330	171	410	60	101	20	31	10400	3000	1400
21 Jan 2022	1400	1700	1700	3400	1310	1100	520	600	220	200	310	330	171	410	60	101	20	31	10400	3000	1400
22 Jan 2022	1400	1700	1700	3400	1310	1100	520	600	220	200	310	330	171	410	60	101	20	31	10400	3000	1400
23 Jan 2022	1400	1700	1700	3400	1310	1100	520	600	220	200	310	330	171	410	60	101	20	31	10400	3000	1400
24 Jan 2022	200	800	800	5200	620	400	640	1000	200	20	200	260	2	20	20	2	20	20	14000	3200	2000
25 Jan 2022	200	800	800	5200	620	400	640	1000	200	20	200	260	2	20	20	2	20	20	14000	3200	2000
26 Jan 2022	200	700	680	5800	420	390	320	650	220	11	101	132	2	11	20	2	11	22	5400	3000	2100
27 Jan 2022	200	700	680	5800	420	390	320	650	220	11	101	132	2	11	20	2	11	22	5400	3000	2100
28 Jan 2022	200	700	680	5800	420	390	320	650	220	11	101	132	2	11	20	2	11	22	5400	3000	2100
29 Jan 2022	200	700	680	5800	420	390	320	650	220	11	101	132	2	11	20	2	11	22	5400	3000	2100
30 Jan 2022	200	700	680	5800	420	390	320	650	220	11	101	132	2	11	20	2	11	22	5400	3000	2100
31 Jan 2022	200	600	560	5200	620	400	1200	1100	240	20	200	260	2	20	20	2	20	42	4800	2800	2000

* Median calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
January	E	E	E	E	E	E	E	E	E	E	E	E	E	E	IC	E	IC	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

February 2022

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2022	450	2900	78	3	2	410	89	14
02 Feb 2022	450	2900	78	3	2	410	89	14
03 Feb 2022	490	4887	194	3	2	412	229	22
04 Feb 2022	490	4887	194	3	2	412	229	22
05 Feb 2022	490	4887	194	3	2	412	229	22
06 Feb 2022	490	4887	194	3	2	412	229	22
07 Feb 2022	490	4887	194	3	2	412	229	22
08 Feb 2022	444	5849	78	3	2	655	89	14
09 Feb 2022	444	5849	78	3	2	655	89	14
10 Feb 2022	542	4887	194	3	2	797	229	22
11 Feb 2022	542	4887	194	3	2	797	229	22
12 Feb 2022	542	4887	194	3	2	797	229	22
13 Feb 2022	542	4887	194	3	2	797	229	22
14 Feb 2022	542	4887	194	3	2	797	229	22
15 Feb 2022	636	1355	78	5	2	767	123	18
16 Feb 2022	636	1355	78	5	2	767	123	18
17 Feb 2022	477	1061	43	4	2	718	69	12
18 Feb 2022	477	1061	43	4	2	718	69	12
19 Feb 2022	477	1061	43	4	2	718	69	12
20 Feb 2022	477	1061	43	4	2	718	69	12
21 Feb 2022	477	1061	43	4	2	718	69	12
22 Feb 2022	909	1723	36	3	2	1261	71	10
23 Feb 2022	909	1723	36	3	2	1261	71	10
24 Feb 2022	477	1061	17	4	2	718	44	14
25 Feb 2022	477	1061	17	4	2	718	44	14
26 Feb 2022	477	1061	17	4	2	718	44	14
27 Feb 2022	477	1061	17	4	2	718	44	14
28 Feb 2022	477	1061	17	4	2	718	44	14

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2022	IC	E	E	IC	IC	IC	E	E
08 Feb 2022	IC	E	IC	IC	IC	E	IC	IC
15 Feb 2022	E	IC	IC	IC	IC	E	IC	IC
22 Feb 2022	E	E	IC	IC	IC	E	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2022	335	1932	43	3	3	453	47	23
02 Feb 2022	335	1932	43	3	3	453	47	23
03 Feb 2022	335	1932	43	3	3	453	47	23
04 Feb 2022	335	1932	43	3	3	453	47	23
05 Feb 2022	335	1932	43	3	3	453	47	23
06 Feb 2022	335	1932	43	3	3	453	47	23
07 Feb 2022	335	1932	43	3	3	453	47	23
08 Feb 2022	215	1932	25	3	3	330	29	14
09 Feb 2022	215	1932	25	3	3	330	29	14
10 Feb 2022	215	1932	25	3	3	330	29	14
11 Feb 2022	215	1932	25	3	3	330	29	14
12 Feb 2022	215	1932	25	3	3	330	29	14
13 Feb 2022	215	1932	25	3	3	330	29	14
14 Feb 2022	215	1932	25	3	3	330	29	14
15 Feb 2022	290	1874	23	3	4	456	40	18
16 Feb 2022	290	1874	23	3	4	456	40	18
17 Feb 2022	290	1874	23	3	4	456	40	18
18 Feb 2022	290	1874	23	3	4	456	40	18
19 Feb 2022	290	1874	23	3	4	456	40	18
20 Feb 2022	290	1874	23	3	4	456	40	18
21 Feb 2022	290	1874	23	3	4	456	40	18
22 Feb 2022	655	1874	25	3	4	957	57	18
23 Feb 2022	655	1874	25	3	4	957	57	18
24 Feb 2022	655	1874	25	3	4	957	57	18
25 Feb 2022	655	1874	25	3	4	957	57	18
26 Feb 2022	655	1874	25	3	4	957	57	18
27 Feb 2022	655	1874	25	3	4	957	57	18
28 Feb 2022	655	1874	25	3	4	957	57	18

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
February	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2022	1400	6800	1200	2	2	2400	1800	16
02 Feb 2022	1400	6800	1200	2	2	2400	1800	16
03 Feb 2022	6200	11400	2700	2	2	4300	5200	368
04 Feb 2022	6200	11400	2700	2	2	4300	5200	368
05 Feb 2022	6200	11400	2700	2	2	4300	5200	368
06 Feb 2022	6200	11400	2700	2	2	4300	5200	368
07 Feb 2022	6200	11400	2700	2	2	4300	5200	368
08 Feb 2022	1400	16000	1200	2	2	6200	1800	20
09 Feb 2022	1400	16000	1200	2	2	6200	1800	20
10 Feb 2022	5870	11400	2700	2	2	9600	5200	370
11 Feb 2022	5870	11400	2700	2	2	9600	5200	370
12 Feb 2022	5870	11400	2700	2	2	9600	5200	370
13 Feb 2022	5870	11400	2700	2	2	9600	5200	370
14 Feb 2022	5870	11400	2700	2	2	9600	5200	370
15 Feb 2022	8800	6800	1200	2	2	6200	1800	40
16 Feb 2022	8800	6800	1200	2	2	6200	1800	40
17 Feb 2022	4770	10900	610	2	2	8100	910	30
18 Feb 2022	4770	10900	610	2	2	8100	910	30
19 Feb 2022	4770	10900	610	2	2	8100	910	30
20 Feb 2022	4770	10900	610	2	2	8100	910	30
21 Feb 2022	4770	10900	610	2	2	8100	910	30
22 Feb 2022	8800	16000	100	2	2	13000	880	40
23 Feb 2022	8800	16000	100	2	2	13000	880	40
24 Feb 2022	4770	10900	60	2	2	8100	450	90
25 Feb 2022	4770	10900	60	2	2	8100	450	90
26 Feb 2022	4770	10900	60	2	2	8100	450	90
27 Feb 2022	4770	10900	60	2	2	8100	450	90
28 Feb 2022	4770	10900	60	2	2	8100	450	90

* Median calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station, per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
February	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2022	102	159	78	21	5	9	502
02 Feb 2022	102	159	78	21	5	9	502
03 Feb 2022	113	111	52	39	6	14	594
04 Feb 2022	113	111	52	39	6	14	594
05 Feb 2022	113	111	52	39	6	14	594
06 Feb 2022	113	111	52	39	6	14	594
07 Feb 2022	92	50	27	21	5	9	490
08 Feb 2022	92	50	27	21	5	9	490
09 Feb 2022	67	77	34	16	6	14	461
10 Feb 2022	67	77	34	16	6	14	461
11 Feb 2022	67	77	34	16	6	14	461
12 Feb 2022	67	77	34	16	6	14	461
13 Feb 2022	67	77	34	16	6	14	461
14 Feb 2022	67	77	34	16	6	14	461
15 Feb 2022	67	77	34	16	6	14	461
16 Feb 2022	67	77	34	16	6	14	461
17 Feb 2022	54	55	61	12	4	10	267
18 Feb 2022	54	55	61	12	4	10	267
19 Feb 2022	54	55	61	12	4	10	267
20 Feb 2022	54	55	61	12	4	10	267
21 Feb 2022	54	55	61	12	4	10	267
22 Feb 2022	54	55	61	12	4	10	267
23 Feb 2022	38*	33*	76*	23*	5*	18*	191*
24 Feb 2022	38*	33*	76*	23*	5*	18*	191*
25 Feb 2022	42	16	31	12	4	10	415
26 Feb 2022	42	16	31	12	4	10	415
27 Feb 2022	42	16	31	12	4	10	415
28 Feb 2022	42	16	31	12	4	10	415

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
07 Feb 2022	IC	IC	IC	IC	IC	IC	IC
17 Feb 2022	IC	IC	E	IC	IC	IC	IC
25 Feb 2022	IC	IC	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2022	85	61	27	17	7	8	232
02 Feb 2022	85	61	27	17	7	8	232
03 Feb 2022	85	61	27	17	7	8	232
04 Feb 2022	85	61	27	17	7	8	232
05 Feb 2022	85	61	27	17	7	8	232
06 Feb 2022	85	61	27	17	7	8	232
07 Feb 2022	46	32	18	10	3	6	173
08 Feb 2022	46	32	18	10	3	6	173
09 Feb 2022	46	32	18	10	3	6	173
10 Feb 2022	46	32	18	10	3	6	173
11 Feb 2022	46	32	18	10	3	6	173
12 Feb 2022	46	32	18	10	3	6	173
13 Feb 2022	46	32	18	10	3	6	173
14 Feb 2022	46	32	18	10	3	6	173
15 Feb 2022	44	24	15	14	4	8	185
16 Feb 2022	44	24	15	14	4	8	185
17 Feb 2022	45	22	18	16	5	10	115
18 Feb 2022	45	22	18	16	5	10	115
19 Feb 2022	45	22	18	16	5	10	115
20 Feb 2022	45	22	18	16	5	10	115
21 Feb 2022	37	30	22	13	6	14	92
22 Feb 2022	37	30	22	13	6	14	92
23 Feb 2022	37	30	22	13	6	14	92
24 Feb 2022	37	30	22	13	6	14	92
25 Feb 2022	31	19	15	10	5	10	168
26 Feb 2022	31	19	15	10	5	10	168
27 Feb 2022	31	19	15	10	5	10	168
28 Feb 2022	31	19	15	10	5	10	168

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
February	IC	IC	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Feb 2022	200	600	560	5200	620	400	1200	1100	240	20	200	260	2	20	20	2	20	42	4800	2800	2000
02 Feb 2022	200	600	560	5200	620	400	1200	1100	240	20	200	260	2	20	20	2	20	42	4800	2800	2000
03 Feb 2022	110	410	380	2980	420	390	920	650	220	250	310	330	2	20	20	131	20	131	9400	1740	1440
04 Feb 2022	110	410	380	2980	420	390	920	650	220	250	310	330	2	20	20	131	20	131	9400	1740	1440
05 Feb 2022	110	410	380	2980	420	390	920	650	220	250	310	330	2	20	20	131	20	131	9400	1740	1440
06 Feb 2022	110	410	380	2980	420	390	920	650	220	250	310	330	2	20	20	131	20	131	9400	1740	1440
07 Feb 2022	20	220	420	760	220	380	640	200	200	200	200	260	2	20	20	2	20	42	4800	2000	680
08 Feb 2022	20	220	420	760	220	380	640	200	200	200	200	260	2	20	20	2	20	42	4800	2000	680
09 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
10 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
11 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
12 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
13 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
14 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
15 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
16 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
17 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	71	7	1600	2700	560
18 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	71	7	1600	2700	560
19 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	71	7	1600	2700	560
20 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	71	7	1600	2700	560
21 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	71	7	1600	2700	560
22 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	71	7	1600	2700	560
23 Feb 2022	20*	220*	420*	400*	380*	180*	2200*	3400*	2200*	16*	380*	540*	2*	20*	20*	260*	140*	12*	1400*	2000*	440*
24 Feb 2022	20*	220*	420*	400*	380*	180*	2200*	3400*	2200*	16*	380*	540*	2*	20*	20*	260*	140*	12*	1400*	2000*	440*
25 Feb 2022	40	310	340	210	193	92	1101	1701	1101	9	191	271	2	11	11	131	71	7	1600	2700	560
26 Feb 2022	40	310	340	210	193	92	1101	1701	1101	9	191	271	2	11	11	131	71	7	1600	2700	560
27 Feb 2022	40	310	340	210	193	92	1101	1701	1101	9	191	271	2	11	11	131	71	7	1600	2700	560
28 Feb 2022	40	310	340	210	193	92	1101	1701	1101	9	191	271	2	11	11	131	71	7	1600	2700	560

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
February	E	E	E	E	E	IC	E	E	E	IC	E	E	IC	E	IC	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2022	834	1723	15	5	2	1163	33	10
02 Mar 2022	834	1723	15	5	2	1163	33	10
03 Mar 2022	2409	1928	5	6	2	4039	11	3
04 Mar 2022	2409	1928	5	6	2	4039	11	3
05 Mar 2022	2409	1928	5	6	2	4039	11	3
06 Mar 2022	2409	1928	5	6	2	4039	11	3
07 Mar 2022	2409	1928	5	6	2	4039	11	3
08 Mar 2022	2611	1141	4	5	2	5022	8	3
09 Mar 2022	2611	1141	4	5	2	5022	8	3
10 Mar 2022	4484	634	5	6	2	5251	11	3
11 Mar 2022	4484	634	5	6	2	5251	11	3
12 Mar 2022	4484	634	5	6	2	5251	11	3
13 Mar 2022	4484	634	5	6	2	5251	11	3
14 Mar 2022	4484	634	5	6	2	5251	11	3
15 Mar 2022	1194	357	7	5	4	1249	10	3
16 Mar 2022	1194	357	7	5	4	1249	10	3
17 Mar 2022	1192	923	9	4	4	1465	10	2
18 Mar 2022	1192	923	9	4	4	1465	10	2
19 Mar 2022	1192	923	9	4	4	1465	10	2
20 Mar 2022	1192	923	9	4	4	1465	10	2
21 Mar 2022	1192	923	9	4	4	1465	10	2
22 Mar 2022	1892	1542	7	3	5	2231	7	2
23 Mar 2022	1892	1542	7	3	5	2231	7	2
24 Mar 2022	1192	923	5	4	7	1465	4	2
25 Mar 2022	1192	923	5	4	7	1465	4	2
26 Mar 2022	1192	923	5	4	7	1465	4	2
27 Mar 2022	1192	923	5	4	7	1465	4	2
28 Mar 2022	1192	923	5	4	7	1465	4	2
29 Mar 2022	1348	1542	13	4	6	1791	12	4
30 Mar 2022	1348	1542	13	4	6	1791	12	4
31 Mar 2022	869	923	15	2	8	1232	12	4

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2022	E	E	IC	IC	IC	E	IC	IC
08 Mar 2022	E	IC	IC	IC	IC	E	IC	IC
15 Mar 2022	IC	IC	IC	IC	IC	IC	IC	IC
22 Mar 2022	E	E	IC	IC	IC	E	IC	IC
29 Mar 2022	E	E	E	IC	IC	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2022	695	3105	11	3	4	1098	26	11
02 Mar 2022	695	3105	11	3	4	1098	26	11
03 Mar 2022	695	3105	11	3	4	1098	26	11
04 Mar 2022	695	3105	11	3	4	1098	26	11
05 Mar 2022	695	3105	11	3	4	1098	26	11
06 Mar 2022	695	3105	11	3	4	1098	26	11
07 Mar 2022	695	3105	11	3	4	1098	26	11
08 Mar 2022	420	818	6	3	4	1098	14	7
09 Mar 2022	420	818	6	3	4	1098	14	7
10 Mar 2022	420	818	6	3	4	1098	14	7
11 Mar 2022	420	818	6	3	4	1098	14	7
12 Mar 2022	420	818	6	3	4	1098	14	7
13 Mar 2022	420	818	6	3	4	1098	14	7
14 Mar 2022	420	818	6	3	4	1098	14	7
15 Mar 2022	361	606	2	2	4	814	7	4
16 Mar 2022	361	606	2	2	4	814	7	4
17 Mar 2022	361	606	2	2	4	814	7	4
18 Mar 2022	361	606	2	2	4	814	7	4
19 Mar 2022	361	606	2	2	4	814	7	4
20 Mar 2022	361	606	2	2	4	814	7	4
21 Mar 2022	361	606	2	2	4	814	7	4
22 Mar 2022	757	606	2	2	3	1117	6	4
23 Mar 2022	757	606	2	2	3	1117	6	4
24 Mar 2022	757	606	2	2	3	1117	6	4
25 Mar 2022	757	606	2	2	3	1117	6	4
26 Mar 2022	757	606	2	2	3	1117	6	4
27 Mar 2022	757	606	2	2	3	1117	6	4
28 Mar 2022	757	606	2	2	3	1117	6	4
29 Mar 2022	837	1398	5	3	4	1555	12	4
30 Mar 2022	837	1398	5	3	4	1555	12	4
31 Mar 2022	837	1398	5	3	4	1555	12	4

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
March	E	E	E	IC	IC	E	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2022	8800	16000	100	2	2	13000	300	40
02 Mar 2022	8800	16000	100	2	2	13000	300	40
03 Mar 2022	12400	16000	60	11	3	14500	160	30
04 Mar 2022	12400	16000	60	11	3	14500	160	30
05 Mar 2022	12400	16000	60	11	3	14500	160	30
06 Mar 2022	12400	16000	60	11	3	14500	160	30
07 Mar 2022	12400	16000	60	11	3	14500	160	30
08 Mar 2022	16000	16000	20	2	2	16000	20	20
09 Mar 2022	16000	16000	20	2	2	16000	20	20
10 Mar 2022	16000	9600	60	11	3	16000	160	21
11 Mar 2022	16000	9600	60	11	3	16000	160	21
12 Mar 2022	16000	9600	60	11	3	16000	160	21
13 Mar 2022	16000	9600	60	11	3	16000	160	21
14 Mar 2022	16000	9600	60	11	3	16000	160	21
15 Mar 2022	16000	3200	60	20	4	16000	20	2
16 Mar 2022	16000	3200	60	20	4	16000	20	2
17 Mar 2022	16000	9600	80	11	11	16000	160	2
18 Mar 2022	16000	9600	80	11	11	16000	160	2
19 Mar 2022	16000	9600	80	11	11	16000	160	2
20 Mar 2022	16000	9600	80	11	11	16000	160	2
21 Mar 2022	16000	9600	80	11	11	16000	160	2
22 Mar 2022	16000	16000	60	20	20	16000	20	2
23 Mar 2022	16000	16000	60	20	20	16000	20	2
24 Mar 2022	16000	9600	40	30	20	16000	20	2
25 Mar 2022	16000	9600	40	30	20	16000	20	2
26 Mar 2022	16000	9600	40	30	20	16000	20	2
27 Mar 2022	16000	9600	40	30	20	16000	20	2
28 Mar 2022	16000	9600	40	30	20	16000	20	2
29 Mar 2022	16000	16000	60	40	20	16000	20	2
30 Mar 2022	16000	16000	60	40	20	16000	20	2
31 Mar 2022	13000	9600	40	30	23	16000	20	2

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
March	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2022	98	23	46	25	4	7	454
02 Mar 2022	133	11	24	14	4	4	521
03 Mar 2022	133	11	24	14	4	4	521
04 Mar 2022	133	11	24	14	4	4	521
05 Mar 2022	133	11	24	14	4	4	521
06 Mar 2022	133	11	24	14	4	4	521
07 Mar 2022	133	11	24	14	4	4	521
08 Mar 2022	163	8	15	10	4	4	350
09 Mar 2022	232	11	24	14	4	4	389
10 Mar 2022	232	11	24	14	4	4	389
11 Mar 2022	232	11	24	14	4	4	389
12 Mar 2022	232	11	24	14	4	4	389
13 Mar 2022	232	11	24	14	4	4	389
14 Mar 2022	232	11	24	14	4	4	389
15 Mar 2022	232	11	24	14	4	4	389
16 Mar 2022	99	8	15	10	4	4	144
17 Mar 2022	99	8	15	10	4	4	144
18 Mar 2022	99	8	15	10	4	4	144
19 Mar 2022	119	5	7	8	2	2	151
20 Mar 2022	119	5	7	8	2	2	151
21 Mar 2022	119	5	7	8	2	2	151
22 Mar 2022	252	4	5	6	2	2	64
23 Mar 2022	252	4	5	6	2	2	64
24 Mar 2022	252	4	5	6	2	2	64
25 Mar 2022	252	4	5	6	2	2	64
26 Mar 2022	252	4	5	6	2	2	64
27 Mar 2022	363	5	7	8	2	2	22
28 Mar 2022	363	5	7	8	2	2	22
29 Mar 2022	363	5	7	8	2	2	22
30 Mar 2022	407	14	19	17	2	5	56
31 Mar 2022	252	9	10	8	2	6	30

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 ml

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2022	E	IC	IC	E	IC	IC	E
08 Mar 2022	E	IC	IC	IC	IC	IC	IC
16 Mar 2022	IC	IC	IC	IC	IC	IC	IC
22 Mar 2022	E	IC	IC	IC	IC	IC	IC
30 Mar 2022	E	E	E	E	IC	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2022	32	13	12	9	3	5	131
02 Mar 2022	32	13	12	9	3	5	131
03 Mar 2022	32	13	12	9	3	5	131
04 Mar 2022	32	13	12	9	3	5	131
05 Mar 2022	32	13	12	9	3	5	131
06 Mar 2022	32	13	12	9	3	5	131
07 Mar 2022	33	10	13	12	3	6	127
08 Mar 2022	29	8	10	9	3	5	77
09 Mar 2022	29	8	10	9	3	5	77
10 Mar 2022	29	8	10	9	3	5	77
11 Mar 2022	29	8	10	9	3	5	77
12 Mar 2022	29	8	10	9	3	5	77
13 Mar 2022	29	8	10	9	3	5	77
14 Mar 2022	32	4	5	6	3	3	73
15 Mar 2022	32	4	5	6	3	3	73
16 Mar 2022	21	4	4	5	3	3	40
17 Mar 2022	21	4	4	5	3	3	40
18 Mar 2022	21	4	4	5	3	3	40
19 Mar 2022	21	4	4	5	3	3	40
20 Mar 2022	21	4	4	5	3	3	40
21 Mar 2022	20	4	5	6	3	3	34
22 Mar 2022	32	4	4	5	3	3	21
23 Mar 2022	32	4	4	5	3	3	21
24 Mar 2022	32	4	4	5	3	3	21
25 Mar 2022	32	4	4	5	3	3	21
26 Mar 2022	32	4	4	5	3	3	21
27 Mar 2022	32	4	4	5	3	3	21
28 Mar 2022	32	4	4	5	3	3	21
29 Mar 2022	32	4	4	5	3	3	21
30 Mar 2022	46	7	9	7	3	5	34
31 Mar 2022	46	6	6	6	2	4	41

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
March	E	E	E	IC	IC	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	119			124			125			126			132			133			140			
	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	
01 Mar 2022	30	400	420	480	300	181	2000	2000	400	10	300	240	2	2	2	2	2	2	1	1800	3400	440
02 Mar 2022	1130	500	460	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
03 Mar 2022	1530	500	460	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
04 Mar 2022	1530	500	460	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
05 Mar 2022	1530	500	460	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
06 Mar 2022	1530	500	460	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
07 Mar 2022	1530	500	460	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
08 Mar 2022	3000	600	500	20	6	4	2	2	2	2	2	2	2	2	2	2	2	2	2	1800	3400	440
09 Mar 2022	3000	2500	3500	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
10 Mar 2022	3000	2500	3500	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
11 Mar 2022	3000	2500	3500	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
12 Mar 2022	3000	2500	3500	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
13 Mar 2022	3000	2500	3500	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
14 Mar 2022	3000	2500	3500	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
15 Mar 2022	3000	2500	3500	210	193	92	1001	1001	211	0	191	271	2	2	2	2	2	2	3	2600	4300	2420
16 Mar 2022	3000	600	500	20	6	4	2	2	2	2	2	2	2	2	2	2	2	2	2	1800	3400	440
17 Mar 2022	3000	600	500	20	6	4	2	2	2	2	2	2	2	2	2	2	2	2	2	1800	3400	440
18 Mar 2022	3000	600	500	20	6	4	2	2	2	2	2	2	2	2	2	2	2	2	2	1800	3400	440
19 Mar 2022	3000	2400	830	11	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2020	2920	2390
20 Mar 2022	3000	2400	830	11	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2020	2920	2390
21 Mar 2022	3000	2400	830	11	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2020	2920	2390
22 Mar 2022	4000	4400	1400	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	640	640	380
23 Mar 2022	4000	4400	1400	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	640	640	380
24 Mar 2022	4000	4400	1400	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	640	640	380
25 Mar 2022	4000	4400	1400	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	640	640	380
26 Mar 2022	4000	4400	1400	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	640	640	380
27 Mar 2022	5200	5200	5200	2	2	3	2	2	2	4	2	2	2	2	2	2	2	2	2	322	326	200
28 Mar 2022	5200	5200	5200	2	2	3	2	2	2	4	2	2	2	2	2	2	2	2	2	322	326	200
29 Mar 2022	5200	5200	5200	2	2	3	2	2	2	4	2	2	2	2	2	2	2	2	2	322	326	200
30 Mar 2022	6400	6000	3900	2	2	4	2	2	2	6	2	2	2	2	2	2	2	2	2	640	640	380
31 Mar 2022	7180	7800	7200	2	2	3	2	2	2	6	2	2	2	2	2	2	2	2	2	322	326	200

* Median calculated using n<5

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	119			124			125			126			132			133			140			
	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	2m	6m	11m	
March	E	E	E	E	E	E	E	E	E	E	E	E	IC	IC	IC	E	E	E	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

April 2022

Not uploaded to CIWQS.

May 2022

Not uploaded to CIWQS.

June 2022

Not uploaded to CIWQS.

July 2022

Not uploaded to CIWQS.

August 2022

Not uploaded to CIWQS.

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September 2022

Not uploaded to CIWQS.

October 2022

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Oct 2022	IC	IC	IC	IC	IC	IC	IC	IC
11 Oct 2022	IC	IC	IC	IC	IC	IC	IC	IC
18 Oct 2022	IC	IC	IC	IC	IC	IC	IC	IC
25 Oct 2022	IC	E	E	IC	IC	IC	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Oct 2022	3	31	9	4	4	3	14	10
02 Oct 2022	3	31	9	4	4	3	14	10
03 Oct 2022	3	31	9	4	4	3	14	10
04 Oct 2022	3	38	9	4	3	3	17	8
05 Oct 2022	3	38	9	4	3	3	17	8
06 Oct 2022	3	38	9	4	3	3	17	8
07 Oct 2022	3	38	9	4	3	3	17	8
08 Oct 2022	3	38	9	4	3	3	17	8
09 Oct 2022	3	38	9	4	3	3	17	8
10 Oct 2022	3	38	9	4	3	3	17	8
11 Oct 2022	3	27	9	3	3	3	19	9
12 Oct 2022	3	27	9	3	3	3	19	9
13 Oct 2022	3	27	9	3	3	3	19	9
14 Oct 2022	3	27	9	3	3	3	19	9
15 Oct 2022	3	27	9	3	3	3	19	9
16 Oct 2022	3	27	9	3	3	3	19	9
17 Oct 2022	3	27	9	3	3	3	19	9
18 Oct 2022	3	27	9	3	3	3	19	9
19 Oct 2022	3	27	9	3	3	3	19	9
20 Oct 2022	3	27	9	3	3	3	19	9
21 Oct 2022	3	27	9	3	3	3	19	9
22 Oct 2022	3	27	9	3	3	3	19	9
23 Oct 2022	3	27	9	3	3	3	19	9
24 Oct 2022	3	27	9	3	3	3	19	9
25 Oct 2022	3	31	9	2	3	2	9	6
26 Oct 2022	3	31	9	2	3	2	9	6
27 Oct 2022	3	31	9	2	3	2	9	6
28 Oct 2022	3	31	9	2	3	2	9	6
29 Oct 2022	3	31	9	2	3	2	9	6
30 Oct 2022	3	31	9	2	3	2	9	6
31 Oct 2022	3	31	9	2	3	2	9	6

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
October	IC	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Oct 2022	80	1460	130	110	200	40	320	570
02 Oct 2022	80	1460	130	110	200	40	320	570
03 Oct 2022	80	1460	130	110	200	40	320	570
04 Oct 2022	40	120	120	20	200	40	40	200
05 Oct 2022	40	120	120	20	200	40	40	200
06 Oct 2022	40	1440	130	20	120	30	320	570
07 Oct 2022	40	1440	130	20	120	30	320	570
08 Oct 2022	40	1440	130	20	120	30	320	570
09 Oct 2022	40	1440	130	20	120	30	320	570
10 Oct 2022	40	1440	130	20	120	30	320	570
11 Oct 2022	40	80	120	20	200	20	40	200
12 Oct 2022	40	80	120	20	200	20	40	200
13 Oct 2022	30	50	70	20	120	20	30	200
14 Oct 2022	30	50	70	20	120	20	30	200
15 Oct 2022	30	50	70	20	120	20	30	200
16 Oct 2022	30	50	70	20	120	20	30	200
17 Oct 2022	30	50	70	20	120	20	30	200
18 Oct 2022	20	60	20	20	40	20	20	200
19 Oct 2022	20	60	20	20	40	20	20	200
20 Oct 2022	30	40	20	20	110	20	20	140
21 Oct 2022	30	40	20	20	110	20	20	140
22 Oct 2022	30	40	20	20	110	20	20	140
23 Oct 2022	30	40	20	20	110	20	20	140
24 Oct 2022	30	40	20	20	110	20	20	140
25 Oct 2022	40	60	20	20	20	20	20	200
26 Oct 2022	40	60	20	20	20	20	20	200
27 Oct 2022	30	40	20	110	20	20	20	140
28 Oct 2022	30	40	20	110	20	20	20	140
29 Oct 2022	30	40	20	110	20	20	20	140
30 Oct 2022	30	40	20	110	20	20	20	140
31 Oct 2022	30	40	20	110	20	20	20	140

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
October	IC	E	E	IC	IC	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
03 Oct 2022	IC	IC	IC	IC	IC	IC	IC
11 Oct 2022	IC	IC	IC	IC	IC	IC	IC
18 Oct 2022	IC	IC	IC	IC	IC	IC	IC
20 Oct 2022	ns	IC	IC	IC	IC	IC	ns
25 Oct 2022	E	E	E	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
October	IC	IC	E	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	119			124			125			126			132			139			140		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Oct 2022	11	11	102	5	60	110	2	11	101	2	2	11	23	47	20	2	6	101	20	102	82
02 Oct 2022	11	11	102	5	60	110	2	11	101	2	2	11	23	47	20	2	6	101	20	102	82
03 Oct 2022	20	20	200	8	100	200	2	20	200	2	2	20	20	24	20	2	2	40	20	120	120
04 Oct 2022	20	20	200	8	100	200	2	20	200	2	2	20	20	24	20	2	2	40	20	120	120
05 Oct 2022	20	20	200	8	100	200	2	20	200	2	2	20	20	24	20	2	2	40	20	120	120
06 Oct 2022	20	20	200	8	100	200	2	20	200	2	2	20	20	24	20	2	2	40	20	120	120
07 Oct 2022	11	11	102	5	60	110	2	11	101	2	2	11	23	45	20	2	2	21	20	103	82
08 Oct 2022	11	11	102	5	60	110	2	11	101	2	2	11	23	45	20	2	2	21	20	103	82
09 Oct 2022	11	11	102	5	60	110	2	11	101	2	2	11	23	45	20	2	2	21	20	103	82
10 Oct 2022	11	11	102	5	60	110	2	11	101	2	2	11	23	45	20	2	2	21	20	103	82
11 Oct 2022	2	2	4	2	20	20	2	4	20	2	2	20	20	20	2	2	2	20	20	86	44
12 Oct 2022	2	2	4	2	20	20	2	4	20	2	2	20	20	20	2	2	2	20	20	86	44
13 Oct 2022	2	2	3	5	51	20	2	3	11	2	2	2	11	11	20	2	2	2	11	44	24
14 Oct 2022	2	2	3	5	51	20	2	3	11	2	2	2	11	11	20	2	2	2	11	44	24
15 Oct 2022	2	2	3	5	51	20	2	3	11	2	2	2	11	11	20	2	2	2	11	44	24
16 Oct 2022	2	2	3	5	51	20	2	3	11	2	2	2	11	11	20	2	2	2	11	44	24
17 Oct 2022	2	2	3	5	51	20	2	3	11	2	2	2	11	11	20	2	2	2	11	44	24
18 Oct 2022	2	2	2	5	51	20	2	3	11	2	2	2	11	11	20	2	2	2	2	2	4
19 Oct 2022	2	2	2	5	51	20	2	3	11	2	2	2	11	11	20	2	2	2	2	2	4
20 Oct 2022	2	2	2	2	11	2	3	11	2	2	2	2	2	20	2	2	2	2	2	2	3
21 Oct 2022	2	2	2	2	11	2	3	11	2	2	2	2	2	20	2	2	2	2	2	2	3
22 Oct 2022	2	2	2	2	11	2	3	11	2	2	2	2	2	20	2	2	2	2	2	2	3
23 Oct 2022	2	2	2	2	11	2	3	11	2	2	2	2	2	20	2	2	2	2	2	2	3
24 Oct 2022	2	2	2	2	11	2	3	11	2	2	2	2	2	20	2	2	2	2	2	2	3
25 Oct 2022	2	2	2	2	20	2	4	20	2	2	2	2	2	20	2	2	2	2	2	2	4
26 Oct 2022	2	2	2	2	20	2	4	20	2	2	2	2	2	20	2	2	2	2	2	2	4
27 Oct 2022	2	2	2	2	20	2	4	20	2	2	2	2	2	20	2	2	2	2	2	2	4
28 Oct 2022	2	2	2	2	20	2	4	20	2	2	2	2	2	20	2	2	2	2	2	2	4
29 Oct 2022	101	101	101	101	101	110	101	102	110	2	15	5	2	11	20	2	2	21	61	131	201
30 Oct 2022	101	101	101	101	101	110	101	102	110	2	15	5	2	11	20	2	2	21	61	131	201
31 Oct 2022	101	101	101	101	101	110	101	102	110	2	15	5	2	11	20	2	2	21	61	131	201

* Median calculated using n<5

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	119			124			125			126			132			139			140		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
October	E	E	E	E	E	E	E	E	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

November 2022

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
08 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
15 Nov 2022	E	E	IC	IC	IC	E	IC	IC
22 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
29 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2022	3	7	5	2	3	2	5	4
02 Nov 2022	3	7	5	2	3	2	5	4
03 Nov 2022	3	7	5	2	3	2	5	4
04 Nov 2022	3	7	5	2	3	2	5	4
05 Nov 2022	3	7	5	2	3	2	5	4
06 Nov 2022	3	7	5	2	3	2	5	4
07 Nov 2022	3	7	5	2	3	2	5	4
08 Nov 2022	6	8	4	3	5	4	5	5
09 Nov 2022	6	8	4	3	5	4	5	5
10 Nov 2022	6	8	4	3	5	4	5	5
11 Nov 2022	6	8	4	3	5	4	5	5
12 Nov 2022	6	8	4	3	5	4	5	5
13 Nov 2022	6	8	4	3	5	4	5	5
14 Nov 2022	6	8	4	3	5	4	5	5
15 Nov 2022	12	15	10	3	5	11	7	5
16 Nov 2022	12	15	10	3	5	11	7	5
17 Nov 2022	12	15	10	3	5	11	7	5
18 Nov 2022	12	15	10	3	5	11	7	5
19 Nov 2022	12	15	10	3	5	11	7	5
20 Nov 2022	12	15	10	3	5	11	7	5
21 Nov 2022	12	15	10	3	5	11	7	5
22 Nov 2022	15	32	16	3	4	15	12	5
23 Nov 2022	15	32	16	3	4	15	12	5
24 Nov 2022	15	32	16	3	4	15	12	5
25 Nov 2022	15	32	16	3	4	15	12	5
26 Nov 2022	15	32	16	3	4	15	12	5
27 Nov 2022	15	32	16	3	4	15	12	5
28 Nov 2022	15	32	16	3	4	15	12	5
29 Nov 2022	22	53	26	3	4	22	19	6
30 Nov 2022	22	53	26	3	4	22	19	6

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
November	E	E	E	IC	IC	E	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2022	20	20	20	20	20	20	20	80
02 Nov 2022	20	20	20	20	20	20	20	80
03 Nov 2022	20	40	20	110	20	20	20	110
04 Nov 2022	20	40	20	110	20	20	20	110
05 Nov 2022	20	40	20	110	20	20	20	110
06 Nov 2022	20	40	20	110	20	20	20	110
07 Nov 2022	20	40	20	110	20	20	20	110
08 Nov 2022	20	20	20	20	20	20	20	200
09 Nov 2022	20	20	20	20	20	20	20	200
10 Nov 2022	110	40	14	20	20	110	20	110
11 Nov 2022	110	40	14	20	20	110	20	110
12 Nov 2022	110	40	14	20	20	110	20	110
13 Nov 2022	110	40	14	20	20	110	20	110
14 Nov 2022	110	40	14	20	20	110	20	110
15 Nov 2022	200	60	20	20	20	200	20	20
16 Nov 2022	200	60	20	20	20	200	20	20
17 Nov 2022	1300	3410	174	11	20	300	70	110
18 Nov 2022	1300	3410	174	11	20	300	70	110
19 Nov 2022	1300	3410	174	11	20	300	70	110
20 Nov 2022	1300	3410	174	11	20	300	70	110
21 Nov 2022	1300	3410	174	11	20	300	70	110
22 Nov 2022	200	1800	120	20	20	200	120	20
23 Nov 2022	200	1800	120	20	20	200	120	20
24 Nov 2022	1219	910	64	11	14	110	70	20
25 Nov 2022	1219	910	64	11	14	110	70	20
26 Nov 2022	1219	910	64	11	14	110	70	20
27 Nov 2022	1219	910	64	11	14	110	70	20
28 Nov 2022	1219	910	64	11	14	110	70	20
29 Nov 2022	200	140	80	2	20	100	120	20
30 Nov 2022	200	140	80	2	20	100	120	20

* Median calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station, per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
November	E	E	E	IC	IC	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Nov 2022	IC	IC	IC	IC	IC	IC	IC
07 Nov 2022	IC	IC	IC	IC	IC	IC	IC
14 Nov 2022	E	E	IC	IC	IC	IC	IC
21 Nov 2022	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Nov 2022	4	3	4	2	2	2	4
02 Nov 2022	4	3	4	2	2	2	4
03 Nov 2022	4	3	4	2	2	2	4
04 Nov 2022	4	3	4	2	2	2	4
05 Nov 2022	4	3	4	2	2	2	4
06 Nov 2022	4	3	4	2	2	2	4
07 Nov 2022	3	3	4	2	2	2	4
08 Nov 2022	3	3	4	2	2	2	4
09 Nov 2022	3	3	4	2	2	2	4
10 Nov 2022	4	3	4	2	2	2	4
11 Nov 2022	4	3	4	2	2	2	4
12 Nov 2022	4	3	4	2	2	2	4
13 Nov 2022	4	3	4	2	2	2	4
14 Nov 2022	8	5	7	2	2	3	6
15 Nov 2022	8	5	7	2	2	3	6
16 Nov 2022	8	5	7	2	2	3	6
17 Nov 2022	8	5	7	2	2	3	6
18 Nov 2022	8	5	7	2	2	3	6
19 Nov 2022	8	5	7	2	2	3	6
20 Nov 2022	8	5	7	2	2	3	6
21 Nov 2022	7	5	7	2	2	3	8
22 Nov 2022	8	6	9	2	2	3	10
23 Nov 2022	8	6	9	2	2	3	10
24 Nov 2022	8	6	9	2	2	3	10
25 Nov 2022	8	6	9	2	2	3	10
26 Nov 2022	8	6	9	2	2	3	10
27 Nov 2022	8	6	9	2	2	3	10
28 Nov 2022	8	6	9	2	2	3	10
29 Nov 2022	11	6	9	2	2	3	13
30 Nov 2022	11	6	9	2	2	3	13

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
November	E	E	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Nov 2022	2	2	2	2	20	20	2	4	20	2	2	2	2	2	20	2	2	2	2	2	4
02 Nov 2022	2	2	2	2	11	20	2	3	11	2	2	2	2	2	20	2	2	2	2	2	3
03 Nov 2022	2	2	2	2	11	20	2	3	11	2	2	2	2	2	20	2	2	2	2	2	3
04 Nov 2022	2	2	2	2	11	20	2	3	11	2	2	2	2	2	20	2	2	2	2	2	3
05 Nov 2022	2	2	2	2	11	20	2	3	11	2	2	2	2	2	20	2	2	2	2	2	3
06 Nov 2022	2	2	2	2	11	20	2	3	11	2	2	2	2	2	20	2	2	2	2	2	3
07 Nov 2022	2	2	2	2	20	20	2	2	2	2	2	2	2	2	20	2	2	2	2	2	2
08 Nov 2022	2	2	2	2	20	20	2	2	2	2	2	2	2	2	20	2	2	2	2	2	2
09 Nov 2022	2	2	2	2	20	20	2	2	2	2	2	2	2	2	20	2	2	2	2	2	2
10 Nov 2022	2	2	4	2	11	11	2	2	2	2	2	2	2	11	2	2	2	2	2	2	3
11 Nov 2022	2	2	4	2	11	11	2	2	2	2	2	2	2	11	2	2	2	2	2	2	3
12 Nov 2022	2	2	4	2	11	11	2	2	2	2	2	2	2	11	2	2	2	2	2	2	3
13 Nov 2022	2	2	2	2	11	11	2	2	2	2	2	2	2	11	2	2	2	2	2	2	3
14 Nov 2022	2	2	6	2	20	20	2	2	2	2	2	2	2	20	2	2	2	2	2	2	4
15 Nov 2022	2	2	6	2	20	20	2	2	2	2	2	2	2	20	2	2	2	2	2	2	4
16 Nov 2022	2	2	6	2	20	20	2	2	2	2	2	2	2	20	2	2	2	2	2	2	4
17 Nov 2022	551	601	303	2	20	20	2	2	2	2	2	2	2	20	2	2	2	2	291	201	352
18 Nov 2022	551	601	303	2	20	20	2	2	2	2	2	2	2	20	2	2	2	2	291	201	352
19 Nov 2022	551	601	303	471	3310	460	201	321	151	2	15	5	2	11	31	2	11	11	291	201	352
20 Nov 2022	551	601	303	471	3310	460	201	321	151	2	15	5	2	11	31	2	11	11	291	201	352
21 Nov 2022	6	32	24	32	56	8	42	48	2	2	6	2	2	6	2	2	4	420	360	240	240
22 Nov 2022	16	8	32	24	32	56	8	42	48	2	2	6	2	2	6	2	2	4	420	360	240
23 Nov 2022	16	8	32	24	32	56	8	42	48	2	2	6	2	2	6	2	2	4	420	360	240
24 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	2	4	2	2	3	211	181	122
25 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	2	4	2	2	3	211	181	122
26 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	2	4	2	2	3	211	181	122
27 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	2	4	2	2	3	211	181	122
28 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	2	4	2	2	3	211	181	122
29 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	2	4	2	2	3	211	181	122
30 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	2	4	2	2	3	211	181	122

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
November	E	E	E	E	E	E	E	E	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

December 2022

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2022	105	64	17	2	9	110	17	8
02 Dec 2022	105	64	17	2	9	110	17	8
03 Dec 2022	105	64	17	2	9	110	17	8
04 Dec 2022	105	64	17	2	9	110	17	8
05 Dec 2022	105	64	17	2	9	110	17	8
06 Dec 2022	47	32	11	2	6	49	11	6
07 Dec 2022	47	32	11	2	6	49	11	6
08 Dec 2022	31	64	14	2	5	43	17	6
09 Dec 2022	31	64	14	2	5	43	17	6
10 Dec 2022	31	64	14	2	5	43	17	6
11 Dec 2022	31	64	14	2	5	43	17	6
12 Dec 2022	31	64	14	2	5	43	17	6
13 Dec 2022	80	182	32	2	4	94	38	16
14 Dec 2022	80	182	32	2	4	94	38	16
15 Dec 2022	42	94	23	2	5	33	34	27
16 Dec 2022	42	94	23	2	5	33	34	27
17 Dec 2022	42	94	23	2	5	33	34	27
18 Dec 2022	42	94	23	2	5	33	34	27
19 Dec 2022	42	94	23	2	5	33	34	27
20 Dec 2022	28	247	40	2	4	19	103	25
21 Dec 2022	28	247	40	2	4	19	103	25
22 Dec 2022	34	275	48	2	3	23	130	29
23 Dec 2022	34	275	48	2	3	23	130	29
24 Dec 2022	34	275	48	2	3	23	130	29
25 Dec 2022	34	275	48	2	3	23	130	29
26 Dec 2022	34	275	48	2	3	23	130	29
27 Dec 2022	69	128	40	3	4	23	57	27
28 Dec 2022	69	128	40	3	4	23	57	27
29 Dec 2022	85	204	57	4	4	20	73	29
30 Dec 2022	85	204	57	4	4	20	73	29
31 Dec 2022	85	204	57	4	4	20	73	29

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
06 Dec 2022	IC	IC	IC	IC	IC	IC	IC	IC
13 Dec 2022	E	E	E	IC	IC	E	E	E
20 Dec 2022	IC	E	IC	IC	IC	IC	E	IC
27 Dec 2022	E	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2022	22	53	26	3	4	22	19	6
02 Dec 2022	22	53	26	3	4	22	19	6
03 Dec 2022	22	53	26	3	4	22	19	6
04 Dec 2022	22	53	26	3	4	22	19	6
05 Dec 2022	22	53	26	3	4	22	19	6
06 Dec 2022	18	26	13	3	4	22	12	5
07 Dec 2022	18	26	13	3	4	22	12	5
08 Dec 2022	18	26	13	3	4	22	12	5
09 Dec 2022	18	26	13	3	4	22	12	5
10 Dec 2022	18	26	13	3	4	22	12	5
11 Dec 2022	18	26	13	3	4	22	12	5
12 Dec 2022	18	26	13	3	4	22	12	5
13 Dec 2022	61	110	37	3	4	73	36	12
14 Dec 2022	61	110	37	3	4	73	36	12
15 Dec 2022	61	110	37	3	4	73	36	12
16 Dec 2022	61	110	37	3	4	73	36	12
17 Dec 2022	61	110	37	3	4	73	36	12
18 Dec 2022	61	110	37	3	4	73	36	12
19 Dec 2022	61	110	37	3	4	73	36	12
20 Dec 2022	39	338	70	2	3	54	123	12
21 Dec 2022	39	338	70	2	3	54	123	12
22 Dec 2022	39	338	70	2	3	54	123	12
23 Dec 2022	39	338	70	2	3	54	123	12
24 Dec 2022	39	338	70	2	3	54	123	12
25 Dec 2022	39	338	70	2	3	54	123	12
26 Dec 2022	39	338	70	2	3	54	123	12
27 Dec 2022	42	246	36	2	3	30	98	17
28 Dec 2022	42	246	36	2	3	30	98	17
29 Dec 2022	42	246	36	2	3	30	98	17
30 Dec 2022	42	246	36	2	3	30	98	17
31 Dec 2022	42	246	36	2	3	30	98	17

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
December	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2022	1300	970	100	11	14	150	130	20
02 Dec 2022	1300	970	100	11	14	150	130	20
03 Dec 2022	1300	970	100	11	14	150	130	20
04 Dec 2022	1300	970	100	11	14	150	130	20
05 Dec 2022	1300	970	100	11	14	150	130	20
06 Dec 2022	200	140	80	6	8	100	120	20
07 Dec 2022	200	140	80	6	8	100	120	20
08 Dec 2022	119	970	100	4	6	60	130	20
09 Dec 2022	119	970	100	4	6	60	130	20
10 Dec 2022	119	970	100	4	6	60	130	20
11 Dec 2022	119	970	100	4	6	60	130	20
12 Dec 2022	119	970	100	4	6	60	130	20
13 Dec 2022	200	1800	120	2	4	100	140	20
14 Dec 2022	200	1800	120	2	4	100	140	20
15 Dec 2022	119	970	100	4	6	60	310	20
16 Dec 2022	119	970	100	4	6	60	310	20
17 Dec 2022	119	970	100	4	6	60	310	20
18 Dec 2022	119	970	100	4	6	60	310	20
19 Dec 2022	119	970	100	4	6	60	310	20
20 Dec 2022	38	1800	120	6	4	100	480	20
21 Dec 2022	38	1800	120	6	4	100	480	20
22 Dec 2022	117	8070	2040	4	3	160	7570	210
23 Dec 2022	117	8070	2040	4	3	160	7570	210
24 Dec 2022	117	8070	2040	4	3	160	7570	210
25 Dec 2022	117	8070	2040	4	3	160	7570	210
26 Dec 2022	117	8070	2040	4	3	160	7570	210
27 Dec 2022	200	140	80	6	4	100	140	40
28 Dec 2022	200	140	80	6	4	100	140	40
29 Dec 2022	1917	8010	2010	13	3	120	7506	220
30 Dec 2022	1917	8010	2010	13	3	120	7506	220
31 Dec 2022	1917	8010	2010	13	3	120	7506	220

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
December	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days (unless otherwise noted (*)) Values >200 CFU/100 ml exceed the standard

Date	I19	I24	I25	I26	I32	I39	I40
01 Dec 2022	14	12	8	3	3	3	15
02 Dec 2022	14	12	8	3	3	3	15
03 Dec 2022	14	12	8	3	3	3	15
04 Dec 2022	14	12	8	3	3	3	15
05 Dec 2022	10	9	6	2	2	3	10
06 Dec 2022	10	9	6	2	2	3	10
07 Dec 2022	14	12	8	3	3	3	14
08 Dec 2022	14	12	8	3	3	3	14
09 Dec 2022	14	12	8	3	3	3	14
10 Dec 2022	14	12	8	3	3	3	14
11 Dec 2022	14	12	8	3	3	3	14
12 Dec 2022	14	12	8	3	3	3	14
13 Dec 2022	27	36	19	11	7	9	36
14 Dec 2022	13	17	12	13	7	8	23
15 Dec 2022	13	17	12	13	7	8	23
16 Dec 2022	13	17	12	13	7	8	23
17 Dec 2022	13	17	12	13	7	8	23
18 Dec 2022	13	17	12	13	7	8	23
19 Dec 2022	13	17	12	13	7	8	23
20 Dec 2022	13	17	12	13	7	8	23
21 Dec 2022	17	25	19	13	7	12	29
22 Dec 2022	17	25	19	13	7	12	29
23 Dec 2022	17	25	19	13	7	12	29
24 Dec 2022	17	25	19	13	7	12	29
25 Dec 2022	17	25	19	13	7	12	29
26 Dec 2022	17	25	19	13	7	12	29
27 Dec 2022	54	23	16	10	6	8	25
28 Dec 2022	54	23	16	10	6	8	25
29 Dec 2022	54	23	16	10	6	8	25
30 Dec 2022	54	23	16	10	6	8	25
31 Dec 2022	78	42	27	15	7	12	47

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Dec 2022	IC	IC	IC	IC	IC	IC	IC
05 Dec 2022	IC	IC	IC	IC	IC	IC	IC
13 Dec 2022	E	E	E	E	E	E	E
21 Dec 2022	IC	IC	IC	IC	IC	IC	IC
27 Dec 2022	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Dec 2022	9	6	9	2	4	3	11
02 Dec 2022	9	6	9	2	4	3	11
03 Dec 2022	9	6	9	2	4	3	11
04 Dec 2022	9	6	9	2	4	3	11
05 Dec 2022	8	5	7	2	4	3	10
06 Dec 2022	6	5	5	2	4	2	8
07 Dec 2022	6	5	5	2	4	2	8
08 Dec 2022	6	5	5	2	4	2	8
09 Dec 2022	6	5	5	2	4	2	8
10 Dec 2022	6	5	5	2	4	2	8
11 Dec 2022	6	5	5	2	4	2	8
12 Dec 2022	6	5	5	2	4	2	8
13 Dec 2022	14	17	12	8	9	6	27
14 Dec 2022	14	17	12	8	9	6	27
15 Dec 2022	14	17	12	8	9	6	27
16 Dec 2022	14	17	12	8	9	6	27
17 Dec 2022	14	17	12	8	9	6	27
18 Dec 2022	14	17	12	8	9	6	27
19 Dec 2022	21	25	18	10	13	7	45
20 Dec 2022	21	25	18	10	13	7	45
21 Dec 2022	17	24	16	8	9	6	45
22 Dec 2022	17	24	16	8	9	6	45
23 Dec 2022	17	24	16	8	9	6	45
24 Dec 2022	17	24	16	8	9	6	45
25 Dec 2022	17	24	16	8	9	6	45
26 Dec 2022	9	18	13	10	11	6	35
27 Dec 2022	24	20	14	10	10	5	30
28 Dec 2022	24	20	14	10	10	5	30
29 Dec 2022	24	20	14	10	10	5	30
30 Dec 2022	24	20	14	10	10	5	30
31 Dec 2022	24	20	14	10	10	5	30

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
December	E	E	E	E	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	119			124			125			126			132			139			140		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
31 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
02 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
03 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
04 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
05 Dec 2022	16	8	32	2	2	2	2	2	2	2	2	6	2	2	2	2	2	2	20	6	20
06 Dec 2022	16	8	32	2	2	2	2	2	2	2	2	6	2	2	2	2	2	2	20	6	20
07 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
08 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
09 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
10 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
11 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
12 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
13 Dec 2022	36	20	60	24	32	56	8	42	48	2	2	20	2	4	6	2	2	4	420	360	240
14 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
15 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
16 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
17 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
18 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
19 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
20 Dec 2022	26	14	46	13	17	29	5	22	25	2	2	13	2	3	4	2	2	3	220	183	130
21 Dec 2022	30	17	61	56	301	401	161	111	181	2	2	13	2	3	5	11	2	11	910	1503	510
22 Dec 2022	30	17	61	56	301	401	161	111	181	2	2	13	2	3	5	11	2	11	910	1503	510
23 Dec 2022	30	17	61	56	301	401	161	111	181	2	2	13	2	3	5	11	2	11	910	1503	510
24 Dec 2022	30	17	61	56	301	401	161	111	181	2	2	13	2	3	5	11	2	11	910	1503	510
25 Dec 2022	30	17	61	56	301	401	161	111	181	2	2	13	2	3	5	11	2	11	910	1503	510
26 Dec 2022	30	17	61	56	301	401	161	111	181	2	2	13	2	3	5	11	2	11	910	1503	510
27 Dec 2022	36	20	62	2	32	200	2	10	40	2	2	20	2	2	8	2	2	4	46	240	240
28 Dec 2022	36	20	62	2	32	200	2	10	40	2	2	20	2	2	8	2	2	4	46	240	240
29 Dec 2022	36	20	62	2	32	200	2	10	40	2	2	20	2	2	8	2	2	4	46	240	240
30 Dec 2022	36	20	62	2	32	200	2	10	40	2	2	20	2	2	8	2	2	4	46	240	240
31 Dec 2022	762	1767	831	56	316	500	161	115	200	11	11	23	2	2	11	11	2	12	923	1620	620

* Median calculated using n<5

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	119			124			125			126			132			139			140		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
December	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	IC	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

January 2021

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2021	15	24	13	24	42	42	13	11
02 Jan 2021	15	24	13	24	42	42	13	11
03 Jan 2021	15	24	13	24	42	42	13	11
04 Jan 2021	15	24	13	24	42	42	13	11
05 Jan 2021	59	87	10	14	23	137	14	8
06 Jan 2021	59	87	10	14	23	137	14	8
07 Jan 2021	356	333	15	24	24	522	24	11
08 Jan 2021	672	635	15	24	24	924	24	11
09 Jan 2021	672	635	15	24	24	924	24	11
10 Jan 2021	1026	1007	15	24	24	1389	24	11
11 Jan 2021	1026	1007	15	24	24	1389	24	11
12 Jan 2021	872	1423	13	17	23	1228	23	9
13 Jan 2021	872	1423	13	17	23	1228	23	9
14 Jan 2021	1495	2314	8	9	13	2212	13	4
15 Jan 2021	1495	2314	8	9	13	2212	13	4
16 Jan 2021	1495	2314	8	9	13	2212	13	4
17 Jan 2021	1495	2314	8	9	13	2212	13	4
18 Jan 2021	1495	2314	8	9	13	2212	13	4
19 Jan 2021	872	1763	10	7	9	1228	13	6
20 Jan 2021	872	1763	10	7	9	1228	13	6
21 Jan 2021	2077	3086	15	5	8	2212	20	8
22 Jan 2021	2077	3086	15	5	8	2212	20	8
23 Jan 2021	2077	3086	15	5	8	2212	20	8
24 Jan 2021	2077	3086	15	5	8	2212	20	8
25 Jan 2021	2077	3086	15	5	8	2212	20	8
26 Jan 2021	1508	3705	25	7	9	2437	32	9
27 Jan 2021	1508	3705	25	7	9	2437	32	9
28 Jan 2021	1737	6512	19	4	6	3889	30	8
29 Jan 2021	1737	6512	19	4	6	3889	30	8
30 Jan 2021	1737	6342	19	4	6	4408	30	8
31 Jan 2021	1737	6342	19	4	6	4408	30	8

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2021	4	3	5	2	7	4	3	3
02 Jan 2021	4	3	5	2	7	4	3	3
03 Jan 2021	4	3	5	2	7	4	3	3
04 Jan 2021	4	3	5	2	7	4	3	3
05 Jan 2021	22	17	4	3	6	20	3	2
06 Jan 2021	22	17	4	3	6	20	3	2
07 Jan 2021	116	86	5	3	4	112	3	3
08 Jan 2021	237	195	5	3	4	243	3	3
09 Jan 2021	237	195	5	3	4	243	3	3
10 Jan 2021	364	352	5	3	4	388	3	3
11 Jan 2021	364	352	5	3	4	388	3	3
12 Jan 2021	256	521	6	4	4	306	3	2
13 Jan 2021	256	521	6	4	4	306	3	2
14 Jan 2021	513	769	5	5	3	628	2	2
15 Jan 2021	513	769	5	5	3	628	2	2
16 Jan 2021	513	769	5	5	3	628	2	2
17 Jan 2021	513	769	5	5	3	628	2	2
18 Jan 2021	513	769	5	5	3	628	2	2
19 Jan 2021	314	620	4	4	3	306	2	2
20 Jan 2021	314	620	4	4	3	306	2	2
21 Jan 2021	646	1269	5	4	3	628	2	2
22 Jan 2021	646	1269	5	4	3	628	2	2
23 Jan 2021	646	1269	5	4	3	628	2	2
24 Jan 2021	646	1269	5	4	3	628	2	2
25 Jan 2021	646	1269	5	4	3	628	2	2
26 Jan 2021	440	1629	6	4	4	624	2	2
27 Jan 2021	440	1629	6	4	4	624	2	2
28 Jan 2021	600	2966	5	4	3	1136	2	2
29 Jan 2021	600	2966	5	4	3	1136	2	2
30 Jan 2021	600	2644	5	4	3	1306	2	2
31 Jan 2021	600	2644	5	4	3	1306	2	2

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2021	5	18	8	5	12	6	10	5
02 Jan 2021	5	18	8	5	12	6	10	5
03 Jan 2021	5	18	8	5	12	6	10	5
04 Jan 2021	5	18	8	5	12	6	10	5
05 Jan 2021	20	45	6	4	8	29	8	4
06 Jan 2021	20	45	6	4	8	29	8	4
07 Jan 2021	85	258	8	5	8	114	10	5
08 Jan 2021	136	489	8	5	8	247	10	5
09 Jan 2021	136	489	8	5	8	247	10	5
10 Jan 2021	183	773	8	5	8	333	10	5
11 Jan 2021	183	773	8	5	8	333	10	5
12 Jan 2021	137	870	9	5	10	237	9	4
13 Jan 2021	137	870	9	5	10	237	9	4
14 Jan 2021	251	935	5	3	7	425	5	3
15 Jan 2021	251	935	5	3	7	425	5	3
16 Jan 2021	251	935	5	3	7	425	5	3
17 Jan 2021	251	935	5	3	7	425	5	3
18 Jan 2021	251	935	5	3	7	425	5	3
19 Jan 2021	157	647	4	3	5	259	4	3
20 Jan 2021	157	647	4	3	5	259	4	3
21 Jan 2021	294	817	5	3	7	518	5	3
22 Jan 2021	294	817	5	3	7	518	5	3
23 Jan 2021	294	817	5	3	7	518	5	3
24 Jan 2021	294	817	5	3	7	518	5	3
25 Jan 2021	294	817	5	3	7	518	5	3
26 Jan 2021	240	1101	6	4	10	499	8	3
27 Jan 2021	240	1101	6	4	10	499	8	3
28 Jan 2021	285	1422	5	4	8	834	7	2
29 Jan 2021	285	1422	5	4	8	834	7	2
30 Jan 2021	285	1358	5	4	8	937	7	2
31 Jan 2021	285	1358	5	4	8	937	7	2

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Jan 2021	E	E	IC	IC	IC	E	IC	IC
07 Jan 2021	E	E	ns	ns	ns	E	ns	ns
08 Jan 2021	E	E	ns	ns	ns	E	ns	ns
10 Jan 2021	E	E	ns	ns	ns	E	ns	ns
12 Jan 2021	IC	E	IC	IC	IC	IC	IC	IC
14 Jan 2021	ns	IC	ns	ns	ns	ns	ns	ns
19 Jan 2021	IC	IC	IC	IC	IC	IC	IC	IC
26 Jan 2021	IC	E	IC	IC	IC	IC	IC	IC
28 Jan 2021	ns	IC	ns	ns	ns	E	ns	ns
30 Jan 2021	ns	IC	ns	ns	ns	E	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Jan 2021	E	E	IC	IC	IC	E	IC	IC
07 Jan 2021	E	E	ns	ns	ns	E	ns	ns
08 Jan 2021	E	E	ns	ns	ns	E	ns	ns
10 Jan 2021	E	E	ns	ns	ns	E	ns	ns
12 Jan 2021	IC	E	IC	IC	IC	IC	IC	IC
14 Jan 2021	ns	IC	ns	ns	ns	ns	ns	ns
19 Jan 2021	IC	IC	IC	IC	IC	IC	IC	IC
26 Jan 2021	IC	E	IC	IC	IC	E	IC	IC
28 Jan 2021	ns	E	ns	ns	ns	E	ns	ns
30 Jan 2021	ns	E	ns	ns	ns	E	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Jan 2021	E	E	IC	IC	IC	E	IC	IC
07 Jan 2021	E	E	ns	ns	ns	E	ns	ns
08 Jan 2021	E	E	ns	ns	ns	E	ns	ns
10 Jan 2021	E	E	ns	ns	ns	E	ns	ns
12 Jan 2021	IC	E	IC	IC	IC	IC	IC	IC
14 Jan 2021	ns	IC	ns	ns	ns	ns	ns	ns
19 Jan 2021	IC	IC	IC	IC	IC	IC	IC	IC
26 Jan 2021	IC	E	IC	IC	IC	E	IC	IC
28 Jan 2021	ns	E	ns	ns	ns	E	ns	ns
30 Jan 2021	ns	E	ns	ns	ns	E	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Jan 2021	E	E	IC	IC	IC	E	IC	IC
07 Jan 2021	E	E	ns	ns	ns	E	ns	ns
08 Jan 2021	E	E	ns	ns	ns	E	ns	ns
10 Jan 2021	E	E	ns	ns	ns	E	ns	ns
12 Jan 2021	IC	E	IC	IC	IC	IC	IC	IC
14 Jan 2021	ns	IC	ns	ns	ns	ns	ns	ns
19 Jan 2021	IC	IC	IC	IC	IC	IC	IC	IC
26 Jan 2021	IC	E	IC	IC	IC	E	IC	IC
28 Jan 2021	ns	IC	ns	ns	ns	E	ns	ns
30 Jan 2021	ns	E	ns	ns	ns	E	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2021	5	7	6	6	3	9	7
02 Jan 2021	5	7	6	6	3	9	7
03 Jan 2021	5	7	6	6	3	9	7
04 Jan 2021	5	7	6	6	3	9	7
05 Jan 2021	21	6	6	7	4	8	14
06 Jan 2021	37	7	8	6	5	8	23
07 Jan 2021	37	7	8	6	5	8	23
08 Jan 2021	37	7	8	6	5	8	23
09 Jan 2021	37	7	8	6	5	8	23
10 Jan 2021	37	7	8	6	5	8	23
11 Jan 2021	37	7	8	6	5	8	23
12 Jan 2021	37	7	8	6	5	8	23
13 Jan 2021	104	13	11	6	4	11	35
14 Jan 2021	172	8	11	7	5	15	29
15 Jan 2021	172	8	11	7	5	15	29
16 Jan 2021	172	8	11	7	5	15	29
17 Jan 2021	172	8	11	7	5	15	29
18 Jan 2021	172	8	11	7	5	15	29
19 Jan 2021	121	9	13	9	6	22	30
20 Jan 2021	298	13	21	13	7	40	59
21 Jan 2021	298	13	21	13	7	40	59
22 Jan 2021	298	13	21	13	7	40	59
23 Jan 2021	298	13	21	13	7	40	59
24 Jan 2021	298	13	21	13	7	40	59
25 Jan 2021	298	13	21	13	7	40	59
26 Jan 2021	1193*	14*	18*	8*	7*	28*	107*
27 Jan 2021	1936	53	55	34	15	42	281
28 Jan 2021	1936	53	55	34	15	42	281
29 Jan 2021	1936	53	55	34	15	42	281
30 Jan 2021	1936	53	55	34	15	42	281
31 Jan 2021	1936	53	55	34	15	42	281

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2021	2	2	2	2	2	4	2
02 Jan 2021	2	2	2	2	2	4	2
03 Jan 2021	2	2	2	2	2	4	2
04 Jan 2021	2	2	2	2	2	4	2
05 Jan 2021	9	2	2	2	2	3	4
06 Jan 2021	13	2	2	2	2	4	5
07 Jan 2021	13	2	2	2	2	4	5
08 Jan 2021	13	2	2	2	2	4	5
09 Jan 2021	13	2	2	2	2	4	5
10 Jan 2021	13	2	2	2	2	4	5
11 Jan 2021	13	2	2	2	2	4	5
12 Jan 2021	13	2	2	2	2	4	5
13 Jan 2021	38	3	3	2	2	5	10
14 Jan 2021	79	3	4	2	2	6	15
15 Jan 2021	79	3	4	2	2	6	15
16 Jan 2021	79	3	4	2	2	6	15
17 Jan 2021	79	3	4	2	2	6	15
18 Jan 2021	79	3	4	2	2	6	15
19 Jan 2021	43	3	3	2	2	6	11
20 Jan 2021	93	4	4	2	2	7	17
21 Jan 2021	93	4	4	2	2	7	17
22 Jan 2021	93	4	4	2	2	7	17
23 Jan 2021	93	4	4	2	2	7	17
24 Jan 2021	93	4	4	2	2	7	17
25 Jan 2021	93	4	4	2	2	7	17
26 Jan 2021	336*	4*	3*	2*	2*	4*	34*
27 Jan 2021	403	12	10	9	3	6	67
28 Jan 2021	403	12	10	9	3	6	67
29 Jan 2021	403	12	10	9	3	6	67
30 Jan 2021	403	12	10	9	3	6	67
31 Jan 2021	403	12	10	9	3	6	67

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2021	2	2	2	2	2	3	2
02 Jan 2021	2	2	2	2	2	3	2
03 Jan 2021	2	2	2	2	2	3	2
04 Jan 2021	2	2	2	2	2	3	2
05 Jan 2021	7	2	2	2	2	3	3
06 Jan 2021	9	2	2	2	2	3	3
07 Jan 2021	9	2	2	2	2	3	3
08 Jan 2021	9	2	2	2	2	3	3
09 Jan 2021	9	2	2	2	2	3	3
10 Jan 2021	9	2	2	2	2	3	3
11 Jan 2021	9	2	2	2	2	3	3
12 Jan 2021	9	2	2	2	2	3	3
13 Jan 2021	20	2	2	2	2	3	5
14 Jan 2021	36	2	2	2	2	4	7
15 Jan 2021	36	2	2	2	2	4	7
16 Jan 2021	36	2	2	2	2	4	7
17 Jan 2021	36	2	2	2	2	4	7
18 Jan 2021	36	2	2	2	2	4	7
19 Jan 2021	24	2	2	2	2	4	5
20 Jan 2021	46	2	2	2	2	4	7
21 Jan 2021	46	2	2	2	2	4	7
22 Jan 2021	46	2	2	2	2	4	7
23 Jan 2021	46	2	2	2	2	4	7
24 Jan 2021	46	2	2	2	2	4	7
25 Jan 2021	46	2	2	2	2	4	7
26 Jan 2021	130*	2*	2*	2*	2*	3*	10*
27 Jan 2021	170	6	6	7	3	3	22
28 Jan 2021	170	6	6	7	3	3	22
29 Jan 2021	170	6	6	7	3	3	22
30 Jan 2021	170	6	6	7	3	3	22
31 Jan 2021	170	6	6	7	3	3	22

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Jan 2021	E	IC	IC	IC	IC	IC	IC
13 Jan 2021	IC	IC	IC	IC	IC	IC	IC
19 Jan 2021	IC	IC	IC	IC	IC	IC	IC
27 Jan 2021	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Jan 2021	E	IC	IC	IC	IC	IC	IC
13 Jan 2021	E	IC	IC	IC	IC	IC	IC
19 Jan 2021	IC	IC	IC	IC	IC	IC	IC
27 Jan 2021	E	E	E	E	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Jan 2021	E	IC	IC	IC	IC	IC	IC
13 Jan 2021	E	IC	IC	IC	IC	IC	IC
19 Jan 2021	IC	IC	IC	IC	IC	IC	IC
27 Jan 2021	E	E	E	E	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
05 Jan 2021	E	IC	IC	IC	IC	IC	IC
13 Jan 2021	E	IC	IC	IC	IC	IC	IC
19 Jan 2021	IC	IC	IC	IC	IC	IC	IC
27 Jan 2021	IC	E	E	E	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

February 2021

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	1737	6898	19	4	6	5014	30	8
02 Feb 2021	2293	5765	22	4	9	5572	38	9
03 Feb 2021	2293	5765	22	4	9	5572	38	9
04 Feb 2021	2293	5254	34	4	13	5572	45	13
05 Feb 2021	2293	5254	34	4	13	5572	45	13
06 Feb 2021	2134	4700	34	4	13	5428	45	13
07 Feb 2021	1600	4102	34	4	13	4872	45	13
08 Feb 2021	1910	4102	34	4	13	5363	45	13
09 Feb 2021	1011	4102	78	17	14	5363	80	29
10 Feb 2021	1011	4102	78	17	14	5363	80	29
11 Feb 2021	1214	3430	239	23	13	7323	112	47
12 Feb 2021	1214	3430	239	23	13	7323	112	47
13 Feb 2021	1214	3381	375	23	13	7278	112	47
14 Feb 2021	1214	3381	375	23	13	7278	112	47
15 Feb 2021	1214	3381	375	23	13	7732	112	47
16 Feb 2021	1676	3924	510	23	14	8145	265	25
17 Feb 2021	1676	3924	510	23	14	8145	265	25
18 Feb 2021	3865	6082	510	37	24	13129	350	26
19 Feb 2021	3865	6082	510	37	24	13129	350	26
20 Feb 2021	4526	6641	510	37	24	13303	350	26
21 Feb 2021	4526	6641	510	37	24	13303	350	26
22 Feb 2021	4671	7146	510	37	24	13458	350	26
23 Feb 2021	5224	7603	340	23	23	12567	217	39
24 Feb 2021	5224	7603	340	23	23	12567	217	39
25 Feb 2021	5794	7208	367	23	24	10008	221	47
26 Feb 2021	5794	7208	367	23	24	10008	221	47
27 Feb 2021	5794	5521	367	23	24	9718	221	47
28 Feb 2021	5794	5521	367	23	24	9718	221	47

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	600	3010	5	4	3	1631	2	2
02 Feb 2021	873	2160	5	5	3	1955	3	2
03 Feb 2021	873	2160	5	5	3	1955	3	2
04 Feb 2021	873	1848	6	5	3	1955	3	2
05 Feb 2021	873	1848	6	5	3	1955	3	2
06 Feb 2021	705	1533	6	5	3	1701	3	2
07 Feb 2021	495	1219	6	5	3	1399	3	2
08 Feb 2021	513	1219	6	5	3	1481	3	2
09 Feb 2021	243	1219	15	12	3	1467	7	6
10 Feb 2021	243	1219	15	12	3	1467	7	6
11 Feb 2021	342	931	31	7	3	1984	10	7
12 Feb 2021	342	931	31	7	3	1984	10	7
13 Feb 2021	342	850	45	7	3	2176	10	7
14 Feb 2021	342	850	45	7	3	2176	10	7
15 Feb 2021	342	850	45	7	3	2446	10	7
16 Feb 2021	534	1015	67	7	3	2741	27	6
17 Feb 2021	534	1015	67	7	3	2741	27	6
18 Feb 2021	1294	1623	74	8	3	5102	43	7
19 Feb 2021	1294	1623	74	8	3	5102	43	7
20 Feb 2021	1658	1947	74	8	3	5401	43	7
21 Feb 2021	1658	1947	74	8	3	5401	43	7
22 Feb 2021	1771	2265	74	8	3	5677	43	7
23 Feb 2021	1966	2575	51	7	3	5028	32	6
24 Feb 2021	1966	2575	51	7	3	5028	32	6
25 Feb 2021	2106	2408	62	10	2	4216	56	9
26 Feb 2021	2106	2408	62	10	2	4216	56	9
27 Feb 2021	2106	2065	62	10	2	4257	56	9
28 Feb 2021	2106	2065	62	10	2	4257	56	9

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	285	1511	5	4	8	1167	7	2
02 Feb 2021	409	1167	6	4	6	1443	8	3
03 Feb 2021	409	1167	6	4	6	1443	8	3
04 Feb 2021	450	1122	8	4	8	1420	9	3
05 Feb 2021	450	1122	8	4	8	1420	9	3
06 Feb 2021	363	885	8	4	8	1096	9	3
07 Feb 2021	299	663	8	4	8	863	9	3
08 Feb 2021	291	663	8	4	8	824	9	3
09 Feb 2021	174	663	14	11	6	774	14	6
10 Feb 2021	174	663	14	11	6	774	14	6
11 Feb 2021	241	524	15	8	4	987	17	8
12 Feb 2021	241	524	15	8	4	987	17	8
13 Feb 2021	241	501	15	8	4	974	17	8
14 Feb 2021	241	501	15	8	4	974	17	8
15 Feb 2021	241	501	15	8	4	1067	17	8
16 Feb 2021	383	546	22	7	4	1154	30	6
17 Feb 2021	383	546	22	7	4	1154	30	6
18 Feb 2021	868	982	27	10	4	1754	40	8
19 Feb 2021	868	982	27	10	4	1754	40	8
20 Feb 2021	929	1233	27	10	4	1781	40	8
21 Feb 2021	929	1233	27	10	4	1781	40	8
22 Feb 2021	992	1491	27	10	4	2006	40	8
23 Feb 2021	993	1750	18	7	4	1849	29	6
24 Feb 2021	993	1750	18	7	4	1849	29	6
25 Feb 2021	1184	1499	21	7	2	1728	27	6
26 Feb 2021	1184	1499	21	7	2	1728	27	6
27 Feb 2021	1072	1559	21	7	2	1500	27	6
28 Feb 2021	1072	1559	21	7	2	1500	27	6

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	ns	E	ns	ns	ns	E	ns	ns
02 Feb 2021	E	IC	IC	IC	IC	E	IC	IC
04 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
06 Feb 2021	IC	ns	ns	ns	ns	E	ns	ns
08 Feb 2021	IC	ns	ns	ns	ns	E	ns	ns
09 Feb 2021	IC	E	IC	IC	IC	E	IC	IC
11 Feb 2021	ns	IC	IC	IC	ns	E	ns	ns
13 Feb 2021	ns	IC	IC	ns	ns	IC	ns	ns
15 Feb 2021	ns	ns	ns	ns	ns	E	ns	ns
16 Feb 2021	E	E	IC	IC	IC	E	IC	IC
18 Feb 2021	E	E	IC	ns	ns	E	IC	ns
20 Feb 2021	E	E	ns	ns	ns	E	ns	ns
22 Feb 2021	IC	E	ns	ns	ns	E	ns	ns
23 Feb 2021	E	E	IC	IC	IC	IC	IC	IC
25 Feb 2021	IC	IC	ns	ns	ns	IC	ns	ns
27 Feb 2021	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	ns	E	ns	ns	ns	E	ns	ns
02 Feb 2021	E	IC	IC	IC	IC	E	IC	IC
04 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
06 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
08 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
09 Feb 2021	IC	E	E	E	IC	E	IC	IC
11 Feb 2021	ns	E	IC	IC	ns	E	ns	ns
13 Feb 2021	ns	IC	IC	ns	ns	E	ns	ns
15 Feb 2021	ns	ns	ns	ns	ns	E	ns	ns
16 Feb 2021	E	E	E	IC	IC	E	E	IC
18 Feb 2021	E	E	IC	ns	ns	E	IC	ns
20 Feb 2021	E	E	ns	ns	ns	E	ns	ns
22 Feb 2021	E	E	ns	ns	ns	E	ns	ns
23 Feb 2021	E	E	IC	IC	IC	E	IC	IC
25 Feb 2021	IC	E	ns	ns	ns	IC	ns	ns
27 Feb 2021	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	ns	E	ns	ns	ns	E	ns	ns
02 Feb 2021	E	IC	IC	IC	IC	E	IC	IC
04 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
06 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
08 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
09 Feb 2021	IC	E	E	E	IC	E	IC	IC
11 Feb 2021	ns	E	IC	IC	ns	E	ns	ns
13 Feb 2021	ns	IC	ns	ns	ns	E	ns	ns
15 Feb 2021	ns	ns	ns	ns	ns	E	ns	ns
16 Feb 2021	E	E	E	IC	IC	E	E	IC
18 Feb 2021	E	E	IC	ns	ns	E	IC	ns
20 Feb 2021	E	E	ns	ns	ns	E	ns	ns
22 Feb 2021	E	E	ns	ns	ns	E	ns	ns
23 Feb 2021	E	E	IC	IC	IC	E	IC	IC
25 Feb 2021	E	E	ns	ns	ns	E	ns	ns
27 Feb 2021	E	E	ns	ns	ns	IC	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	ns	E	ns	ns	ns	E	ns	ns
02 Feb 2021	E	IC	IC	IC	IC	E	IC	IC
04 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
06 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
08 Feb 2021	IC	ns	ns	ns	ns	E	ns	ns
09 Feb 2021	IC	E	E	E	IC	E	IC	IC
11 Feb 2021	ns	E	E	IC	ns	IC	ns	ns
13 Feb 2021	ns	IC	IC	ns	ns	E	ns	ns
15 Feb 2021	ns	ns	ns	ns	ns	E	ns	ns
16 Feb 2021	E	E	E	IC	IC	E	E	IC
18 Feb 2021	E	E	IC	ns	ns	E	IC	ns
20 Feb 2021	E	E	ns	ns	ns	E	ns	ns
22 Feb 2021	E	E	ns	ns	ns	E	ns	ns
23 Feb 2021	E	E	IC	IC	IC	E	IC	IC
25 Feb 2021	IC	E	ns	ns	ns	IC	ns	ns
27 Feb 2021	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	2359	117	123	74	20	71	537
02 Feb 2021	2359	117	123	74	20	71	537
03 Feb 2021	2359	117	123	74	20	71	537
04 Feb 2021	1721	324	238	130	22	132	706
05 Feb 2021	1721	324	238	130	22	132	706
06 Feb 2021	1721	324	238	130	22	132	706
07 Feb 2021	1721	324	238	130	22	132	706
08 Feb 2021	1017	459	396	174	21	233	1225
09 Feb 2021	1017	459	396	174	21	233	1225
10 Feb 2021	1017	459	396	174	21	233	1225
11 Feb 2021	1017	459	396	174	21	233	1225
12 Feb 2021	632	646	767	467	39	362	1923
13 Feb 2021	632	646	767	467	39	362	1923
14 Feb 2021	632	646	767	467	39	362	1923
15 Feb 2021	632	646	767	467	39	362	1923
16 Feb 2021	632	646	767	467	39	362	1923
17 Feb 2021	632	646	767	467	39	362	1923
18 Feb 2021	2592	418	587	262	25	149	2497
19 Feb 2021	2592	418	587	262	25	149	2497
20 Feb 2021	2592	418	587	262	25	149	2497
21 Feb 2021	2592	418	587	262	25	149	2497
22 Feb 2021	1753	228	283	140	15	70	951
23 Feb 2021	1753	228	283	140	15	70	951
24 Feb 2021	1753	228	283	140	15	70	951
25 Feb 2021	1753	228	283	140	15	70	951
26 Feb 2021	1189	119	184	67	8	58	626
27 Feb 2021	1189	119	184	67	8	58	626
28 Feb 2021	1189	119	184	67	8	58	626

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	458	19	19	15	3	10	109
02 Feb 2021	458	19	19	15	3	10	109
03 Feb 2021	458	19	19	15	3	10	109
04 Feb 2021	271	33	34	26	3	14	115
05 Feb 2021	271	33	34	26	3	14	115
06 Feb 2021	271	33	34	26	3	14	115
07 Feb 2021	271	33	34	26	3	14	115
08 Feb 2021	160	60	56	36	4	27	244
09 Feb 2021	160	60	56	36	4	27	244
10 Feb 2021	160	60	56	36	4	27	244
11 Feb 2021	160	60	56	36	4	27	244
12 Feb 2021	80	94	86	75	5	33	271
13 Feb 2021	80	94	86	75	5	33	271
14 Feb 2021	80	94	86	75	5	33	271
15 Feb 2021	80	94	86	75	5	33	271
16 Feb 2021	80	94	86	75	5	33	271
17 Feb 2021	80	94	86	75	5	33	271
18 Feb 2021	376	83	86	75	5	28	437
19 Feb 2021	376	83	86	75	5	28	437
20 Feb 2021	376	83	86	75	5	28	437
21 Feb 2021	376	83	86	75	5	28	437
22 Feb 2021	319	58	48	42	4	19	149
23 Feb 2021	319	58	48	42	4	19	149
24 Feb 2021	319	58	48	42	4	19	149
25 Feb 2021	319	58	48	42	4	19	149
26 Feb 2021	263	38	33	21	3	20	108
27 Feb 2021	263	38	33	21	3	20	108
28 Feb 2021	263	38	33	21	3	20	108

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	162	13	11	10	4	5	40
02 Feb 2021	162	13	11	10	4	5	40
03 Feb 2021	162	13	11	10	4	5	40
04 Feb 2021	102	20	17	15	5	7	48
05 Feb 2021	102	20	17	15	5	7	48
06 Feb 2021	102	20	17	15	5	7	48
07 Feb 2021	102	20	17	15	5	7	48
08 Feb 2021	85	32	27	19	4	12	119
09 Feb 2021	85	32	27	19	4	12	119
10 Feb 2021	85	32	27	19	4	12	119
11 Feb 2021	85	32	27	19	4	12	119
12 Feb 2021	58	61	51	34	5	17	172
13 Feb 2021	58	61	51	34	5	17	172
14 Feb 2021	58	61	51	34	5	17	172
15 Feb 2021	58	61	51	34	5	17	172
16 Feb 2021	58	61	51	34	5	17	172
17 Feb 2021	58	61	51	34	5	17	172
18 Feb 2021	173	65	51	32	5	14	289
19 Feb 2021	173	65	51	32	5	14	289
20 Feb 2021	173	65	51	32	5	14	289
21 Feb 2021	173	65	51	32	5	14	289
22 Feb 2021	154	44	27	18	4	9	130
23 Feb 2021	154	44	27	18	4	9	130
24 Feb 2021	154	44	27	18	4	9	130
25 Feb 2021	154	44	27	18	4	9	130
26 Feb 2021	123	32	18	10	3	13	112
27 Feb 2021	123	32	18	10	3	13	112
28 Feb 2021	123	32	18	10	3	13	112

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	IC	IC	IC	IC	IC	IC	E
08 Feb 2021	IC	IC	IC	IC	IC	IC	E
18 Feb 2021	E	IC	IC	IC	IC	IC	IC
22 Feb 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	E	IC	IC	IC	IC	IC	E
08 Feb 2021	IC	E	E	E	IC	E	E
18 Feb 2021	E	IC	IC	IC	IC	IC	IC
22 Feb 2021	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	E	E	E	IC	IC	IC	E
08 Feb 2021	IC	E	E	E	IC	E	E
18 Feb 2021	E	IC	IC	IC	IC	IC	IC
22 Feb 2021	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	E	IC	E	E	IC	E	E
08 Feb 2021	IC	E	E	E	IC	E	E
18 Feb 2021	E	IC	IC	IC	IC	IC	IC
22 Feb 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

March 2021

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2021	5794	5567	367	23	24	9583	221	47
02 Mar 2021	2982	4690	255	15	36	5642	148	39
03 Mar 2021	2982	4235	255	15	36	5264	148	39
04 Mar 2021	2560	4927	332	23	36	4862	160	47
05 Mar 2021	2560	4927	332	23	36	4862	160	47
06 Mar 2021	2131	4927	332	23	36	4436	160	47
07 Mar 2021	2131	4927	332	23	36	4436	160	47
08 Mar 2021	1816	4927	332	23	36	4083	160	47
09 Mar 2021	2025	5435	234	20	20	4256	180	39
10 Mar 2021	1776	5435	234	20	20	3854	180	39
11 Mar 2021	2616	5435	170	7	20	3386	133	20
12 Mar 2021	2616	5435	170	7	20	3386	133	20
13 Mar 2021	2616	6215	111	5	20	2899	133	20
14 Mar 2021	2616	6215	111	5	20	2899	133	20
15 Mar 2021	2616	7930	55	5	20	2637	133	20
16 Mar 2021	3199	8370	36	7	20	3093	97	13
17 Mar 2021	3199	8370	36	7	20	2577	97	13
18 Mar 2021	3199	8412	14	5	20	2577	40	20
19 Mar 2021	3199	8412	14	5	20	2577	40	20
20 Mar 2021	3199	8412	13	5	20	2577	40	20
21 Mar 2021	3199	8412	13	5	20	2577	40	20
22 Mar 2021	3199	8412	13	5	20	2577	40	20
23 Mar 2021	3383	8807	14	7	26	3093	55	13
24 Mar 2021	3163	8412	14	7	26	2577	55	13
25 Mar 2021	2372	8412	13	9	28	1792	71	6
26 Mar 2021	2372	8412	13	9	28	1792	71	6
27 Mar 2021	3219	8269	13	9	28	2571	71	6
28 Mar 2021	3219	8269	13	9	28	2571	71	6
29 Mar 2021	3559	11465	13	9	28	2571	71	6
30 Mar 2021	3378	11741	49	11	26	2845	210	23
31 Mar 2021	3378	11741	49	11	26	2845	210	23

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2021	2106	2205	62	10	2	4275	56	9
02 Mar 2021	1179	1802	40	7	2	2648	41	6
03 Mar 2021	1179	1550	40	7	2	2394	41	6
04 Mar 2021	955	2097	53	8	2	2133	56	7
05 Mar 2021	955	2097	53	8	2	2133	56	7
06 Mar 2021	741	2097	53	8	2	1868	56	7
07 Mar 2021	741	2097	53	8	2	1868	56	7
08 Mar 2021	681	2097	53	8	2	1817	56	7
09 Mar 2021	652	2425	43	7	2	1574	57	7
10 Mar 2021	651	2425	43	7	2	1509	57	7
11 Mar 2021	1248	2425	30	3	2	1335	40	3
12 Mar 2021	1248	2425	30	3	2	1335	40	3
13 Mar 2021	979	3065	20	4	2	1311	40	3
14 Mar 2021	979	3065	20	4	2	1311	40	3
15 Mar 2021	979	4654	12	4	2	1108	40	3
16 Mar 2021	1090	4634	9	3	2	1107	24	3
17 Mar 2021	1090	4634	9	3	2	867	24	3
18 Mar 2021	1090	4957	4	3	2	867	11	3
19 Mar 2021	1090	4957	4	3	2	867	11	3
20 Mar 2021	1090	4957	4	3	2	867	9	3
21 Mar 2021	1090	4957	4	3	2	867	9	3
22 Mar 2021	986	4957	4	3	2	867	9	3
23 Mar 2021	1003	5280	5	3	4	1127	11	3
24 Mar 2021	902	4957	5	3	4	867	11	3
25 Mar 2021	653	4957	5	3	3	609	12	3
26 Mar 2021	653	4957	5	3	3	609	12	3
27 Mar 2021	914	4766	5	3	3	887	12	3
28 Mar 2021	914	4766	5	3	3	887	12	3
29 Mar 2021	991	6791	5	3	3	887	12	3
30 Mar 2021	946	6918	19	3	3	1008	45	7
31 Mar 2021	946	6918	19	3	3	1008	45	7

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2021	661	1143	21	7	2	1457	27	6
02 Mar 2021	437	843	17	6	2	989	18	5
03 Mar 2021	437	742	17	6	2	865	18	5
04 Mar 2021	361	906	17	7	2	726	19	5
05 Mar 2021	361	906	17	7	2	726	19	5
06 Mar 2021	270	906	17	7	2	605	19	5
07 Mar 2021	270	906	17	7	2	605	19	5
08 Mar 2021	255	906	17	7	2	599	19	5
09 Mar 2021	228	1105	17	6	2	534	21	6
10 Mar 2021	227	1105	17	6	2	535	21	6
11 Mar 2021	292	1105	12	2	2	647	17	3
12 Mar 2021	292	1105	12	2	2	647	17	3
13 Mar 2021	292	1242	11	2	2	695	17	3
14 Mar 2021	292	1242	11	2	2	695	17	3
15 Mar 2021	292	1888	11	2	2	852	17	3
16 Mar 2021	325	2155	11	2	2	821	14	3
17 Mar 2021	325	2155	11	2	2	739	14	3
18 Mar 2021	284	2540	6	2	2	803	7	3
19 Mar 2021	284	2540	6	2	2	803	7	3
20 Mar 2021	305	2540	6	2	2	898	7	3
21 Mar 2021	305	2540	6	2	2	898	7	3
22 Mar 2021	317	2540	6	2	2	1023	7	3
23 Mar 2021	330	2817	7	2	3	1220	9	3
24 Mar 2021	283	2540	7	2	3	1023	9	3
25 Mar 2021	215	2540	10	2	4	869	10	3
26 Mar 2021	215	2540	10	2	4	869	10	3
27 Mar 2021	202	2374	10	2	4	1025	10	3
28 Mar 2021	202	2374	10	2	4	1025	10	3
29 Mar 2021	190	2960	10	2	4	1267	10	3
30 Mar 2021	205	3183	24	3	3	1353	35	7
31 Mar 2021	342	4646	24	3	3	1353	35	7

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Mar 2021	IC	IC	IC	IC	IC	IC	IC	IC
09 Mar 2021	IC	E	IC	IC	IC	IC	IC	IC
11 Mar 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Mar 2021	ns	E	ns	ns	ns	ns	ns	ns
15 Mar 2021	ns	E	ns	ns	ns	ns	ns	ns
16 Mar 2021	E	E	IC	IC	IC	E	IC	IC
18 Mar 2021	E	E	ns	ns	ns	E	ns	ns
20 Mar 2021	E	E	ns	ns	ns	E	ns	ns
22 Mar 2021	E	E	ns	ns	ns	E	ns	ns
23 Mar 2021	IC	E	IC	IC	IC	E	IC	IC
25 Mar 2021	IC	E	ns	ns	ns	IC	ns	ns
27 Mar 2021	IC	IC	ns	ns	ns	ns	ns	ns
29 Mar 2021	IC	E	ns	ns	ns	ns	ns	ns
30 Mar 2021	IC	E	IC	IC	IC	IC	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Mar 2021	IC	IC	IC	IC	IC	IC	IC	IC
09 Mar 2021	E	E	IC	IC	IC	IC	IC	IC
11 Mar 2021	E	E	ns	ns	ns	ns	ns	ns
13 Mar 2021	IC	E	ns	ns	ns	ns	ns	ns
15 Mar 2021	ns	E	ns	ns	ns	ns	ns	ns
16 Mar 2021	E	E	IC	IC	IC	E	IC	IC
18 Mar 2021	E	E	ns	ns	ns	E	ns	ns
20 Mar 2021	E	E	ns	ns	ns	E	ns	ns
22 Mar 2021	E	E	ns	ns	ns	E	ns	ns
23 Mar 2021	E	E	IC	IC	IC	E	IC	IC
25 Mar 2021	IC	E	ns	ns	ns	IC	ns	ns
27 Mar 2021	E	E	ns	ns	ns	ns	ns	ns
29 Mar 2021	E	E	ns	ns	ns	ns	ns	ns
30 Mar 2021	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2021	IC	IC	ns	ns	ns	ns	ns	ns
02 Mar 2021	IC	IC	IC	IC	IC	IC	IC	IC
09 Mar 2021	IC	E	IC	IC	IC	E	IC	IC
11 Mar 2021	ns	E	ns	ns	ns	E	ns	ns
13 Mar 2021	ns	E	ns	ns	ns	E	ns	ns
15 Mar 2021	ns	E	ns	ns	ns	E	ns	ns
16 Mar 2021	E	E	IC	IC	IC	E	IC	IC
18 Mar 2021	E	E	ns	ns	ns	E	ns	ns
20 Mar 2021	E	E	ns	ns	ns	E	ns	ns
22 Mar 2021	E	E	ns	ns	ns	E	ns	ns
23 Mar 2021	E	E	IC	IC	IC	E	IC	IC
25 Mar 2021	IC	E	ns	ns	ns	IC	ns	ns
27 Mar 2021	ns	E	ns	ns	ns	ns	ns	ns
29 Mar 2021	ns	E	ns	ns	ns	ns	ns	ns
30 Mar 2021	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Mar 2021	IC	IC	IC	IC	IC	IC	IC	IC
09 Mar 2021	IC	E	IC	IC	IC	IC	IC	IC
11 Mar 2021	ND	E	ns	ns	ns	ns	ns	ns
13 Mar 2021	ND	E	ns	ns	ns	ns	ns	ns
15 Mar 2021	ns	E	ns	ns	ns	ns	ns	ns
16 Mar 2021	E	E	IC	IC	IC	IC	IC	IC
18 Mar 2021	E	E	ns	ns	ns	E	ns	ns
20 Mar 2021	E	E	ns	ns	ns	E	ns	ns
22 Mar 2021	E	E	ns	ns	ns	E	ns	ns
23 Mar 2021	E	E	IC	IC	IC	E	IC	IC
25 Mar 2021	E	E	ns	ns	ns	IC	ns	ns
27 Mar 2021	E	E	ns	ns	ns	ns	ns	ns
29 Mar 2021	E	E	ns	ns	ns	ns	ns	ns
30 Mar 2021	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2021	1189	119	184	67	8	58	626
02 Mar 2021	489	80	135	33	7	30	198
03 Mar 2021	271	33	62	13	4	14	81
04 Mar 2021	271	33	62	13	4	14	81
05 Mar 2021	271	33	62	13	4	14	81
06 Mar 2021	271	33	62	13	4	14	81
07 Mar 2021	271	33	62	13	4	14	81
08 Mar 2021	258	59	53	9	16	10	187
09 Mar 2021	258	59	53	9	16	10	187
10 Mar 2021	309	25	19	3	15	2	67
11 Mar 2021	309	25	19	3	15	2	67
12 Mar 2021	309	25	19	3	15	2	67
13 Mar 2021	309	25	19	3	15	2	67
14 Mar 2021	309	25	19	3	15	2	67
15 Mar 2021	309	25	19	3	15	2	67
16 Mar 2021	309	25	19	3	15	2	67
17 Mar 2021	309	25	19	3	15	2	67
18 Mar 2021	493	73	18	4	10	3	135
19 Mar 2021	493	73	18	4	10	3	135
20 Mar 2021	242	179	23	5	15	3	147
21 Mar 2021	242	179	23	5	15	3	147
22 Mar 2021	242	179	23	5	15	3	147
23 Mar 2021	242	179	23	5	15	3	147
24 Mar 2021	195	101	14	3	15	3	123
25 Mar 2021	195	101	14	3	15	3	123
26 Mar 2021	195	101	14	3	15	3	123
27 Mar 2021	195	101	14	3	15	3	123
28 Mar 2021	195	101	14	3	15	3	123
29 Mar 2021	195	101	14	3	15	3	123
30 Mar 2021	195	101	14	3	15	3	123
31 Mar 2021	195	101	14	3	15	3	123

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2021	263	38	33	21	3	20	108
02 Mar 2021	105	21	27	13	3	13	49
03 Mar 2021	64	14	15	7	3	9	25
04 Mar 2021	64	14	15	7	3	9	25
05 Mar 2021	64	14	15	7	3	9	25
06 Mar 2021	64	14	15	7	3	9	25
07 Mar 2021	64	14	15	7	3	9	25
08 Mar 2021	61	27	12	5	8	6	52
09 Mar 2021	61	27	12	5	8	6	52
10 Mar 2021	80	12	5	2	8	2	17
11 Mar 2021	80	12	5	2	8	2	17
12 Mar 2021	80	12	5	2	8	2	17
13 Mar 2021	80	12	5	2	8	2	17
14 Mar 2021	80	12	5	2	8	2	17
15 Mar 2021	80	12	5	2	8	2	17
16 Mar 2021	80	12	5	2	8	2	17
17 Mar 2021	80	12	5	2	8	2	17
18 Mar 2021	133	37	4	2	6	2	29
19 Mar 2021	133	37	4	2	6	2	29
20 Mar 2021	68	76	5	2	8	2	32
21 Mar 2021	68	76	5	2	8	2	32
22 Mar 2021	68	76	5	2	8	2	32
23 Mar 2021	68	76	5	2	8	2	32
24 Mar 2021	50	46	4	2	8	2	35
25 Mar 2021	50	46	4	2	8	2	35
26 Mar 2021	50	46	4	2	8	2	35
27 Mar 2021	50	46	4	2	8	2	35
28 Mar 2021	50	46	4	2	8	2	35
29 Mar 2021	50	46	4	2	8	2	35
30 Mar 2021	50	46	4	2	8	2	35
31 Mar 2021	50	46	4	2	8	2	35

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2021	123	32	18	10	3	13	112
02 Mar 2021	54	22	15	7	3	9	50
03 Mar 2021	43	13	8	5	2	6	29
04 Mar 2021	43	13	8	5	2	6	29
05 Mar 2021	43	13	8	5	2	6	29
06 Mar 2021	43	13	8	5	2	6	29
07 Mar 2021	43	13	8	5	2	6	29
08 Mar 2021	33	13	6	4	3	5	35
09 Mar 2021	33	13	6	4	3	5	35
10 Mar 2021	31	6	3	2	3	2	10
11 Mar 2021	31	6	3	2	3	2	10
12 Mar 2021	31	6	3	2	3	2	10
13 Mar 2021	31	6	3	2	3	2	10
14 Mar 2021	31	6	3	2	3	2	10
15 Mar 2021	31	6	3	2	3	2	10
16 Mar 2021	31	6	3	2	3	2	10
17 Mar 2021	31	6	3	2	3	2	10
18 Mar 2021	38	11	3	2	3	2	10
19 Mar 2021	38	11	3	2	3	2	10
20 Mar 2021	21	16	3	2	3	2	9
21 Mar 2021	21	16	3	2	3	2	9
22 Mar 2021	21	16	3	2	3	2	9
23 Mar 2021	21	16	3	2	3	2	9
24 Mar 2021	15	11	3	2	3	2	10
25 Mar 2021	15	11	3	2	3	2	10
26 Mar 2021	15	11	3	2	3	2	10
27 Mar 2021	15	11	3	2	3	2	10
28 Mar 2021	15	11	3	2	3	2	10
29 Mar 2021	15	11	3	2	3	2	10
30 Mar 2021	15	11	3	2	3	2	10
31 Mar 2021	15	11	3	2	3	2	10

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Mar 2021	IC	IC	IC	IC	IC	IC	IC
08 Mar 2021	IC	IC	IC	IC	IC	IC	E
18 Mar 2021	IC	E	IC	IC	IC	IC	IC
24 Mar 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Mar 2021	IC	IC	IC	IC	IC	IC	IC
08 Mar 2021	IC	E	IC	IC	E	IC	E
18 Mar 2021	E	E	IC	IC	IC	IC	E
24 Mar 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Mar 2021	IC	IC	IC	IC	IC	IC	IC
08 Mar 2021	IC	IC	IC	IC	IC	IC	E
18 Mar 2021	E	E	IC	IC	IC	IC	IC
24 Mar 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
02 Mar 2021	IC	IC	IC	IC	IC	IC	IC
08 Mar 2021	IC	E	IC	IC	E	IC	E
18 Mar 2021	E	E	IC	IC	IC	IC	E
24 Mar 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

April 2021

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	6482	14844	188	17	16	6975	800	48
02 Apr 2021	4579	14918	394	17	16	4142	1318	48
03 Apr 2021	4579	14918	394	17	16	4142	1318	48
04 Apr 2021	4579	14984	670	17	16	4142	1883	48
05 Apr 2021	4579	14984	670	17	16	4142	1883	48
06 Apr 2021	4454	15042	432	11	26	4526	1383	41
07 Apr 2021	4454	15042	432	11	26	4526	1383	41
08 Apr 2021	2896	15042	670	11	50	2657	1705	48
09 Apr 2021	2896	15042	670	11	50	2657	1705	48
10 Apr 2021	2896	13978	670	11	50	2657	1705	48
11 Apr 2021	2896	13978	670	11	50	2657	1705	48
12 Apr 2021	2896	13978	670	11	50	2657	1705	48
13 Apr 2021	2539	14084	528	13	66	2792	1595	41
14 Apr 2021	2539	13978	528	13	66	2792	1595	41
15 Apr 2021	2204	13978	1060	11	89	1580	2982	75
16 Apr 2021	2204	13978	1060	11	89	1580	2982	75
17 Apr 2021	1868	13978	1060	11	89	1280	2982	75
18 Apr 2021	1868	13978	1060	11	89	1280	2982	75
19 Apr 2021	1537	13978	1060	11	89	994	2982	75
20 Apr 2021	883	11040	484	8	105	697	1196	60
21 Apr 2021	679	10802	484	8	105	509	1196	60
22 Apr 2021	550	10540	763	6	112	347	1545	119
23 Apr 2021	550	10540	763	6	112	347	1545	119
24 Apr 2021	504	10251	763	6	112	383	1545	119
25 Apr 2021	504	10251	763	6	112	383	1545	119
26 Apr 2021	358	10602	763	6	112	383	1545	119
27 Apr 2021	260	7308	484	8	80	276	897	89
28 Apr 2021	167	6977	484	8	80	276	897	89
29 Apr 2021	117	6545	318	6	112	186	594	42
30 Apr 2021	117	6545	318	6	112	186	594	42

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	1474	9417	107	4	3	2052	195	18
02 Apr 2021	1057	9571	234	4	3	1325	387	18
03 Apr 2021	1057	9571	234	4	3	1325	387	18
04 Apr 2021	1057	9707	349	4	3	1325	632	18
05 Apr 2021	1057	9707	349	4	3	1325	632	18
06 Apr 2021	1043	9829	183	3	3	1478	432	13
07 Apr 2021	1043	9829	183	3	3	1478	432	13
08 Apr 2021	842	9829	277	3	3	1110	575	15
09 Apr 2021	842	9829	277	3	3	1110	575	15
10 Apr 2021	751	8540	277	3	3	1110	575	15
11 Apr 2021	751	8540	277	3	3	1110	575	15
12 Apr 2021	871	8540	277	3	3	1110	575	15
13 Apr 2021	727	8703	229	3	3	1219	530	10
14 Apr 2021	727	8540	229	3	3	1219	530	10
15 Apr 2021	649	9059	451	3	3	720	1176	15
16 Apr 2021	649	9059	451	3	3	720	1176	15
17 Apr 2021	509	9059	451	3	3	558	1176	15
18 Apr 2021	509	9059	451	3	3	558	1176	15
19 Apr 2021	382	8714	451	3	3	410	1176	15
20 Apr 2021	246	6141	229	3	5	279	530	10
21 Apr 2021	191	5903	229	3	5	192	530	10
22 Apr 2021	159	5647	329	3	4	121	846	15
23 Apr 2021	159	5647	329	3	4	121	846	15
24 Apr 2021	159	5371	329	3	4	144	846	15
25 Apr 2021	159	5371	329	3	4	144	846	15
26 Apr 2021	112	5599	329	3	4	144	846	15
27 Apr 2021	72	3454	174	3	3	90	397	10
28 Apr 2021	46	3321	174	3	3	90	397	10
29 Apr 2021	33	3081	115	2	4	58	251	5
30 Apr 2021	33	3081	115	2	4	58	251	5

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	605	7454	118	3	4	2151	198	14
02 Apr 2021	382	7695	255	3	4	1423	392	14
03 Apr 2021	382	7695	255	3	4	1423	392	14
04 Apr 2021	382	7911	395	3	4	1423	640	14
05 Apr 2021	382	7911	395	3	4	1423	640	14
06 Apr 2021	348	8107	204	3	3	1355	380	10
07 Apr 2021	348	8107	204	3	3	1355	380	10
08 Apr 2021	320	8107	288	3	4	1222	525	10
09 Apr 2021	320	8107	288	3	4	1222	525	10
10 Apr 2021	320	6574	288	3	4	1025	525	10
11 Apr 2021	320	6574	288	3	4	1025	525	10
12 Apr 2021	320	7566	288	3	4	1046	525	10
13 Apr 2021	260	7763	263	3	3	1145	501	9
14 Apr 2021	260	7566	263	3	3	942	501	9
15 Apr 2021	231	7566	563	3	4	749	1219	11
16 Apr 2021	231	7566	563	3	4	749	1219	11
17 Apr 2021	184	7566	301	3	4	595	598	11
18 Apr 2021	184	7566	301	3	4	595	598	11
19 Apr 2021	119	7566	301	3	4	441	598	11
20 Apr 2021	79	7303	182	3	7	270	338	9
21 Apr 2021	54	7093	182	3	7	185	338	9
22 Apr 2021	41	4768	246	3	4	116	453	11
23 Apr 2021	41	4768	246	3	4	116	453	11
24 Apr 2021	40	4500	246	3	4	126	453	11
25 Apr 2021	40	4500	246	3	4	126	453	11
26 Apr 2021	40	5136	246	3	4	126	453	11
27 Apr 2021	27	3429	152	4	4	80	264	11
28 Apr 2021	27	3372	152	4	4	80	264	11
29 Apr 2021	19	3149	128	4	4	51	193	6
30 Apr 2021	19	3149	128	4	4	51	193	6

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	IC	E	E	ns	ns	IC	E	IC
02 Apr 2021	IC	E	E	ns	ns	IC	E	ns
04 Apr 2021	ns	E	E	ns	ns	ns	E	ns
06 Apr 2021	IC	E	IC	IC	IC	E	IC	IC
08 Apr 2021	IC	E	ns	ns	ns	IC	ns	ns
10 Apr 2021	ns	IC	ns	ns	ns	ns	ns	ns
12 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Apr 2021	IC	E	IC	IC	IC	IC	IC	IC
15 Apr 2021	ns	E	ns	ns	ns	IC	ns	ns
17 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
19 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	E	E	E	ns	ns	E	E	IC
02 Apr 2021	IC	E	E	ns	ns	IC	E	ns
04 Apr 2021	ns	E	E	ns	ns	ns	E	ns
06 Apr 2021	E	E	IC	IC	IC	E	IC	IC
08 Apr 2021	IC	E	ns	ns	ns	IC	ns	ns
10 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
12 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Apr 2021	IC	E	IC	IC	IC	E	IC	IC
15 Apr 2021	ns	E	ns	ns	ns	IC	ns	ns
17 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
19 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	E	E	E	ns	ns	E	E	IC
02 Apr 2021	IC	E	E	ns	ns	IC	E	ns
04 Apr 2021	ns	E	E	ns	ns	ns	E	ns
06 Apr 2021	E	E	IC	IC	IC	E	IC	IC
08 Apr 2021	IC	E	ns	ns	ns	IC	ns	ns
10 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
12 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Apr 2021	IC	E	E	IC	IC	E	E	IC
15 Apr 2021	ns	E	E	ns	ns	IC	E	ns
17 Apr 2021	ns	E	IC	ns	ns	ns	IC	ns
19 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
20 Apr 2021	IC	E	IC	IC	IC	IC	IC	IC
22 Apr 2021	ns	IC	ns	ns	ns	ns	ns	ns
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	E	E	E	ns	ns	E	E	IC
02 Apr 2021	IC	E	E	ns	ns	IC	E	ns
04 Apr 2021	ns	E	E	ns	ns	ns	E	ns
06 Apr 2021	E	E	IC	IC	IC	E	IC	IC
08 Apr 2021	IC	E	ns	ns	ns	IC	ns	ns
10 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
12 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Apr 2021	IC	E	IC	IC	IC	E	IC	IC
15 Apr 2021	ns	E	ns	ns	ns	IC	ns	ns
17 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
19 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	21	11	4	2	4	2	51
02 Apr 2021	21	11	4	2	4	2	51
03 Apr 2021	21	11	4	2	4	2	51
04 Apr 2021	21	11	4	2	4	2	51
05 Apr 2021	21	11	4	2	4	2	51
06 Apr 2021	36	17	5	2	3	2	46
07 Apr 2021	48	18	7	2	2	2	42
08 Apr 2021	48	18	7	2	2	2	42
09 Apr 2021	48	18	7	2	2	2	42
10 Apr 2021	48	18	7	2	2	2	42
11 Apr 2021	48	18	7	2	2	2	42
12 Apr 2021	48	18	7	2	2	2	42
13 Apr 2021	48	18	7	2	2	2	42
14 Apr 2021	48	18	7	2	2	2	42
15 Apr 2021	39	20	8	2	2	2	53
16 Apr 2021	39	20	8	2	2	2	53
17 Apr 2021	32	13	12	2	2	2	79
18 Apr 2021	32	13	12	2	2	2	79
19 Apr 2021	32	13	12	2	2	2	79
20 Apr 2021	18	9	8	2	2	2	38
21 Apr 2021	18	9	8	2	2	2	38
22 Apr 2021	18	9	8	2	2	2	38
23 Apr 2021	17	13	12	2	2	2	60
24 Apr 2021	17	13	12	2	2	2	60
25 Apr 2021	17	13	12	2	2	2	60
26 Apr 2021	17	13	12	2	2	2	60
27 Apr 2021	11	9	8	2	2	2	32
28 Apr 2021	11	9	8	2	2	2	32
29 Apr 2021	11	9	8	2	2	2	32
30 Apr 2021	11	9	8	2	2	2	32

* Geometric mean calculated using n<5

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	IC	IC	IC	IC	IC	IC	E
06 Apr 2021	E	E	IC	IC	IC	IC	IC
15 Apr 2021	IC	IC	IC	IC	IC	IC	IC
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	IC	IC	E	IC	IC	IC	E
06 Apr 2021	E	E	IC	IC	IC	IC	IC
15 Apr 2021	IC	IC	IC	IC	IC	IC	E
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	IC	IC	E	IC	IC	IC	E
06 Apr 2021	E	E	IC	IC	IC	IC	E
15 Apr 2021	IC	IC	IC	IC	IC	IC	IC
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

May 2021

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2021	70	6075	165	6	112	112	343	20
02 May 2021	65	5563	66	6	112	134	159	20
03 May 2021	65	5563	66	6	112	134	159	20
04 May 2021	72	3735	23	8	50	140	62	30
05 May 2021	72	3735	23	8	50	140	62	30
06 May 2021	34	3230	24	11	36	68	49	34
07 May 2021	34	3230	24	11	36	68	49	34
08 May 2021	39	2704	24	11	36	86	49	34
09 May 2021	39	2704	24	11	36	86	49	34
10 May 2021	39	2530	24	11	36	86	49	34
11 May 2021	42	1144	17	8	20	58	30	19
12 May 2021	42	823	17	8	20	58	30	19
13 May 2021	23	538	11	6	11	24	12	19
14 May 2021	23	538	11	6	11	24	12	19
15 May 2021	23	306	11	6	11	28	12	19
16 May 2021	23	306	11	6	11	28	12	19
17 May 2021	23	139	11	6	11	28	12	19
18 May 2021	14	126	14	8	13	26	13	19
19 May 2021	14	48	14	8	13	26	13	19
20 May 2021	23	34	22	11	6	28	22	19
21 May 2021	23	34	22	11	6	28	22	19
22 May 2021	23	34	22	11	6	28	22	19
23 May 2021	23	34	22	11	6	28	22	19
24 May 2021	23	34	22	11	6	28	22	19
25 May 2021	22	30	22	13	8	26	21	19
26 May 2021	22	30	22	13	8	26	21	19
27 May 2021	23	28	22	11	6	28	22	19
28 May 2021	23	28	22	11	6	28	22	19
29 May 2021	23	28	22	11	6	28	22	19
30 May 2021	23	28	22	11	6	28	22	19
31 May 2021	23	28	22	11	6	28	22	19

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2021	20	2751	53	2	4	38	132	2
02 May 2021	21	2406	18	2	4	40	53	2
03 May 2021	21	2406	18	2	4	40	53	2
04 May 2021	19	1318	5	2	3	38	15	2
05 May 2021	19	1318	5	2	3	38	15	2
06 May 2021	9	1057	7	2	4	17	12	3
07 May 2021	9	1057	7	2	4	17	12	3
08 May 2021	7	807	7	2	4	19	12	3
09 May 2021	7	807	7	2	4	19	12	3
10 May 2021	7	776	7	2	4	19	12	3
11 May 2021	6	400	5	2	3	13	9	2
12 May 2021	6	262	5	2	3	13	9	2
13 May 2021	4	151	3	2	4	4	4	3
14 May 2021	4	151	3	2	4	4	4	3
15 May 2021	4	73	3	2	4	5	4	3
16 May 2021	4	73	3	2	4	5	4	3
17 May 2021	4	26	3	2	4	5	4	3
18 May 2021	3	19	3	2	4	4	3	2
19 May 2021	3	6	3	2	4	4	3	2
20 May 2021	4	5	4	2	2	4	4	3
21 May 2021	4	5	4	2	2	4	4	3
22 May 2021	4	5	4	2	2	4	4	3
23 May 2021	4	5	4	2	2	4	4	3
24 May 2021	4	5	4	2	2	4	4	3
25 May 2021	5	4	3	2	2	4	4	3
26 May 2021	5	4	3	2	2	4	4	3
27 May 2021	6	4	4	2	2	5	4	4
28 May 2021	6	4	4	2	2	5	4	4
29 May 2021	6	4	4	2	2	5	4	4
30 May 2021	6	4	4	2	2	5	4	4
31 May 2021	6	4	4	2	2	5	4	4

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2021	11	2841	72	4	4	37	115	3
02 May 2021	13	2520	35	4	4	45	59	3
03 May 2021	13	2520	35	4	4	45	59	3
04 May 2021	15	1466	16	4	4	43	22	4
05 May 2021	15	1466	16	4	4	43	22	4
06 May 2021	9	1211	22	4	4	27	24	4
07 May 2021	9	1211	22	4	4	27	24	4
08 May 2021	7	962	22	4	4	26	24	4
09 May 2021	7	962	22	4	4	26	24	4
10 May 2021	7	1080	22	4	4	26	24	4
11 May 2021	9	643	16	4	4	21	17	4
12 May 2021	9	464	16	4	4	21	17	4
13 May 2021	7	309	11	4	4	7	10	4
14 May 2021	7	309	11	4	4	7	10	4
15 May 2021	7	183	3	4	4	5	3	4
16 May 2021	7	183	3	4	4	5	3	4
17 May 2021	7	91	4	4	4	5	3	4
18 May 2021	5	71	4	4	6	4	3	4
19 May 2021	5	30	4	4	6	4	3	4
20 May 2021	7	11	5	4	4	5	3	4
21 May 2021	7	11	5	4	4	5	3	4
22 May 2021	7	11	5	4	4	5	3	4
23 May 2021	7	11	5	4	4	5	3	4
24 May 2021	7	11	5	4	4	5	3	4
25 May 2021	7	8	4	5	3	5	3	4
26 May 2021	7	8	4	5	3	5	3	4
27 May 2021	9	8	5	3	4	6	3	4
28 May 2021	9	8	5	3	4	6	3	4
29 May 2021	9	8	5	3	4	6	3	4
30 May 2021	9	8	5	3	4	6	3	4
31 May 2021	9	8	5	3	4	6	3	4

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
03 May 2021	IC	E	IC	IC	IC	IC	IC
10 May 2021	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC
27 May 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
03 May 2021	E	E	E	E	E	E	E
10 May 2021	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC
27 May 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
03 May 2021	E	E	IC	IC	IC	IC	IC
10 May 2021	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC
27 May 2021	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

June 2021

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
08 Jun 2021	IC	E	IC	IC	IC	E	IC	IC
10 Jun 2021	ns	IC	ns	ns	ns	IC	ns	ns
15 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
22 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
29 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

July 2021

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jul 2021	14	8	4	2	3	6	8	5
02 Jul 2021	14	8	4	2	3	6	8	5
03 Jul 2021	14	8	4	2	3	6	8	5
04 Jul 2021	14	8	4	2	3	6	8	5
05 Jul 2021	14	8	4	2	3	6	8	5
06 Jul 2021	9	6	4	3	3	5	6	7
07 Jul 2021	9	6	4	3	3	5	6	7
08 Jul 2021	8	3	2	4	3	3	3	5
09 Jul 2021	8	3	2	4	3	3	3	5
10 Jul 2021	8	3	2	4	3	3	3	5
11 Jul 2021	8	3	2	4	3	3	3	5
12 Jul 2021	8	3	2	4	3	3	3	5
13 Jul 2021	9	5	2	3	4	3	3	4
14 Jul 2021	9	5	2	3	4	3	3	4
15 Jul 2021	13	4	2	4	5	4	3	5
16 Jul 2021	13	4	2	4	5	4	3	5
17 Jul 2021	13	4	2	4	5	4	3	5
18 Jul 2021	13	4	2	4	5	4	3	5
19 Jul 2021	13	4	2	4	5	4	3	5
20 Jul 2021	13	3	2	3	4	4	3	5
21 Jul 2021	13	3	2	3	4	4	3	5
22 Jul 2021	15	4	2	4	4	4	3	4
23 Jul 2021	15	4	2	4	4	4	3	4
24 Jul 2021	15	4	2	4	4	4	3	4
25 Jul 2021	15	4	2	4	4	4	3	4
26 Jul 2021	15	4	2	4	4	4	3	4
27 Jul 2021	15	3	3	3	5	5	3	9
28 Jul 2021	15	3	3	3	5	5	3	9
29 Jul 2021	9	4	2	4	5	5	4	13
30 Jul 2021	9	4	2	4	5	5	4	13
31 Jul 2021	9	4	2	4	5	5	4	13

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jul 2021	170	200	110	20	110	20	20	20
02 Jul 2021	170	200	110	20	110	20	20	20
03 Jul 2021	170	200	110	20	110	20	20	20
04 Jul 2021	170	200	110	20	110	20	20	20
05 Jul 2021	170	200	110	20	110	20	20	20
06 Jul 2021	140	200	20	20	200	20	20	20
07 Jul 2021	140	200	20	20	200	20	20	20
08 Jul 2021	80	110	20	20	110	20	20	20
09 Jul 2021	80	110	20	20	110	20	20	20
10 Jul 2021	80	110	20	20	110	20	20	20
11 Jul 2021	80	110	20	20	110	20	20	20
12 Jul 2021	80	110	20	20	110	20	20	20
13 Jul 2021	140	200	20	20	200	20	20	20
14 Jul 2021	140	200	20	20	200	20	20	20
15 Jul 2021	170	110	110	20	200	20	20	20
16 Jul 2021	170	110	110	20	200	20	20	20
17 Jul 2021	170	110	110	20	200	20	20	20
18 Jul 2021	170	110	110	20	200	20	20	20
19 Jul 2021	170	110	110	20	200	20	20	20
20 Jul 2021	140	20	20	20	200	20	20	20
21 Jul 2021	140	20	20	20	200	20	20	20
22 Jul 2021	110	110	110	20	110	20	20	20
23 Jul 2021	110	110	110	20	110	20	20	20
24 Jul 2021	110	110	110	20	110	20	20	20
25 Jul 2021	110	110	110	20	110	20	20	20
26 Jul 2021	110	110	110	20	110	20	20	20
27 Jul 2021	120	40	80	20	200	20	20	20
28 Jul 2021	120	40	80	20	200	20	20	20
29 Jul 2021	70	30	50	20	200	60	80	20
30 Jul 2021	70	30	50	20	200	60	80	20
31 Jul 2021	70	30	50	20	200	60	80	20

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
July	E	IC	IC	IC	E	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

August 2021

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2021	70	30	50	20	200	60	80	20
02 Aug 2021	70	30	50	20	200	60	80	20
03 Aug 2021	20	20	20	20	200	20	20	20
04 Aug 2021	20	20	20	20	200	20	20	20
05 Aug 2021	70	30	50	20	110	60	80	20
06 Aug 2021	70	30	50	20	110	60	80	20
07 Aug 2021	70	30	50	20	110	60	80	20
08 Aug 2021	70	30	50	20	110	60	80	20
09 Aug 2021	70	30	50	20	110	60	80	20
10 Aug 2021	40	40	80	20	40	60	120	20
11 Aug 2021	40	40	80	20	40	60	120	20
12 Aug 2021	30	30	50	20	30	40	70	30
13 Aug 2021	30	30	50	20	30	40	70	30
14 Aug 2021	30	30	50	20	30	40	70	30
15 Aug 2021	30	30	50	20	30	40	70	30
16 Aug 2021	30	30	50	20	30	40	70	30
17 Aug 2021	40	40	20	20	20	20	20	40
18 Aug 2021	40	40	20	20	20	20	20	40
19 Aug 2021	40	120	50	20	30	40	70	120
20 Aug 2021	40	120	50	20	30	40	70	120
21 Aug 2021	40	120	50	20	30	40	70	120
22 Aug 2021	40	120	50	20	30	40	70	120
23 Aug 2021	40	120	50	20	30	40	70	120
24 Aug 2021	40	40	20	20	40	20	20	200
25 Aug 2021	40	40	20	20	40	20	20	200
26 Aug 2021	30	110	20	20	30	20	20	120
27 Aug 2021	30	110	20	20	30	20	20	120
28 Aug 2021	30	110	20	20	30	20	20	120
29 Aug 2021	30	110	20	20	30	20	20	120
30 Aug 2021	30	110	20	20	30	20	20	120
31 Aug 2021	40	22	20	20	20	20	20	40

* Median calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
August	E	IC	IC	IC	IC	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
August	IC	E	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	E	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

September 2021

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
September	E	E	E	IC	IC	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Sep 2021	40	22	20	20	20	20	20	40
02 Sep 2021	40	111	20	12	30	20	20	120
03 Sep 2021	40	111	20	12	30	20	20	120
04 Sep 2021	40	111	20	12	30	20	20	120
05 Sep 2021	40	111	20	12	30	20	20	120
06 Sep 2021	40	111	20	12	30	20	20	120
07 Sep 2021	40	200	20	20	40	20	20	200
08 Sep 2021	40	200	20	20	40	20	20	200
09 Sep 2021	47	111	20	20	30	20	20	200
10 Sep 2021	47	111	20	20	30	20	20	200
11 Sep 2021	47	111	20	20	30	20	20	200
12 Sep 2021	47	111	20	20	30	20	20	200
13 Sep 2021	47	111	20	20	30	20	20	200
14 Sep 2021	54	100	20	20	20	20	20	200
15 Sep 2021	54	100	20	20	20	20	20	200
16 Sep 2021	827	61	50	20	30	470	50	120
17 Sep 2021	827	61	50	20	30	470	50	120
18 Sep 2021	827	61	50	20	30	470	50	120
19 Sep 2021	827	61	50	20	30	470	50	120
20 Sep 2021	827	61	50	20	30	470	50	120
21 Sep 2021	200	22	20	20	40	200	20	40
22 Sep 2021	200	22	20	20	40	200	20	40
23 Sep 2021	900	61	41	11	30	560	42	30
24 Sep 2021	900	61	41	11	30	560	42	30
25 Sep 2021	900	61	41	11	30	560	42	30
26 Sep 2021	900	61	41	11	30	560	42	30
27 Sep 2021	900	61	41	11	30	560	42	30
28 Sep 2021	1400	100	80	2	20	920	80	20
29 Sep 2021	1400	100	80	2	20	920	80	20
30 Sep 2021	1500	700	360	11	30	1460	480	30

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
September	E	E	E	IC	IC	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
September	E	E	E	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Sep 2021	9	18	20	2	2	4	2	2	3	2	2	11	2	2	2	2	3	3	2	5	9
02 Sep 2021	9	18	20	2	2	4	2	2	3	2	2	11	2	2	2	2	3	3	2	5	9
03 Sep 2021	9	18	20	2	2	4	2	2	3	2	2	11	2	2	2	2	3	3	2	5	9
04 Sep 2021	9	18	20	2	2	4	2	2	3	2	2	11	2	2	2	2	3	3	2	5	9
05 Sep 2021	9	18	20	2	2	4	2	2	3	2	2	11	2	2	2	2	3	3	2	5	9
06 Sep 2021	9	18	20	2	2	4	2	2	3	2	2	11	2	2	2	2	3	3	2	5	9
07 Sep 2021	16	20	20	2	2	6	2	2	4	2	2	20	2	2	2	2	4	4	2	8	14
08 Sep 2021	24	498	710	2	2	4	2	3	6	2	2	20	2	2	2	2	3	3	3	5	12
09 Sep 2021	24	498	710	2	2	4	2	3	6	2	2	20	2	2	2	2	3	3	3	5	12
10 Sep 2021	24	498	710	2	2	4	2	3	6	2	2	20	2	2	2	2	3	3	3	5	12
11 Sep 2021	24	498	710	2	2	4	2	3	6	2	2	20	2	2	2	2	3	3	3	5	12
12 Sep 2021	24	498	710	2	2	4	2	3	6	2	2	20	2	2	2	2	3	3	3	5	12
13 Sep 2021	16	16	20	2	2	6	2	4	2	2	2	20	2	2	2	2	2	4	2	20	20
14 Sep 2021	16	16	20	2	2	6	2	4	2	2	2	20	2	2	2	2	2	4	2	20	20
15 Sep 2021	16	16	20	2	2	6	2	4	2	2	2	20	2	2	2	2	2	4	2	20	20
16 Sep 2021	24	498	710	2	3	13	2	12	6	2	2	11	2	2	11	2	3	3	12	5	20
17 Sep 2021	24	498	710	2	3	13	2	12	6	2	2	11	2	2	11	2	3	3	12	5	20
18 Sep 2021	24	498	710	2	3	13	2	12	6	2	2	11	2	2	11	2	3	3	12	5	20
19 Sep 2021	24	498	710	2	3	13	2	12	6	2	2	11	2	2	11	2	3	3	12	5	20
20 Sep 2021	24	498	710	2	3	13	2	12	6	2	2	11	2	2	11	2	3	3	12	5	20
21 Sep 2021	24	498	710	2	3	13	2	12	6	2	2	11	2	2	11	2	3	3	12	5	20
22 Sep 2021	16	16	20	2	2	6	2	4	2	2	2	2	2	2	2	2	2	4	2	20	20
23 Sep 2021	17	491	710	2	3	11	2	11	2	2	2	2	2	2	11	2	2	2	11	2	11
24 Sep 2021	17	491	710	2	3	11	2	11	2	2	2	2	2	2	11	2	2	2	11	2	11
25 Sep 2021	17	491	710	2	3	11	2	11	2	2	2	2	2	2	11	2	2	2	11	2	11
26 Sep 2021	17	491	710	2	3	11	2	11	2	2	2	2	2	2	11	2	2	2	11	2	11
27 Sep 2021	17	491	710	2	3	11	2	11	2	2	2	2	2	2	11	2	2	2	11	2	11
28 Sep 2021	32	760	1400	2	4	20	2	20	2	2	2	2	2	2	12	2	2	20	2	20	20
29 Sep 2021	32	760	1400	2	4	20	2	20	2	2	2	2	2	2	12	2	2	20	2	20	20
30 Sep 2021	101	381	1210	121	802	110	41	70	121	19	61	31	2	3	16	2	41	4	30	31	200

* Median calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
September	E	E	E	E	E	E	E	E	E	IC	E	E	IC	IC	IC	IC	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

October 2021

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Oct 2021	E	IC	IC	IC	IC	IC	IC	IC
12 Oct 2021	IC	IC	IC	IC	IC	IC	IC	IC
19 Oct 2021	IC	IC	IC	IC	IC	IC	IC	IC
26 Oct 2021	IC	IC	IC	IC	E	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Oct 2021	22	24	15	3	10	29	18	5
02 Oct 2021	22	24	15	3	10	29	18	5
03 Oct 2021	22	24	15	3	10	29	18	5
04 Oct 2021	22	24	15	3	10	29	18	5
05 Oct 2021	56	40	21	3	7	62	26	7
06 Oct 2021	56	40	21	3	7	62	26	7
07 Oct 2021	56	40	21	3	7	62	26	7
08 Oct 2021	56	40	21	3	7	62	26	7
09 Oct 2021	56	40	21	3	7	62	26	7
10 Oct 2021	56	40	21	3	7	62	26	7
11 Oct 2021	56	40	21	3	7	62	26	7
12 Oct 2021	56	53	25	3	6	62	32	7
13 Oct 2021	56	53	25	3	6	62	32	7
14 Oct 2021	56	53	25	3	6	62	32	7
15 Oct 2021	56	53	25	3	6	62	32	7
16 Oct 2021	56	53	25	3	6	62	32	7
17 Oct 2021	56	53	25	3	6	62	32	7
18 Oct 2021	56	53	25	3	6	62	32	7
19 Oct 2021	31	14	10	3	5	17	10	5
20 Oct 2021	31	14	10	3	5	17	10	5
21 Oct 2021	31	14	10	3	5	17	10	5
22 Oct 2021	31	14	10	3	5	17	10	5
23 Oct 2021	31	14	10	3	5	17	10	5
24 Oct 2021	31	14	10	3	5	17	10	5
25 Oct 2021	31	14	10	3	5	17	10	5
26 Oct 2021	18	9	10	3	9	8	7	3
27 Oct 2021	18	9	10	3	9	8	7	3
28 Oct 2021	18	9	10	3	9	8	7	3
29 Oct 2021	18	9	10	3	9	8	7	3
30 Oct 2021	18	9	10	3	9	8	7	3
31 Oct 2021	18	9	10	3	9	8	7	3

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
October	E	IC	IC	IC	E	E	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Oct 2021	1500	700	360	11	30	1460	480	30
02 Oct 2021	1500	700	360	11	30	1460	480	30
03 Oct 2021	1500	700	360	11	30	1460	480	30
04 Oct 2021	1500	700	360	11	30	1460	480	30
05 Oct 2021	1600	200	80	20	20	1200	180	40
06 Oct 2021	1600	200	80	20	20	1200	180	40
07 Oct 2021	1500	150	50	11	20	1060	130	30
08 Oct 2021	1500	150	50	11	20	1060	130	30
09 Oct 2021	1500	150	50	11	20	1060	130	30
10 Oct 2021	1500	150	50	11	20	1060	130	30
11 Oct 2021	1500	150	50	11	20	1060	130	30
12 Oct 2021	1400	100	40	2	20	920	80	20
13 Oct 2021	1400	100	40	2	20	920	80	20
14 Oct 2021	800	140	30	2	20	700	107	12
15 Oct 2021	800	140	30	2	20	700	107	12
16 Oct 2021	800	140	30	2	20	700	107	12
17 Oct 2021	800	140	30	2	20	700	107	12
18 Oct 2021	800	140	30	2	20	700	107	12
19 Oct 2021	200	80	20	2	20	200	34	20
20 Oct 2021	200	80	20	2	20	200	34	20
21 Oct 2021	710	140	30	11	20	610	107	20
22 Oct 2021	710	140	30	11	20	610	107	20
23 Oct 2021	710	140	30	11	20	610	107	20
24 Oct 2021	710	140	30	11	20	610	107	20
25 Oct 2021	710	140	30	11	20	610	107	20
26 Oct 2021	20	80	40	20	20	20	34	20
27 Oct 2021	20	80	40	20	20	20	34	20
28 Oct 2021	16	50	30	20	20	20	27	15
29 Oct 2021	16	50	30	20	20	20	27	15
30 Oct 2021	16	50	30	20	20	20	27	15
31 Oct 2021	16	50	30	20	20	20	27	15

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
October	E	IC	IC	IC	E	E	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Oct 2021	101	381	1210	121	802	110	41	70	121	19	61	31	2	3	16	2	41	4	30	31	200
02 Oct 2021	101	381	1210	121	802	110	41	70	121	19	61	31	2	3	16	2	41	4	30	31	200
03 Oct 2021	101	381	1210	121	802	110	41	70	121	19	61	31	2	3	16	2	41	4	30	31	200
04 Oct 2021	4	20	20	2	10	20	8	20	4	2	8	2	2	2	12	2	2	4	20	20	20
05 Oct 2021	4	20	20	2	10	20	8	20	4	2	8	2	2	2	12	2	2	4	20	20	20
06 Oct 2021	4	20	20	2	10	20	8	20	4	2	8	2	2	2	12	2	2	4	20	20	20
07 Oct 2021	3	11	16	2	7	15	5	15	3	2	5	2	2	2	7	2	2	3	16	11	20
08 Oct 2021	3	11	16	2	7	15	5	15	3	2	5	2	2	2	7	2	2	3	16	11	20
09 Oct 2021	3	11	16	2	7	15	5	15	3	2	5	2	2	2	7	2	2	3	16	11	20
10 Oct 2021	3	11	16	2	7	15	5	15	3	2	5	2	2	2	7	2	2	3	16	11	20
11 Oct 2021	2	4	12	2	4	10	8	14	4	2	8	2	2	2	2	2	2	2	12	6	20
12 Oct 2021	2	4	12	2	4	10	8	14	4	2	8	2	2	2	2	2	2	2	12	6	20
13 Oct 2021	3	12	7	11	7	6	14	12	7	21	10	11	2	2	2	2	2	3	7	13	20
14 Oct 2021	3	12	7	11	7	6	14	12	7	21	10	11	2	2	2	2	2	3	7	13	20
15 Oct 2021	3	12	7	11	7	6	14	12	7	21	10	11	2	2	2	2	2	3	7	13	20
16 Oct 2021	3	12	7	11	7	6	14	12	7	21	10	11	2	2	2	2	2	3	7	13	20
17 Oct 2021	3	12	7	11	7	6	14	12	7	21	10	11	2	2	2	2	2	3	7	13	20
18 Oct 2021	3	12	7	11	7	6	14	12	7	21	10	11	2	2	2	2	2	3	7	13	20
19 Oct 2021	3	12	7	11	7	6	14	12	7	21	10	11	2	2	2	2	2	3	7	13	20
20 Oct 2021	2	4	12	2	4	10	8	14	10	2	12	10	2	2	2	2	2	4	12	20	20
21 Oct 2021	2	4	12	2	4	10	8	14	10	2	12	10	2	2	2	2	2	4	12	20	20
22 Oct 2021	3	12	16	11	7	15	14	27	45	21	16	15	2	2	7	2	21	8	16	20	20
23 Oct 2021	3	12	16	11	7	15	14	27	45	21	16	15	2	2	7	2	21	8	16	20	20
24 Oct 2021	3	12	16	11	7	15	14	27	45	21	16	15	2	2	7	2	21	8	16	20	20
25 Oct 2021	3	12	16	11	7	15	14	27	45	21	16	15	2	2	7	2	21	8	16	20	20
26 Oct 2021	3	12	16	11	7	15	14	27	45	21	16	15	2	2	7	2	21	8	16	20	20
27 Oct 2021	4	20	20	2	4	10	20	14	10	2	12	10	2	2	2	2	2	4	20	20	20
28 Oct 2021	3	12	16	2	3	6	14	12	7	2	10	6	2	2	2	2	2	3	16	20	20
29 Oct 2021	3	12	16	2	3	6	14	12	7	2	10	6	2	2	2	2	2	3	16	20	20
30 Oct 2021	3	12	16	2	3	6	14	12	7	2	10	6	2	2	2	2	2	3	16	20	20
31 Oct 2021	3	12	16	2	3	6	14	12	7	2	10	6	2	2	2	2	2	3	16	20	20

* Median calculated using n<5

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
October	E	E	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	E	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

December 2021

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2021	3	5	2	2	5	2	3	4
02 Dec 2021	2	3	2	2	3	3	3	4
03 Dec 2021	2	3	2	2	3	3	3	4
04 Dec 2021	2	3	2	2	3	3	3	4
05 Dec 2021	2	3	2	2	3	3	3	4
06 Dec 2021	2	3	2	2	3	3	3	4
07 Dec 2021	11	3	2	2	3	8	3	4
08 Dec 2021	11	3	2	2	3	8	3	4
09 Dec 2021	16	3	2	2	3	12	3	5
10 Dec 2021	16	3	2	2	3	12	3	5
11 Dec 2021	16	3	2	2	3	12	3	5
12 Dec 2021	16	3	2	2	3	12	3	5
13 Dec 2021	16	3	2	2	3	12	3	5
14 Dec 2021	35	7	6	5	5	29	7	10
15 Dec 2021	35	7	6	5	5	29	7	10
16 Dec 2021	60	10	9	6	5	43	8	15
17 Dec 2021	60	10	9	6	5	43	8	15
18 Dec 2021	60	10	9	6	5	43	8	15
19 Dec 2021	60	10	9	6	5	43	8	15
20 Dec 2021	60	10	9	6	5	43	8	15
21 Dec 2021	51	17	11	5	5	48	12	12
22 Dec 2021	51	17	11	5	5	48	12	12
23 Dec 2021	114	28	14	6	6	106	19	8
24 Dec 2021	114	28	14	6	6	106	19	8
25 Dec 2021	114	28	14	6	6	106	19	8
26 Dec 2021	114	28	14	6	6	106	19	8
27 Dec 2021	114	28	14	6	6	106	19	8
28 Dec 2021	256	95	15	5	6	274	19	8
29 Dec 2021	256	95	15	5	6	274	19	8
30 Dec 2021	860	177	24	6	7	936	34	12
31 Dec 2021	860	177	24	6	7	936	34	12

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
07 Dec 2021	E	IC	IC	IC	IC	E	IC	IC
14 Dec 2021	E	IC	IC	IC	IC	E	IC	IC
21 Dec 2021	IC	IC	IC	IC	IC	IC	IC	IC
28 Dec 2021	E	E	IC	IC	IC	E	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2021	3	3	6	2	17	4	3	2
02 Dec 2021	3	3	6	2	17	4	3	2
03 Dec 2021	3	3	6	2	17	4	3	2
04 Dec 2021	3	3	6	2	17	4	3	2
05 Dec 2021	3	3	6	2	17	4	3	2
06 Dec 2021	3	3	6	2	17	4	3	2
07 Dec 2021	9	3	4	2	11	11	4	2
08 Dec 2021	9	3	4	2	11	11	4	2
09 Dec 2021	9	3	4	2	11	11	4	2
10 Dec 2021	9	3	4	2	11	11	4	2
11 Dec 2021	9	3	4	2	11	11	4	2
12 Dec 2021	9	3	4	2	11	11	4	2
13 Dec 2021	9	3	4	2	11	11	4	2
14 Dec 2021	25	4	10	3	5	22	11	5
15 Dec 2021	25	4	10	3	5	22	11	5
16 Dec 2021	25	4	10	3	5	22	11	5
17 Dec 2021	25	4	10	3	5	22	11	5
18 Dec 2021	25	4	10	3	5	22	11	5
19 Dec 2021	25	4	10	3	5	22	11	5
20 Dec 2021	25	4	10	3	5	22	11	5
21 Dec 2021	36	9	13	3	4	34	14	5
22 Dec 2021	36	9	13	3	4	34	14	5
23 Dec 2021	36	9	13	3	4	34	14	5
24 Dec 2021	36	9	13	3	4	34	14	5
25 Dec 2021	36	9	13	3	4	34	14	5
26 Dec 2021	36	9	13	3	4	34	14	5
27 Dec 2021	36	9	13	3	4	34	14	5
28 Dec 2021	100	38	19	4	4	130	21	9
29 Dec 2021	100	38	19	4	4	130	21	9
30 Dec 2021	100	38	19	4	4	130	21	9
31 Dec 2021	100	38	19	4	4	130	21	9

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
December	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2021	20	20	4	2	180	6	8	4
02 Dec 2021	18	11	12	2	110	4	12	6
03 Dec 2021	18	11	12	2	110	4	12	6
04 Dec 2021	18	11	12	2	110	4	12	6
05 Dec 2021	18	11	12	2	110	4	12	6
06 Dec 2021	18	11	12	2	110	4	12	6
07 Dec 2021	20	20	20	2	20	6	4	2
08 Dec 2021	20	20	20	2	20	6	4	2
09 Dec 2021	18	20	20	11	110	43	4	6
10 Dec 2021	18	20	20	11	110	43	4	6
11 Dec 2021	18	20	20	11	110	43	4	6
12 Dec 2021	18	20	20	11	110	43	4	6
13 Dec 2021	18	20	20	11	110	43	4	6
14 Dec 2021	20	20	20	20	200	80	4	10
15 Dec 2021	20	20	20	20	200	80	4	10
16 Dec 2021	2508	20	40	11	110	3003	12	15
17 Dec 2021	2508	20	40	11	110	3003	12	15
18 Dec 2021	2508	20	40	11	110	3003	12	15
19 Dec 2021	2508	20	40	11	110	3003	12	15
20 Dec 2021	2508	20	40	11	110	3003	12	15
21 Dec 2021	780	20	60	6	20	1000	20	10
22 Dec 2021	780	20	60	6	20	1000	20	10
23 Dec 2021	2890	1710	630	13	110	3500	810	13
24 Dec 2021	2890	1710	630	13	110	3500	810	13
25 Dec 2021	2890	1710	630	13	110	3500	810	13
26 Dec 2021	2890	1710	630	13	110	3500	810	13
27 Dec 2021	2890	1710	630	13	110	3500	810	13
28 Dec 2021	5000	3400	60	20	20	6000	200	20
29 Dec 2021	5000	3400	60	20	20	6000	200	20
30 Dec 2021	10500	3600	630	40	20	6900	900	33
31 Dec 2021	10500	3600	630	40	20	6900	900	33

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
December	E	E	E	E	E	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
08 Dec 2021	IC	IC	IC	IC	IC	IC	IC
17 Dec 2021	IC	IC	IC	IC	IC	IC	E
21 Dec 2021	IC	IC	IC	IC	IC	IC	IC
27 Dec 2021	E	IC	IC	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Dec 2021	3	2	2	2	2	3	3
02 Dec 2021	3	2	2	2	2	3	3
03 Dec 2021	3	2	2	2	2	3	3
04 Dec 2021	3	2	2	2	2	3	3
05 Dec 2021	3	2	2	2	2	3	3
06 Dec 2021	3	2	2	2	2	3	3
07 Dec 2021	3	2	2	2	2	3	3
08 Dec 2021	5	2	2	2	2	2	3
09 Dec 2021	5	2	2	2	2	2	3
10 Dec 2021	5	2	2	2	2	2	3
11 Dec 2021	5	2	2	2	2	2	3
12 Dec 2021	5	2	2	2	2	2	3
13 Dec 2021	5	2	2	2	2	2	3
14 Dec 2021	6	2	2	2	2	2	4
15 Dec 2021	6	2	2	2	2	2	4
16 Dec 2021	6	2	2	2	2	2	4
17 Dec 2021	9	2	2	2	2	2	6
18 Dec 2021	9	2	2	2	2	2	6
19 Dec 2021	9	2	2	2	2	2	6
20 Dec 2021	12	2	2	2	2	2	7
21 Dec 2021	14	3	3	2	2	2	8
22 Dec 2021	14	3	3	2	2	2	8
23 Dec 2021	14	3	3	2	2	2	8
24 Dec 2021	14	3	3	2	2	2	8
25 Dec 2021	14	3	3	2	2	2	8
26 Dec 2021	14	3	3	2	2	2	8
27 Dec 2021	26	5	4	4	4	3	15
28 Dec 2021	40	6	4	4	4	3	21
29 Dec 2021	40	6	4	4	4	3	21
30 Dec 2021	40	6	4	4	4	3	21
31 Dec 2021	40	6	4	4	4	3	21

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
December	E	IC	IC	IC	E	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	I19			I24			I25			I26			I32			I39			I40			
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m	
01 Dec 2021	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
02 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
03 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
04 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
05 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
07 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
08 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	6	12	9	9
09 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	6	12	9	9
10 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	6	12	9	9
11 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	6	12	9	9
12 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	6	12	9	9
13 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	6	12	9	9
14 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	6	12	9	9
15 Dec 2021	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	6	12	9	9
16 Dec 2021	2*	2*	4*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	8*	5*	10*	22*	18*	18*
17 Dec 2021	251	481	342	2	2	2	2	2	2	2	2	2	2	2	2	2	5	2	45	24	18	18
18 Dec 2021	251	481	342	2	2	2	2	2	2	2	2	2	2	2	2	2	5	2	45	24	18	18
19 Dec 2021	251	481	342	2	2	2	2	2	2	2	2	2	2	2	2	2	5	2	45	24	18	18
20 Dec 2021	251	481	342	2	2	2	2	2	2	2	2	2	2	2	2	2	5	2	45	24	18	18
21 Dec 2021	150	540	80	2	2	2	2	2	2	2	2	2	2	2	2	2	6	2	60	26	20	20
22 Dec 2021	325	750	380	2	2	31	2	2	3	2	7	3	2	2	2	4	11	3	70	103	660	660
23 Dec 2021	325	750	380	2	2	31	2	2	3	2	7	3	2	2	2	4	11	3	70	103	660	660
24 Dec 2021	325	750	380	2	2	31	2	2	3	2	7	3	2	2	2	4	11	3	70	103	660	660
25 Dec 2021	325	750	380	2	2	31	2	2	3	2	7	3	2	2	2	4	11	3	70	103	660	660
26 Dec 2021	325	750	380	2	2	31	2	2	3	2	7	3	2	2	2	4	11	3	70	103	660	660
27 Dec 2021	500	960	680	2	2	60	2	2	4	2	12	4	2	2	2	6	14	4	80	180	800	800
28 Dec 2021	500	960	680	2	2	60	2	2	4	2	12	4	2	2	2	6	14	4	80	180	800	800
29 Dec 2021	500	960	680	2	2	60	2	2	4	2	12	4	2	2	2	6	14	4	80	180	800	800
30 Dec 2021	650	1580	890	41	351	200	201	501	102	61	146	272	2	3	2	14	18	12	2040	3690	1050	1050
31 Dec 2021	650	1580	890	41	351	200	201	501	102	61	146	272	2	3	2	14	18	12	2040	3690	1050	1050

* Median calculated using n<5

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold standard for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
December	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	IC	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

January 2020

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2020	5649	11326	1525	23	23	5442	2444	450
02 Jan 2020	5091	11084	1772	24	42	4886	3033	600
03 Jan 2020	5091	11326	1772	24	42	4886	3033	600
04 Jan 2020	4898	11084	1772	24	42	4638	3033	600
05 Jan 2020	4898	11326	1772	24	42	4638	3033	600
06 Jan 2020	6143	11084	1772	24	42	4638	3033	600
07 Jan 2020	6272	7644	1076	14	23	4377	1444	266
08 Jan 2020	5579	7299	846	11	11	3790	1209	215
09 Jan 2020	5434	7299	846	11	11	3994	1209	215
10 Jan 2020	7157	6927	846	11	11	4268	1209	215
11 Jan 2020	7428	6927	846	11	11	4336	1209	215
12 Jan 2020	7428	7851	846	11	11	4485	1209	215
13 Jan 2020	7221	7851	846	11	11	4476	1209	215
14 Jan 2020	7717	7679	504	8	8	6148	543	110
15 Jan 2020	7717	7679	504	8	8	6148	543	110
16 Jan 2020	8165	7257	1006	6	6	6148	870	147
17 Jan 2020	8165	7257	1006	6	6	6148	870	147
18 Jan 2020	8165	6794	1006	6	6	6148	870	147
19 Jan 2020	7634	6285	1006	6	6	5528	870	147
20 Jan 2020	6922	6285	1006	6	6	6148	870	147
21 Jan 2020	7722	6285	1136	8	8	7373	1165	79
22 Jan 2020	7722	5725	944	6	6	7373	1114	47
23 Jan 2020	7053	5725	307	6	6	6202	308	15
24 Jan 2020	7053	5107	242	6	6	6202	160	4
25 Jan 2020	6832	4958	242	6	6	6202	160	4
26 Jan 2020	6832	4353	121	6	6	6202	64	4
27 Jan 2020	6832	3757	121	6	6	6202	64	4
28 Jan 2020	4202	4286	56	8	8	3478	52	5
29 Jan 2020	4495	3757	29	6	6	3693	22	4
30 Jan 2020	4495	2580	29	6	6	3693	22	4
31 Jan 2020	4495	2149	29	6	6	3693	22	4

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2020	1440	5736	209	3	6	1303	468	83
02 Jan 2020	1314	5477	256	4	8	1142	557	105
03 Jan 2020	1314	5736	256	4	8	1142	557	105
04 Jan 2020	1370	5477	256	4	8	1195	557	105
05 Jan 2020	1370	5736	256	4	8	1195	557	105
06 Jan 2020	1793	6397	256	4	8	1384	557	105
07 Jan 2020	1639	4145	157	3	6	1326	317	60
08 Jan 2020	1393	3879	140	2	4	1029	302	55
09 Jan 2020	1394	3879	140	2	4	1024	302	55
10 Jan 2020	1801	3597	160	2	4	1150	225	55
11 Jan 2020	1920	3597	160	2	4	1066	225	55
12 Jan 2020	1920	4224	160	2	4	1189	287	55
13 Jan 2020	1745	4224	160	2	4	1090	287	55
14 Jan 2020	1844	3604	115	2	3	1403	154	34
15 Jan 2020	1844	3604	115	2	3	1403	154	34
16 Jan 2020	2029	3285	190	2	2	1504	287	55
17 Jan 2020	2029	3285	190	2	2	1504	287	55
18 Jan 2020	1866	2949	190	2	2	1504	287	55
19 Jan 2020	1549	2596	190	2	2	1194	287	55
20 Jan 2020	1370	2596	190	2	2	1257	287	55
21 Jan 2020	1660	2529	237	2	3	1477	350	34
22 Jan 2020	1660	2164	204	2	4	1477	297	20
23 Jan 2020	1391	2164	93	2	4	967	84	7
24 Jan 2020	1391	1807	79	2	4	967	54	3
25 Jan 2020	1298	1734	79	2	4	967	54	3
26 Jan 2020	1298	1448	37	2	4	967	20	3
27 Jan 2020	1298	1188	37	2	4	967	20	3
28 Jan 2020	801	1425	16	2	4	578	14	3
29 Jan 2020	1003	1450	12	2	4	678	7	2
30 Jan 2020	1003	962	12	2	4	678	7	2
31 Jan 2020	1003	748	12	2	4	678	7	2

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2020	ns	ns	ns	ns	ns	ns	ns	ns
03 Jan 2020	ns	E	ns	ns	ns	ns	ns	ns
05 Jan 2020	ns	E	ns	ns	ns	ns	ns	ns
07 Jan 2020	IC	ns	IC	IC	IC	IC	IC	IC
09 Jan 2020	IC	ns	ns	ns	ns	IC	ns	ns
11 Jan 2020	IC	ns	ns	ns	ns	IC	ns	ns
13 Jan 2020	IC	ns	ns	ns	ns	IC	ns	ns
14 Jan 2020	E	IC	IC	IC	IC	E	IC	IC
16 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
18 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
20 Jan 2020	IC	ns	ns	ns	ns	E	ns	ns
21 Jan 2020	E	E	ns	IC	IC	ns	ns	IC
23 Jan 2020	IC	E	IC	ns	ns	IC	IC	ns
25 Jan 2020	ns	ns	ns	ns	ns	ns	ns	ns
27 Jan 2020	ns	IC	ns	ns	ns	ns	ns	ns
28 Jan 2020	ns	ns	IC	IC	IC	ns	IC	IC
30 Jan 2020	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2020	588	5289	474	5	3	755	526	113
02 Jan 2020	561	5025	524	5	3	724	562	122
03 Jan 2020	561	5289	509	5	3	724	538	122
04 Jan 2020	524	5025	386	5	3	678	423	122
05 Jan 2020	524	5289	353	5	3	678	358	122
06 Jan 2020	598	5803	330	5	3	732	344	122
07 Jan 2020	577	4303	252	4	3	665	263	81
08 Jan 2020	537	4036	225	3	2	582	241	75
09 Jan 2020	534	4036	225	3	2	575	241	75
10 Jan 2020	712	3753	261	3	2	691	243	103
11 Jan 2020	736	3753	261	3	2	622	243	103
12 Jan 2020	736	4259	261	3	2	634	247	103
13 Jan 2020	648	4259	261	3	2	513	247	103
14 Jan 2020	617	3828	184	3	2	554	206	72
15 Jan 2020	617	3828	184	3	2	554	255	72
16 Jan 2020	747	3617	261	3	2	711	370	112
17 Jan 2020	747	3617	261	3	2	711	370	112
18 Jan 2020	658	3273	261	3	2	711	370	112
19 Jan 2020	551	2909	261	3	2	519	370	112
20 Jan 2020	502	2909	261	3	2	560	370	112
21 Jan 2020	613	2564	273	3	2	709	398	72
22 Jan 2020	613	2197	259	3	2	709	402	53
23 Jan 2020	553	2197	158	3	2	594	188	32
24 Jan 2020	553	2108	158	3	2	594	142	23
25 Jan 2020	471	1756	158	3	2	594	142	23
26 Jan 2020	471	1432	98	3	2	594	81	7
27 Jan 2020	480	1088	98	3	2	594	81	7
28 Jan 2020	333	1193	63	3	2	391	58	3
29 Jan 2020	343	1252	51	2	2	446	43	2
30 Jan 2020	343	880	51	2	2	446	43	2
31 Jan 2020	392	690	42	2	2	446	34	2

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2020	ns	ns	ns	ns	ns	ns	ns	ns
03 Jan 2020	ns	E	ns	ns	ns	ns	ns	ns
05 Jan 2020	ns	E	ns	ns	ns	ns	ns	ns
07 Jan 2020	E	ns	IC	IC	IC	E	IC	IC
09 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
11 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
13 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
14 Jan 2020	E	IC	IC	IC	IC	E	IC	IC
16 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
18 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
20 Jan 2020	IC	ns	ns	ns	ns	E	ns	ns
21 Jan 2020	E	E	ns	IC	IC	ns	ns	IC
23 Jan 2020	IC	E	IC	ns	ns	IC	IC	ns
25 Jan 2020	ns	ns	ns	ns	ns	ns	ns	ns
27 Jan 2020	ns	IC	ns	ns	ns	ns	ns	ns
28 Jan 2020	ns	ns	IC	IC	IC	ns	IC	IC
30 Jan 2020	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2020	ns	ns	E	ns	ns	ns	E	ns
03 Jan 2020	ns	E	ns	ns	ns	ns	E	ns
05 Jan 2020	ns	E	E	ns	ns	ns	ns	ns
07 Jan 2020	E	ns	IC	IC	IC	E	IC	IC
09 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
11 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
13 Jan 2020	E	ns	ns	ns	ns	IC	ns	ns
14 Jan 2020	E	IC	IC	IC	IC	E	IC	IC
16 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
18 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
20 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
21 Jan 2020	E	E	ns	IC	IC	ns	ns	IC
23 Jan 2020	E	E	IC	ns	ns	IC	IC	ns
25 Jan 2020	ns	ns	ns	ns	ns	ns	ns	ns
27 Jan 2020	E	IC	ns	ns	ns	ns	ns	ns
28 Jan 2020	ns	ns	IC	IC	IC	ns	IC	IC
30 Jan 2020	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2020	ns	ns	ns	ns	ns	ns	ns	ns
03 Jan 2020	ns	E	ns	ns	ns	ns	ns	ns
05 Jan 2020	ns	E	ns	ns	ns	ns	ns	ns
07 Jan 2020	E	ns	IC	IC	IC	E	IC	IC
09 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
11 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
13 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
14 Jan 2020	E	IC	IC	IC	IC	E	IC	IC
16 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
18 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
20 Jan 2020	E	ns	ns	ns	ns	E	ns	ns
21 Jan 2020	E	E	ns	IC	IC	ns	ns	IC
23 Jan 2020	IC	E	IC	ns	ns	IC	IC	ns
25 Jan 2020	ns	ns	ns	ns	ns	ns	ns	ns
27 Jan 2020	ns	IC	ns	ns	ns	ns	ns	ns
28 Jan 2020	ns	ns	IC	IC	IC	ns	IC	IC
30 Jan 2020	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2020	2182*	231*	36*	12*	59*	5*	1931*
02 Jan 2020	2906	528	92	50	88	10	2025
03 Jan 2020	2906	528	92	50	88	10	2025
04 Jan 2020	2906	528	92	50	88	10	2025
05 Jan 2020	2906	528	92	50	88	10	2025
06 Jan 2020	2906	528	92	50	88	10	2025
07 Jan 2020	3696	278	62	55	41	7	1659
08 Jan 2020	4896	129	39	51	17	6	1073
09 Jan 2020	4896	129	39	51	17	6	1073
10 Jan 2020	4896	129	39	51	17	6	1073
11 Jan 2020	4896	129	39	51	17	6	1073
12 Jan 2020	4896	129	39	51	17	6	1073
13 Jan 2020	5197	314	116	49	12	10	1573
14 Jan 2020	5197	314	116	49	12	10	1573
15 Jan 2020	5572	625	222	70	11	15	3083
16 Jan 2020	5572	625	222	70	11	15	3083
17 Jan 2020	5572	625	222	70	11	15	3083
18 Jan 2020	5572	625	222	70	11	15	3083
19 Jan 2020	5572	625	222	70	11	15	3083
20 Jan 2020	5572	625	222	70	11	15	3083
21 Jan 2020	5584	1710	147	114	11	20	3315
22 Jan 2020	5584	1710	147	114	11	20	3315
23 Jan 2020	5584	1710	147	114	11	20	3315
24 Jan 2020	5584	1710	147	114	11	20	3315
25 Jan 2020	5584	1710	147	114	11	20	3315
26 Jan 2020	5584	1710	147	114	11	20	3315
27 Jan 2020	5584	1710	147	114	11	20	3315
28 Jan 2020	4367	585	92	67	10	13	1077
29 Jan 2020	4367	585	92	67	10	13	1077
30 Jan 2020	4367	585	92	67	10	13	1077
31 Jan 2020	4367	585	92	67	10	13	1077

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2020	391*	58*	5*	4*	7*	2*	437*
02 Jan 2020	541	118	14	13	12	3	400
03 Jan 2020	541	118	14	13	12	3	400
04 Jan 2020	541	118	14	13	12	3	400
05 Jan 2020	541	118	14	13	12	3	400
06 Jan 2020	541	118	14	13	12	3	400
07 Jan 2020	651	60	10	13	8	3	331
08 Jan 2020	898	21	7	12	5	3	172
09 Jan 2020	898	21	7	12	5	3	172
10 Jan 2020	898	21	7	12	5	3	172
11 Jan 2020	898	21	7	12	5	3	172
12 Jan 2020	898	21	7	12	5	3	172
13 Jan 2020	948	48	19	10	4	4	223
14 Jan 2020	948	48	19	10	4	4	223
15 Jan 2020	971	106	33	16	5	5	609
16 Jan 2020	971	106	33	16	5	5	609
17 Jan 2020	971	106	33	16	5	5	609
18 Jan 2020	971	106	33	16	5	5	609
19 Jan 2020	971	106	33	16	5	5	609
20 Jan 2020	971	106	33	16	5	5	609
21 Jan 2020	895	200	33	16	5	5	503
22 Jan 2020	895	200	33	16	5	5	503
23 Jan 2020	895	200	33	16	5	5	503
24 Jan 2020	895	200	33	16	5	5	503
25 Jan 2020	895	200	33	16	5	5	503
26 Jan 2020	895	200	33	16	5	5	503
27 Jan 2020	895	200	33	16	5	5	503
28 Jan 2020	697	80	19	10	4	5	167
29 Jan 2020	697	80	19	10	4	5	167
30 Jan 2020	697	80	19	10	4	5	167
31 Jan 2020	697	80	19	10	4	5	167

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2020	176*	43*	5*	3*	12*	3*	1074*
02 Jan 2020	212	69	12	12	29	3	693
03 Jan 2020	212	69	12	12	29	3	693
04 Jan 2020	212	69	12	12	29	3	693
05 Jan 2020	212	69	12	12	29	3	693
06 Jan 2020	212	69	12	12	29	3	693
07 Jan 2020	243	65	16	20	17	3	367
08 Jan 2020	272	26	13	25	11	3	195
09 Jan 2020	272	26	13	25	11	3	195
10 Jan 2020	272	26	13	25	11	3	195
11 Jan 2020	272	26	13	25	11	3	195
12 Jan 2020	272	26	13	25	11	3	195
13 Jan 2020	260	43	20	24	8	3	166
14 Jan 2020	260	43	20	24	8	3	166
15 Jan 2020	262	93	35	44	10	4	214
16 Jan 2020	262	93	35	44	10	4	214
17 Jan 2020	262	93	35	44	10	4	214
18 Jan 2020	262	93	35	44	10	4	214
19 Jan 2020	262	93	35	44	10	4	214
20 Jan 2020	262	93	35	44	10	4	214
21 Jan 2020	244	251	40	116	8	4	133
22 Jan 2020	244	251	40	116	8	4	133
23 Jan 2020	244	251	40	116	8	4	133
24 Jan 2020	244	251	40	116	8	4	133
25 Jan 2020	244	251	40	116	8	4	133
26 Jan 2020	244	251	40	116	8	4	133
27 Jan 2020	244	251	40	116	8	4	133
28 Jan 2020	198	116	28	73	6	3	68
29 Jan 2020	198	116	28	73	6	3	68
30 Jan 2020	198	116	28	73	6	3	68
31 Jan 2020	198	116	28	73	6	3	68

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2020	E	IC	IC	IC	IC	IC	IC
07 Jan 2020	E	IC	IC	IC	IC	IC	IC
13 Jan 2020	E	E	E	IC	IC	IC	E
21 Jan 2020	IC	E	IC	IC	IC	IC	E
28 Jan 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2020	E	E	E	E	IC	IC	IC
07 Jan 2020	E	IC	IC	IC	IC	IC	IC
13 Jan 2020	E	E	E	IC	IC	IC	E
21 Jan 2020	E	E	IC	IC	IC	IC	E
28 Jan 2020	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2020	E	E	E	E	E	IC	E
07 Jan 2020	E	IC	IC	E	IC	IC	IC
13 Jan 2020	E	E	E	IC	IC	IC	E
21 Jan 2020	E	E	IC	E	IC	IC	E
28 Jan 2020	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2020	E	E	E	E	IC	IC	E
07 Jan 2020	E	IC	IC	IC	IC	IC	E
13 Jan 2020	E	E	E	IC	IC	IC	E
21 Jan 2020	E	IC	IC	IC	IC	IC	E
28 Jan 2020	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

February 2020

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2020	4495	2149	29	6*	6*	3693	22	4*
02 Feb 2020	4495	1720	29	6*	6*	3693	22	4*
03 Feb 2020	4495	1720	29	6*	6*	3693	22	4*
04 Feb 2020	4997	1057	27	8	8	4173	26	3
05 Feb 2020	5041	1057	27	8	8	4627	26	3
06 Feb 2020	4882	1735	29	11*	11*	4855	34	4*
07 Feb 2020	4459	1735	29	11*	11*	4360	34	4*
08 Feb 2020	4463	1735	29	11*	11*	4223	34	4*
09 Feb 2020	4784	1735	29	11*	11*	4655	34	4*
10 Feb 2020	4499	1735	29	11*	11*	4628	34	4*
11 Feb 2020	4769	2170	50	12	8	5010	88	4
12 Feb 2020	4706	2650	50	12	8	4298	79	4
13 Feb 2020	4235	3235	72	19*	11*	3975	146	4*
14 Feb 2020	4235	3796	72	19*	11*	3975	146	4*
15 Feb 2020	3708	3796	72	19*	11*	3502	146	4*
16 Feb 2020	3708	4327	72	19*	11*	3502	146	4*
17 Feb 2020	3152	4327	72	19*	11*	3008	146	4*
18 Feb 2020	3468	4825	144	12	10	3502	262	4
19 Feb 2020	3581	4825	144	12	10	3008	262	4
20 Feb 2020	2970	4825	43	11*	8*	2047	92	4*
21 Feb 2020	2970	3713	43	11*	8*	2047	92	4*
22 Feb 2020	3027	3287	79	11*	8*	2193	175	4*
23 Feb 2020	3027	3287	79	11*	8*	2193	175	4*
24 Feb 2020	3027	3244	79	11*	8*	2193	175	4*
25 Feb 2020	3596	2688	51	8	6	2351	92	4
26 Feb 2020	3596	2941	51	8	6	2351	92	4
27 Feb 2020	7604	2483	62	6*	5*	5175	119	3*
28 Feb 2020	6134	2483	62	6*	5*	5276	119	3*
29 Feb 2020	6134	3755	62	6*	5*	5276	119	3*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2020	1003	748	12	2*	4*	678	7	2*
02 Feb 2020	1003	549	12	2*	4*	678	7	2*
03 Feb 2020	1003	549	12	2*	4*	678	7	2*
04 Feb 2020	1233	349	9	2	4	861	6	2
05 Feb 2020	1339	349	9	2	4	1054	6	2
06 Feb 2020	1398	609	12	2*	4*	1068	7	2*
07 Feb 2020	1242	609	12	2*	4*	998	7	2*
08 Feb 2020	1230	609	12	2*	4*	999	7	2*
09 Feb 2020	1286	609	12	2*	4*	1120	7	2*
10 Feb 2020	1192	609	12	2*	4*	1190	7	2*
11 Feb 2020	1156	644	16	2	4	1191	16	2
12 Feb 2020	998	862	16	2	4	1067	20	2
13 Feb 2020	906	1273	18	2*	4*	1013	29	2*
14 Feb 2020	906	1593	18	2*	4*	1013	29	2*
15 Feb 2020	716	1593	18	2*	4*	809	29	2*
16 Feb 2020	716	1914	18	2*	4*	809	29	2*
17 Feb 2020	592	1914	18	2*	4*	618	29	2*
18 Feb 2020	571	2230	37	2	4	778	53	2
19 Feb 2020	592	2230	37	2	4	708	53	2
20 Feb 2020	453	2284	12	2*	2*	499	21	2*
21 Feb 2020	453	1731	12	2*	2*	499	21	2*
22 Feb 2020	502	1473	14	2*	2*	743	30	2*
23 Feb 2020	502	1473	14	2*	2*	743	30	2*
24 Feb 2020	502	1501	14	2*	2*	743	30	2*
25 Feb 2020	591	1003	10	2	2	791	21	2
26 Feb 2020	591	1162	10	2	2	791	21	2
27 Feb 2020	1234	949	14	2*	2*	1835	30	2*
28 Feb 2020	1091	949	14	2*	2*	1813	30	2*
29 Feb 2020	1091	1494	14	2*	2*	1813	30	2*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2020	392	690	42	2*	2*	446	34	2*
02 Feb 2020	392	503	29	2*	2*	446	24	2*
03 Feb 2020	392	503	29	2*	2*	446	24	2*
04 Feb 2020	497	298	17	2	2	587	17	3
05 Feb 2020	573	432	17	2	2	741	17	3
06 Feb 2020	586	569	18	2*	2*	803	20	3*
07 Feb 2020	552	672	18	2*	2*	702	20	3*
08 Feb 2020	556	672	18	2*	2*	720	20	3*
09 Feb 2020	636	851	18	2*	2*	818	20	3*
10 Feb 2020	616	851	18	2*	2*	906	20	3*
11 Feb 2020	616	897	23	3	2	937	35	3
12 Feb 2020	557	1095	23	3	2	899	32	3
13 Feb 2020	575	1407	32	3*	2*	996	33	3*
14 Feb 2020	575	1659	32	3*	2*	996	33	3*
15 Feb 2020	493	1659	32	3*	2*	795	33	3*
16 Feb 2020	493	1911	32	3*	2*	795	33	3*
17 Feb 2020	430	1911	32	3*	2*	606	33	3*
18 Feb 2020	456	2160	51	3	2	744	47	3
19 Feb 2020	492	2160	51	3	2	715	47	3
20 Feb 2020	403	2369	21	3*	2*	542	23	3*
21 Feb 2020	333	1966	21	3*	2*	433	23	3*
22 Feb 2020	355	1743	21	3*	2*	502	29	3*
23 Feb 2020	355	1768	21	3*	2*	502	29	3*
24 Feb 2020	351	1974	21	3*	2*	502	29	3*
25 Feb 2020	340	1461	14	3	2	440	22	3
26 Feb 2020	322	1757	14	3	2	440	22	3
27 Feb 2020	566	1691	14	3*	2*	728	29	3*
28 Feb 2020	527	1691	14	3*	2*	768	29	3*
29 Feb 2020	527	2331	14	3*	2*	768	29	3*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
05 Feb 2020	IC	ns	ns	ns	ns	E	ns	ns
07 Feb 2020	IC	ns	ns	ns	ns	IC	ns	ns
09 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
11 Feb 2020	IC	E	IC	IC	IC	E	E	IC
12 Feb 2020	ns	E	ns	ns	ns	IC	IC	ns
14 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
18 Feb 2020	IC	E	IC	IC	IC	E	IC	IC
20 Feb 2020	ns	E	IC	ns	ns	IC	IC	ns
21 Feb 2020	ns	IC	ns	ns	ns	ns	ns	ns
25 Feb 2020	E	IC	IC	IC	IC	IC	IC	IC
27 Feb 2020	IC	ns	ns	ns	ns	E	ns	ns
28 Feb 2020	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
05 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
07 Feb 2020	IC	ns	ns	ns	ns	E	ns	ns
09 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
11 Feb 2020	E	E	IC	IC	IC	E	E	IC
12 Feb 2020	IC	E	ns	ns	ns	IC	IC	ns
14 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
18 Feb 2020	IC	E	E	IC	IC	E	E	IC
20 Feb 2020	ns	E	IC	ns	ns	IC	IC	ns
21 Feb 2020	ns	IC	ns	ns	ns	ns	ns	ns
25 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
27 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
28 Feb 2020	IC	ns	ns	ns	ns	E	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Feb 2020	E	E	IC	IC	IC	E	IC	IC
05 Feb 2020	E	E	ns	ns	ns	E	ns	ns
07 Feb 2020	E	E	ns	ns	ns	E	ns	ns
09 Feb 2020	E	E	ns	ns	ns	E	ns	ns
11 Feb 2020	E	E	IC	IC	IC	E	E	IC
12 Feb 2020	IC	E	ns	ns	ns	IC	IC	ns
14 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
18 Feb 2020	E	E	E	IC	IC	E	E	IC
20 Feb 2020	E	E	IC	ns	ns	E	IC	ns
21 Feb 2020	IC	E	ns	ns	ns	IC	ns	ns
23 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
25 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
27 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
28 Feb 2020	E	ns	ns	ns	ns	E	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
05 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
07 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
09 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
11 Feb 2020	IC	IC	IC	IC	IC	IC	IC	IC
12 Feb 2020	ND	E	ns	ns	ns	IC	IC	ns
14 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
18 Feb 2020	IC	E	E	IC	IC	E	E	IC
20 Feb 2020	ns	E	IC	ns	ns	IC	IC	ns
21 Feb 2020	ns	IC	ns	ns	ns	ns	ns	ns
25 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
27 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
28 Feb 2020	E	ns	ns	ns	ns	E	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2020	3900*	322*	46*	26*	4*	7*	888*
02 Feb 2020	3900*	322*	46*	26*	4*	7*	888*
03 Feb 2020	3900*	322*	46*	26*	4*	7*	888*
04 Feb 2020	3900*	322*	46*	26*	4*	7*	888*
05 Feb 2020	3958	154	32	15	4	6	823
06 Feb 2020	3166*	252*	41*	10*	4*	7*	843*
07 Feb 2020	3166*	252*	41*	10*	4*	7*	843*
08 Feb 2020	3166*	252*	41*	10*	4*	7*	843*
09 Feb 2020	3166*	252*	41*	10*	4*	7*	843*
10 Feb 2020	1859	248	48	27	14	6	955
11 Feb 2020	1859	248	48	27	14	6	955
12 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
13 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
14 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
15 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
16 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
17 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
18 Feb 2020	1944	125	12	19	13	3	761
19 Feb 2020	1944	125	12	19	13	3	761
20 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
21 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
22 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
23 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
24 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
25 Feb 2020	1373	26	11	13	10	2	188
26 Feb 2020	1373	26	11	13	10	2	188
27 Feb 2020	1314*	34*	11*	15*	11*	2*	373*
28 Feb 2020	1314*	34*	11*	15*	11*	2*	373*
29 Feb 2020	1314*	34*	11*	15*	11*	2*	373*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2020	583*	43*	9*	4*	2*	4*	143*
02 Feb 2020	583*	43*	9*	4*	2*	4*	143*
03 Feb 2020	583*	43*	9*	4*	2*	4*	143*
04 Feb 2020	583*	43*	9*	4*	2*	4*	143*
05 Feb 2020	636	23	7	3	2	3	151
06 Feb 2020	525*	36*	9*	3*	2*	4*	150*
07 Feb 2020	525*	36*	9*	3*	2*	4*	150*
08 Feb 2020	525*	36*	9*	3*	2*	4*	150*
09 Feb 2020	525*	36*	9*	3*	2*	4*	150*
10 Feb 2020	312	50	9	8	6	3	181
11 Feb 2020	312	50	9	8	6	3	181
12 Feb 2020	223*	22*	3*	8*	8*	2*	133*
13 Feb 2020	223*	22*	3*	8*	8*	2*	133*
14 Feb 2020	223*	22*	3*	8*	8*	2*	133*
15 Feb 2020	223*	22*	3*	8*	8*	2*	133*
16 Feb 2020	223*	22*	3*	8*	8*	2*	133*
17 Feb 2020	223*	22*	3*	8*	8*	2*	133*
18 Feb 2020	352	28	3	8	6	2	176
19 Feb 2020	352	28	3	8	6	2	176
20 Feb 2020	372*	15*	3*	11*	8*	2*	95*
21 Feb 2020	372*	15*	3*	11*	8*	2*	95*
22 Feb 2020	372*	15*	3*	11*	8*	2*	95*
23 Feb 2020	372*	15*	3*	11*	8*	2*	95*
24 Feb 2020	372*	15*	3*	11*	8*	2*	95*
25 Feb 2020	265	10	3	8	6	2	46
26 Feb 2020	265	10	3	8	6	2	46
27 Feb 2020	267*	15*	3*	11*	8*	2*	102*
28 Feb 2020	267*	15*	3*	11*	8*	2*	102*
29 Feb 2020	267*	15*	3*	11*	8*	2*	102*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2020	169*	93*	18*	42*	2*	3*	53*
02 Feb 2020	169*	93*	18*	42*	2*	3*	53*
03 Feb 2020	169*	93*	18*	42*	2*	3*	53*
04 Feb 2020	169*	93*	18*	42*	2*	3*	53*
05 Feb 2020	203	48	16	29	2	3	74
06 Feb 2020	169*	47*	12*	19*	2*	3*	95*
07 Feb 2020	169*	47*	12*	19*	2*	3*	95*
08 Feb 2020	169*	47*	12*	19*	2*	3*	95*
09 Feb 2020	169*	47*	12*	19*	2*	3*	95*
10 Feb 2020	116	47	14	39	6	3	117
11 Feb 2020	116	47	14	39	6	3	117
12 Feb 2020	100*	29*	8*	46*	8*	2*	126*
13 Feb 2020	100*	29*	8*	46*	8*	2*	126*
14 Feb 2020	100*	29*	8*	46*	8*	2*	126*
15 Feb 2020	100*	29*	8*	46*	8*	2*	126*
16 Feb 2020	100*	29*	8*	46*	8*	2*	126*
17 Feb 2020	100*	29*	8*	46*	8*	2*	126*
18 Feb 2020	148	28	7	34	6	2	167
19 Feb 2020	148	28	7	34	6	2	167
20 Feb 2020	161*	12*	8*	26*	8*	2*	118*
21 Feb 2020	161*	12*	8*	26*	8*	2*	118*
22 Feb 2020	161*	12*	8*	26*	8*	2*	118*
23 Feb 2020	161*	12*	8*	26*	8*	2*	118*
24 Feb 2020	161*	12*	8*	26*	8*	2*	118*
25 Feb 2020	71	8	6	16	6	2	65
26 Feb 2020	71	8	6	16	6	2	65
27 Feb 2020	68*	9*	6*	17*	8*	2*	126*
28 Feb 2020	68*	9*	6*	17*	8*	2*	126*
29 Feb 2020	68*	9*	6*	17*	8*	2*	126*

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Feb 2020	IC	IC	IC	IC	IC	IC	IC
10 Feb 2020	IC	IC	IC	IC	IC	IC	IC
18 Feb 2020	E	IC	IC	IC	IC	IC	IC
25 Feb 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Feb 2020	E	IC	IC	IC	IC	IC	E
10 Feb 2020	IC	E	IC	E	E	IC	E
18 Feb 2020	E	IC	IC	IC	IC	IC	E
25 Feb 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Feb 2020	E	IC	IC	IC	IC	IC	E
10 Feb 2020	IC	IC	IC	E	E	IC	E
18 Feb 2020	E	IC	IC	IC	IC	IC	E
25 Feb 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
05 Feb 2020	E	IC	IC	IC	IC	IC	E
10 Feb 2020	IC	IC	IC	E	E	IC	E
18 Feb 2020	E	IC	IC	IC	IC	IC	E
25 Feb 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

March 2020

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2020	3228	3755	62	6*	5*	3286	119	3*
02 Mar 2020	3228	3755	62	6*	5*	3286	119	3*
03 Mar 2020	3734	4340	69	5	4	3712	73	3
04 Mar 2020	3734	4340	69	5	4	3712	73	3
05 Mar 2020	3544	6727	89	3*	3*	3505	76	3*
06 Mar 2020	3385	6727	89	3*	3*	3088	76	3*
07 Mar 2020	3898	7279	89	3*	3*	3505	76	3*
08 Mar 2020	4289	7279	89	3*	3*	3833	76	3*
09 Mar 2020	4834	7121	89	3*	3*	4210	76	3*
10 Mar 2020	4176	7579	201	18	7	3738	152	16
11 Mar 2020	4176	7579	201	18	7	3738	152	16
12 Mar 2020	3128	7701	329	67	10*	3149	161	84
13 Mar 2020	3128	7246	329	67	10*	3616	203	84
14 Mar 2020	3128	7701	573	166	10*	3616	378	201
15 Mar 2020	3128	7246	573	166	10*	3616	378	201
16 Mar 2020	3128	7701	869	145	10*	3616	604	341
17 Mar 2020	3584	7701	1201	257	20	4054	869	552
18 Mar 2020	3584	7701	1201	257	20	4054	869	552
19 Mar 2020	3790	7701	838	342	27*	4054	600	875
20 Mar 2020	3981	7899	838	342	27*	4271	600	875
21 Mar 2020	3981	7482	1783	342	27*	5189	1067	875
22 Mar 2020	3494	8615	1783	342	27*	4532	1067	875
23 Mar 2020	3494	8615	1783	342	27*	4532	1067	875
24 Mar 2020	2820	9004	2275	525	46	3514	1441	1209
25 Mar 2020	2820	9004	2275	525	46	3514	1441	1209
26 Mar 2020	2542	8669	3110	567	101*	3459	2272	1686
27 Mar 2020	2542	8669	3110	567	101*	3459	2272	1686
28 Mar 2020	2328	8669	3110	567	101*	3074	2272	1686
29 Mar 2020	2478	8669	3110	567	101*	2892	2272	1686
30 Mar 2020	2860	9031	2827	360	61	3299	1763	860
31 Mar 2020	4582	9031	2827	360	61	5092	1763	860

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2020	655	1494	14	2*	2*	1126	30	2*
02 Mar 2020	655	1494	14	2*	2*	1126	30	2*
03 Mar 2020	835	1840	13	2	2	1351	21	2
04 Mar 2020	835	1840	13	2	2	1351	21	2
05 Mar 2020	689	2771	19	2*	2*	1116	30	2*
06 Mar 2020	593	2771	19	2*	2*	916	30	2*
07 Mar 2020	762	3166	19	2*	2*	1116	30	2*
08 Mar 2020	829	3166	19	2*	2*	1206	30	2*
09 Mar 2020	960	2876	19	2*	2*	1317	30	2*
10 Mar 2020	876	3001	45	9	5	1155	61	11
11 Mar 2020	876	3001	45	9	5	1155	61	11
12 Mar 2020	691	3633	108	37	6*	950	91	65
13 Mar 2020	816	3289	108	37	6*	1129	93	65
14 Mar 2020	816	3633	211	98	6*	1129	187	155
15 Mar 2020	816	3289	211	98	6*	1129	187	155
16 Mar 2020	816	3633	311	68	6*	1129	314	216
17 Mar 2020	939	3633	466	93	9	1287	471	262
18 Mar 2020	939	3633	466	93	9	1287	471	262
19 Mar 2020	1247	3633	296	93	13*	1330	333	320
20 Mar 2020	1205	3356	296	93	13*	1293	333	320
21 Mar 2020	1205	3043	552	93	13*	1563	631	320
22 Mar 2020	986	3240	552	93	13*	1229	631	320
23 Mar 2020	986	3240	552	93	13*	1229	631	320
24 Mar 2020	760	3018	717	119	16	903	664	462
25 Mar 2020	760	3018	717	119	16	903	664	462
26 Mar 2020	705	3738	945	119	27*	875	867	522
27 Mar 2020	705	3738	945	119	27*	875	867	522
28 Mar 2020	630	3738	945	119	27*	731	867	522
29 Mar 2020	660	3738	945	119	27*	685	867	522
30 Mar 2020	825	4040	769	84	16	854	595	299
31 Mar 2020	1287	4040	769	84	16	1291	595	299

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2020	373	2331	14	3*	2*	565	29	3*
02 Mar 2020	373	2331	14	3*	2*	565	29	3*
03 Mar 2020	478	2620	14	3	2	702	23	3
04 Mar 2020	478	2620	14	3	2	702	23	3
05 Mar 2020	375	3664	19	3*	2*	502	29	2*
06 Mar 2020	311	3344	19	3*	2*	394	29	2*
07 Mar 2020	392	3595	19	3*	2*	496	29	2*
08 Mar 2020	408	3645	19	3*	2*	546	29	2*
09 Mar 2020	433	3180	19	3*	2*	564	29	2*
10 Mar 2020	376	3041	45	11	6	512	53	13
11 Mar 2020	376	3041	45	11	6	512	53	13
12 Mar 2020	338	3246	108	22	6	449	82	61
13 Mar 2020	399	2936	108	22	6	537	106	61
14 Mar 2020	431	3246	211	54	6	553	208	136
15 Mar 2020	431	2936	211	54	6	553	208	136
16 Mar 2020	331	3246	250	37	6	440	341	134
17 Mar 2020	370	3246	384	49	7	510	506	158
18 Mar 2020	370	3246	384	49	7	510	506	158
19 Mar 2020	423	3246	274	49	9	534	413	188
20 Mar 2020	448	3001	274	49	9	548	413	188
21 Mar 2020	468	2718	507	49	9	584	701	188
22 Mar 2020	475	2663	507	49	9	590	701	188
23 Mar 2020	475	2663	507	49	9	590	701	188
24 Mar 2020	396	2454	546	55	7	458	655	231
25 Mar 2020	396	2454	546	55	7	458	655	231
26 Mar 2020	409	2743	616	55	9	498	774	269
27 Mar 2020	409	2743	616	55	9	498	774	269
28 Mar 2020	385	2743	616	55	9	475	774	269
29 Mar 2020	398	2743	616	55	9	440	774	269
30 Mar 2020	478	3026	428	39	9	548	547	165
31 Mar 2020	654	3026	428	39	9	712	547	165

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2020	IC	ns	ns	ns	ns	IC	ns	ns
03 Mar 2020	E	E	IC	IC	IC	E	IC	IC
05 Mar 2020	IC	E	ns	ns	ns	IC	ns	ns
07 Mar 2020	E	E	ns	ns	ns	E	ns	ns
09 Mar 2020	E	IC	ns	ns	ns	E	ns	ns
10 Mar 2020	IC	E	E	E	IC	IC	IC	E
12 Mar 2020	IC	E	E	E	ns	IC	E	E
14 Mar 2020	ns	E	E	E	ns	ns	E	E
16 Mar 2020	ns	E	E	IC	ns	ns	E	IC
17 Mar 2020	E	E	E	E	IC	E	E	E
19 Mar 2020	E	E	IC	IC	ns	E	IC	IC
20 Mar 2020	IC	E	ns	ns	ns	IC	ns	ns
22 Mar 2020	IC	IC	ns	ns	ns	IC	ns	ns
24 Mar 2020	IC	E	E	E	IC	IC	E	E
26 Mar 2020	ns	IC	IC	IC	ns	ns	IC	IC
30 Mar 2020	E	E	IC	IC	IC	E	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2020	IC	ns	ns	ns	ns	IC	ns	ns
03 Mar 2020	E	E	IC	IC	IC	E	IC	IC
05 Mar 2020	E	E	ns	ns	ns	E	ns	ns
07 Mar 2020	E	E	ns	ns	ns	E	ns	ns
09 Mar 2020	E	E	ns	ns	ns	E	ns	ns
10 Mar 2020	E	E	E	E	IC	E	E	E
12 Mar 2020	IC	E	E	E	ns	IC	E	E
14 Mar 2020	ns	E	E	E	ns	ns	E	E
16 Mar 2020	ns	E	E	IC	ns	ns	E	E
17 Mar 2020	E	E	E	E	IC	E	E	E
19 Mar 2020	E	E	IC	IC	ns	E	IC	IC
20 Mar 2020	E	E	ns	ns	ns	E	ns	ns
22 Mar 2020	IC	IC	ns	ns	ns	IC	ns	ns
24 Mar 2020	IC	E	E	E	IC	IC	E	E
26 Mar 2020	ns	IC	IC	IC	ns	ns	IC	IC
30 Mar 2020	E	E	IC	IC	IC	E	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2020	IC	ns	ns	ns	ns	IC	ns	ns
03 Mar 2020	E	E	IC	IC	IC	E	IC	IC
05 Mar 2020	E	E	ns	ns	ns	E	ns	ns
07 Mar 2020	E	E	ns	ns	ns	E	ns	ns
09 Mar 2020	E	E	ns	ns	ns	E	ns	ns
10 Mar 2020	E	E	E	E	E	E	E	E
12 Mar 2020	E	E	E	E	IC	E	E	E
14 Mar 2020	E	E	E	E	ns	E	E	E
16 Mar 2020	IC	E	E	IC	ns	IC	E	E
17 Mar 2020	E	E	E	E	IC	E	E	E
19 Mar 2020	E	E	IC	IC	ns	E	IC	IC
20 Mar 2020	E	E	ns	ns	ns	E	ns	ns
22 Mar 2020	IC	IC	ns	ns	ns	IC	ns	ns
24 Mar 2020	IC	E	E	E	IC	IC	E	E
26 Mar 2020	ns	IC	IC	IC	ns	ns	IC	IC
30 Mar 2020	E	E	IC	IC	IC	E	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2020	IC	ns	ns	ns	ns	IC	ns	ns
03 Mar 2020	E	E	IC	IC	IC	E	IC	IC
05 Mar 2020	E	E	ns	ns	ns	E	ns	ns
07 Mar 2020	E	E	ns	ns	ns	E	ns	ns
09 Mar 2020	E	E	ns	ns	ns	E	ns	ns
10 Mar 2020	E	E	E	E	IC	E	E	E
12 Mar 2020	IC	E	E	E	ns	IC	E	E
14 Mar 2020	ns	E	E	E	ns	ns	E	E
16 Mar 2020	ns	E	E	IC	ns	ns	E	E
17 Mar 2020	E	E	E	IC	IC	E	E	IC
19 Mar 2020	E	E	IC	IC	ns	E	IC	IC
20 Mar 2020	E	E	ns	ns	ns	E	ns	ns
22 Mar 2020	IC	IC	ns	ns	ns	IC	ns	ns
24 Mar 2020	IC	IC	E	IC	IC	IC	IC	E
26 Mar 2020	ns	IC	IC	IC	ns	ns	IC	IC
30 Mar 2020	E	E	IC	IC	IC	E	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2020	1314*	34*	11*	15*	11*	2*	373*
02 Mar 2020	1314*	34*	11*	15*	11*	2*	373*
03 Mar 2020	1314*	34*	11*	15*	11*	2*	373*
04 Mar 2020	1314*	34*	11*	15*	11*	2*	373*
05 Mar 2020	2013	22	8	10	8	2	192
06 Mar 2020	1675*	29*	8*	15*	11*	2*	144*
07 Mar 2020	1675*	29*	8*	15*	11*	2*	144*
08 Mar 2020	1675*	29*	8*	15*	11*	2*	144*
09 Mar 2020	806	51	19	10	8	4	158
10 Mar 2020	806	51	19	10	8	4	158
11 Mar 2020	1115*	35*	13*	3*	2*	4*	89*
12 Mar 2020	1115*	35*	13*	3*	2*	4*	89*
13 Mar 2020	1115*	35*	13*	3*	2*	4*	89*
14 Mar 2020	1115*	35*	13*	3*	2*	4*	89*
15 Mar 2020	1115*	35*	13*	3*	2*	4*	89*
16 Mar 2020	512	101	47	6	7	12	207
17 Mar 2020	512	101	47	6	7	12	207
18 Mar 2020	512	101	47	6	7	12	207
19 Mar 2020	255*	73*	70*	6*	10*	19*	113*
20 Mar 2020	255*	73*	70*	6*	10*	19*	113*
21 Mar 2020	255*	73*	70*	6*	10*	19*	113*
22 Mar 2020	255*	73*	70*	6*	10*	19*	113*
23 Mar 2020	255*	73*	70*	6*	10*	19*	113*
24 Mar 2020	152	146	153	17	37	58	234
25 Mar 2020	152	146	153	17	37	58	234
26 Mar 2020	120*	426*	453*	29*	76*	134*	533*
27 Mar 2020	120*	426*	453*	29*	76*	134*	533*
28 Mar 2020	120*	426*	453*	29*	76*	134*	533*
29 Mar 2020	120*	426*	453*	29*	76*	134*	533*
30 Mar 2020	120*	426*	453*	29*	76*	134*	533*
31 Mar 2020	120*	426*	453*	29*	76*	134*	533*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2020	267*	15*	3*	11*	8*	2*	102*
02 Mar 2020	267*	15*	3*	11*	8*	2*	102*
03 Mar 2020	267*	15*	3*	11*	8*	2*	102*
04 Mar 2020	267*	15*	3*	11*	8*	2*	102*
05 Mar 2020	474	10	3	8	6	2	51
06 Mar 2020	403*	15*	3*	11*	8*	2*	37*
07 Mar 2020	403*	15*	3*	11*	8*	2*	37*
08 Mar 2020	403*	15*	3*	11*	8*	2*	37*
09 Mar 2020	208	22	6	8	6	3	48
10 Mar 2020	208	22	6	8	6	3	48
11 Mar 2020	317*	13*	6*	3*	2*	3*	29*
12 Mar 2020	317*	13*	6*	3*	2*	3*	29*
13 Mar 2020	317*	13*	6*	3*	2*	3*	29*
14 Mar 2020	317*	13*	6*	3*	2*	3*	29*
15 Mar 2020	317*	13*	6*	3*	2*	3*	29*
16 Mar 2020	127	40	21	5	5	6	72
17 Mar 2020	127	40	21	5	5	6	72
18 Mar 2020	127	40	21	5	5	6	72
19 Mar 2020	63*	35*	33*	4*	7*	8*	43*
20 Mar 2020	63*	35*	33*	4*	7*	8*	43*
21 Mar 2020	63*	35*	33*	4*	7*	8*	43*
22 Mar 2020	63*	35*	33*	4*	7*	8*	43*
23 Mar 2020	63*	35*	33*	4*	7*	8*	43*
24 Mar 2020	42	54	56	11	20	22	66
25 Mar 2020	42	54	56	11	20	22	66
26 Mar 2020	37*	122*	129*	17*	35*	39*	148*
27 Mar 2020	37*	122*	129*	17*	35*	39*	148*
28 Mar 2020	37*	122*	129*	17*	35*	39*	148*
29 Mar 2020	37*	122*	129*	17*	35*	39*	148*
30 Mar 2020	37*	122*	129*	17*	35*	39*	148*
31 Mar 2020	37*	122*	129*	17*	35*	39*	148*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2020	68*	9*	6*	17*	8*	2*	126*
02 Mar 2020	68*	9*	6*	17*	8*	2*	126*
03 Mar 2020	68*	9*	6*	17*	8*	2*	126*
04 Mar 2020	68*	9*	6*	17*	8*	2*	126*
05 Mar 2020	97	7	5	12	6	2	55
06 Mar 2020	67*	8*	4*	14*	8*	2*	36*
07 Mar 2020	67*	8*	4*	14*	8*	2*	36*
08 Mar 2020	67*	8*	4*	14*	8*	2*	36*
09 Mar 2020	46	13	6	9	6	4	44
10 Mar 2020	46	13	6	9	6	4	44
11 Mar 2020	54*	9*	4*	3*	2*	4*	27*
12 Mar 2020	54*	9*	4*	3*	2*	4*	27*
13 Mar 2020	54*	9*	4*	3*	2*	4*	27*
14 Mar 2020	54*	9*	4*	3*	2*	4*	27*
15 Mar 2020	54*	9*	4*	3*	2*	4*	27*
16 Mar 2020	34	19	10	3	4	5	42
17 Mar 2020	34	19	10	3	4	5	42
18 Mar 2020	34	19	10	3	4	5	42
19 Mar 2020	16*	18*	14*	3*	4*	7*	23*
20 Mar 2020	16*	18*	14*	3*	4*	7*	23*
21 Mar 2020	16*	18*	14*	3*	4*	7*	23*
22 Mar 2020	16*	18*	14*	3*	4*	7*	23*
23 Mar 2020	16*	18*	14*	3*	4*	7*	23*
24 Mar 2020	15	20	16	4	7	12	36
25 Mar 2020	15	20	16	4	7	12	36
26 Mar 2020	24*	35*	26*	4*	10*	18*	56*
27 Mar 2020	24*	35*	26*	4*	10*	18*	56*
28 Mar 2020	24*	35*	26*	4*	10*	18*	56*
29 Mar 2020	24*	35*	26*	4*	10*	18*	56*
30 Mar 2020	24*	35*	26*	4*	10*	18*	56*
31 Mar 2020	24*	35*	26*	4*	10*	18*	56*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Mar 2020	E	IC	IC	IC	IC	IC	IC
09 Mar 2020	IC	IC	IC	IC	IC	IC	IC
16 Mar 2020	IC	E	E	IC	IC	IC	E
24 Mar 2020	IC	IC	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Mar 2020	E	IC	IC	IC	IC	IC	IC
09 Mar 2020	IC	IC	IC	IC	IC	IC	IC
16 Mar 2020	IC	E	E	IC	IC	E	E
24 Mar 2020	IC	E	E	E	E	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
05 Mar 2020	E	IC	IC	IC	IC	IC	IC
09 Mar 2020	IC	E	IC	IC	IC	IC	E
16 Mar 2020	IC	E	E	IC	IC	IC	E
24 Mar 2020	IC	IC	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
05 Mar 2020	E	IC	IC	IC	IC	IC	IC
09 Mar 2020	IC	IC	E	IC	IC	IC	IC
16 Mar 2020	IC	E	E	IC	E	E	E
24 Mar 2020	IC	IC	E	E	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

April 2020

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2020	4412	9360	2827	360	61	5195	1763	860
02 Apr 2020	3963	9031	4016	641	143*	4730	3468	1686
03 Apr 2020	3511	9360	4016	641	143*	4730	3468	1686
04 Apr 2020	3246	9031	4016	641	143*	4531	3468	1686
05 Apr 2020	3246	9360	4016	641	143*	4531	3468	1686
06 Apr 2020	2808	9031	4016	641	143*	3993	3468	1686
07 Apr 2020	3246	9193	4611	731	252	4531	4040	1914
08 Apr 2020	2808	9502	4611	731	252	4077	4040	1914
09 Apr 2020	3300	9042	4450	523	517	4077	3961	1914
10 Apr 2020	3300	9042	4450	523	517	4077	3961	1914
11 Apr 2020	4614	9042	4450	545	916	4591	3961	1914
12 Apr 2020	4614	9042	4450	545	916	4591	3961	1914
13 Apr 2020	5118	9042	4450	545	667	4591	3961	1914
14 Apr 2020	5093	9370	3620	437	430	4775	4497	1617
15 Apr 2020	5093	9042	3120	541	430	4775	3961	1375
16 Apr 2020	3710	9042	2602	360	453	3302	3961	1047
17 Apr 2020	3710	9370	2602	360	453	3302	4497	1047
18 Apr 2020	3284	9042	3634	544	453	2771	5857	1444
19 Apr 2020	3058	9270	3634	544	453	2412	5359	1444
20 Apr 2020	3058	9270	3634	544	453	2412	5359	1444
21 Apr 2020	4098	11152	3557	393	307	3519	5870	1073
22 Apr 2020	4098	11152	3557	393	307	3519	5870	1073
23 Apr 2020	6304	11152	2231	231	295	6637	4465	766
24 Apr 2020	6776	11407	2231	231	295	7319	4465	766
25 Apr 2020	6776	14936	3288	455	295	7319	6203	1057
26 Apr 2020	5849	15000	3288	455	295	7016	6203	1057
27 Apr 2020	5849	15000	3288	455	295	7016	6203	1057
28 Apr 2020	4971	15057	3920	404	281	5077	6713	985
29 Apr 2020	4543	15000	4546	816	468	4527	9327	2388
30 Apr 2020	4543	15057	3470	816	468	4527	7862	2388

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2020	1162	4325	769	84	16	1207	595	299
02 Apr 2020	956	4040	1277	128	27*	997	1120	522
03 Apr 2020	875	4325	1277	128	27*	933	1120	522
04 Apr 2020	852	4040	1277	128	27*	927	1120	522
05 Apr 2020	852	4325	1277	128	27*	768	1120	522
06 Apr 2020	670	4040	1277	128	27*	611	1120	522
07 Apr 2020	799	3867	1545	167	57	713	1420	583
08 Apr 2020	679	4231	1545	167	57	621	1420	583
09 Apr 2020	776	4029	1380	115	128	561	1242	583
10 Apr 2020	776	4029	1380	115	128	561	1242	583
11 Apr 2020	1240	4029	1380	130	243	660	1242	583
12 Apr 2020	1240	4029	1380	130	243	660	1242	583
13 Apr 2020	1439	4029	1380	125	143	660	1242	525
14 Apr 2020	1451	4314	1038	92	110	724	1458	435
15 Apr 2020	1451	4029	894	121	110	724	1180	382
16 Apr 2020	1011	4029	670	96	120	492	1180	343
17 Apr 2020	1011	4314	670	96	120	492	1458	343
18 Apr 2020	822	4029	1040	166	120	368	1948	534
19 Apr 2020	824	4336	1040	166	120	337	1679	534
20 Apr 2020	824	4336	1040	166	120	337	1679	534
21 Apr 2020	1250	5833	978	127	96	578	1931	366
22 Apr 2020	1250	5833	978	127	96	578	1931	366
23 Apr 2020	2023	6801	521	98	110	1143	1528	247
24 Apr 2020	2304	7047	521	98	110	1415	1528	247
25 Apr 2020	2304	8828	765	187	110	1415	2246	420
26 Apr 2020	2072	8999	765	187	110	1498	2246	420
27 Apr 2020	2072	8999	765	187	110	1498	2246	420
28 Apr 2020	1262	9152	914	139	97	1075	2458	409
29 Apr 2020	1061	8999	1179	252	169	879	3806	874
30 Apr 2020	1061	9152	978	252	169	879	3224	874

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2020	590	3299	428	39	9	675	547	165
02 Apr 2020	476	3026	616	55	12	550	903	269
03 Apr 2020	465	3299	616	55	12	553	903	269
04 Apr 2020	474	3026	616	55	12	621	903	269
05 Apr 2020	457	3299	616	55	12	572	903	269
06 Apr 2020	373	3080	616	55	12	466	903	269
07 Apr 2020	437	3100	798	73	24	534	1126	300
08 Apr 2020	413	3483	798	73	24	516	1126	300
09 Apr 2020	444	3157	687	50	32	490	1087	285
10 Apr 2020	444	3157	687	50	32	490	1087	285
11 Apr 2020	560	3397	687	67	111	613	1087	293
12 Apr 2020	560	3397	687	67	111	613	1087	293
13 Apr 2020	576	3397	634	57	73	673	987	242
14 Apr 2020	579	3675	559	49	47	672	1140	206
15 Apr 2020	786	3397	540	65	47	870	909	217
16 Apr 2020	585	3397	540	54	51	640	909	198
17 Apr 2020	585	3675	715	54	51	640	1149	198
18 Apr 2020	479	3397	997	86	51	510	1533	296
19 Apr 2020	447	3329	972	86	51	490	1475	296
20 Apr 2020	447	3329	972	86	51	490	1475	296
21 Apr 2020	572	4301	917	77	39	667	1525	248
22 Apr 2020	572	4301	917	77	39	667	1525	248
23 Apr 2020	781	4760	839	71	60	1093	1565	203
24 Apr 2020	870	4723	713	71	60	1249	1346	203
25 Apr 2020	870	6220	1061	129	60	1249	1928	323
26 Apr 2020	836	6480	1061	129	60	1214	1995	323
27 Apr 2020	836	6480	1061	129	60	1214	1995	323
28 Apr 2020	774	6720	1095	127	70	1041	2064	334
29 Apr 2020	667	6480	1558	255	96	874	2907	693
30 Apr 2020	809	6720	1447	177	86	1041	2597	585

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2020	IC	E	ns	ns	ns	IC	ns	ns
03 Apr 2020	IC	E	ns	ns	ns	ns	ns	ns
05 Apr 2020	ns	E	ns	ns	ns	ns	ns	ns
07 Apr 2020	E	E	E	IC	IC	E	E	IC
09 Apr 2020	E	IC	IC	ns	E	IC	IC	E
10 Apr 2020	ns	ns	ns	ns	ns	ns	ns	ns
11 Apr 2020	E	E	E	E	E	ns	E	E
13 Apr 2020	E	E	E	E	IC	ns	E	E
14 Apr 2020	IC	E	IC	IC	IC	IC	E	IC
16 Apr 2020	IC	E	ns	ns	ns	IC	E	ns
17 Apr 2020	ns	E	ns	ns	ns	ns	E	ns
19 Apr 2020	ns	E	ns	ns	ns	ns	IC	ns
21 Apr 2020	E	E	IC	IC	IC	E	E	IC
23 Apr 2020	E	E	IC	ns	ns	E	IC	ns
24 Apr 2020	E	E	ns	ns	ns	E	ns	ns
26 Apr 2020	IC	E	ns	ns	ns	IC	ns	ns
28 Apr 2020	IC	E	E	IC	IC	IC	E	IC
30 Apr 2020	ns	E	IC	ns	ns	ns	IC	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2020	IC	E	ns	ns	ns	E	ns	ns
03 Apr 2020	IC	E	ns	ns	ns	E	ns	ns
05 Apr 2020	ns	E	ns	ns	ns	IC	ns	ns
07 Apr 2020	E	E	E	E	E	E	E	E
09 Apr 2020	E	E	E	ns	E	IC	E	E
10 Apr 2020	ns	ns	ns	ns	ns	ns	ns	ns
11 Apr 2020	E	E	E	E	E	ns	E	E
13 Apr 2020	E	E	E	E	IC	ns	E	E
14 Apr 2020	E	E	IC	IC	IC	E	E	IC
16 Apr 2020	IC	E	ns	ns	ns	IC	E	ns
17 Apr 2020	ns	E	ns	ns	ns	ns	E	ns
19 Apr 2020	ns	E	ns	ns	ns	ns	IC	ns
21 Apr 2020	E	E	E	IC	IC	E	E	IC
23 Apr 2020	E	E	IC	ns	ns	E	IC	ns
24 Apr 2020	E	E	ns	ns	ns	E	ns	ns
26 Apr 2020	E	E	ns	ns	ns	E	ns	ns
28 Apr 2020	IC	E	E	IC	IC	IC	E	IC
30 Apr 2020	ns	E	IC	ns	ns	ns	E	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2020	E	E	ns	ns	ns	E	ns	ns
03 Apr 2020	E	E	ns	ns	ns	E	ns	ns
05 Apr 2020	E	E	ns	ns	ns	E	ns	ns
07 Apr 2020	E	E	E	E	E	E	E	E
09 Apr 2020	E	E	E	ns	E	E	E	E
10 Apr 2020	ns	ns	ns	ns	ns	ns	ns	ns
11 Apr 2020	E	E	E	E	E	E	E	E
13 Apr 2020	E	E	E	E	IC	E	E	E
14 Apr 2020	E	E	E	IC	IC	E	E	IC
16 Apr 2020	IC	E	E	ns	ns	IC	E	ns
17 Apr 2020	ns	E	E	ns	ns	ns	E	ns
19 Apr 2020	ns	E	E	ns	ns	ns	E	ns
21 Apr 2020	E	E	E	IC	IC	E	E	IC
23 Apr 2020	E	E	E	ns	ns	E	E	ns
24 Apr 2020	E	E	IC	ns	ns	E	E	ns
26 Apr 2020	E	E	ns	ns	ns	E	E	ns
28 Apr 2020	E	E	E	E	E	E	E	E
30 Apr 2020	E	E	E	IC	IC	E	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2020	E	E	ns	ns	ns	IC	ns	ns
03 Apr 2020	IC	E	ns	ns	ns	ND	ns	ns
05 Apr 2020	ns	E	ns	ns	ns	ND	ns	ns
07 Apr 2020	E	E	E	E	E	E	E	E
09 Apr 2020	E	E	E	ns	E	IC	E	E
11 Apr 2020	E	E	E	E	E	ns	E	E
13 Apr 2020	E	E	E	E	IC	ns	E	E
14 Apr 2020	E	E	IC	IC	IC	E	E	IC
16 Apr 2020	IC	E	ns	ns	ns	IC	E	ns
17 Apr 2020	ns	E	ns	ns	ns	ns	E	ns
19 Apr 2020	ns	E	ns	ns	ns	ns	E	ns
21 Apr 2020	E	E	E	IC	IC	E	E	IC
23 Apr 2020	E	E	IC	ns	ns	E	IC	ns
24 Apr 2020	E	E	ns	ns	ns	E	ns	ns
26 Apr 2020	IC	E	ns	ns	ns	E	ns	ns
28 Apr 2020	IC	E	E	IC	IC	IC	E	IC
30 Apr 2020	ns	E	IC	ns	ns	ns	E	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2020	229	406	153	17	49	58	987
02 Apr 2020	229	406	153	17	49	58	987
03 Apr 2020	229	406	153	17	49	58	987
04 Apr 2020	87*	1288*	422*	29*	108*	124*	2896*
05 Apr 2020	87*	1288*	422*	29*	108*	124*	2896*
06 Apr 2020	87*	1288*	422*	29*	108*	124*	2896*
07 Apr 2020	87*	1288*	422*	29*	108*	124*	2896*
08 Apr 2020	110*	1774*	396*	70*	407*	189*	6706*
09 Apr 2020	110*	1774*	396*	70*	407*	189*	6706*
10 Apr 2020	296*	1584*	448*	113*	1019*	161*	3982*
11 Apr 2020	296*	1584*	448*	113*	1019*	161*	3982*
12 Apr 2020	296*	1584*	448*	113*	1019*	161*	3982*
13 Apr 2020	296*	1584*	448*	113*	1019*	161*	3982*
14 Apr 2020	485	1086	293	86	464	74	4623
15 Apr 2020	1042*	675*	125*	76*	348*	43*	4331*
16 Apr 2020	1042*	675*	125*	76*	348*	43*	4331*
17 Apr 2020	1042*	675*	125*	76*	348*	43*	4331*
18 Apr 2020	1042*	675*	125*	76*	348*	43*	4331*
19 Apr 2020	1042*	675*	125*	76*	348*	43*	4331*
20 Apr 2020	1042*	675*	125*	76*	348*	43*	4331*
21 Apr 2020	1501	1224	121	59	281	34	5057
22 Apr 2020	1501	1224	121	59	281	34	5057
23 Apr 2020	4457*	1045*	52*	28*	132*	10*	5256*
24 Apr 2020	4457*	1045*	52*	28*	132*	10*	5256*
25 Apr 2020	4457*	1045*	52*	28*	132*	10*	5256*
26 Apr 2020	4457*	1045*	52*	28*	132*	10*	5256*
27 Apr 2020	4457*	1045*	52*	28*	132*	10*	5256*
28 Apr 2020	4286	799	76	83	231	15	4389
29 Apr 2020	4286	799	76	83	231	15	4389
30 Apr 2020	4286	799	76	83	231	15	4389

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2020	62	102	56	11	20	22	283
02 Apr 2020	62	102	56	11	20	22	283
03 Apr 2020	62	102	56	11	20	22	283
04 Apr 2020	21*	272*	129*	17*	35*	39*	859*
05 Apr 2020	21*	272*	129*	17*	35*	39*	859*
06 Apr 2020	21*	272*	129*	17*	35*	39*	859*
07 Apr 2020	21*	272*	129*	17*	35*	39*	859*
08 Apr 2020	23*	392*	149*	36*	90*	68*	1583*
09 Apr 2020	23*	392*	149*	36*	90*	68*	1583*
10 Apr 2020	59*	353*	150*	42*	292*	49*	1014*
11 Apr 2020	59*	353*	150*	42*	292*	49*	1014*
12 Apr 2020	59*	353*	150*	42*	292*	49*	1014*
13 Apr 2020	59*	353*	150*	42*	292*	49*	1014*
14 Apr 2020	103	220	79	29	151	28	1018
15 Apr 2020	244*	106*	31*	27*	134*	18*	789*
16 Apr 2020	244*	106*	31*	27*	134*	18*	789*
17 Apr 2020	244*	106*	31*	27*	134*	18*	789*
18 Apr 2020	244*	106*	31*	27*	134*	18*	789*
19 Apr 2020	244*	106*	31*	27*	134*	18*	789*
20 Apr 2020	244*	106*	31*	27*	134*	18*	789*
21 Apr 2020	319	201	22	19	107	14	1065
22 Apr 2020	319	201	22	19	107	14	1065
23 Apr 2020	803*	182*	10*	8*	55*	5*	1390*
24 Apr 2020	803*	182*	10*	8*	55*	5*	1390*
25 Apr 2020	803*	182*	10*	8*	55*	5*	1390*
26 Apr 2020	803*	182*	10*	8*	55*	5*	1390*
27 Apr 2020	803*	182*	10*	8*	55*	5*	1390*
28 Apr 2020	868	148	15	26	87	5	1159
29 Apr 2020	868	148	15	26	87	5	1159
30 Apr 2020	868	148	15	26	87	5	1159

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2020	38	29	16	4	7	12	89
02 Apr 2020	38	29	16	4	7	12	89
03 Apr 2020	38	29	16	4	7	12	89
04 Apr 2020	21*	56*	26*	4*	10*	18*	229*
05 Apr 2020	21*	56*	26*	4*	10*	18*	229*
06 Apr 2020	21*	56*	26*	4*	10*	18*	229*
07 Apr 2020	21*	56*	26*	4*	10*	18*	229*
08 Apr 2020	26*	52*	23*	5*	16*	14*	311*
09 Apr 2020	26*	52*	23*	5*	16*	14*	311*
10 Apr 2020	68*	72*	38*	12*	68*	20*	341*
11 Apr 2020	68*	72*	38*	12*	68*	20*	341*
12 Apr 2020	68*	72*	38*	12*	68*	20*	341*
13 Apr 2020	68*	72*	38*	12*	68*	20*	341*
14 Apr 2020	89	82	31	13	49	12	450
15 Apr 2020	180*	57*	19*	17*	56*	12*	524*
16 Apr 2020	180*	57*	19*	17*	56*	12*	524*
17 Apr 2020	180*	57*	19*	17*	56*	12*	524*
18 Apr 2020	180*	57*	19*	17*	56*	12*	524*
19 Apr 2020	180*	57*	19*	17*	56*	12*	524*
20 Apr 2020	180*	57*	19*	17*	56*	12*	524*
21 Apr 2020	176	84	22	17	65	10	493
22 Apr 2020	176	84	22	17	65	10	493
23 Apr 2020	327*	109*	21*	18*	65*	6*	606*
24 Apr 2020	327*	109*	21*	18*	65*	6*	606*
25 Apr 2020	327*	109*	21*	18*	65*	6*	606*
26 Apr 2020	327*	109*	21*	18*	65*	6*	606*
27 Apr 2020	327*	109*	21*	18*	65*	6*	606*
28 Apr 2020	435	105	27	46	90	8	553
29 Apr 2020	435	105	27	46	90	8	553
30 Apr 2020	435	105	27	46	90	8	553

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2020	IC	IC	IC	IC	IC	IC	E
10 Apr 2020	IC	IC	IC	IC	E	IC	IC
14 Apr 2020	IC	IC	IC	IC	IC	IC	E
21 Apr 2020	E	E	IC	IC	IC	IC	E
28 Apr 2020	IC	IC	IC	E	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2020	E	IC	IC	IC	IC	IC	E
10 Apr 2020	E	IC	IC	IC	E	IC	IC
14 Apr 2020	E	IC	IC	IC	IC	IC	E
21 Apr 2020	E	E	IC	IC	IC	IC	E
28 Apr 2020	E	IC	IC	E	E	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2020	E	IC	IC	IC	IC	IC	E
10 Apr 2020	E	E	E	E	E	IC	E
14 Apr 2020	E	E	IC	IC	IC	IC	E
21 Apr 2020	E	E	IC	IC	E	IC	E
28 Apr 2020	E	E	IC	E	E	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2020	E	IC	IC	IC	IC	IC	E
10 Apr 2020	E	E	IC	IC	E	IC	E
14 Apr 2020	E	IC	IC	IC	IC	IC	E
21 Apr 2020	E	E	IC	IC	IC	IC	E
28 Apr 2020	E	IC	IC	E	E	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

May 2020

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2020	4730	15000	3470	816	468	4341	7862	2388
02 May 2020	4730	15057	3470	816	468	4341	4966	2388
03 May 2020	5547	15000	3470	816	468	4341	4966	2388
04 May 2020	5547	15057	3470	816	468	4341	4966	2388
05 May 2020	5481	14729	2072	667	421	4499	3349	1751
06 May 2020	5481	14729	2072	667	421	4499	3349	1751
07 May 2020	5481	13256	1651	539	328	4499	2969	1469
08 May 2020	5481	13256	1651	539	328	4499	2969	1469
09 May 2020	3871	13849	1347	539	172	3409	2728	986
10 May 2020	3871	13849	1347	539	172	3409	2728	986
11 May 2020	3402	13849	946	274	69	3409	2323	565
12 May 2020	2217	13961	1140	350	74	2137	2728	842
13 May 2020	1853	13849	782	163	69	2137	2323	467
14 May 2020	1685	13849	609	209	95	1903	1752	272
15 May 2020	1685	13414	609	209	95	1903	1752	272
16 May 2020	2073	13276	609	209	95	2264	1405	272
17 May 2020	2073	8960	609	209	95	2264	1072	272
18 May 2020	2073	8960	609	209	95	2264	1072	272
19 May 2020	1641	6047	397	131	69	1776	636	176
20 May 2020	1641	6047	397	131	69	1776	636	176
21 May 2020	1274	5690	298	176	95	1391	425	197
22 May 2020	1274	5690	298	176	95	1391	425	197
23 May 2020	929	5311	308	176	95	1025	404	197
24 May 2020	624	4909	308	176	95	692	404	197
25 May 2020	624	4909	308	176	95	692	404	197
26 May 2020	357	4909	494	181	69	543	618	92
27 May 2020	357	4909	494	181	69	543	618	92
28 May 2020	327	4909	381	176	53	642	596	63
29 May 2020	327	5311	572	176	53	642	859	63
30 May 2020	327	4909	602	176	53	642	824	63
31 May 2020	327	5311	547	176	53	642	944	63

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2020	1167	8999	978	252	169	919	3224	874
02 May 2020	1167	9152	978	252	169	919	1827	874
03 May 2020	1320	8999	978	252	169	994	1827	874
04 May 2020	1320	9152	978	252	169	994	1827	874
05 May 2020	1397	8186	527	126	97	1323	1123	409
06 May 2020	1397	8186	527	126	97	1323	1123	409
07 May 2020	1445	7708	386	81	68	1456	936	337
08 May 2020	1445	7708	386	81	68	1456	936	337
09 May 2020	946	8474	339	81	32	1136	930	185
10 May 2020	946	8474	339	81	32	1136	930	185
11 May 2020	779	8474	203	34	11	1136	737	81
12 May 2020	532	8639	254	41	12	705	824	118
13 May 2020	419	8474	146	14	14	705	646	58
14 May 2020	366	8474	146	18	13	635	515	47
15 May 2020	366	8398	146	18	13	635	324	47
16 May 2020	469	8223	146	18	13	826	234	47
17 May 2020	469	5527	146	18	13	826	158	47
18 May 2020	469	5527	146	18	13	826	158	47
19 May 2020	356	3556	86	11	10	485	93	28
20 May 2020	356	3556	86	11	10	485	93	28
21 May 2020	256	3296	65	10	9	339	56	30
22 May 2020	256	3296	65	10	9	339	56	30
23 May 2020	181	3024	79	10	9	220	56	30
24 May 2020	103	2741	79	10	9	124	56	30
25 May 2020	103	2741	79	10	9	124	56	30
26 May 2020	46	2741	128	11	8	84	78	19
27 May 2020	46	2741	128	11	8	84	78	19
28 May 2020	77	2741	106	9	5	106	77	11
29 May 2020	77	3024	167	9	5	106	125	11
30 May 2020	77	2741	161	9	5	106	106	11
31 May 2020	77	2912	158	9	5	106	118	11

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2020	916	6480	1447	177	86	1132	2597	585
02 May 2020	1029	6720	1177	177	86	1325	2157	380
03 May 2020	1114	6480	1177	177	86	1402	2157	380
04 May 2020	1058	6720	1177	177	86	1618	1681	380
05 May 2020	1125	5738	897	135	57	1774	1349	225
06 May 2020	1125	5738	897	135	57	1774	1349	225
07 May 2020	1093	5060	766	102	41	1878	1205	195
08 May 2020	1093	5060	766	102	41	1878	1205	195
09 May 2020	779	5823	760	102	24	1561	1193	124
10 May 2020	779	5823	760	102	24	1561	1193	124
11 May 2020	699	5823	604	54	10	1436	1012	65
12 May 2020	473	6062	709	73	11	1073	1174	110
13 May 2020	430	5823	598	47	12	997	1065	79
14 May 2020	418	5823	623	34	18	1029	937	73
15 May 2020	418	6062	401	34	18	1029	692	73
16 May 2020	518	5823	302	34	18	1300	565	73
17 May 2020	518	4094	216	34	18	1300	446	73
18 May 2020	518	4094	216	34	18	1300	446	73
19 May 2020	477	3212	126	23	12	1057	292	46
20 May 2020	477	3212	126	23	12	1057	292	46
21 May 2020	300	3159	110	21	14	994	247	45
22 May 2020	300	3159	110	21	14	994	247	45
23 May 2020	274	3156	97	21	14	899	230	45
24 May 2020	219	3092	97	21	14	741	232	45
25 May 2020	219	3092	97	21	14	741	232	45
26 May 2020	133	3092	132	17	10	599	245	30
27 May 2020	133	3092	132	17	10	599	245	30
28 May 2020	124	3092	122	12	6	716	265	21
29 May 2020	124	3385	167	12	6	716	360	21
30 May 2020	75	3092	145	11	3	504	342	14
31 May 2020	75	3259	145	11	3	504	344	14

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 May 2020	ns	E	ns	ns	ns	ns	ns	ns
04 May 2020	ns	E	ns	ns	ns	ns	ns	ns
05 May 2020	IC	E	IC	IC	IC	IC	IC	IC
07 May 2020	E	IC	ns	ns	ns	E	ns	ns
09 May 2020	IC	ns	ns	ns	ns	IC	ns	ns
11 May 2020	ns	E	ns	ns	ns	ns	ns	ns
12 May 2020	IC	E	IC	IC	IC	IC	E	IC
14 May 2020	ns	E	IC	ns	ns	ns	IC	IC
15 May 2020	ns	IC	ns	ns	ns	ns	ns	ns
17 May 2020	ns	IC	ns	ns	ns	ns	ns	ns
19 May 2020	IC	IC	IC	IC	IC	IC	IC	IC
26 May 2020	IC	E	IC	IC	IC	IC	E	IC
28 May 2020	ns	E	IC	ns	ns	ns	E	ns
29 May 2020	ns	E	IC	ns	ns	ns	E	ns
31 May 2020	ns	E	IC	ns	ns	ns	IC	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 May 2020	ns	E	ns	ns	ns	ns	ns	ns
04 May 2020	ns	E	ns	ns	ns	ns	ns	ns
05 May 2020	E	E	IC	IC	IC	E	IC	IC
07 May 2020	E	E	ns	ns	ns	E	ns	ns
09 May 2020	IC	ns	ns	ns	ns	IC	ns	ns
11 May 2020	ns	E	ns	ns	ns	ns	ns	ns
12 May 2020	IC	E	E	IC	IC	IC	E	E
14 May 2020	ns	E	IC	ns	ns	ns	E	IC
15 May 2020	ns	E	ns	ns	ns	ns	IC	ns
17 May 2020	ns	IC	ns	ns	ns	ns	ns	ns
19 May 2020	IC	IC	IC	IC	IC	IC	IC	IC
26 May 2020	IC	E	E	IC	IC	IC	E	IC
28 May 2020	ns	E	E	ns	ns	ns	E	ns
29 May 2020	ns	E	E	ns	ns	ns	E	ns
31 May 2020	ns	E	IC	ns	ns	ns	IC	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 May 2020	E	E	IC	ns	ns	E	ns	IC
04 May 2020	E	E	ns	ns	ns	E	IC	ns
05 May 2020	E	E	IC	IC	IC	E	IC	IC
07 May 2020	E	E	ns	ns	ns	E	ns	ns
09 May 2020	IC	ns	ns	ns	ns	IC	ns	ns
11 May 2020	ns	E	ns	ns	ns	ns	ns	ns
12 May 2020	IC	E	E	E	IC	IC	E	E
14 May 2020	ns	E	E	IC	ns	ns	E	IC
15 May 2020	ns	E	IC	ns	ns	ns	IC	ns
17 May 2020	ns	IC	ns	ns	ns	ns	ns	ns
19 May 2020	E	IC	IC	IC	IC	IC	IC	IC
21 May 2020	IC	ns	ns	ns	ns	ns	ns	ns
26 May 2020	IC	E	E	IC	IC	IC	E	IC
28 May 2020	ns	E	E	ns	ns	ns	E	ns
29 May 2020	ns	E	E	ns	ns	ns	E	ns
31 May 2020	ns	E	E	ns	ns	ns	E	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 May 2020	ns	E	ns	ns	ns	ns	ns	ns
04 May 2020	ns	E	ns	ns	ns	ns	ns	ns
05 May 2020	E	E	IC	IC	IC	E	IC	IC
07 May 2020	E	E	ns	ns	ns	E	ns	ns
09 May 2020	IC	ns	ns	ns	ns	IC	ns	ns
11 May 2020	ns	E	ns	ns	ns	ns	ns	ns
12 May 2020	IC	E	E	IC	IC	IC	E	E
14 May 2020	ns	E	IC	ns	ns	ns	IC	IC
15 May 2020	ns	E	ns	ns	ns	ns	ND	ns
17 May 2020	ns	IC	ns	ns	ns	ns	ns	ns
19 May 2020	IC	IC	IC	IC	IC	IC	IC	IC
26 May 2020	IC	E	E	IC	IC	IC	IC	IC
28 May 2020	ns	E	E	ns	ns	ns	E	ns
29 May 2020	ns	E	E	ns	ns	ns	E	ns
31 May 2020	ns	E	IC	ns	ns	ns	E	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 May 2020	4686	994	190	209	535	25	3442
02 May 2020	4686	994	190	209	535	25	3442
03 May 2020	4686	994	190	209	535	25	3442
04 May 2020	4686	994	190	209	535	25	3442
05 May 2020	4227	424	113	131	258	24	2177
06 May 2020	4227	424	113	131	258	24	2177
07 May 2020	4227	424	113	131	258	24	2177
08 May 2020	4227	424	113	131	258	24	2177
09 May 2020	4227	424	113	131	258	24	2177
10 May 2020	3895	332	73	95	92	16	2767
11 May 2020	3895	332	73	95	92	16	2767
12 May 2020	1264	189	86	65	92	11	961
13 May 2020	1264	189	86	65	92	11	961
14 May 2020	982	178	97	78	135	15	559
15 May 2020	982	178	97	78	135	15	559
16 May 2020	982	178	97	78	135	15	559
17 May 2020	982	178	97	78	135	15	559
18 May 2020	420	152	59	38	103	10	287
19 May 2020	420	152	59	38	103	10	287
20 May 2020	420	152	59	38	103	10	287
21 May 2020	212	50	51	43	99	9	120
22 May 2020	212	50	51	43	99	9	120
23 May 2020	212	50	51	43	99	9	120
24 May 2020	212	50	51	43	99	9	120
25 May 2020	212	50	51	43	99	9	120
26 May 2020	132	39	27	23	45	7	96
27 May 2020	132	39	27	23	45	7	96
28 May 2020	58	24	14	6	17	4	44
29 May 2020	58	24	14	6	17	4	44
30 May 2020	58	24	14	6	17	4	44
31 May 2020	58	24	14	6	17	4	44

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 May 2020	1007	194	25	49	224	7	859
02 May 2020	1007	194	25	49	224	7	859
03 May 2020	1007	194	25	49	224	7	859
04 May 2020	1007	194	25	49	224	7	859
05 May 2020	1057	78	15	26	87	5	537
06 May 2020	1057	78	15	26	87	5	537
07 May 2020	1057	78	15	26	87	5	537
08 May 2020	1057	78	15	26	87	5	537
09 May 2020	1057	78	15	26	87	5	537
10 May 2020	1091	57	9	20	27	4	640
11 May 2020	1091	57	9	20	27	4	640
12 May 2020	309	39	11	16	27	3	232
13 May 2020	309	39	11	16	27	3	232
14 May 2020	231	40	12	20	34	4	160
15 May 2020	231	40	12	20	34	4	160
16 May 2020	231	40	12	20	34	4	160
17 May 2020	231	40	12	20	34	4	160
18 May 2020	89	35	8	13	28	3	66
19 May 2020	89	35	8	13	28	3	66
20 May 2020	89	35	8	13	28	3	66
21 May 2020	50	12	9	17	26	3	25
22 May 2020	50	12	9	17	26	3	25
23 May 2020	50	12	9	17	26	3	25
24 May 2020	50	12	9	17	26	3	25
25 May 2020	50	12	9	17	26	3	25
26 May 2020	26	9	7	11	15	3	19
27 May 2020	26	9	7	11	15	3	19
28 May 2020	10	6	4	3	6	2	8
29 May 2020	10	6	4	3	6	2	8
30 May 2020	10	6	4	3	6	2	8
31 May 2020	10	6	4	3	6	2	8

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 May 2020	514	176	51	100	234	12	548
02 May 2020	514	176	51	100	234	12	548
03 May 2020	514	176	51	100	234	12	548
04 May 2020	514	176	51	100	234	12	548
05 May 2020	394	76	28	50	147	8	399
06 May 2020	394	76	28	50	147	8	399
07 May 2020	394	76	28	50	147	8	399
08 May 2020	394	76	28	50	147	8	399
09 May 2020	394	76	28	50	147	8	399
10 May 2020	298	60	18	38	60	5	388
11 May 2020	298	60	18	38	60	5	388
12 May 2020	183	62	21	39	63	4	251
13 May 2020	183	62	21	39	63	4	251
14 May 2020	167	51	23	47	92	5	164
15 May 2020	167	51	23	47	92	5	164
16 May 2020	167	51	23	47	92	5	164
17 May 2020	167	51	23	47	92	5	164
18 May 2020	76	41	14	25	73	4	72
19 May 2020	76	41	14	25	73	4	72
20 May 2020	76	41	14	25	73	4	72
21 May 2020	63	23	11	27	64	4	47
22 May 2020	63	23	11	27	64	4	47
23 May 2020	63	23	11	27	64	4	47
24 May 2020	63	23	11	27	64	4	47
25 May 2020	63	23	11	27	64	4	47
26 May 2020	34	17	8	16	32	3	38
27 May 2020	34	17	8	16	32	3	38
28 May 2020	13	11	4	5	18	2	22
29 May 2020	13	11	4	5	18	2	22
30 May 2020	13	11	4	5	18	2	22
31 May 2020	13	11	4	5	18	2	22

* Geometric mean calculated using n<5

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
05 May 2020	E	IC	IC	IC	IC	IC	IC
12 May 2020	IC	IC	IC	IC	IC	IC	IC
18 May 2020	IC	IC	IC	IC	IC	IC	IC
26 May 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

June 2020

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2020	44	2969	154	11	3*	320	371	15
02 Jun 2020	31	1964	125	8	3	170	267	20
03 Jun 2020	22	1725	125	8	3	92	323	20
04 Jun 2020	13	1827	153	7	3*	66	407	32
05 Jun 2020	13	1827	153	7	3*	66	407	32
06 Jun 2020	6	2073	153	7	3*	25	407	32
07 Jun 2020	6	2073	153	7	3*	25	407	32
08 Jun 2020	5	1768	153	7	3*	24*	407	32
09 Jun 2020	4	2073	139	6	4	14	360	20
10 Jun 2020	4	1768	139	6	4	14	360	20
11 Jun 2020	5	1768	94	2	3*	14*	347	7
12 Jun 2020	5	2073	94	2	3*	14*	422	7
13 Jun 2020	5	1768	83	2*	3*	14*	396	5*
14 Jun 2020	5	1722	141	2*	3*	14*	337	5*
15 Jun 2020	5	1722	141	2*	3*	14*	337	5*
16 Jun 2020	4	1804	95	2	3	9	240	11
17 Jun 2020	4	1804	95	2	3	9	240	11
18 Jun 2020	2	2978	164	2*	3*	5*	361	16
19 Jun 2020	2	2978	164	2*	3*	5*	361	16
20 Jun 2020	2*	2978	164	2*	3*	5*	361	16
21 Jun 2020	2*	2978	164	2*	3*	5*	361	16
22 Jun 2020	2*	2978	164	2*	3*	5*	361	16
23 Jun 2020	3	3143	164	2	4	7	455	11
24 Jun 2020	3	3143	164	2	4	7	455	11
25 Jun 2020	3*	3143	177	2*	4*	4*	458	16
26 Jun 2020	3*	3143	177	2*	4*	4*	458	16
27 Jun 2020	3*	3143	170	2*	4*	4*	456	16
28 Jun 2020	3*	2749	114	2*	4*	4*	343	16
29 Jun 2020	3*	3143	185	2*	4*	4*	474	16
30 Jun 2020	5	3310	283	2	4	6	647	24

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2020	327	4909	547	176*	53*	642	1528	63
02 Jun 2020	174	3401	379	114	44	391	980	83
03 Jun 2020	174	3045	379	114	44	391	980	83
04 Jun 2020	100	2759	547	99*	30*	247	1594	70
05 Jun 2020	100	2759	547	99*	30*	247	1594	70
06 Jun 2020	36	2834	547	99*	30*	107	1594	70
07 Jun 2020	36	2834	547	99*	30*	107	1594	70
08 Jun 2020	24*	2421	547	99*	30*	92*	1594	70
09 Jun 2020	23	2834	409	72	28	68	1484	57
10 Jun 2020	23	2421	409	72	28	68	1484	57
11 Jun 2020	24*	2421	306	36*	20*	92*	1103	22
12 Jun 2020	24*	2834	306	36*	20*	92*	1103	22
13 Jun 2020	24*	2421	371	36*	20*	92*	1172	23*
14 Jun 2020	24*	2584	371	36*	20*	92*	1172	23*
15 Jun 2020	24*	2584	371	36*	20*	92*	1172	23*
16 Jun 2020	14	3361	257	32	20	53	838	51
17 Jun 2020	14	3361	257	32	20	53	838	51
18 Jun 2020	8*	5611	371	36*	20*	38*	1429	71
19 Jun 2020	8*	5611	371	36*	20*	38*	1429	71
20 Jun 2020	8*	5611	371	36*	20*	38*	1429	71
21 Jun 2020	8*	5611	371	36*	20*	38*	1429	71
22 Jun 2020	8*	5611	371	36*	20*	38*	1429	71
23 Jun 2020	11	6172	408	32	20	48	1932	64
24 Jun 2020	11	6172	408	32	20	48	1932	64
25 Jun 2020	10*	6172	265	20*	20*	23*	2003	129
26 Jun 2020	10*	6172	265	20*	20*	23*	2003	129
27 Jun 2020	10*	6172	181	20*	20*	23*	2076	129
28 Jun 2020	10*	5611	81	20*	20*	23*	1551	129
29 Jun 2020	10*	6172	81	20*	20*	23*	2076	129
30 Jun 2020	18	6172	183	25	23	44	2582	187

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2020	77	2632	158	9*	5*	106	186	11
02 Jun 2020	46	1815	113	7	5	60	118	15
03 Jun 2020	46	1586	113	7	5	60	118	15
04 Jun 2020	23	1571	188	9*	6*	36	186	22
05 Jun 2020	23	1571	188	9*	6*	36	186	22
06 Jun 2020	7	1676	188	9*	6*	11	186	22
07 Jun 2020	7	1676	188	9*	6*	11	186	22
08 Jun 2020	6*	1401	188	9*	6*	10*	186	22
09 Jun 2020	5	1676	146	7	5	9	192	15
10 Jun 2020	5	1401	146	7	5	9	192	15
11 Jun 2020	4*	1401	113	4*	4*	10*	143	7
12 Jun 2020	4*	1676	113	4*	4*	10*	143	7
13 Jun 2020	4*	1401	123	4*	4*	10*	119	5*
14 Jun 2020	4*	1286	123	4*	4*	10*	213	5*
15 Jun 2020	4*	1286	123	4*	4*	10*	213	5*
16 Jun 2020	3	1514	80	3	3	7	137	11
17 Jun 2020	3	1514	80	3	3	7	137	11
18 Jun 2020	2*	2937	136	4*	3*	9*	250	15
19 Jun 2020	2*	2937	136	4*	3*	9*	250	15
20 Jun 2020	2*	2937	136	4*	3*	9*	250	15
21 Jun 2020	2*	2937	136	4*	3*	9*	250	15
22 Jun 2020	2*	2937	136	4*	3*	9*	250	15
23 Jun 2020	2	3338	149	3	3	11	372	13
24 Jun 2020	2	3338	149	3	3	11	372	13
25 Jun 2020	2*	3338	100	2*	2*	5*	484	19
26 Jun 2020	2*	3338	100	2*	2*	5*	484	19
27 Jun 2020	2*	3338	68	2*	2*	5*	528	19
28 Jun 2020	2*	2937	30	2*	2*	5*	352	19
29 Jun 2020	2*	3338	30	2*	2*	5*	548	19
30 Jun 2020	4	3515	66	3	4	10	868	28

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jun 2020	IC	IC	IC	IC	IC	IC	IC	IC
09 Jun 2020	IC	E	IC	IC	IC	IC	IC	IC
11 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
12 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
14 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Jun 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Jun 2020	ns	ns	ns	ns	ns	ns	ns	IC
23 Jun 2020	IC	E	IC	IC	IC	IC	E	IC
25 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
27 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
29 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
30 Jun 2020	IC	E	E	IC	IC	IC	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jun 2020	IC	IC	IC	IC	IC	IC	IC	IC
09 Jun 2020	IC	E	IC	IC	IC	IC	IC	IC
11 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
12 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
14 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Jun 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Jun 2020	ns	ns	ns	ns	ns	ns	ns	IC
23 Jun 2020	IC	E	IC	IC	IC	IC	E	IC
25 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
27 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
29 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
30 Jun 2020	IC	E	E	IC	IC	IC	E	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jun 2020	IC	IC	IC	IC	IC	IC	IC	IC
09 Jun 2020	IC	E	IC	IC	IC	IC	E	IC
11 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
12 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
14 Jun 2020	ns	E	ns	ns	ns	ns	IC	ns
16 Jun 2020	IC	IC	IC	IC	IC	IC	IC	E
18 Jun 2020	ns	ns	ns	ns	ns	ns	ns	IC
23 Jun 2020	IC	E	E	IC	IC	IC	E	IC
25 Jun 2020	ns	E	E	ns	ns	ns	E	ns
27 Jun 2020	ns	E	E	ns	ns	ns	E	ns
29 Jun 2020	ns	E	E	ns	ns	ns	E	ns
30 Jun 2020	IC	E	E	IC	IC	IC	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jun 2020	IC	IC	IC	IC	IC	IC	IC	IC
09 Jun 2020	IC	E	IC	IC	IC	IC	IC	IC
11 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
12 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
14 Jun 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Jun 2020	IC	IC	IC	IC	IC	IC	IC	E
18 Jun 2020	ns	ns	ns	ns	ns	ns	ns	IC
23 Jun 2020	IC	E	IC	IC	IC	IC	E	IC
25 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
27 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
29 Jun 2020	ns	E	ns	ns	ns	ns	E	ns
30 Jun 2020	IC	E	E	IC	IC	IC	E	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

July 2020

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jul 2020	18	6172	183	25	23	44	2582	187
02 Jul 2020	26*	7736	183	26*	24*	54*	2475	147
03 Jul 2020	26*	7736	183	26*	24*	54*	2475	147
04 Jul 2020	26*	7736	183	26*	24*	54*	2475	147
05 Jul 2020	26*	7736	183	26*	24*	54*	2475	147
06 Jul 2020	26*	7736	183	26*	24*	54*	2475	147
07 Jul 2020	33	8219	257	43	23	44	2358	135
08 Jul 2020	33	8219	257	43	23	44	2358	135
09 Jul 2020	37*	8219	697	53*	24*	54*	3272	185
10 Jul 2020	37*	8219	697	53*	24*	54*	3272	185
11 Jul 2020	37*	8219	734	53*	24*	54*	3834	185
12 Jul 2020	37*	7736	734	53*	24*	54*	3834	185
13 Jul 2020	37*	8219	468	53*	24*	54*	3186	185
14 Jul 2020	33	8219	330	31	23	44	2212	135
15 Jul 2020	33	8219	330	31	23	44	2212	135
16 Jul 2020	66*	10086	468	35*	24*	73*	2992	92
17 Jul 2020	66*	10450	468	35*	24*	73*	2992	92
18 Jul 2020	66*	10450	468	35*	24*	73*	2992	91
19 Jul 2020	66*	10773	468	35*	24*	73*	2992	91
20 Jul 2020	66*	10773	468	35*	24*	73*	2992	91
21 Jul 2020	52	10236	330	50	36	182	1971	71
22 Jul 2020	52	10236	330	50	36	182	1971	71
23 Jul 2020	50*	9851	295	63*	42*	127	1629	79
24 Jul 2020	50*	9851	295	63*	42*	127	1629	79
25 Jul 2020	50*	9515	295	63*	42*	127	1297	79
26 Jul 2020	50*	9515	295	63*	42*	127	1297	79
27 Jul 2020	50*	9142	295	63*	42*	127	981	79
28 Jul 2020	60	9515	203	31	26	117	1190	63
29 Jul 2020	60	9142	203	31	26	117	892	63
30 Jul 2020	44*	8560	117	27*	24*	85	622	35
31 Jul 2020	44*	8560	117	27*	24*	85	622	35

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jul 2020	4	3515	66	3	4	10	868	28
02 Jul 2020	5*	4069	57	4*	4*	15*	1126	19
03 Jul 2020	5*	4069	57	4*	4*	15*	1126	19
04 Jul 2020	5*	4069	57	4*	4*	15*	1126	19
05 Jul 2020	5*	4069	57	4*	4*	15*	1126	19
06 Jul 2020	5*	4069	57	4*	4*	15*	1126	19
07 Jul 2020	6	4452	70	8	3	14	1046	15
08 Jul 2020	6	4452	70	8	3	14	1046	15
09 Jul 2020	8*	4452	156	12*	4*	16*	1601	21
10 Jul 2020	8*	4452	156	12*	4*	16*	1601	21
11 Jul 2020	8*	4452	186	12*	4*	16*	1959	21
12 Jul 2020	8*	4069	186	12*	4*	16*	1959	21
13 Jul 2020	8*	4452	139	12*	4*	16*	1443	21
14 Jul 2020	8	5026	87	8	3	13	883	15
15 Jul 2020	8	5026	87	8	3	13	883	15
16 Jul 2020	12*	6158	127	12*	4*	21*	1391	9
17 Jul 2020	12*	6482	127	12*	4*	21*	1391	9
18 Jul 2020	12*	6482	127	12*	4*	21*	1391	9
19 Jul 2020	12*	6774	127	12*	4*	21*	1391	9
20 Jul 2020	12*	6774	127	12*	4*	21*	1391	9
21 Jul 2020	11	6355	87	8	3	45	806	7
22 Jul 2020	11	6355	87	8	3	45	806	7
23 Jul 2020	16*	5204	75	12*	4*	27	672	7
24 Jul 2020	16*	5483	75	12*	4*	27	672	7
25 Jul 2020	16*	5204	75	12*	4*	27	513	7
26 Jul 2020	16*	4271	75	12*	4*	27	513	7
27 Jul 2020	16*	3986	75	12*	4*	27	361	7
28 Jul 2020	14	4271	50	8	3	21	385	6
29 Jul 2020	14	3986	50	8	3	21	263	6
30 Jul 2020	8*	3265	27	7*	2*	15	100	3
31 Jul 2020	8*	2147	27	7*	2*	15	100	3

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jul 2020	5	3310	283	2	4	6	647	24
02 Jul 2020	7*	4592	247	2*	5*	9*	675	22
03 Jul 2020	7*	4592	247	2*	5*	9*	675	22
04 Jul 2020	7*	4975	247	2*	5*	9*	675	22
05 Jul 2020	7*	4975	247	2*	5*	9*	675	22
06 Jul 2020	7*	4760	247	2*	5*	9*	675	22
07 Jul 2020	6	5085	287	2	4	9	732	24
08 Jul 2020	6	5085	287	2	4	9	732	24
09 Jul 2020	8*	5085	413	3*	3*	13*	1067	36
10 Jul 2020	8*	5085	413	3*	3*	13*	1067	36
11 Jul 2020	8*	5085	400	3*	3*	13*	1117	36
12 Jul 2020	8*	4760	400	3*	3*	13*	1021	36
13 Jul 2020	8*	5085	341	3*	3*	13*	832	36
14 Jul 2020	10	5190	295	2	3	14	1136	24
15 Jul 2020	10	5190	295	2	3	14	1136	24
16 Jul 2020	14*	6152	421	3*	3*	22*	1783	16
17 Jul 2020	14*	6432	421	3*	3*	22*	1783	16
18 Jul 2020	14*	6432	421	3*	3*	22*	1783	17
19 Jul 2020	14*	6688	421	3*	3*	22*	1783	17
20 Jul 2020	14*	6688	421	3*	3*	22*	1783	17
21 Jul 2020	13	5742	295	3	3	44	1012	15
22 Jul 2020	13	5742	295	3	3	44	1012	15
23 Jul 2020	14*	5199	312	3*	3*	27	882	23
24 Jul 2020	14*	5447	312	3*	3*	27	882	23
25 Jul 2020	14*	5199	249	3*	3*	27	733	23
26 Jul 2020	14*	4175	249	3*	3*	27	733	23
27 Jul 2020	14*	3923	227	3*	3*	27	574	23
28 Jul 2020	13	4175	158	3	5	21	551	15
29 Jul 2020	13	3923	106	3	5	21	391	15
30 Jul 2020	9*	3181	67	3*	6*	17	150	9
31 Jul 2020	9*	2353	67	3*	6*	17	150	9

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jul 2020	ns	IC	IC	ns	ns	ns	IC	IC
07 Jul 2020	IC	E	IC	IC	IC	IC	IC	IC
09 Jul 2020	ns	E	E	ns	ns	ns	E	ns
11 Jul 2020	ns	E	IC	ns	ns	ns	E	ns
13 Jul 2020	ns	E	IC	ns	ns	ns	IC	ns
14 Jul 2020	IC	E	IC	IC	IC	IC	IC	IC
16 Jul 2020	ns	IC	ns	ns	ns	ns	ns	ns
17 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
19 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
21 Jul 2020	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2020	ns	IC	ns	ns	ns	IC	ns	ns
28 Jul 2020	IC	E	IC	IC	IC	IC	IC	IC
30 Jul 2020	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jul 2020	ns	IC	IC	ns	ns	ns	IC	IC
07 Jul 2020	IC	E	IC	IC	IC	IC	E	IC
09 Jul 2020	ns	E	E	ns	ns	ns	E	ns
11 Jul 2020	ns	E	E	ns	ns	ns	E	ns
13 Jul 2020	ns	E	IC	ns	ns	ns	IC	ns
14 Jul 2020	IC	E	IC	IC	IC	IC	IC	IC
16 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
17 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
19 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
21 Jul 2020	IC	E	IC	IC	IC	E	IC	IC
23 Jul 2020	ns	E	ns	ns	ns	IC	ns	ns
24 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
26 Jul 2020	ns	IC	ns	ns	ns	ns	ns	ns
28 Jul 2020	IC	E	IC	IC	IC	IC	E	IC
30 Jul 2020	ns	E	ns	ns	ns	ns	IC	ns
31 Jul 2020	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jul 2020	ns	E	IC	ns	ns	ns	IC	IC
04 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
06 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
07 Jul 2020	IC	E	E	IC	IC	IC	E	IC
09 Jul 2020	ns	E	E	ns	ns	ns	E	ns
11 Jul 2020	ns	E	E	ns	ns	ns	E	ns
13 Jul 2020	ns	E	IC	ns	ns	ns	IC	ns
14 Jul 2020	IC	E	IC	IC	IC	IC	IC	IC
16 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
17 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
19 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
21 Jul 2020	IC	E	IC	IC	IC	E	IC	IC
23 Jul 2020	ns	E	ns	ns	ns	IC	ns	ns
24 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
26 Jul 2020	ns	IC	ns	ns	ns	ns	ns	ns
28 Jul 2020	IC	E	IC	IC	IC	IC	E	IC
30 Jul 2020	ns	E	ns	ns	ns	ns	IC	ns
31 Jul 2020	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jul 2020	ns	IC	IC	ns	ns	ns	IC	IC
07 Jul 2020	IC	E	E	IC	IC	IC	E	IC
09 Jul 2020	ns	E	E	ns	ns	ns	E	ns
11 Jul 2020	ns	E	IC	ns	ns	ns	E	ns
13 Jul 2020	ns	E	IC	ns	ns	ns	IC	ns
14 Jul 2020	IC	E	IC	IC	IC	IC	IC	IC
16 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
17 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
19 Jul 2020	ns	E	ns	ns	ns	ns	ns	ns
21 Jul 2020	IC	E	IC	IC	IC	E	IC	IC
23 Jul 2020	ns	IC	ns	ns	ns	IC	ns	ns
24 Jul 2020	ns	ND	ns	ns	ns	ns	ns	ns
26 Jul 2020	ns	ND	ns	ns	ns	ns	ns	ns
28 Jul 2020	IC	E	IC	IC	IC	IC	IC	IC
30 Jul 2020	ns	IC	ns	ns	ns	ns	ND	ns
31 Jul 2020	ns	ND	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jul 2020	14	10	6	7	23	4	33
02 Jul 2020	13*	11*	6*	9*	11*	5*	23*
03 Jul 2020	13*	11*	6*	9*	11*	5*	23*
04 Jul 2020	13*	11*	6*	9*	11*	5*	23*
05 Jul 2020	13*	11*	6*	9*	11*	5*	23*
06 Jul 2020	12	12	6	9	19	4	36
07 Jul 2020	12	12	6	9	19	4	36
08 Jul 2020	12	12	6	9	19	4	36
09 Jul 2020	19*	14*	6*	12*	34*	5*	53*
10 Jul 2020	19*	14*	6*	12*	34*	5*	53*
11 Jul 2020	19*	14*	6*	12*	34*	5*	53*
12 Jul 2020	19*	14*	6*	12*	34*	5*	53*
13 Jul 2020	32	18	9	12	26	4	53
14 Jul 2020	32	18	9	12	26	4	53
15 Jul 2020	32	18	9	12	26	4	53
16 Jul 2020	63*	32*	13*	13*	34*	5*	74*
17 Jul 2020	63*	32*	13*	13*	34*	5*	74*
18 Jul 2020	63*	32*	13*	13*	34*	5*	74*
19 Jul 2020	63*	32*	13*	13*	34*	5*	74*
20 Jul 2020	63*	32*	13*	13*	34*	5*	74*
21 Jul 2020	50	65	13	13	40	6	92
22 Jul 2020	50	65	13	13	40	6	92
23 Jul 2020	48*	110*	22*	19*	60*	7*	96*
24 Jul 2020	48*	110*	22*	19*	60*	7*	96*
25 Jul 2020	48*	110*	22*	19*	60*	7*	96*
26 Jul 2020	48*	110*	22*	19*	60*	7*	96*
27 Jul 2020	48*	110*	22*	19*	60*	7*	96*
28 Jul 2020	68	49	13	12	30	6	136
29 Jul 2020	68	49	13	12	30	6	136
30 Jul 2020	58*	41*	10*	7*	21*	3*	193*
31 Jul 2020	58*	41*	10*	7*	21*	3*	193*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jul 2020	5	3	3	4	6	3	5
02 Jul 2020	6*	3*	3*	4*	4*	3*	6*
03 Jul 2020	6*	3*	3*	4*	4*	3*	6*
04 Jul 2020	6*	3*	3*	4*	4*	3*	6*
05 Jul 2020	6*	3*	3*	4*	4*	3*	6*
06 Jul 2020	5	3	3	4	6	3	8
07 Jul 2020	5	3	3	4	6	3	8
08 Jul 2020	5	3	3	4	6	3	8
09 Jul 2020	6*	4*	3*	4*	7*	3*	11*
10 Jul 2020	6*	4*	3*	4*	7*	3*	11*
11 Jul 2020	6*	4*	3*	4*	7*	3*	11*
12 Jul 2020	6*	4*	3*	4*	7*	3*	11*
13 Jul 2020	9	5	3	4	6	3	11
14 Jul 2020	9	5	3	4	6	3	11
15 Jul 2020	9	5	3	4	6	3	11
16 Jul 2020	13*	6*	4*	5*	7*	3*	16*
17 Jul 2020	13*	6*	4*	5*	7*	3*	16*
18 Jul 2020	13*	6*	4*	5*	7*	3*	16*
19 Jul 2020	13*	6*	4*	5*	7*	3*	16*
20 Jul 2020	13*	6*	4*	5*	7*	3*	16*
21 Jul 2020	9	11	3	4	6	3	21
22 Jul 2020	9	11	3	4	6	3	21
23 Jul 2020	9*	18*	4*	5*	7*	3*	20*
24 Jul 2020	9*	18*	4*	5*	7*	3*	20*
25 Jul 2020	9*	18*	4*	5*	7*	3*	20*
26 Jul 2020	9*	18*	4*	5*	7*	3*	20*
27 Jul 2020	9*	18*	4*	5*	7*	3*	20*
28 Jul 2020	11	11	3	4	6	3	23
29 Jul 2020	11	11	3	4	6	3	23
30 Jul 2020	8*	10*	3*	2*	4*	2*	27*
31 Jul 2020	8*	10*	3*	2*	4*	2*	27*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jul 2020	6	3	3	3	5	3	9
02 Jul 2020	8*	4*	3*	3*	3*	4*	9*
03 Jul 2020	8*	4*	3*	3*	3*	4*	9*
04 Jul 2020	8*	4*	3*	3*	3*	4*	9*
05 Jul 2020	8*	4*	3*	3*	3*	4*	9*
06 Jul 2020	6	4	3	3	6	3	13
07 Jul 2020	6	4	3	3	6	3	13
08 Jul 2020	6	4	3	3	6	3	13
09 Jul 2020	8*	4*	3*	4*	8*	4*	16*
10 Jul 2020	8*	4*	3*	4*	8*	4*	16*
11 Jul 2020	8*	4*	3*	4*	8*	4*	16*
12 Jul 2020	8*	4*	3*	4*	8*	4*	16*
13 Jul 2020	12	5	4	3	7	3	15
14 Jul 2020	12	5	4	3	7	3	15
15 Jul 2020	12	5	4	3	7	3	15
16 Jul 2020	18*	6*	4*	4*	9*	4*	23*
17 Jul 2020	18*	6*	4*	4*	9*	4*	23*
18 Jul 2020	18*	6*	4*	4*	9*	4*	23*
19 Jul 2020	18*	6*	4*	4*	9*	4*	23*
20 Jul 2020	18*	6*	4*	4*	9*	4*	23*
21 Jul 2020	13	14	5	3	7	3	31
22 Jul 2020	13	14	5	3	7	3	31
23 Jul 2020	11*	21*	6*	4*	9*	4*	31*
24 Jul 2020	11*	21*	6*	4*	9*	4*	31*
25 Jul 2020	11*	21*	6*	4*	9*	4*	31*
26 Jul 2020	11*	21*	6*	4*	9*	4*	31*
27 Jul 2020	11*	21*	6*	4*	9*	4*	31*
28 Jul 2020	14	13	5	3	7	3	29
29 Jul 2020	14	13	5	3	7	3	29
30 Jul 2020	11*	13*	4*	2*	5*	2*	33*
31 Jul 2020	11*	13*	4*	2*	5*	2*	33*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
06 Jul 2020	IC	IC	IC	IC	IC	IC	IC
13 Jul 2020	IC	IC	IC	IC	IC	IC	IC
21 Jul 2020	IC	E	IC	IC	IC	IC	E
28 Jul 2020	E	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

August 2020

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2020	44*	11530	151	27*	24*	85	1016	28*
02 Aug 2020	44*	11530	151	27*	24*	85	1016	28*
03 Aug 2020	44*	11530	151	27*	24*	85	1016	28*
04 Aug 2020	118	11824	271	25	23	135	1433	55
05 Aug 2020	118	11824	271	25	23	135	1433	55
06 Aug 2020	136	8662	159	13*	24*	275	829	50*
07 Aug 2020	136	8662	159	13*	24*	275	829	50*
08 Aug 2020	136	8230	82	13*	24*	275	543	50*
09 Aug 2020	136	8230	82	13*	24*	275	543	50*
10 Aug 2020	136	7748	54	13*	24*	275	309	50*
11 Aug 2020	67	5392	62	9	14	150	294	41
12 Aug 2020	67	4884	75	9	14	150	269	41
13 Aug 2020	86	4338	98	11*	13*	210	395	50*
14 Aug 2020	86	4338	98	11*	13*	210	395	50*
15 Aug 2020	86	4353	98	11*	13*	210	395	50*
16 Aug 2020	86	3700	98	11*	13*	210	395	50*
17 Aug 2020	86	3700	98	11*	13*	210	395	50*
18 Aug 2020	75	2189	171	19	23	150	389	146
19 Aug 2020	75	2189	171	19	23	150	389	146
20 Aug 2020	98	1945	263	11*	13*	79	704	312
21 Aug 2020	98	1945	263	11*	13*	79	704	312
22 Aug 2020	98	1507	263	11*	13*	104	704	312
23 Aug 2020	98	1507	263	11*	13*	104	704	312
24 Aug 2020	98	1507	263	11*	13*	104	704	312
25 Aug 2020	75	1301	117	12	23	89	389	197
26 Aug 2020	75	1301	117	12	23	89	389	197
27 Aug 2020	69	857	190	19*	36*	91	219	312
28 Aug 2020	69	857	190	19*	36*	91	219	312
29 Aug 2020	69	566	190	19*	36*	91	219	312
30 Aug 2020	69	566	190	19*	36*	91	219	312
31 Aug 2020	69	566	190	19*	36*	91	219	312

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2020	8*	2759	35	7*	2*	15	126	2*
02 Aug 2020	8*	2759	35	7*	2*	15	126	2*
03 Aug 2020	8*	2759	35	7*	2*	15	126	2*
04 Aug 2020	22	2795	68	5	3	25	186	5
05 Aug 2020	22	2795	68	5	3	25	186	5
06 Aug 2020	23	1984	39	2*	3*	38	99	6*
07 Aug 2020	23	1984	39	2*	3*	38	99	6*
08 Aug 2020	23	1760	21	2*	3*	38	55	6*
09 Aug 2020	23	1760	21	2*	3*	38	55	6*
10 Aug 2020	23	1535	13	2*	3*	38	25	6*
11 Aug 2020	15	1032	13	2	3	25	21	5
12 Aug 2020	15	866	13	2	3	25	18	5
13 Aug 2020	17	708	18	2*	3*	32	23	6*
14 Aug 2020	17	708	18	2*	3*	32	23	6*
15 Aug 2020	17	690	18	2*	3*	32	23	6*
16 Aug 2020	17	532	18	2*	3*	32	23	6*
17 Aug 2020	17	532	18	2*	3*	32	23	6*
18 Aug 2020	17	314	27	3	3	25	27	17
19 Aug 2020	17	314	27	3	3	25	27	17
20 Aug 2020	21	254	40	4*	3*	14	41	46
21 Aug 2020	21	254	40	4*	3*	14	41	46
22 Aug 2020	21	231	40	4*	3*	20	41	46
23 Aug 2020	21	141	40	4*	3*	20	41	46
24 Aug 2020	21	141	40	4*	3*	20	41	46
25 Aug 2020	18	118	24	3	3	18	27	27
26 Aug 2020	18	118	24	3	3	18	27	27
27 Aug 2020	21	61	40	4*	3*	22	16	46
28 Aug 2020	21	61	40	4*	3*	22	16	46
29 Aug 2020	21	41	40	4*	3*	22	24	46
30 Aug 2020	21	66	40	4*	3*	22	24	46
31 Aug 2020	21	66	40	4*	3*	22	24	46

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2020	9*	2705	95	3*	6*	17	199	6*
02 Aug 2020	9*	2705	95	3*	6*	17	199	6*
03 Aug 2020	9*	2465	95	3*	6*	17	199	6*
04 Aug 2020	21	2351	141	4	6	27	233	8
05 Aug 2020	21	2325	141	4	6	27	233	8
06 Aug 2020	23	1410	65	3*	8*	29	110	6*
07 Aug 2020	23	1410	65	3*	8*	29	110	6*
08 Aug 2020	23	1222	41	3*	8*	29	62	6*
09 Aug 2020	23	1222	41	3*	8*	29	62	6*
10 Aug 2020	23	1038	30	3*	8*	29	29	6*
11 Aug 2020	15	717	20	3	6	20	21	5
12 Aug 2020	15	586	16	3	6	20	17	5
13 Aug 2020	15	465	13	3*	8*	20	13	6*
14 Aug 2020	15	465	13	3*	8*	20	13	6*
15 Aug 2020	15	459	13	3*	8*	20	13	6*
16 Aug 2020	15	341	13	3*	8*	20	13	6*
17 Aug 2020	15	341	13	3*	8*	20	13	6*
18 Aug 2020	17	187	17	3	6	18	14	10
19 Aug 2020	17	187	17	3	6	18	14	10
20 Aug 2020	19	169	20	3*	7*	10	20	10*
21 Aug 2020	19	169	20	3*	7*	10	20	10*
22 Aug 2020	19	139	20	3*	7*	13	20	10*
23 Aug 2020	19	80	20	3*	7*	13	20	10*
24 Aug 2020	19	80	20	3*	7*	13	20	10*
25 Aug 2020	16	61	14	2	5	10	14	8
26 Aug 2020	16	61	14	2	5	10	14	8
27 Aug 2020	17	29	16	3*	3*	11	8	12*
28 Aug 2020	17	29	16	3*	3*	11	8	12*
29 Aug 2020	17	19	16	3*	3*	11	11	12*
30 Aug 2020	17	20	16	3*	3*	11	11	12*
31 Aug 2020	17	20	16	3*	3*	11	11	12*

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Aug 2020	IC	E	E	IC	IC	IC	E	IC
06 Aug 2020	IC	IC	IC	ns	ns	IC	IC	ns
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2020	IC	IC	IC	IC	IC	IC	IC	E
20 Aug 2020	ns	ns	ns	ns	ns	ns	ns	IC
25 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Aug 2020	E	E	E	IC	IC	IC	E	IC
06 Aug 2020	IC	IC	IC	ns	ns	IC	IC	ns
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2020	IC	IC	IC	IC	IC	IC	IC	E
20 Aug 2020	ns	ns	ns	ns	ns	ns	ns	IC
25 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Aug 2020	E	E	E	IC	IC	E	E	IC
06 Aug 2020	IC	IC	IC	ns	ns	IC	IC	ns
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
25 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Aug 2020	E	E	E	IC	IC	E	E	IC
06 Aug 2020	IC	IC	IC	ns	ns	IC	IC	ns
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2020	IC	IC	IC	IC	IC	IC	IC	E
20 Aug 2020	ns	ns	ns	ns	ns	ns	ns	IC
25 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Aug 2020	E	IC	IC	IC	IC	IC	E
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC
17 Aug 2020	IC	IC	IC	IC	IC	IC	IC
27 Aug 2020	IC	IC	IC	IC	IC	IC	IC
31 Aug 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Aug 2020	E	E	E	E	IC	IC	E
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC
17 Aug 2020	IC	IC	IC	IC	IC	IC	IC
27 Aug 2020	IC	IC	IC	IC	IC	IC	IC
31 Aug 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Aug 2020	E	E	E	IC	IC	IC	E
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC
17 Aug 2020	IC	IC	IC	IC	IC	IC	IC
27 Aug 2020	IC	IC	IC	IC	IC	IC	IC
31 Aug 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
04 Aug 2020	E	E	E	E	IC	IC	E
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC
17 Aug 2020	IC	IC	IC	IC	IC	IC	IC
27 Aug 2020	IC	IC	IC	IC	IC	IC	IC
31 Aug 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

September 2020

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2020	IC	E	IC	IC	IC	IC	IC	IC
10 Sep 2020	IC	IC	IC	ns	ns	IC	IC	IC
15 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
22 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
29 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2020	E	E	E	IC	IC	E	E	E
10 Sep 2020	IC	IC	IC	ns	ns	IC	IC	IC
15 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
22 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
29 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2020	E	E	E	IC	IC	E	E	E
10 Sep 2020	IC	IC	IC	ns	ns	IC	IC	IC
15 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
22 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
29 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2020	E	E	E	IC	IC	E	E	E
10 Sep 2020	IC	IC	IC	ns	ns	IC	IC	IC
15 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
22 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC
29 Sep 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
08 Sep 2020	E	IC	E	E	IC	IC	E
14 Sep 2020	IC	IC	IC	IC	IC	IC	IC
21 Sep 2020	IC	IC	IC	IC	IC	IC	IC
28 Sep 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
08 Sep 2020	E	E	E	E	IC	E	E
14 Sep 2020	IC	IC	IC	IC	IC	IC	IC
21 Sep 2020	IC	IC	IC	IC	IC	IC	IC
28 Sep 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
08 Sep 2020	E	E	E	E	IC	E	E
14 Sep 2020	IC	IC	IC	IC	IC	IC	IC
21 Sep 2020	IC	IC	IC	IC	IC	IC	IC
28 Sep 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
08 Sep 2020	E	E	E	E	IC	IC	E
14 Sep 2020	IC	IC	IC	IC	IC	IC	IC
21 Sep 2020	IC	IC	IC	IC	IC	IC	IC
28 Sep 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

November 2020

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2020	E	E	IC	IC	IC	E	IC	IC
12 Nov 2020	IC	IC	ns	ns	ns	IC	ns	ns
14 Nov 2020	ns	IC	ns	ns	ns	ns	ns	ns
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
24 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2020	E	E	IC	IC	IC	E	IC	IC
12 Nov 2020	IC	E	ns	ns	ns	IC	ns	ns
14 Nov 2020	ns	IC	ns	ns	ns	ns	ns	ns
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
24 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2020	E	E	IC	IC	IC	E	IC	IC
12 Nov 2020	IC	IC	ns	ns	ns	IC	ns	ns
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
24 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2020	E	E	IC	IC	IC	E	IC	IC
12 Nov 2020	IC	E	ns	ns	ns	IC	ns	ns
14 Nov 2020	ns	IC	ns	ns	ns	ns	ns	ns
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
24 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Nov 2020	IC	IC	IC	IC	IC	IC	IC
11 Nov 2020	IC	IC	E	IC	IC	IC	IC
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC
23 Nov 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Nov 2020	IC	IC	IC	IC	IC	IC	IC
11 Nov 2020	IC	IC	E	IC	IC	IC	E
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC
23 Nov 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
02 Nov 2020	IC	IC	IC	IC	IC	IC	IC
11 Nov 2020	IC	IC	E	IC	IC	IC	E
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC
23 Nov 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

January 2019

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2019	5176	4025	423	20*	10*	11238	2673	53*
02 Jan 2019	4280	4563	195	13	8	9071	1301	28
03 Jan 2019	5062	4025	107	11*	10*	8683	1076	30*
04 Jan 2019	5062	3433	107	11*	10*	8683	1076	30*
05 Jan 2019	5062	2944	107	11*	10*	8252	768	30*
06 Jan 2019	5062	2439	107	11*	10*	7770	498	30*
07 Jan 2019	5062	2439	107	11*	10*	7770	498	30*
08 Jan 2019	5355	2269	81	8	7	8233	218	28
09 Jan 2019	5355	2269	81	8	7	8233	218	28
10 Jan 2019	4781	1801	46	6*	8*	6375	107	17*
11 Jan 2019	4599	1801	46	6*	8*	6375	107	17*
12 Jan 2019	4106	1421	19*	6*	8*	5814	54	17*
13 Jan 2019	4383	1005	19*	6*	8*	5196	19*	17*
14 Jan 2019	4383	1005	19*	6*	8*	5196	19*	17*
15 Jan 2019	4088	1542	73	20	9	4514	75	65
16 Jan 2019	4088	1542	73	20	9	4514	75	65
17 Jan 2019	3874	3035	225	30	8*	3250	263	94
18 Jan 2019	3874	3736	202	30	8*	3250	272	94
19 Jan 2019	3874	3736	202	30	8*	3250	272	94
20 Jan 2019	3874	3842	202	30	8*	3250	272	94
21 Jan 2019	3874	3842	202	30	8*	3250	272	94
22 Jan 2019	3867	2535	161	28	9	3044	187	106
23 Jan 2019	3867	2535	161	28	9	3044	187	106
24 Jan 2019	4164	2535	161	28	9	3044	187	106
25 Jan 2019	4532	3213	180	30	8*	2474	189	148
26 Jan 2019	4041	3213	180	30	8*	1895	189	148
27 Jan 2019	4532	3213	180	30	8*	1895	189	148
28 Jan 2019	4064	3213	180	30	8*	1328	189	148
29 Jan 2019	2464	3772	196	19	6	1554	190	114
30 Jan 2019	2679	3772	196	19	6	1547	190	114
31 Jan 2019	2679	3772	196	19	6	1547	190	114

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2019	885	926	39	2*	3*	1937	334	5*
02 Jan 2019	691	1169	24	2	3	1462	200	4
03 Jan 2019	838	926	16	2*	3*	1508	171	5*
04 Jan 2019	838	741	16	2*	3*	1508	171	5*
05 Jan 2019	838	561	16	2*	3*	1518	100	5*
06 Jan 2019	838	399	16	2*	3*	1494	56	5*
07 Jan 2019	838	399	16	2*	3*	1494	56	5*
08 Jan 2019	922	415	14	2	3	1523	23	4
09 Jan 2019	922	415	14	2	3	1523	23	4
10 Jan 2019	791	320	8	2*	3*	1057	13	3*
11 Jan 2019	759	320	8	2*	3*	1057	13	3*
12 Jan 2019	590	269	5*	2*	3*	829	7	3*
13 Jan 2019	639	178	5*	2*	3*	616	3*	3*
14 Jan 2019	639	178	5*	2*	3*	616	3*	3*
15 Jan 2019	548	353	17	6	4	477	12	12
16 Jan 2019	548	353	17	6	4	477	12	12
17 Jan 2019	543	858	61	12	4*	375	50	24
18 Jan 2019	543	1193	57	12	4*	375	56	39
19 Jan 2019	543	1193	57	12	4*	375	56	39
20 Jan 2019	543	1224	57	12	4*	375	56	36
21 Jan 2019	543	1224	57	12	4*	375	56	36
22 Jan 2019	533	793	39	9	5	341	39	32
23 Jan 2019	533	793	39	9	5	341	39	32
24 Jan 2019	604	793	39	9	5	341	39	32
25 Jan 2019	698	1106	43	12	6*	298	50	48
26 Jan 2019	607	1106	43	12	6*	244	50	48
27 Jan 2019	698	1106	43	12	6*	244	50	48
28 Jan 2019	619	1106	43	12	6*	126	50	48
29 Jan 2019	407	1403	48	9	5	168	67	39
30 Jan 2019	490	1403	48	9	5	169	67	39
31 Jan 2019	490	1403	48	9	5	169	67	39

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2019	321	1159	65	3*	5*	662	74	12
02 Jan 2019	267	1378	39	3	4	549	47	9
03 Jan 2019	318	1242	41	3*	5*	549	42	12
04 Jan 2019	318	1087	41	3*	5*	549	42	12
05 Jan 2019	318	890	41	3*	5*	485	42	12
06 Jan 2019	318	606	41	3*	5*	414	42	12
07 Jan 2019	318	606	41	3*	5*	414	42	12
08 Jan 2019	332	591	27	3	4	442	29	9
09 Jan 2019	332	591	27	3	4	442	29	9
10 Jan 2019	269	465	16	3*	4*	347	19	5
11 Jan 2019	239	465	16	3*	4*	347	19	5
12 Jan 2019	189	472	10	3*	4*	277	14	4*
13 Jan 2019	172	398	6*	3*	4*	210	9	4*
14 Jan 2019	172	398	6*	3*	4*	210	9	4*
15 Jan 2019	160	621	18	5	5	223	19	10
16 Jan 2019	160	621	18	5	5	223	19	10
17 Jan 2019	194	621	31	5*	3*	202	35	13
18 Jan 2019	151	813	29	5*	3*	202	29	13
19 Jan 2019	151	611	29	5*	3*	229	29	13
20 Jan 2019	151	541	29	5*	3*	229	29	13
21 Jan 2019	151	723	29	5*	3*	229	29	13
22 Jan 2019	134	511	20	4	3	192	25	19
23 Jan 2019	134	511	20	4	3	192	25	19
24 Jan 2019	134	511	20	4	3	192	25	14
25 Jan 2019	114	700	22	5*	3*	147	28	19
26 Jan 2019	96	700	22	5*	3*	125	28	19
27 Jan 2019	96	700	22	5*	3*	125	28	19
28 Jan 2019	80	700	22	5*	3*	69	28	19
29 Jan 2019	62	906	27	5	3	83	37	15
30 Jan 2019	62	906	27	5	3	83	37	15
31 Jan 2019	62	906	27	5	3	83	37	15

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jan 2019	IC	E	IC	IC	IC	IC	IC	IC
04 Jan 2019	ns	IC	ns	ns	ns	ns	ns	ns
08 Jan 2019	IC	IC	IC	IC	IC	IC	IC	IC
10 Jan 2019	IC	IC	ns	ns	ns	IC	ns	ns
11 Jan 2019	IC	ns	ns	ns	ns	ns	ns	ns
13 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
15 Jan 2019	ns	E	E	IC	IC	ns	E	E
17 Jan 2019	IC	E	IC	IC	ns	IC	E	IC
18 Jan 2019	ns	E	IC	ns	ns	ns	IC	ns
20 Jan 2019	ns	IC	ns	ns	ns	ns	ns	ns
22 Jan 2019	IC	IC	IC	IC	IC	IC	IC	IC
24 Jan 2019	IC	ns	ns	ns	ns	ns	ns	ns
25 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
27 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
29 Jan 2019	IC	E	IC	IC	IC	IC	IC	IC
31 Jan 2019	ns	ns	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jan 2019	IC	E	IC	IC	IC	IC	IC	IC
04 Jan 2019	ns	IC	ns	ns	ns	ns	ns	ns
08 Jan 2019	E	E	IC	IC	IC	E	IC	IC
10 Jan 2019	E	IC	ns	ns	ns	IC	ns	ns
11 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
13 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
15 Jan 2019	ns	E	E	E	IC	ns	E	E
17 Jan 2019	IC	E	E	IC	ns	IC	E	E
18 Jan 2019	ns	E	IC	ns	ns	ns	IC	E
20 Jan 2019	ns	E	ns	ns	ns	ns	ns	IC
22 Jan 2019	E	IC	IC	IC	IC	IC	IC	IC
24 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
25 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
27 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
29 Jan 2019	IC	E	IC	IC	IC	E	IC	IC
31 Jan 2019	ns	ns	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jan 2019	IC	E	IC	IC	IC	IC	IC	IC
04 Jan 2019	ns	E	ns	ns	ns	ns	ns	ns
06 Jan 2019	ns	E	ns	ns	ns	ns	ns	ns
08 Jan 2019	E	E	IC	IC	IC	E	IC	IC
10 Jan 2019	E	IC	ns	ns	ns	IC	ns	ns
11 Jan 2019	IC	ns	ns	ns	ns	ns	ns	ns
15 Jan 2019	ns	E	E	IC	IC	ns	E	E
17 Jan 2019	E	E	E	ns	ns	IC	E	IC
18 Jan 2019	IC	E	IC	ns	ns	ns	IC	ns
20 Jan 2019	ns	E	ns	ns	ns	ns	ns	ns
22 Jan 2019	IC	IC	IC	IC	IC	IC	IC	E
24 Jan 2019	ns	ns	ns	ns	ns	ns	ns	IC
29 Jan 2019	IC	E	E	IC	IC	E	E	IC
31 Jan 2019	ns	ns	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jan 2019	IC	E	IC	IC	IC	IC	IC	IC
04 Jan 2019	ns	IC	ns	ns	ns	ns	ns	ns
08 Jan 2019	E	E	IC	IC	IC	E	IC	IC
10 Jan 2019	E	IC	ns	ns	ns	IC	ns	ns
11 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
13 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
15 Jan 2019	ns	E	E	E	IC	ns	E	E
17 Jan 2019	IC	E	E	IC	ns	IC	E	IC
18 Jan 2019	ns	E	IC	ns	ns	ns	IC	ND
20 Jan 2019	ns	E	ns	ns	ns	ns	ns	ND
22 Jan 2019	E	IC	IC	IC	IC	IC	IC	IC
24 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
25 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
27 Jan 2019	E	ns	ns	ns	ns	ns	ns	ns
29 Jan 2019	IC	E	IC	IC	IC	E	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2019	6675*	1816*	448*	32*	19*	6*	2549*
02 Jan 2019	2715*	400*	63*	21*	10*	3*	2693*
03 Jan 2019	2715*	400*	63*	21*	10*	3*	2693*
04 Jan 2019	2715*	400*	63*	21*	10*	3*	2693*
05 Jan 2019	2715*	400*	63*	21*	10*	3*	2693*
06 Jan 2019	2715*	400*	63*	21*	10*	3*	2693*
07 Jan 2019	2443	432	101	13	9	12	2296
08 Jan 2019	2443	432	101	13	9	12	2296
09 Jan 2019	1843*	188*	84*	8*	3*	11*	1641*
10 Jan 2019	1843*	188*	84*	8*	3*	11*	1641*
11 Jan 2019	1843*	188*	84*	8*	3*	11*	1641*
12 Jan 2019	1843*	188*	84*	8*	3*	11*	1641*
13 Jan 2019	1843*	188*	84*	8*	3*	11*	1641*
14 Jan 2019	1921	201	99	36	11	21	2289
15 Jan 2019	1921	201	99	36	11	21	2289
16 Jan 2019	1921	201	99	36	12*	38*	2289
17 Jan 2019	1921	201	99	36	12*	38*	2289
18 Jan 2019	1921	201	99	36	12*	38*	2289
19 Jan 2019	1738*	223*	148*	43*	12*	38*	5094*
20 Jan 2019	1738*	223*	148*	43*	12*	38*	5094*
21 Jan 2019	1738*	223*	148*	43*	12*	38*	5094*
22 Jan 2019	1738*	223*	148*	43*	12*	38*	5094*
23 Jan 2019	1721	488	80	36	10	32	5926
24 Jan 2019	1721	488	80	36	10	32	5926
25 Jan 2019	1721	488	80	36	10	32	5926
26 Jan 2019	991*	375*	39*	32*	15*	64*	4725*
27 Jan 2019	991*	375*	39*	32*	15*	64*	4725*
28 Jan 2019	612	434	53	51	21	63	3228
29 Jan 2019	612	434	53	51	21	63	3228
30 Jan 2019	612	434	53	51	21	63	3228
31 Jan 2019	612	434	53	51	21	63	3228

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2019	700*	249*	56*	6*	5*	3*	330*
02 Jan 2019	328*	70*	14*	6*	5*	2*	316*
03 Jan 2019	328*	70*	14*	6*	5*	2*	316*
04 Jan 2019	328*	70*	14*	6*	5*	2*	316*
05 Jan 2019	328*	70*	14*	6*	5*	2*	316*
06 Jan 2019	328*	70*	14*	6*	5*	2*	316*
07 Jan 2019	292	72	19	5	4	5	251
08 Jan 2019	292	72	19	5	4	5	251
09 Jan 2019	212*	37*	14*	3*	2*	6*	189*
10 Jan 2019	212*	37*	14*	3*	2*	6*	189*
11 Jan 2019	212*	37*	14*	3*	2*	6*	189*
12 Jan 2019	212*	37*	14*	3*	2*	6*	189*
13 Jan 2019	212*	37*	14*	3*	2*	6*	189*
14 Jan 2019	205	35	16	11	5	9	254
15 Jan 2019	205	35	16	11	5	9	254
16 Jan 2019	205	35	16	11	6*	12*	254
17 Jan 2019	205	35	16	11	6*	12*	254
18 Jan 2019	205	35	16	11	6*	12*	254
19 Jan 2019	178*	38*	27*	17*	6*	12*	469*
20 Jan 2019	178*	38*	27*	17*	6*	12*	469*
21 Jan 2019	178*	38*	27*	17*	6*	12*	469*
22 Jan 2019	178*	38*	27*	17*	6*	12*	469*
23 Jan 2019	189	79	16	11	5	9	587
24 Jan 2019	189	79	16	11	5	9	587
25 Jan 2019	189	79	16	11	5	9	587
26 Jan 2019	112*	51*	9*	12*	6*	13*	436*
27 Jan 2019	112*	51*	9*	12*	6*	13*	436*
28 Jan 2019	90	71	11	18	8	10	357
29 Jan 2019	90	71	11	18	8	10	357
30 Jan 2019	90	71	11	18	8	10	357
31 Jan 2019	90	71	11	18	8	10	357

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2019	120*	50*	43*	7*	8*	3*	61*
02 Jan 2019	78*	23*	20*	7*	8*	3*	93*
03 Jan 2019	78*	23*	20*	7*	8*	3*	93*
04 Jan 2019	78*	23*	20*	7*	8*	3*	93*
05 Jan 2019	78*	23*	20*	7*	8*	3*	93*
06 Jan 2019	78*	23*	20*	7*	8*	3*	93*
07 Jan 2019	80	31	25	5	6	7	102
08 Jan 2019	80	31	25	5	6	7	102
09 Jan 2019	68*	18*	21*	3*	3*	6*	92*
10 Jan 2019	68*	18*	21*	3*	3*	6*	92*
11 Jan 2019	68*	18*	21*	3*	3*	6*	92*
12 Jan 2019	68*	18*	21*	3*	3*	6*	92*
13 Jan 2019	68*	18*	21*	3*	3*	6*	92*
14 Jan 2019	81	22	23	9	6	9	108
15 Jan 2019	81	22	23	9	6	9	108
16 Jan 2019	81	22	23	9	5*	12*	108
17 Jan 2019	81	22	23	9	5*	12*	108
18 Jan 2019	81	22	23	9	5*	12*	108
19 Jan 2019	79*	29*	24*	9*	5*	12*	170*
20 Jan 2019	79*	29*	24*	9*	5*	12*	170*
21 Jan 2019	79*	29*	24*	9*	5*	12*	170*
22 Jan 2019	79*	29*	24*	9*	5*	12*	170*
23 Jan 2019	72	43	15	7	4	9	168
24 Jan 2019	72	43	15	7	4	9	168
25 Jan 2019	72	43	15	7	4	9	168
26 Jan 2019	48*	36*	10*	8*	5*	12*	150*
27 Jan 2019	48*	36*	10*	8*	5*	12*	150*
28 Jan 2019	35	54	10	10	7	9	121
29 Jan 2019	35	54	10	10	7	9	121
30 Jan 2019	35	54	10	10	7	9	121
31 Jan 2019	35	54	10	10	7	9	121

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2019	IC	IC	IC	IC	IC	IC	IC
07 Jan 2019	IC	IC	IC	IC	IC	IC	IC
14 Jan 2019	IC	IC	IC	E	IC	IC	E
23 Jan 2019	IC	E	IC	IC	IC	IC	E
28 Jan 2019	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2019	IC	IC	IC	IC	IC	IC	E
07 Jan 2019	IC	IC	IC	IC	IC	IC	IC
14 Jan 2019	IC	IC	IC	E	IC	IC	E
23 Jan 2019	IC	E	IC	IC	IC	IC	E
28 Jan 2019	IC	E	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2019	IC	IC	IC	IC	IC	IC	E
07 Jan 2019	E	E	IC	IC	IC	E	E
14 Jan 2019	E	IC	IC	E	IC	IC	E
23 Jan 2019	IC	E	IC	IC	IC	IC	E
28 Jan 2019	IC	E	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2019	IC	IC	IC	IC	IC	IC	IC
07 Jan 2019	IC	E	IC	IC	IC	IC	IC
14 Jan 2019	E	IC	IC	E	E	IC	E
23 Jan 2019	E	E	IC	IC	IC	IC	E
28 Jan 2019	IC	E	IC	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

February 2019

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2019	3091	3527	374	30	6*	1802	687	255
02 Feb 2019	3091	3527	374	30	6*	1802	687	255
03 Feb 2019	3091	4687	374	30	6*	2461	1018	255
04 Feb 2019	3091	4687	374	30	6*	2461	1018	255
05 Feb 2019	3091	5192	374	30	6*	3110	1383	255
06 Feb 2019	3400	4786	399	28	8	3731	1272	245
07 Feb 2019	3071	4802	656	47	11*	3461	2017	404
08 Feb 2019	3386	5242	656	47	11*	4103	2017	404
09 Feb 2019	3284	6279	656	47	11*	4920	2017	404
10 Feb 2019	2711	6748	656	47	11*	5609	2017	404
11 Feb 2019	2711	6748	656	47	11*	5609	2017	404
12 Feb 2019	2125	7177	745	41	13	5108	2297	167
13 Feb 2019	2125	7177	745	41	13	5108	2297	167
14 Feb 2019	2553	7177	745	19	11*	5667	2297	68
15 Feb 2019	2553	7177	745	19	11*	5667	2297	68
16 Feb 2019	3462	7177	866	11*	11*	7738	2385	39*
17 Feb 2019	3462	6748	1204	11*	11*	7738	2982	39*
18 Feb 2019	3170	5677	866	11*	11*	6625	2276	39*
19 Feb 2019	3122	4698	701	12	8	7090	1840	53
20 Feb 2019	3122	4698	701	12	8	7090	1840	53
21 Feb 2019	3071	6571	1056	10*	6*	6744	2892	38*
22 Feb 2019	3071	6571	1056	10*	6*	6744	2892	38*
23 Feb 2019	2774	6571	1056	10*	6*	6744	2892	38*
24 Feb 2019	2328	6571	1056	10*	6*	6744	2892	38*
25 Feb 2019	2328	6571	1056	10*	6*	6744	2892	38*
26 Feb 2019	1393	7002	643	12	12	5725	3379	24
27 Feb 2019	1393	7002	643	12	12	5725	3379	24
28 Feb 2019	2410	7002	710	18*	18*	5885	4006	23*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2019	607	1182	81	12	5*	215	231	60
02 Feb 2019	607	1182	81	12	5*	215	231	60
03 Feb 2019	607	1864	81	12	5*	264	374	60
04 Feb 2019	607	1864	81	12	5*	264	374	60
05 Feb 2019	607	2177	81	12	5*	425	550	60
06 Feb 2019	629	1904	79	12	5	499	468	54
07 Feb 2019	550	2019	121	17	5*	467	858	86
08 Feb 2019	591	1927	121	17	5*	608	858	86
09 Feb 2019	581	2552	121	17	5*	823	858	86
10 Feb 2019	453	2875	121	17	5*	1001	858	86
11 Feb 2019	453	2875	121	17	5*	1001	858	86
12 Feb 2019	363	3184	147	15	4	951	991	54
13 Feb 2019	363	3184	147	15	4	951	991	54
14 Feb 2019	431	3184	180	8	3*	1018	1117	32
15 Feb 2019	431	3184	180	8	3*	1018	1117	32
16 Feb 2019	571	3184	196	5*	3*	1588	1158	20
17 Feb 2019	571	2875	255	5*	3*	1588	1520	11
18 Feb 2019	488	2245	149	5*	3*	1311	986	11
19 Feb 2019	435	1745	111	4	3	1280	670	12
20 Feb 2019	435	1745	111	4	3	1280	670	12
21 Feb 2019	434	2503	179	5*	2*	1193	1117	11*
22 Feb 2019	434	2503	179	5*	2*	1193	1117	11*
23 Feb 2019	372	2503	179	5*	2*	1193	1117	11*
24 Feb 2019	296	2503	179	5*	2*	1193	1117	11*
25 Feb 2019	296	2503	179	5*	2*	1193	1117	11*
26 Feb 2019	158	2800	102	4	2	984	1387	8
27 Feb 2019	158	2800	102	4	2	984	1387	8
28 Feb 2019	238	2800	104	5*	2*	987	1099	8*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2019	66	778	44	6*	4*	164	77	22
02 Feb 2019	66	778	44	6*	4*	164	77	22
03 Feb 2019	66	1085	44	6*	4*	252	136	22
04 Feb 2019	66	1085	44	6*	4*	252	136	22
05 Feb 2019	66	1581	44	6*	4*	379	198	22
06 Feb 2019	90	1411	52	8	4	426	200	27
07 Feb 2019	70	1555	82	11*	5*	458	317	41
08 Feb 2019	97	1721	94	11*	5*	509	301	41
09 Feb 2019	94	2311	94	11*	5*	678	301	41
10 Feb 2019	87	2623	101	11*	5*	705	286	41
11 Feb 2019	87	2623	101	11*	5*	705	286	41
12 Feb 2019	86	2924	106	11	5	590	307	31
13 Feb 2019	86	2924	106	11	5	590	307	31
14 Feb 2019	86	2924	129	7*	4*	590	352	20
15 Feb 2019	86	2924	129	7*	4*	590	352	20
16 Feb 2019	74	2924	164	7*	4*	721	420	15
17 Feb 2019	95	2623	208	7*	4*	721	574	15
18 Feb 2019	95	2104	190	7*	4*	721	489	15
19 Feb 2019	106	2211	173	6	4	677	433	20
20 Feb 2019	106	2211	173	6	4	677	433	20
21 Feb 2019	135	2698	270	8*	4*	787	578	13
22 Feb 2019	236	2770	270	8*	4*	987	578	13
23 Feb 2019	236	2770	270	8*	4*	987	578	21*
24 Feb 2019	262	3019	270	8*	4*	995	578	21*
25 Feb 2019	262	3019	270	8*	4*	995	578	21*
26 Feb 2019	198	3275	173	6	4	802	669	13
27 Feb 2019	198	3275	173	6	4	802	669	13
28 Feb 2019	283	3275	181	7*	3*	874	623	17*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2019	ns	E	ns	ns	ns	ND	E	ns
03 Feb 2019	ns	E	ns	ns	ns	E	E	ns
05 Feb 2019	ns	E	ns	ns	ns	E	E	ns
06 Feb 2019	IC	IC	IC	IC	IC	E	IC	IC
08 Feb 2019	IC	E	ns	ns	ns	E	ns	ns
10 Feb 2019	IC	E	ns	ns	ns	E	ns	ns
12 Feb 2019	IC	E	IC	IC	IC	IC	IC	IC
14 Feb 2019	E	E	E	ns	ns	E	E	ns
16 Feb 2019	E	E	E	ns	ns	E	E	ns
18 Feb 2019	IC	IC	IC	ns	ns	IC	IC	ns
19 Feb 2019	IC	IC	IC	IC	IC	E	IC	IC
21 Feb 2019	ns	ns	ns	ns	ns	IC	ns	ns
26 Feb 2019	IC	E	IC	IC	IC	IC	E	IC
28 Feb 2019	ns	E	ns	ns	ns	ns	IC	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2019	ns	E	ns	ns	ns	ND	E	ns
03 Feb 2019	ns	E	ns	ns	ns	E	E	ns
05 Feb 2019	ns	E	ns	ns	ns	E	E	ns
06 Feb 2019	E	IC	IC	IC	IC	E	IC	IC
08 Feb 2019	E	E	ns	ns	ns	E	ns	ns
10 Feb 2019	IC	E	ns	ns	ns	E	ns	ns
12 Feb 2019	IC	E	E	IC	IC	E	E	IC
14 Feb 2019	E	E	E	ns	ns	E	E	ns
16 Feb 2019	E	E	E	ns	ns	E	E	ns
18 Feb 2019	IC	IC	IC	ns	ns	IC	IC	ns
19 Feb 2019	IC	IC	IC	IC	IC	E	IC	IC
21 Feb 2019	ns	ns	ns	ns	ns	IC	ns	ns
26 Feb 2019	IC	E	IC	IC	IC	IC	E	IC
28 Feb 2019	ns	E	ns	ns	ns	ns	IC	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2019	ns	E	ns	ns	ns	E	E	ns
03 Feb 2019	ns	E	ns	ns	ns	E	E	ns
05 Feb 2019	ns	E	ns	ns	ns	E	E	ns
06 Feb 2019	E	E	E	IC	IC	E	E	IC
08 Feb 2019	E	E	E	ns	ns	E	E	ns
10 Feb 2019	IC	E	E	ns	ns	E	E	ns
12 Feb 2019	IC	E	E	IC	IC	IC	E	IC
14 Feb 2019	ns	E	E	ns	ns	ns	E	ns
16 Feb 2019	ns	E	E	ns	ns	ns	E	ns
18 Feb 2019	ns	E	IC	ns	ns	ns	IC	ns
19 Feb 2019	E	E	IC	IC	IC	E	IC	IC
21 Feb 2019	E	E	ns	ns	ns	E	ns	ns
22 Feb 2019	E	E	ns	ns	ns	E	ns	ns
24 Feb 2019	E	E	ns	ns	ns	E	ns	ns
26 Feb 2019	IC	E	IC	IC	IC	IC	E	IC
28 Feb 2019	ns	E	ns	ns	ns	ns	IC	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2019	ns	E	ns	ns	ns	ns	E	ns
03 Feb 2019	ns	E	ns	ns	ns	IC	E	ns
05 Feb 2019	ns	E	ns	ns	ns	E	E	ns
06 Feb 2019	E	E	IC	IC	IC	E	IC	IC
08 Feb 2019	E	IC	ns	ns	ns	E	ns	ns
10 Feb 2019	IC	E	ns	ns	ns	E	ns	ns
12 Feb 2019	E	E	E	IC	IC	E	E	IC
14 Feb 2019	E	E	E	ns	ns	E	E	ns
16 Feb 2019	E	E	E	ns	ns	E	E	ns
18 Feb 2019	IC	IC	IC	ns	ns	E	IC	ns
19 Feb 2019	IC	IC	IC	IC	IC	IC	IC	IC
21 Feb 2019	ns	ns	ns	ns	ns	IC	ns	ns
26 Feb 2019	IC	E	IC	IC	IC	IC	E	IC
28 Feb 2019	ns	E	ns	ns	ns	ns	IC	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2019	856*	1080*	111*	115*	37*	149*	2993*
02 Feb 2019	856*	1080*	111*	115*	37*	149*	2993*
03 Feb 2019	856*	1080*	111*	115*	37*	149*	2993*
04 Feb 2019	856*	1080*	111*	115*	37*	149*	2993*
05 Feb 2019	856*	1080*	111*	115*	37*	149*	2993*
06 Feb 2019	694*	1324*	61*	446*	78*	65*	4044*
07 Feb 2019	704*	1191*	69*	302*	92*	27*	3334*
08 Feb 2019	704*	1191*	69*	302*	92*	27*	3334*
09 Feb 2019	704*	1191*	69*	302*	92*	27*	3334*
10 Feb 2019	704*	1191*	69*	302*	92*	27*	3334*
11 Feb 2019	966	529	60	151	63	21	1733
12 Feb 2019	966	529	60	151	63	21	1733
13 Feb 2019	781*	628*	45*	47*	30*	11*	1159*
14 Feb 2019	781*	628*	45*	47*	30*	11*	1159*
15 Feb 2019	781*	628*	45*	47*	30*	11*	1159*
16 Feb 2019	781*	628*	45*	47*	30*	11*	1159*
17 Feb 2019	781*	628*	45*	47*	30*	11*	1159*
18 Feb 2019	781*	628*	45*	47*	30*	11*	1159*
19 Feb 2019	810	374	46	56	37	15	1616
20 Feb 2019	810	374	46	56	37	15	1616
21 Feb 2019	810	374	46	56	37	15	1616
22 Feb 2019	678*	160*	74*	75*	60*	15*	1004*
23 Feb 2019	678*	160*	74*	75*	60*	15*	1004*
24 Feb 2019	678*	160*	74*	75*	60*	15*	1004*
25 Feb 2019	495	181	119	40	54	14	667
26 Feb 2019	495	181	119	40	54	14	667
27 Feb 2019	759*	126*	108*	24*	50*	10*	658*
28 Feb 2019	759*	126*	108*	24*	50*	10*	658*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2019	131*	173*	16*	30*	12*	16*	371*
02 Feb 2019	131*	173*	16*	30*	12*	16*	371*
03 Feb 2019	131*	173*	16*	30*	12*	16*	371*
04 Feb 2019	131*	173*	16*	30*	12*	16*	371*
05 Feb 2019	131*	173*	16*	30*	12*	16*	371*
06 Feb 2019	118*	222*	11*	75*	21*	7*	576*
07 Feb 2019	135*	189*	11*	47*	21*	5*	490*
08 Feb 2019	135*	189*	11*	47*	21*	5*	490*
09 Feb 2019	135*	189*	11*	47*	21*	5*	490*
10 Feb 2019	135*	189*	11*	47*	21*	5*	490*
11 Feb 2019	166	90	9	25	13	5	215
12 Feb 2019	166	90	9	25	13	5	215
13 Feb 2019	163*	120*	7*	8*	7*	3*	153*
14 Feb 2019	163*	120*	7*	8*	7*	3*	153*
15 Feb 2019	163*	120*	7*	8*	7*	3*	153*
16 Feb 2019	163*	120*	7*	8*	7*	3*	153*
17 Feb 2019	163*	120*	7*	8*	7*	3*	153*
18 Feb 2019	163*	120*	7*	8*	7*	3*	153*
19 Feb 2019	137	75	7	9	6	3	194
20 Feb 2019	137	75	7	9	6	3	194
21 Feb 2019	137	75	7	9	6	3	194
22 Feb 2019	119*	36*	9*	13*	8*	4*	118*
23 Feb 2019	119*	36*	9*	13*	8*	4*	118*
24 Feb 2019	119*	36*	9*	13*	8*	4*	118*
25 Feb 2019	70	35	16	9	7	4	90
26 Feb 2019	70	35	16	9	7	4	90
27 Feb 2019	81*	21*	15*	5*	5*	4*	78*
28 Feb 2019	81*	21*	15*	5*	5*	4*	78*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2019	50*	123*	14*	15*	9*	14*	126*
02 Feb 2019	50*	123*	14*	15*	9*	14*	126*
03 Feb 2019	50*	123*	14*	15*	9*	14*	126*
04 Feb 2019	50*	123*	14*	15*	9*	14*	126*
05 Feb 2019	50*	123*	14*	15*	9*	14*	126*
06 Feb 2019	42*	133*	9*	28*	14*	6*	119*
07 Feb 2019	49*	140*	15*	42*	20*	4*	122*
08 Feb 2019	49*	140*	15*	42*	20*	4*	122*
09 Feb 2019	49*	140*	15*	42*	20*	4*	122*
10 Feb 2019	49*	140*	15*	42*	20*	4*	122*
11 Feb 2019	50	90	17	35	14	4	71
12 Feb 2019	50	90	17	35	14	4	71
13 Feb 2019	37*	106*	14*	18*	9*	2*	54*
14 Feb 2019	37*	106*	14*	18*	9*	2*	54*
15 Feb 2019	37*	106*	14*	18*	9*	2*	54*
16 Feb 2019	37*	106*	14*	18*	9*	2*	54*
17 Feb 2019	37*	106*	14*	18*	9*	2*	54*
18 Feb 2019	37*	106*	14*	18*	9*	2*	54*
19 Feb 2019	45	79	13	18	11	3	85
20 Feb 2019	45	79	13	18	11	3	85
21 Feb 2019	45	79	13	18	11	3	85
22 Feb 2019	43*	63*	21*	31*	16*	3*	72*
23 Feb 2019	43*	63*	21*	31*	16*	3*	72*
24 Feb 2019	43*	63*	21*	31*	16*	3*	72*
25 Feb 2019	42	47	20	18	13	3	67
26 Feb 2019	42	47	20	18	13	3	67
27 Feb 2019	61*	30*	24*	17*	13*	3*	72*
28 Feb 2019	61*	30*	24*	17*	13*	3*	72*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
07 Feb 2019	IC	IC	IC	IC	IC	IC	IC
11 Feb 2019	IC	IC	IC	IC	IC	IC	IC
19 Feb 2019	IC	IC	IC	IC	IC	IC	E
25 Feb 2019	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
07 Feb 2019	E	IC	IC	IC	IC	IC	E
11 Feb 2019	E	IC	IC	IC	IC	IC	IC
19 Feb 2019	IC	IC	IC	IC	IC	IC	E
25 Feb 2019	IC	IC	E	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
07 Feb 2019	IC	E	E	E	E	IC	E
11 Feb 2019	IC	IC	IC	IC	IC	IC	IC
19 Feb 2019	E	IC	IC	IC	IC	IC	E
25 Feb 2019	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
07 Feb 2019	E	E	IC	IC	IC	IC	E
11 Feb 2019	E	IC	IC	IC	IC	IC	IC
19 Feb 2019	IC	IC	IC	IC	IC	IC	IC
25 Feb 2019	IC	IC	E	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

March 2019

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2019	2410	7399	710	18*	18*	5885	4006	23*
02 Mar 2019	2410	8185	710	18*	18*	6633	4006	23*
03 Mar 2019	2410	8185	710	18*	18*	6633	3488	23*
04 Mar 2019	2410	8185	710	18*	18*	6633	3488	23*
05 Mar 2019	2560	8185	493	12	12	6040	3162	22
06 Mar 2019	2560	8185	493	12	12	6040	3162	22
07 Mar 2019	2654	7386	493	12	12	6040	2876	22
08 Mar 2019	2785	7583	481	10*	10*	6040	3082	13*
09 Mar 2019	2785	7583	481	10*	10*	6040	3082	13*
10 Mar 2019	2935	7618	481	10*	10*	6040	2664	13*
11 Mar 2019	2935	7618	481	10*	10*	6040	2664	13*
12 Mar 2019	4069	7618	355	7	11	6040	1900	11
13 Mar 2019	4069	7618	355	7	11	6040	1900	11
14 Mar 2019	5078	7618	286	6*	9*	7125	1679	17*
15 Mar 2019	5078	7618	286	6*	9*	7125	1679	17*
16 Mar 2019	3201	7618	146	6*	9*	5143	1340	17*
17 Mar 2019	3201	7618	146	6*	9*	5143	1340	17*
18 Mar 2019	2805	7067	57	6*	9*	4639	1017	17*
19 Mar 2019	2805	7067	57	6*	9*	4639	1017	17*
20 Mar 2019	1479	7330	152	11	11	3095	1454	62
21 Mar 2019	1390	9283	150*	10*	16*	2626	1842	48*
22 Mar 2019	1390	9283	250	10*	16*	2626	1972	66
23 Mar 2019	1390	9283	250	10*	16*	2944	1954	66
24 Mar 2019	1390	9283	164	10*	16*	2944	1720	66
25 Mar 2019	1390	9283	164	10*	16*	2944	1720	66
26 Mar 2019	1537	9651	306	21	17	3487	2007	37
27 Mar 2019	1537	9651	306	21	17	3487	2007	37
28 Mar 2019	1228	9651	463	21*	10	4257	2007	58
29 Mar 2019	1228	9982	463	21*	10	3822	1384	58
30 Mar 2019	1228	9651	463	21*	10	3822	1391	58
31 Mar 2019	1228	7971	463	21*	10	3822	1391	58

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2019	238	3085	104	5*	2*	987	1099	8*
02 Mar 2019	238	3545	104	5*	2*	1149	1099	8*
03 Mar 2019	238	3734	104	5*	2*	1149	866	8*
04 Mar 2019	238	3734	104	5*	2*	1149	866	8*
05 Mar 2019	275	3734	69	4	2	1128	722	7
06 Mar 2019	275	3734	69	4	2	1128	722	7
07 Mar 2019	309	2976	69	4	2	1020	561	7
08 Mar 2019	350	3144	69	3*	2*	1134	635	5*
09 Mar 2019	350	3144	69	3*	2*	1134	635	5*
10 Mar 2019	399	3675	69	3*	2*	1220	536	5*
11 Mar 2019	399	3675	69	3*	2*	1220	536	5*
12 Mar 2019	680	3675	45	3	2	1316	336	4
13 Mar 2019	680	3675	45	3	2	1316	336	4
14 Mar 2019	963	3675	32	2*	2*	1690	271	5*
15 Mar 2019	963	3675	32	2*	2*	1690	271	5*
16 Mar 2019	638	3675	12	2*	2*	1229	186	5*
17 Mar 2019	638	3675	12	2*	2*	1229	186	5*
18 Mar 2019	582	2994	4	2*	2*	999	132	5*
19 Mar 2019	582	2994	4	2*	2*	999	132	5*
20 Mar 2019	400	2909	15	4	2	827	198	16
21 Mar 2019	461	4015	15*	4*	2*	815	275	14*
22 Mar 2019	461	4015	29	4*	2*	815	298	16
23 Mar 2019	461	4015	29	4*	2*	1081	289	16
24 Mar 2019	461	4015	21	4*	2*	1081	247	16
25 Mar 2019	461	4015	21	4*	2*	1081	247	16
26 Mar 2019	498	4342	41	9	2	1303	306	11
27 Mar 2019	498	4342	41	9	2	1303	306	11
28 Mar 2019	446	4342	57	13*	3	1678	296	16
29 Mar 2019	446	4646	57	13*	3	1298	202	16
30 Mar 2019	446	4342	57	13*	3	1298	238	16
31 Mar 2019	446	3217	57	13*	3	1298	238	16

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2019	283	3520	181	7*	3*	874	623	17*
02 Mar 2019	283	4143	206	7*	3*	1018	699	17*
03 Mar 2019	283	4270	206	7*	3*	929	775	17*
04 Mar 2019	283	4270	206	7*	3*	929	775	17*
05 Mar 2019	210	4270	130	6	3	570	429	11
06 Mar 2019	210	4270	130	6	3	570	429	11
07 Mar 2019	210	3303	130	6	3	428	338	11
08 Mar 2019	180	3063	127	4*	2*	381	353	7*
09 Mar 2019	180	3063	127	4*	2*	381	353	7*
10 Mar 2019	148	2943	117	4*	2*	327	380	7*
11 Mar 2019	148	2943	117	4*	2*	327	380	7*
12 Mar 2019	287	2943	73	4	3	446	264	5
13 Mar 2019	287	2943	73	4	3	446	264	5
14 Mar 2019	403	2943	65	3*	2*	708	233	5*
15 Mar 2019	403	2943	65	3*	2*	708	233	5*
16 Mar 2019	253	2943	27	3*	2*	450	133	5*
17 Mar 2019	253	2943	27	3*	2*	450	133	5*
18 Mar 2019	253	2380	10	3*	2*	450	71	5*
19 Mar 2019	253	2380	10	3*	2*	450	71	5*
20 Mar 2019	209	2222	8	3	4	330	89	12
21 Mar 2019	210	2528	5*	3*	5*	326	89	7*
22 Mar 2019	210	2528	5	3*	5*	326	110	10
23 Mar 2019	209	2974	5	3*	5*	339	94	10
24 Mar 2019	117	2907	5	3*	5*	204	69	10
25 Mar 2019	117	2907	5	3*	5*	204	69	10
26 Mar 2019	103	2927	15	6	11	239	96	7
27 Mar 2019	103	2927	15	6	11	239	96	7
28 Mar 2019	76	2927	27	8*	11	353	91	10
29 Mar 2019	76	3237	27	8*	11	358	62	10
30 Mar 2019	76	2927	27	8*	11	358	61	10
31 Mar 2019	76	2054	27	8*	11	265	61	10

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
03 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
05 Mar 2019	IC	E	IC	IC	IC	IC	IC	IC
07 Mar 2019	IC	IC	ns	ns	ns	E	IC	ns
08 Mar 2019	E	IC	ns	ns	ns	E	IC	ns
10 Mar 2019	E	E	ns	ns	ns	E	IC	ns
12 Mar 2019	E	E	IC	IC	IC	E	IC	IC
14 Mar 2019	E	E	ns	ns	ns	E	ns	ns
16 Mar 2019	IC	E	ns	ns	ns	IC	ns	ns
18 Mar 2019	ns	IC	ns	ns	ns	ns	ns	ns
20 Mar 2019	IC	IC	E	IC	IC	IC	IC	E
22 Mar 2019	ns	ns	IC	ns	ns	ns	IC	IC
23 Mar 2019	ns	ns	ns	ns	ns	ns	IC	ns
24 Mar 2019	ns	ns	IC	ns	ns	ns	IC	ns
26 Mar 2019	IC	E	E	IC	IC	E	E	IC
28 Mar 2019	IC	E	IC	ns	ns	IC	E	ns
29 Mar 2019	ns	E	ns	ns	ns	IC	IC	ns
31 Mar 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
03 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
05 Mar 2019	E	E	IC	IC	IC	E	E	IC
07 Mar 2019	E	E	ns	ns	ns	E	E	ns
08 Mar 2019	E	E	ns	ns	ns	E	IC	ns
10 Mar 2019	E	E	ns	ns	ns	E	IC	ns
12 Mar 2019	E	E	IC	IC	IC	E	IC	IC
14 Mar 2019	E	E	ns	ns	ns	E	ns	ns
16 Mar 2019	IC	E	ns	ns	ns	IC	ns	ns
18 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
20 Mar 2019	IC	IC	E	IC	IC	IC	E	E
22 Mar 2019	ns	ns	IC	ns	ns	ns	E	IC
23 Mar 2019	ns	ns	ns	ns	ns	ns	IC	ns
24 Mar 2019	ns	ns	IC	ns	ns	ns	IC	ns
26 Mar 2019	E	E	E	IC	IC	E	E	IC
28 Mar 2019	IC	E	IC	ns	ns	E	E	ns
29 Mar 2019	ns	E	ns	ns	ns	IC	IC	ns
31 Mar 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
03 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
05 Mar 2019	IC	E	IC	IC	IC	IC	IC	IC
07 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
08 Mar 2019	ns	IC	ns	ns	ns	ns	ns	ns
10 Mar 2019	ns	ns	ns	ns	ns	ns	ns	ns
12 Mar 2019	E	E	IC	IC	IC	E	IC	IC
14 Mar 2019	E	E	ns	ns	ns	E	ns	ns
16 Mar 2019	IC	E	ns	ns	ns	IC	ns	ns
18 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
20 Mar 2019	IC	IC	IC	IC	IC	IC	E	E
22 Mar 2019	ns	ns	ns	ns	ns	ns	E	IC
23 Mar 2019	ns	ns	ns	ns	ns	ns	IC	ns
24 Mar 2019	ns	ns	ns	ns	ns	ns	IC	ns
26 Mar 2019	E	E	E	IC	E	E	E	IC
28 Mar 2019	IC	E	IC	ns	IC	E	E	ns
29 Mar 2019	ns	E	ns	ns	ns	E	IC	ns
31 Mar 2019	ns	E	ns	ns	ns	IC	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
03 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
05 Mar 2019	E	E	IC	IC	IC	E	E	IC
07 Mar 2019	E	E	ns	ns	ns	E	E	ns
08 Mar 2019	E	E	ns	ns	ns	E	E	ns
10 Mar 2019	E	E	ns	ns	ns	E	IC	ns
12 Mar 2019	E	E	IC	IC	IC	E	IC	IC
14 Mar 2019	E	E	ns	ns	ns	E	ns	ns
16 Mar 2019	IC	E	ns	ns	ns	IC	ns	ns
18 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns
20 Mar 2019	IC	IC	E	IC	IC	IC	E	E
22 Mar 2019	ns	ns	E	ns	ns	ns	E	IC
23 Mar 2019	ns	ns	ns	ns	ns	ns	E	ns
24 Mar 2019	ns	ns	IC	ns	ns	ns	IC	ns
26 Mar 2019	E	E	E	IC	IC	E	E	IC
28 Mar 2019	IC	E	IC	ns	ns	E	E	ns
29 Mar 2019	ns	E	ns	ns	ns	IC	IC	ns
31 Mar 2019	ns	E	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2019	81*	21*	15*	5*	5*	4*	78*
02 Mar 2019	81*	21*	15*	5*	5*	4*	78*
03 Mar 2019	81*	21*	15*	5*	5*	4*	78*
04 Mar 2019	109	13	10	4	4	3	181
05 Mar 2019	109	13	10	4	4	3	181
06 Mar 2019	109	13	10	4	4	3	181
07 Mar 2019	109	13	10	4	4	3	181
08 Mar 2019	109	13	10	4	4	3	181
09 Mar 2019	93*	8*	10*	3*	3*	4*	160*
10 Mar 2019	93*	8*	10*	3*	3*	4*	160*
11 Mar 2019	141	24	23	3	3	4	256
12 Mar 2019	141	24	23	3	3	4	256
13 Mar 2019	110*	36*	36*	4*	3*	5*	608*
14 Mar 2019	110*	36*	36*	4*	3*	5*	608*
15 Mar 2019	110*	36*	36*	4*	3*	5*	608*
16 Mar 2019	110*	36*	36*	4*	3*	5*	608*
17 Mar 2019	110*	36*	36*	4*	3*	5*	608*
18 Mar 2019	97	25	37	4	3	11	445
19 Mar 2019	97	25	37	4	3	11	445
20 Mar 2019	97	25	37	4	3	11	445
21 Mar 2019	106*	31*	58*	3*	3*	12*	432*
22 Mar 2019	106*	31*	58*	3*	3*	12*	432*
23 Mar 2019	106*	31*	58*	3*	3*	12*	432*
24 Mar 2019	106*	31*	58*	3*	3*	12*	432*
25 Mar 2019	140	39	30	3	2	10	581
26 Mar 2019	140	39	30	3	2	10	581
27 Mar 2019	285*	41*	20*	3*	2*	13*	1206*
28 Mar 2019	285*	41*	20*	3*	2*	13*	1206*
29 Mar 2019	285*	41*	20*	3*	2*	13*	1206*
30 Mar 2019	285*	41*	20*	3*	2*	13*	1206*
31 Mar 2019	285*	41*	20*	3*	2*	13*	1206*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2019	61*	30*	24*	17*	13*	3*	72*
02 Mar 2019	61*	30*	24*	17*	13*	3*	72*
03 Mar 2019	61*	30*	24*	17*	13*	3*	72*
04 Mar 2019	41	19	14	11	11	2	160
05 Mar 2019	41	19	14	11	11	2	160
06 Mar 2019	41	19	14	11	11	2	160
07 Mar 2019	41	19	14	11	11	2	160
08 Mar 2019	41	19	14	11	11	2	160
09 Mar 2019	35*	11*	10*	6*	7*	3*	169*
10 Mar 2019	35*	11*	10*	6*	7*	3*	169*
11 Mar 2019	52	22	18	5	7	3	173
12 Mar 2019	52	22	18	5	7	3	173
13 Mar 2019	51*	24*	16*	3*	8*	3*	374*
14 Mar 2019	51*	24*	16*	3*	8*	3*	374*
15 Mar 2019	51*	24*	16*	3*	8*	3*	374*
16 Mar 2019	51*	24*	16*	3*	8*	3*	374*
17 Mar 2019	51*	24*	16*	3*	8*	3*	374*
18 Mar 2019	36	14	12	4	6	4	215
19 Mar 2019	36	14	12	4	6	4	215
20 Mar 2019	36	14	12	4	6	4	215
21 Mar 2019	29*	13*	13*	2*	4*	4*	172*
22 Mar 2019	29*	13*	13*	2*	4*	4*	172*
23 Mar 2019	29*	13*	13*	2*	4*	4*	172*
24 Mar 2019	29*	13*	13*	2*	4*	4*	172*
25 Mar 2019	35	12	9	2	4	4	239
26 Mar 2019	35	12	9	2	4	4	239
27 Mar 2019	35*	11*	8*	2*	3*	4*	356*
28 Mar 2019	35*	11*	8*	2*	3*	4*	356*
29 Mar 2019	35*	11*	8*	2*	3*	4*	356*
30 Mar 2019	35*	11*	8*	2*	3*	4*	356*
31 Mar 2019	35*	11*	8*	2*	3*	4*	356*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Mar 2019	IC	IC	IC	IC	IC	IC	E
11 Mar 2019	E	E	E	IC	IC	IC	E
18 Mar 2019	IC	IC	IC	IC	IC	IC	IC
25 Mar 2019	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Mar 2019	759*	126*	108*	24*	50*	10*	658*
02 Mar 2019	759*	126*	108*	24*	50*	10*	658*
03 Mar 2019	759*	126*	108*	24*	50*	10*	658*
04 Mar 2019	898	85	56	18	33	8	1136
05 Mar 2019	898	85	56	18	33	8	1136
06 Mar 2019	898	85	56	18	33	8	1136
07 Mar 2019	898	85	56	18	33	8	1136
08 Mar 2019	898	85	56	18	33	8	1136
09 Mar 2019	945*	47*	48*	12*	23*	11*	1004*
10 Mar 2019	945*	47*	48*	12*	23*	11*	1004*
11 Mar 2019	1536	124	125	14	15	16	1406
12 Mar 2019	1536	124	125	14	15	16	1406
13 Mar 2019	1256*	194*	174*	16*	15*	19*	2566*
14 Mar 2019	1256*	194*	174*	16*	15*	19*	2566*
15 Mar 2019	1256*	194*	174*	16*	15*	19*	2566*
16 Mar 2019	1256*	194*	174*	16*	15*	19*	2566*
17 Mar 2019	1256*	194*	174*	16*	15*	19*	2566*
18 Mar 2019	948	139	205	21	15	50	2114
19 Mar 2019	948	139	205	21	15	50	2114
20 Mar 2019	948	139	205	21	15	50	2114
21 Mar 2019	950*	183*	290*	14*	10*	47*	1622*
22 Mar 2019	950*	183*	290*	14*	10*	47*	1622*
23 Mar 2019	950*	183*	290*	14*	10*	47*	1622*
24 Mar 2019	950*	183*	290*	14*	10*	47*	1622*
25 Mar 2019	1139	290	141	11	7	36	1977
26 Mar 2019	1139	290	141	11	7	36	1977
27 Mar 2019	1922*	287*	92*	14*	5*	50*	3905*
28 Mar 2019	1922*	287*	92*	14*	5*	50*	3905*
29 Mar 2019	1922*	287*	92*	14*	5*	50*	3905*
30 Mar 2019	1922*	287*	92*	14*	5*	50*	3905*
31 Mar 2019	1922*	287*	92*	14*	5*	50*	3905*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Mar 2019	E	IC	IC	IC	IC	IC	E
11 Mar 2019	E	E	E	IC	IC	IC	E
18 Mar 2019	IC	IC	IC	IC	IC	E	IC
25 Mar 2019	E	IC	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Mar 2019	IC	IC	IC	IC	IC	IC	E
11 Mar 2019	E	E	E	IC	IC	IC	E
18 Mar 2019	IC	IC	IC	IC	IC	IC	IC
25 Mar 2019	E	IC	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
04 Mar 2019	E	IC	IC	IC	IC	IC	E
11 Mar 2019	E	E	E	IC	IC	IC	E
18 Mar 2019	IC	IC	IC	IC	IC	IC	E
25 Mar 2019	E	IC	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

April 2019

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2019	1228	7971	463	21*	10	3822	1391	58
02 Apr 2019	1258	6274	358	13	7	3368	1004	37
03 Apr 2019	1258	6274	358	13	7	3368	1004	37
04 Apr 2019	874	5838	494	21*	10	3238	865	42
05 Apr 2019	874	5838	494	21*	10	3238	865	42
06 Apr 2019	754	6051	494	21*	10	2760	723	42
07 Apr 2019	541	6534	494	21*	10	2270	688	42
08 Apr 2019	541	6534	494	21*	10	2270	688	42
09 Apr 2019	368	4188	331	21	7	1641	488	37
10 Apr 2019	368	4188	331	21	7	1641	488	37
11 Apr 2019	230	3662	444	38*	6	1234	634	53
12 Apr 2019	230	3662	444	38*	6	1234	634	53
13 Apr 2019	125	3109	444	38*	6	856	634	53
14 Apr 2019	125	3109	444	38*	6	856	634	53
15 Apr 2019	130	2533	444	38*	6	1008	634	53
16 Apr 2019	100	1479	226	41	12	415	398	31
17 Apr 2019	100	1252	226	41	12	415	398	31
18 Apr 2019	100	1252	226	41	12	415	398	31
19 Apr 2019	191	1293	123	30*	11	729	300	9
20 Apr 2019	191	1293	123	30*	11	729	300	9
21 Apr 2019	191	1293	78	30*	11	729	222	4*
22 Apr 2019	191	1293	78	30*	11	729	164	4*
23 Apr 2019	100	1448	53	18	8	314	127	5
24 Apr 2019	100	1448	53	18	8	314	127	5
25 Apr 2019	54	1028	18	8*	6	163	61	7*
26 Apr 2019	54	1028	18	8*	6	163	61	7*
27 Apr 2019	76	650	8*	8*	6*	82	20	7*
28 Apr 2019	76	343	8*	8*	6*	41	21*	7*
29 Apr 2019	76	343	8*	8*	6*	41	21*	7*
30 Apr 2019	76	256	8*	8*	6*	41	21*	7*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2019	446	3217	57	13*	3	1298	238	16
02 Apr 2019	459	2278	49	9	2	1210	197	11
03 Apr 2019	459	2278	49	9	2	1210	197	11
04 Apr 2019	311	2005	71	13*	3	832	164	14
05 Apr 2019	311	2005	71	13*	3	832	164	14
06 Apr 2019	277	2251	71	13*	3	728	139	14
07 Apr 2019	208	2467	71	13*	3	586	126	14
08 Apr 2019	208	2467	71	13*	3	586	126	14
09 Apr 2019	131	1214	45	9	2	410	85	11
10 Apr 2019	131	1214	45	9	2	410	85	11
11 Apr 2019	73	965	71	13*	3	282	129	16
12 Apr 2019	73	965	71	13*	3	282	129	16
13 Apr 2019	35	729	71	13*	3	176	129	16
14 Apr 2019	35	729	71	13*	3	176	129	16
15 Apr 2019	37	514	71	13*	3	215	129	16
16 Apr 2019	25	277	45	12	5	120	85	11
17 Apr 2019	25	248	45	12	5	120	85	11
18 Apr 2019	25	248	45	12	5	120	85	11
19 Apr 2019	37	304	25	9*	7	155	67	4
20 Apr 2019	37	304	25	9*	7	155	67	4
21 Apr 2019	37	304	15	9*	7	155	51	2*
22 Apr 2019	37	304	15	9*	7	155	42	2*
23 Apr 2019	25	271	14	7	5	90	31	3
24 Apr 2019	25	271	14	7	5	90	31	3
25 Apr 2019	13	157	5	3*	5	48	14	3*
26 Apr 2019	13	157	5	3*	5	48	14	3*
27 Apr 2019	19	76	3*	3*	5*	29	4	3*
28 Apr 2019	19	28	3*	3*	5*	23	5*	3*
29 Apr 2019	19	28	3*	3*	5*	23	5*	3*
30 Apr 2019	19	17	3*	3*	5*	23	5*	3*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2019	76	2054	27	8*	11	265	61	10
02 Apr 2019	77	1473	26	6	8	241	52	7
03 Apr 2019	77	1473	26	6	8	241	52	7
04 Apr 2019	99	866	44	8*	11	311	63	10
05 Apr 2019	99	866	44	8*	11	311	63	10
06 Apr 2019	99	1008	44	8*	11	311	63	10
07 Apr 2019	99	1244	44	8*	11	311	63	10
08 Apr 2019	99	1244	44	8*	11	311	63	10
09 Apr 2019	76	771	26	6	8	256	45	7
10 Apr 2019	76	771	26	6	8	256	45	7
11 Apr 2019	39	601	38	6*	10	167	56	10
12 Apr 2019	39	601	38	6*	10	167	56	10
13 Apr 2019	22	445	38	6*	10	112	56	10
14 Apr 2019	22	445	38	6*	10	112	56	10
15 Apr 2019	29	309	38	6*	10	154	56	10
16 Apr 2019	18	187	23	7	14	90	40	7
17 Apr 2019	18	171	23	7	14	90	40	7
18 Apr 2019	18	171	23	7	14	90	40	7
19 Apr 2019	16	206	21	8*	11	111	32	3
20 Apr 2019	16	206	21	8*	11	111	32	3
21 Apr 2019	16	206	21	8*	11	111	24	2*
22 Apr 2019	16	206	21	8*	11	111	23	2*
23 Apr 2019	11	169	14	6	8	67	23	2
24 Apr 2019	11	169	14	6	8	67	23	2
25 Apr 2019	6	99	6	3*	4	38	12	2*
26 Apr 2019	6	99	6	3*	4	38	12	2*
27 Apr 2019	8	50	4*	3*	5*	24	4	2*
28 Apr 2019	8	20	4*	3*	5*	13	5*	2*
29 Apr 2019	8	20	4*	3*	5*	13	5*	2*
30 Apr 2019	8	14	4*	3*	5*	12	5*	2*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Apr 2019	E	IC	IC	IC	IC	E	IC	IC
04 Apr 2019	IC	ns	ns	ns	ns	IC	ns	ns
09 Apr 2019	IC	IC	IC	IC	IC	IC	IC	IC
16 Apr 2019	IC	IC	IC	IC	IC	IC	IC	IC
23 Apr 2019	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Apr 2019	E	IC	IC	IC	IC	IC	IC	IC
04 Apr 2019	IC	ns	ns	ns	ns	ns	ns	ns
09 Apr 2019	IC	IC	IC	IC	IC	IC	IC	IC
16 Apr 2019	IC	IC	IC	IC	IC	IC	IC	IC
23 Apr 2019	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2019	1922*	287*	92*	14*	5*	50*	3905*
02 Apr 2019	1922*	287*	92*	14*	5*	50*	3905*
03 Apr 2019	1768*	443*	186*	14*	3*	57*	1090*
04 Apr 2019	1768*	443*	186*	14*	3*	57*	1090*
05 Apr 2019	1768*	443*	186*	14*	3*	57*	1090*
06 Apr 2019	1768*	443*	186*	14*	3*	57*	1090*
07 Apr 2019	1768*	443*	186*	14*	3*	57*	1090*
08 Apr 2019	651	224	75	10	3	29	342
09 Apr 2019	651	224	75	10	3	29	342
10 Apr 2019	323*	99*	26*	7*	3*	24*	172*
11 Apr 2019	323*	99*	26*	7*	3*	24*	172*
12 Apr 2019	323*	99*	26*	7*	3*	24*	172*
13 Apr 2019	323*	99*	26*	7*	3*	24*	172*
14 Apr 2019	323*	99*	26*	7*	3*	24*	172*
15 Apr 2019	130	45	15	6	3	15	75
16 Apr 2019	130	45	15	6	3	15	75
17 Apr 2019	104*	48*	7*	3*	2*	4*	39*
18 Apr 2019	104*	48*	7*	3*	2*	4*	39*
19 Apr 2019	104*	48*	7*	3*	2*	4*	39*
20 Apr 2019	104*	48*	7*	3*	2*	4*	39*
21 Apr 2019	104*	48*	7*	3*	2*	4*	39*
22 Apr 2019	104*	48*	7*	3*	2*	4*	39*
23 Apr 2019	62	51	5	3	2	3	22
24 Apr 2019	25*	21*	5*	3*	2*	3*	6*
25 Apr 2019	25*	21*	5*	3*	2*	3*	6*
26 Apr 2019	25*	21*	5*	3*	2*	3*	6*
27 Apr 2019	25*	21*	5*	3*	2*	3*	6*
28 Apr 2019	25*	21*	5*	3*	2*	3*	6*
29 Apr 2019	25*	21*	5*	3*	2*	3*	6*
30 Apr 2019	37	28	9	5	3	2	9

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2019	285*	41*	20*	3*	2*	13*	1206*
02 Apr 2019	285*	41*	20*	3*	2*	13*	1206*
03 Apr 2019	284*	70*	32*	3*	2*	12*	222*
04 Apr 2019	284*	70*	32*	3*	2*	12*	222*
05 Apr 2019	284*	70*	32*	3*	2*	12*	222*
06 Apr 2019	284*	70*	32*	3*	2*	12*	222*
07 Apr 2019	284*	70*	32*	3*	2*	12*	222*
08 Apr 2019	112	40	18	3	2	8	87
09 Apr 2019	112	40	18	3	2	8	87
10 Apr 2019	69*	15*	7*	2*	2*	8*	41*
11 Apr 2019	69*	15*	7*	2*	2*	8*	41*
12 Apr 2019	69*	15*	7*	2*	2*	8*	41*
13 Apr 2019	69*	15*	7*	2*	2*	8*	41*
14 Apr 2019	69*	15*	7*	2*	2*	8*	41*
15 Apr 2019	34	10	6	2	2	6	23
16 Apr 2019	34	10	6	2	2	6	23
17 Apr 2019	30*	11*	3*	2*	2*	2*	15*
18 Apr 2019	30*	11*	3*	2*	2*	2*	15*
19 Apr 2019	30*	11*	3*	2*	2*	2*	15*
20 Apr 2019	30*	11*	3*	2*	2*	2*	15*
21 Apr 2019	30*	11*	3*	2*	2*	2*	15*
22 Apr 2019	30*	11*	3*	2*	2*	2*	15*
23 Apr 2019	17	8	3	2	2	2	10
24 Apr 2019	8*	4*	3*	2*	2*	2*	3*
25 Apr 2019	8*	4*	3*	2*	2*	2*	3*
26 Apr 2019	8*	4*	3*	2*	2*	2*	3*
27 Apr 2019	8*	4*	3*	2*	2*	2*	3*
28 Apr 2019	8*	4*	3*	2*	2*	2*	3*
29 Apr 2019	8*	4*	3*	2*	2*	2*	3*
30 Apr 2019	9	5	4	2	2	2	3

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2019	35*	11*	8*	2*	3*	4*	356*
02 Apr 2019	35*	11*	8*	2*	3*	4*	356*
03 Apr 2019	59*	12*	11*	2*	3*	4*	53*
04 Apr 2019	59*	12*	11*	2*	3*	4*	53*
05 Apr 2019	59*	12*	11*	2*	3*	4*	53*
06 Apr 2019	59*	12*	11*	2*	3*	4*	53*
07 Apr 2019	59*	12*	11*	2*	3*	4*	53*
08 Apr 2019	30	9	8	2	3	4	28
09 Apr 2019	30	9	8	2	3	4	28
10 Apr 2019	18*	4*	3*	2*	2*	4*	17*
11 Apr 2019	18*	4*	3*	2*	2*	4*	17*
12 Apr 2019	18*	4*	3*	2*	2*	4*	17*
13 Apr 2019	18*	4*	3*	2*	2*	4*	17*
14 Apr 2019	18*	4*	3*	2*	2*	4*	17*
15 Apr 2019	11	3	3	2	2	3	11
16 Apr 2019	11	3	3	2	2	3	11
17 Apr 2019	12*	4*	3*	2*	2*	2*	9*
18 Apr 2019	12*	4*	3*	2*	2*	2*	9*
19 Apr 2019	12*	4*	3*	2*	2*	2*	9*
20 Apr 2019	12*	4*	3*	2*	2*	2*	9*
21 Apr 2019	12*	4*	3*	2*	2*	2*	9*
22 Apr 2019	12*	4*	3*	2*	2*	2*	9*
23 Apr 2019	9	4	3	2	2	2	7
24 Apr 2019	5*	3*	3*	2*	2*	2*	2*
25 Apr 2019	5*	3*	3*	2*	2*	2*	2*
26 Apr 2019	5*	3*	3*	2*	2*	2*	2*
27 Apr 2019	5*	3*	3*	2*	2*	2*	2*
28 Apr 2019	5*	3*	3*	2*	2*	2*	2*
29 Apr 2019	5*	3*	3*	2*	2*	2*	2*
30 Apr 2019	6	3	3	2	2	2	3

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
03 Apr 2019	E	IC	IC	IC	IC	IC	IC
08 Apr 2019	IC	IC	IC	IC	IC	IC	IC
15 Apr 2019	IC	IC	IC	IC	IC	IC	IC
23 Apr 2019	IC	IC	IC	IC	IC	IC	IC
30 Apr 2019	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
03 Apr 2019	E	IC	IC	IC	IC	IC	IC
08 Apr 2019	IC	IC	IC	IC	IC	IC	IC
15 Apr 2019	IC	IC	IC	IC	IC	IC	IC
23 Apr 2019	IC	IC	IC	IC	IC	IC	IC
30 Apr 2019	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

May 2019

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2019	77	328	27	6	16	47	36	28
02 May 2019	42	287	22	8	27	23	42	46
03 May 2019	42	287	74	8	27	23	42	117
04 May 2019	36	287	74	8	27	23	42	117
05 May 2019	36	287	74	8	27	23	42	117
06 May 2019	36	287	74	8	27	23	42	117
07 May 2019	30	210	99	6	25	20	74	147
08 May 2019	30	210	99	6	25	20	74	147
09 May 2019	15	241	137	5	48	8	103	218
10 May 2019	15	241	137	5	48	8	103	218
11 May 2019	15	241	137	5	48	8	103	218
12 May 2019	15	241	137	5	48	8	103	218
13 May 2019	15	241	137	5	48	8	103	218
14 May 2019	16	352	141	21	64	9	137	432
15 May 2019	16	352	141	21	64	9	137	432
16 May 2019	15	365	329	16	51	14	300	1203
17 May 2019	15	365	329	16	51	14	300	1203
18 May 2019	15	365	329	16	51	14	300	1203
19 May 2019	15	365	329	16	51	14	300	1203
20 May 2019	15	365	329	16	51	14	300	1203
21 May 2019	61	365	328	27	67	57	367	670
22 May 2019	61	365	328	27	67	57	367	670
23 May 2019	110	504	909	52	161	259	537	1310
24 May 2019	110	504	909	52	161	259	537	1310
25 May 2019	110	896	909	52	161	318	537	1310
26 May 2019	110	896	909	52	161	318	537	1310
27 May 2019	110	1353	909	52	161	318	537	1310
28 May 2019	154	1843	481	43	168	384	278	721
29 May 2019	154	1843	481	43	168	384	278	721
30 May 2019	154	1997	481	43	168	384	278	721
31 May 2019	175	2067	329	92	112	499	268	473

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2019	13	28	9	4	12	17	6	12
02 May 2019	6	20	8	5	18	8	5	19
03 May 2019	6	20	20	5	18	8	5	37
04 May 2019	5	20	20	5	18	9	5	37
05 May 2019	5	20	13	5	18	9	5	25
06 May 2019	5	20	13	5	18	9	5	25
07 May 2019	6	20	17	4	15	9	8	22
08 May 2019	6	20	17	4	15	9	8	22
09 May 2019	3	30	24	5	25	4	11	30
10 May 2019	3	30	24	5	25	4	11	30
11 May 2019	3	30	24	5	25	4	11	30
12 May 2019	3	30	24	5	25	4	11	30
13 May 2019	3	30	24	5	25	4	11	30
14 May 2019	3	43	26	14	23	5	15	47
15 May 2019	3	43	26	14	23	5	15	47
16 May 2019	3	43	40	10	17	6	25	87
17 May 2019	3	43	40	10	17	6	25	87
18 May 2019	3	43	40	10	17	6	25	87
19 May 2019	3	43	40	10	17	6	25	87
20 May 2019	3	43	40	10	17	6	25	87
21 May 2019	16	43	46	8	13	27	30	54
22 May 2019	16	43	46	8	13	27	30	54
23 May 2019	24	109	78	10	20	94	44	71
24 May 2019	24	109	78	10	20	94	44	71
25 May 2019	24	239	78	10	20	96	44	71
26 May 2019	24	239	78	10	20	96	44	71
27 May 2019	24	418	78	10	20	96	44	71
28 May 2019	29	614	51	11	13	99	24	46
29 May 2019	29	614	51	11	13	99	24	46
30 May 2019	29	585	51	11	13	99	24	46
31 May 2019	50	535	35	10	6	170	24	26

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2019	8	16	7	3	11	9	6	5
02 May 2019	4	10	5	3	18	5	5	6
03 May 2019	4	10	5	3	15	5	5	7
04 May 2019	4	10	5	3	15	5	5	7
05 May 2019	4	10	5	3	15	5	5	7
06 May 2019	4	10	5	3	15	5	5	7
07 May 2019	5	11	6	3	11	5	6	8
08 May 2019	5	11	6	3	11	5	6	8
09 May 2019	4	14	8	3	15	3	8	10
10 May 2019	4	14	8	3	15	3	8	10
11 May 2019	4	14	8	3	15	3	8	10
12 May 2019	4	14	8	3	15	3	8	10
13 May 2019	4	14	8	3	15	3	8	10
14 May 2019	4	13	6	6	12	4	8	12
15 May 2019	4	13	6	6	12	4	8	12
16 May 2019	4	20	8	4	8	5	11	17
17 May 2019	4	20	8	4	8	5	11	17
18 May 2019	4	20	8	4	8	5	11	17
19 May 2019	4	20	8	4	8	5	11	17
20 May 2019	4	20	8	4	8	5	11	17
21 May 2019	14	20	10	4	6	16	10	12
22 May 2019	14	20	10	4	6	16	10	12
23 May 2019	14	85	15	4	8	36	10	17
24 May 2019	14	85	15	4	8	36	10	17
25 May 2019	14	229	15	4	8	36	10	17
26 May 2019	14	229	15	4	8	36	10	17
27 May 2019	14	407	15	4	8	36	10	17
28 May 2019	12	494	10	4	6	32	7	12
29 May 2019	12	494	10	4	6	32	7	12
30 May 2019	12	345	10	4	6	32	7	12
31 May 2019	13	481	6	4	3	49	6	8

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
03 May 2019	ns	ns	IC	ns	ns	ns	ns	IC
07 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
14 May 2019	IC	IC	IC	IC	IC	IC	IC	E
16 May 2019	ns	IC	ns	ns	ns	ns	ns	IC
21 May 2019	E	ns	IC	IC	IC	E	IC	IC
23 May 2019	IC	E	ns	ns	ns	IC	ns	ns
25 May 2019	ns	E	ns	ns	ns	IC	ns	ns
27 May 2019	ns	E	ns	ns	ns	ns	ns	ns
28 May 2019	IC	E	IC	IC	IC	IC	IC	IC
30 May 2019	ns	IC	ns	ns	ns	ns	ns	ns
31 May 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2019	IC	IC	E	IC	IC	IC	IC	E
03 May 2019	ns	ns	E	ns	ns	ns	ns	E
05 May 2019	ns	ns	IC	ns	ns	ns	ns	IC
07 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
14 May 2019	IC	IC	IC	E	IC	IC	IC	E
16 May 2019	ns	IC	ns	IC	ns	ns	ns	IC
21 May 2019	E	ns	IC	IC	IC	E	IC	IC
23 May 2019	IC	E	ns	ns	ns	E	ns	ns
25 May 2019	ns	E	ns	ns	ns	IC	ns	ns
27 May 2019	ns	E	ns	ns	ns	ns	ns	ns
28 May 2019	IC	E	IC	IC	IC	IC	IC	IC
30 May 2019	ns	IC	ns	ns	ns	ns	ns	ns
31 May 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2019	IC	IC	IC	IC	E	IC	IC	E
03 May 2019	ns	ns	ns	ns	IC	ns	ns	IC
07 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
14 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
21 May 2019	E	ns	IC	IC	IC	E	IC	IC
23 May 2019	IC	E	ns	ns	ns	IC	ns	ns
25 May 2019	ns	E	ns	ns	ns	ns	ns	ns
27 May 2019	ns	E	ns	ns	ns	ns	ns	ns
28 May 2019	IC	E	IC	IC	IC	IC	IC	IC
30 May 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2019	IC	IC	E	IC	IC	IC	IC	E
03 May 2019	ns	ns	IC	ns	ns	ns	ns	IC
05 May 2019	ns	ns	ND	ns	ns	ns	ns	ND
07 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
14 May 2019	IC	E	IC	IC	IC	IC	IC	IC
16 May 2019	ns	IC	ns	ND	ns	ns	ns	IC
21 May 2019	E	ns	IC	IC	IC	E	IC	IC
23 May 2019	IC	E	ns	ns	ns	E	ns	ns
25 May 2019	ns	E	ns	ns	ns	IC	ns	ns
27 May 2019	ns	E	ns	ns	ns	ns	ns	ns
28 May 2019	IC	E	IC	IC	IC	IC	IC	IC
30 May 2019	ns	E	ns	ns	ns	ns	ns	ns
31 May 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
06 May 2019	IC	IC	IC	IC	IC	IC	IC
13 May 2019	IC	IC	IC	IC	IC	IC	IC
23 May 2019	E	IC	IC	IC	IC	IC	IC
29 May 2019	E	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

June 2019

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2019	175	2067	329	92	112	499	268	473
02 Jun 2019	175	2067	146	92	112	499	268	295
03 Jun 2019	175	2067	146	92	112	499	268	295
04 Jun 2019	179	1300	155	108	214	438	160	277
05 Jun 2019	179	1300	155	108	214	438	160	277
06 Jun 2019	290	1829	120	291	225	797	110	250
07 Jun 2019	290	1829	120	291	225	797	110	250
08 Jun 2019	290	1829	120	291	225	797	110	250
09 Jun 2019	290	1829	120	291	225	797	110	250
10 Jun 2019	290	1829	120	291	225	797	110	250
11 Jun 2019	205	1466	66	170	221	504	78	190
12 Jun 2019	205	1466	66	170	221	504	78	190
13 Jun 2019	326	1452	53	63	225	862	51	82
14 Jun 2019	326	1452	53	63	225	862	51	82
15 Jun 2019	326	2425	53	63	225	862	51	44
16 Jun 2019	326	2425	53	63	225	862	51	44
17 Jun 2019	326	2425	53	63	225	862	51	44
18 Jun 2019	326	1423	53	50	221	862	51	60
19 Jun 2019	326	1423	53	50	221	862	51	60
20 Jun 2019	123	1423	29	36	225	481	20	79
21 Jun 2019	123	1423	29	36	225	481	20	79
22 Jun 2019	179	1051	29	36	225	287	20	79
23 Jun 2019	179	1051	29	36	225	287	20	79
24 Jun 2019	104	608	26	32	221	111	24	69
25 Jun 2019	104	608	26	32	221	111	24	69
26 Jun 2019	104	381	26	32	221	111	24	69
27 Jun 2019	52	204	29	36	225	50	26	94
28 Jun 2019	52	204	29	36	225	50	26	94
29 Jun 2019	52	114	29	36	225	50	26	94
30 Jun 2019	52	63	29	36	225	50	26	94

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2019	50	535	35	10	6	170	24	26
02 Jun 2019	50	535	19	10	6	170	24	16
03 Jun 2019	50	535	19	10	6	170	24	16
04 Jun 2019	48	385	48	8	17	125	23	21
05 Jun 2019	48	385	48	8	17	125	23	21
06 Jun 2019	58	541	43	10	20	185	19	25
07 Jun 2019	58	541	43	10	20	185	19	25
08 Jun 2019	58	541	43	10	20	185	19	25
09 Jun 2019	58	541	43	10	20	185	19	25
10 Jun 2019	58	541	43	10	20	185	19	25
11 Jun 2019	44	393	27	8	20	125	16	27
12 Jun 2019	44	393	27	8	20	125	16	27
13 Jun 2019	81	423	25	3	21	176	12	14
14 Jun 2019	81	423	25	3	21	176	12	14
15 Jun 2019	81	827	25	4	21	176	12	8
16 Jun 2019	81	827	25	4	21	176	12	8
17 Jun 2019	81	827	25	4	21	176	12	8
18 Jun 2019	81	423	25	4	14	176	12	11
19 Jun 2019	81	423	25	4	14	176	12	11
20 Jun 2019	27	423	15	4	19	78	7	16
21 Jun 2019	27	423	15	4	19	78	7	16
22 Jun 2019	31	279	15	4	19	42	7	16
23 Jun 2019	31	279	15	4	19	42	7	16
24 Jun 2019	28	125	21	6	28	28	11	17
25 Jun 2019	28	125	21	6	28	28	11	17
26 Jun 2019	28	65	21	6	28	28	11	17
27 Jun 2019	20	29	36	4	47	17	19	29
28 Jun 2019	20	29	36	4	47	17	19	29
29 Jun 2019	20	17	36	4	47	17	19	29
30 Jun 2019	20	12	36	4	47	17	19	29

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jun 2019	13	481	6	4	3	49	6	8
02 Jun 2019	13	481	6	4	2	49	6	6
03 Jun 2019	13	481	6	4	2	49	6	6
04 Jun 2019	11	288	6	4	5	35	5	6
05 Jun 2019	11	288	6	4	5	35	5	6
06 Jun 2019	11	436	5	4	6	49	4	6
07 Jun 2019	11	436	5	4	6	49	4	6
08 Jun 2019	11	436	5	4	6	49	4	6
09 Jun 2019	11	436	5	4	6	49	4	6
10 Jun 2019	11	436	5	4	6	49	4	6
11 Jun 2019	10	255	5	4	8	35	4	6
12 Jun 2019	10	255	5	4	8	35	4	6
13 Jun 2019	14	418	6	2	10	43	4	4
14 Jun 2019	14	418	6	2	10	43	4	4
15 Jun 2019	14	418	6	2	10	43	4	4
16 Jun 2019	14	418	6	2	10	43	4	4
17 Jun 2019	14	418	6	2	10	43	4	4
18 Jun 2019	14	214	6	2	7	43	4	5
19 Jun 2019	14	214	6	2	7	43	4	5
20 Jun 2019	4	214	4	3	10	16	3	7
21 Jun 2019	4	214	4	3	10	16	3	7
22 Jun 2019	5	121	4	3	10	9	3	7
23 Jun 2019	5	121	4	3	10	9	3	7
24 Jun 2019	5	48	3	3	16	7	4	5
25 Jun 2019	5	48	3	3	16	7	4	5
26 Jun 2019	5	21	3	3	16	7	4	5
27 Jun 2019	5	9	4	3	26	5	5	7
28 Jun 2019	5	9	4	3	26	5	5	7
29 Jun 2019	5	7	4	3	26	5	5	7
30 Jun 2019	5	7	4	3	26	5	5	7

* Geometric mean calculated using n<5

July 2019

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jul 2019	24	20	6	5	20	4	80
02 Jul 2019	24	20	6	5	20	4	80
03 Jul 2019	25	18	5	6	15	4	74
04 Jul 2019	25	18	5	6	15	4	74
05 Jul 2019	25	18	5	6	15	4	74
06 Jul 2019	25	18	5	6	15	4	74
07 Jul 2019	25	18	5	6	15	4	74
08 Jul 2019	36	14	4	9	13	4	139
09 Jul 2019	36	14	4	9	13	4	139
10 Jul 2019	29	10	3	7	13	3	157
11 Jul 2019	29	10	3	7	13	3	157
12 Jul 2019	29	10	3	7	13	3	157
13 Jul 2019	29	10	3	7	13	3	157
14 Jul 2019	29	10	3	7	13	3	157
15 Jul 2019	27	10	3	8	19	2	137
16 Jul 2019	27	10	3	8	19	2	137
17 Jul 2019	29	16	4	12	19	2	160
18 Jul 2019	29	16	4	12	19	2	160
19 Jul 2019	29	16	4	12	19	2	160
20 Jul 2019	29	16	4	12	19	2	160
21 Jul 2019	29	16	4	12	19	2	160
22 Jul 2019	29	16	4	12	19	2	160
23 Jul 2019	29	16	4	12	19	2	160
24 Jul 2019	18	10	3	8	12	3	88
25 Jul 2019	20	10	4	12	18	3	147
26 Jul 2019	20	10	4	12	18	3	147
27 Jul 2019	20	10	4	12	18	3	147
28 Jul 2019	20	10	4	12	18	3	147
29 Jul 2019	20	10	4	12	18	3	147
30 Jul 2019	30	7	3	8	11	3	100
31 Jul 2019	33	4	3	8	7	3	70

* Geometric mean calculated using n<5

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
01 Jul 2019	IC	IC	IC	IC	IC	IC	IC
08 Jul 2019	IC	IC	IC	IC	IC	IC	E
15 Jul 2019	IC	IC	IC	IC	IC	IC	IC
24 Jul 2019	IC	IC	IC	IC	IC	IC	IC
30 Jul 2019	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

November 2019

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2019	5*	4*	3*	2*	11	5*	4*	3*
02 Nov 2019	5*	4*	3*	2*	11	5*	4*	3*
03 Nov 2019	5*	4*	3*	2*	11	5*	4*	3*
04 Nov 2019	5*	4*	3*	2*	11	5*	4*	3*
05 Nov 2019	4	3	3	2	11	4	3	3
06 Nov 2019	4	3	3	2	11	4	3	3
07 Nov 2019	3*	3*	3*	2*	13	3*	3*	2*
08 Nov 2019	3*	3*	3*	2*	13	3*	3*	2*
09 Nov 2019	3*	3*	3*	2*	13	3*	3*	2*
10 Nov 2019	3*	3*	3*	2*	13	3*	3*	2*
11 Nov 2019	3*	3*	3*	2*	13	3*	3*	2*
12 Nov 2019	3	4	3	3	14	3	3	3
13 Nov 2019	3	4	3	3	14	3	3	3
14 Nov 2019	3*	4*	3*	3*	7	2*	3*	3*
15 Nov 2019	3*	4*	3*	3*	7	2*	3*	3*
16 Nov 2019	3*	4*	3*	3*	6*	2*	3*	3*
17 Nov 2019	3*	4*	3*	3*	6*	2*	3*	3*
18 Nov 2019	3*	4*	3*	3*	6*	2*	3*	3*
19 Nov 2019	4	4	3	3	6	3	4	3
20 Nov 2019	4	4	3	3	6	3	4	3
21 Nov 2019	5*	4*	3*	3*	6*	3*	5*	3*
22 Nov 2019	5*	4*	3*	3*	6*	3*	5*	3*
23 Nov 2019	5*	4*	3*	3*	6*	3*	5*	3*
24 Nov 2019	5*	4*	3*	3*	6*	3*	5*	3*
25 Nov 2019	5*	4*	3*	3*	6*	3*	5*	3*
26 Nov 2019	11	7	9	5	9	12	9	8
27 Nov 2019	22	7	15	5	9	23	15	13
28 Nov 2019	36	6	17	6*	12*	37	17	17
29 Nov 2019	94	6	50	6*	12*	96	51	50
30 Nov 2019	94	6	50	6*	12*	96	51	50

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
12 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
19 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
26 Nov 2019	E	IC	IC	IC	IC	E	E	E
27 Nov 2019	E	E	ns	ns	ns	IC	E	IC
28 Nov 2019	ns	ns	ns	ns	ns	ns	ns	ns
29 Nov 2019	E	E	ns	ns	ns	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
12 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
19 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
26 Nov 2019	E	IC	E	IC	IC	E	IC	E
27 Nov 2019	E	E	E	ns	ns	E	ns	ns
28 Nov 2019	ns	ns	ns	ns	ns	ns	ns	E
29 Nov 2019	E	E	E	ns	ns	E	ns	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
12 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
19 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
26 Nov 2019	E	IC	E	IC	IC	E	E	E
27 Nov 2019	E	ns	E	ns	ns	E	E	E
28 Nov 2019	ns	ns	ns	ns	ns	ns	ns	ns
29 Nov 2019	E	ns	E	ns	ns	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
05 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
12 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
19 Nov 2019	IC	IC	IC	IC	IC	IC	IC	IC
26 Nov 2019	E	E	IC	IC	IC	E	IC	E
27 Nov 2019	E	E	ns	ns	ns	E	ns	ns
28 Nov 2019	ns	ns	ns	ns	ns	ns	ns	ns
29 Nov 2019	E	E	ns	ns	ns	E	ns	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Nov 2019	IC	IC	IC	IC	IC	IC	IC
12 Nov 2019	IC	IC	IC	IC	IC	IC	IC
18 Nov 2019	IC	IC	IC	IC	IC	IC	IC
25 Nov 2019	IC	E	E	E	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Nov 2019	IC	IC	IC	IC	IC	IC	IC
12 Nov 2019	IC	IC	IC	IC	IC	IC	IC
18 Nov 2019	IC	IC	IC	IC	IC	IC	IC
25 Nov 2019	E	E	E	E	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
04 Nov 2019	IC	IC	IC	IC	IC	IC	IC
12 Nov 2019	IC	IC	IC	IC	IC	IC	IC
18 Nov 2019	IC	IC	IC	IC	IC	IC	IC
25 Nov 2019	IC	E	E	E	E	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
04 Nov 2019	IC	IC	IC	IC	IC	IC	IC
12 Nov 2019	IC	IC	IC	IC	IC	IC	IC
18 Nov 2019	IC	IC	IC	IC	IC	IC	IC
25 Nov 2019	E	E	E	E	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

December 2018

Exhibit 4. Bacterial Objective Violations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2018	10*	6*	4*	4*	11*	12*	5*	6*
02 Dec 2018	10*	6*	4*	4*	11*	12*	5*	6*
03 Dec 2018	10*	6*	4*	4*	11*	12*	5*	6*
04 Dec 2018	24	30	14	5	9	52	22	8
05 Dec 2018	24	30	14	5	9	52	22	8
06 Dec 2018	14*	115	13*	4*	8*	159	82	11*
07 Dec 2018	14*	263	13*	4*	8*	343	197	11*
08 Dec 2018	14*	263	13*	4*	8*	343	197	11*
09 Dec 2018	14*	434	13*	4*	8*	480	324	11*
10 Dec 2018	14*	434	13*	4*	8*	480	324	11*
11 Dec 2018	57	586	34	5	7	744	528	20
12 Dec 2018	57	586	34	5	7	744	528	20
13 Dec 2018	277	1737	128	6*	6*	1404	1218	20*
14 Dec 2018	484	2224	128	6*	6*	1840	1356	20*
15 Dec 2018	484	2224	128	6*	6*	1840	1356	20*
16 Dec 2018	732	2007	128	6*	6*	2284	1356	20*
17 Dec 2018	732	2007	128	6*	6*	2284	1356	20*
18 Dec 2018	730	1576	94	8	7	2535	889	28
19 Dec 2018	730	1576	94	8	7	2535	889	28
20 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
21 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
22 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
23 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
24 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
25 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
26 Dec 2018	1814	2016	173	13	11	5740	1301	28
27 Dec 2018	5580	4025	423	20*	10*	12993	2673	53*
28 Dec 2018	5580	4025	423	20*	10*	12993	2673	53*
29 Dec 2018	6228	4025	423	20*	10*	13220	2673	53*
30 Dec 2018	6228	4025	423	20*	10*	13220	2673	53*
31 Dec 2018	5176	4025	423	20*	10*	11238	2673	53*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2018	4*	4*	2*	2*	2*	8*	2*	4*
02 Dec 2018	4*	4*	2*	2*	2*	8*	2*	4*
03 Dec 2018	4*	4*	2*	2*	2*	8*	2*	4*
04 Dec 2018	8	18	5	2	2	22	7	3
05 Dec 2018	8	18	5	2	2	22	7	3
06 Dec 2018	6*	90	6*	2*	2*	41	38	2*
07 Dec 2018	6*	203	6*	2*	2*	76	89	2*
08 Dec 2018	6*	203	6*	2*	2*	76	89	2*
09 Dec 2018	6*	240	6*	2*	2*	104	124	2*
10 Dec 2018	6*	240	6*	2*	2*	104	124	2*
11 Dec 2018	23	273	12	2	2	159	157	3
12 Dec 2018	23	273	12	2	2	159	157	3
13 Dec 2018	113	614	24	2*	2*	353	296	3*
14 Dec 2018	162	771	24	2*	2*	522	286	3*
15 Dec 2018	162	771	24	2*	2*	522	286	3*
16 Dec 2018	246	629	24	2*	2*	652	286	3*
17 Dec 2018	246	629	24	2*	2*	652	286	3*
18 Dec 2018	213	467	16	2	3	649	174	4
19 Dec 2018	213	467	16	2	3	649	174	4
20 Dec 2018	415	686	24	2*	3*	1158	286	5*
21 Dec 2018	415	686	24	2*	3*	1158	286	5*
22 Dec 2018	415	686	24	2*	3*	1158	286	5*
23 Dec 2018	415	686	24	2*	3*	1158	286	5*
24 Dec 2018	415	686	24	2*	3*	1158	286	5*
25 Dec 2018	415	686	24	2*	3*	1158	286	5*
26 Dec 2018	438	530	24	2	3	1142	200	4
27 Dec 2018	1103	926	39	2*	3*	2043	334	5*
28 Dec 2018	1103	926	39	2*	3*	2043	334	5*
29 Dec 2018	1213	926	39	2*	3*	2384	334	5*
30 Dec 2018	1213	926	39	2*	3*	2384	334	5*
31 Dec 2018	885	926	39	2*	3*	1937	334	5*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2018	11*	2*	4*	2*	2*	5*	3*	2*
02 Dec 2018	11*	2*	4*	2*	2*	5*	3*	2*
03 Dec 2018	11*	2*	4*	2*	2*	5*	3*	2*
04 Dec 2018	15	11	6	2	2	13	5	2
05 Dec 2018	15	11	6	2	2	13	5	2
06 Dec 2018	10*	62	7*	2*	2*	39	7*	2*
07 Dec 2018	10*	149	7*	2*	2*	80	7*	2*
08 Dec 2018	10*	149	7*	2*	2*	80	7*	2*
09 Dec 2018	10*	182	7*	2*	2*	83	7*	2*
10 Dec 2018	10*	182	7*	2*	2*	83	7*	2*
11 Dec 2018	27	222	17	2	3	108	16	5
12 Dec 2018	27	222	17	2	3	108	16	5
13 Dec 2018	81	430	35	2*	2*	221	38	7
14 Dec 2018	109	525	41	2*	2*	308	46	7
15 Dec 2018	109	525	41	2*	2*	308	46	7
16 Dec 2018	128	460	41	2*	2*	280	46	7
17 Dec 2018	128	460	41	2*	2*	280	46	7
18 Dec 2018	113	619	38	3	4	272	43	9
19 Dec 2018	113	619	38	3	4	272	43	9
20 Dec 2018	160	1300	48	3*	4*	377	57	12
21 Dec 2018	160	1300	48	3*	4*	377	57	12
22 Dec 2018	160	949	48	3*	4*	377	57	12
23 Dec 2018	160	949	48	3*	4*	377	57	12
24 Dec 2018	160	949	48	3*	4*	377	57	12
25 Dec 2018	160	949	48	3*	4*	377	57	12
26 Dec 2018	191	711	39	3	4	425	47	9
27 Dec 2018	385	1159	65	3*	5*	668	74	12
28 Dec 2018	385	1159	65	3*	5*	668	74	12
29 Dec 2018	389	1159	65	3*	5*	775	74	12
30 Dec 2018	389	1159	65	3*	5*	775	74	12
31 Dec 2018	321	1159	65	3*	5*	662	74	12

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Dec 2018	IC	E	IC	IC	IC	E	IC	IC
06 Dec 2018	ns	E	ns	ns	ns	E	E	ns
07 Dec 2018	ns	E	ns	ns	ns	E	E	ns
09 Dec 2018	ns	IC	ns	ns	ns	IC	IC	ns
11 Dec 2018	E	IC	IC	IC	IC	E	E	IC
13 Dec 2018	E	E	IC	ns	ns	E	IC	ns
14 Dec 2018	IC	E	ns	ns	ns	E	IC	ns
16 Dec 2018	IC	IC	ns	ns	ns	E	ns	ns
18 Dec 2018	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2018	IC	IC	IC	IC	IC	E	IC	IC
27 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
29 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
31 Dec 2018	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Dec 2018	IC	E	IC	IC	IC	E	E	IC
06 Dec 2018	ns	E	ns	ns	ns	E	E	ns
07 Dec 2018	ns	E	ns	ns	ns	E	E	ns
09 Dec 2018	ns	E	ns	ns	ns	E	E	ns
11 Dec 2018	E	E	IC	IC	IC	E	E	IC
13 Dec 2018	E	E	IC	ns	ns	E	IC	ns
14 Dec 2018	E	E	ns	ns	ns	E	IC	ns
16 Dec 2018	E	IC	ns	ns	ns	E	ns	ns
18 Dec 2018	IC	IC	IC	IC	IC	E	IC	IC
26 Dec 2018	E	IC	IC	IC	IC	E	IC	IC
27 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
29 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
31 Dec 2018	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Exhibit 4. Bacterial Objective Violations

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Dec 2018	IC	E	IC	IC	IC	E	IC	IC
06 Dec 2018	ns	E	ns	ns	ns	E	ns	ns
07 Dec 2018	ns	E	ns	ns	ns	E	ns	ns
09 Dec 2018	ns	E	ns	ns	ns	IC	ns	ns
11 Dec 2018	E	E	E	IC	IC	E	E	E
13 Dec 2018	E	E	E	ns	ns	E	E	IC
14 Dec 2018	E	E	IC	ns	ns	E	E	ns
16 Dec 2018	E	E	ns	ns	ns	E	IC	ns
18 Dec 2018	IC	E	IC	IC	IC	E	IC	IC
20 Dec 2018	ns	E	ns	ns	ns	IC	ns	ns
22 Dec 2018	ns	IC	ns	ns	ns	ns	ns	ns
26 Dec 2018	E	IC	IC	IC	IC	E	IC	IC
27 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
29 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
31 Dec 2018	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Dec 2018	IC	E	IC	IC	IC	IC	E	IC
06 Dec 2018	ns	E	ns	ns	ns	IC	E	ns
07 Dec 2018	ns	E	ns	ns	ns	E	E	ns
09 Dec 2018	ns	IC	ns	ns	ns	E	E	ns
11 Dec 2018	E	E	E	IC	IC	E	IC	IC
13 Dec 2018	E	E	IC	ns	ns	E	IC	ns
14 Dec 2018	E	E	ns	ns	ns	E	IC	ns
16 Dec 2018	E	IC	ns	ns	ns	E	ns	ns
18 Dec 2018	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2018	E	IC	IC	IC	IC	IC	IC	IC
27 Dec 2018	E	ns	ns	ns	ns	IC	ns	ns
29 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
31 Dec 2018	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Dec 2018	3*	2*	2*	2*	2*	3*	2*
02 Dec 2018	3*	2*	2*	2*	2*	3*	2*
03 Dec 2018	15	9	10	3	3	4	9
04 Dec 2018	15	9	10	3	3	4	9
05 Dec 2018	19*	14*	15*	3*	4*	4*	13*
06 Dec 2018	19*	14*	15*	3*	4*	4*	13*
07 Dec 2018	19*	14*	15*	3*	4*	4*	13*
08 Dec 2018	19*	14*	15*	3*	4*	4*	13*
09 Dec 2018	19*	14*	15*	3*	4*	4*	13*
10 Dec 2018	62	54	26	6	9	6	48
11 Dec 2018	62	54	26	6	9	6	48
12 Dec 2018	62	54	26	6	9	6	48
13 Dec 2018	62	54	26	6	9	6	48
14 Dec 2018	147*	124*	49*	8*	13*	7*	105*
15 Dec 2018	147*	124*	49*	8*	13*	7*	105*
16 Dec 2018	147*	124*	49*	8*	13*	7*	105*
17 Dec 2018	147*	124*	49*	8*	12	6	105*
18 Dec 2018	147*	124*	49*	8*	12	6	105*
19 Dec 2018	618*	488*	143*	13*	19*	7*	395*
20 Dec 2018	907*	353*	88*	14*	19*	7*	275*
21 Dec 2018	907*	353*	88*	14*	19*	7*	275*
22 Dec 2018	907*	353*	88*	14*	19*	7*	275*
23 Dec 2018	907*	353*	88*	14*	19*	7*	275*
24 Dec 2018	907*	353*	88*	14*	19*	7*	275*
25 Dec 2018	907*	353*	88*	14*	19*	7*	275*
26 Dec 2018	5022*	1980*	309*	27*	39*	8*	1423*
27 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*
28 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*
29 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*
30 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*
31 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Dec 2018	2*	2*	2*	2*	2*	2*	2*
02 Dec 2018	2*	2*	2*	2*	2*	2*	2*
03 Dec 2018	6	6	6	2	2	2	6
04 Dec 2018	6	6	6	2	2	2	6
05 Dec 2018	8*	7*	8*	2*	2*	2*	7*
06 Dec 2018	8*	7*	8*	2*	2*	2*	7*
07 Dec 2018	8*	7*	8*	2*	2*	2*	7*
08 Dec 2018	8*	7*	8*	2*	2*	2*	7*
09 Dec 2018	8*	7*	8*	2*	2*	2*	7*
10 Dec 2018	20	19	12	3	4	2	19
11 Dec 2018	20	19	12	3	4	2	19
12 Dec 2018	20	19	12	3	4	2	19
13 Dec 2018	20	19	12	3	4	2	19
14 Dec 2018	36*	34*	18*	4*	5*	3*	32*
15 Dec 2018	36*	34*	18*	4*	5*	3*	32*
16 Dec 2018	36*	34*	18*	4*	5*	3*	32*
17 Dec 2018	36*	34*	18*	4*	4	2	32*
18 Dec 2018	36*	34*	18*	4*	4	2	32*
19 Dec 2018	95*	88*	38*	5*	5*	3*	82*
20 Dec 2018	133*	65*	18*	4*	5*	3*	59*
21 Dec 2018	133*	65*	18*	4*	5*	3*	59*
22 Dec 2018	133*	65*	18*	4*	5*	3*	59*
23 Dec 2018	133*	65*	18*	4*	5*	3*	59*
24 Dec 2018	133*	65*	18*	4*	5*	3*	59*
25 Dec 2018	133*	65*	18*	4*	5*	3*	59*
26 Dec 2018	539*	206*	38*	5*	8*	3*	183*
27 Dec 2018	700*	249*	56*	6*	5*	3*	330*
28 Dec 2018	700*	249*	56*	6*	5*	3*	330*
29 Dec 2018	700*	249*	56*	6*	5*	3*	330*
30 Dec 2018	700*	249*	56*	6*	5*	3*	330*
31 Dec 2018	700*	249*	56*	6*	5*	3*	330*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Dec 2018	2*	2*	2*	2*	2*	2*	2*
02 Dec 2018	2*	2*	2*	2*	2*	2*	2*
03 Dec 2018	4	4	4	2	2	2	3
04 Dec 2018	4	4	4	2	2	2	3
05 Dec 2018	4*	4*	4*	2*	2*	2*	3*
06 Dec 2018	4*	4*	4*	2*	2*	2*	3*
07 Dec 2018	4*	4*	4*	2*	2*	2*	3*
08 Dec 2018	4*	4*	4*	2*	2*	2*	3*
09 Dec 2018	4*	4*	4*	2*	2*	2*	3*
10 Dec 2018	9	10	7	4	4	3	7
11 Dec 2018	9	10	7	4	4	3	7
12 Dec 2018	9	10	7	4	4	3	7
13 Dec 2018	9	10	7	4	4	3	7
14 Dec 2018	13*	15*	10*	4*	5*	3*	10*
15 Dec 2018	13*	15*	10*	4*	5*	3*	10*
16 Dec 2018	13*	15*	10*	4*	5*	3*	10*
17 Dec 2018	13*	15*	10*	4*	6	3	10*
18 Dec 2018	13*	15*	10*	4*	6	3	10*
19 Dec 2018	24*	28*	16*	6*	8*	3*	18*
20 Dec 2018	33*	20*	17*	6*	8*	3*	18*
21 Dec 2018	33*	20*	17*	6*	8*	3*	18*
22 Dec 2018	33*	20*	17*	6*	8*	3*	18*
23 Dec 2018	33*	20*	17*	6*	8*	3*	18*
24 Dec 2018	33*	20*	17*	6*	8*	3*	18*
25 Dec 2018	33*	20*	17*	6*	8*	3*	18*
26 Dec 2018	84*	42*	34*	9*	12*	3*	37*
27 Dec 2018	120*	50*	43*	7*	8*	3*	61*
28 Dec 2018	120*	50*	43*	7*	8*	3*	61*
29 Dec 2018	120*	50*	43*	7*	8*	3*	61*
30 Dec 2018	120*	50*	43*	7*	8*	3*	61*
31 Dec 2018	120*	50*	43*	7*	8*	3*	61*

* Geometric mean calculated using n<5

Exhibit 4. Bacterial Objective Violations

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
03 Dec 2018	E	IC	E	IC	IC	IC	IC
10 Dec 2018	E	E	IC	IC	IC	IC	E
17 Dec 2018	ns	ns	ns	ns	IC	IC	ns
20 Dec 2018	IC	IC	IC	IC	ns	ns	IC
27 Dec 2018	E	IC	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
03 Dec 2018	E	E	E	IC	IC	IC	E
10 Dec 2018	E	E	IC	IC	IC	IC	E
17 Dec 2018	ns	ns	ns	ns	IC	IC	ns
20 Dec 2018	E	IC	IC	IC	ns	ns	IC
27 Dec 2018	E	E	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
03 Dec 2018	IC	IC	IC	IC	IC	IC	IC
10 Dec 2018	E	E	IC	E	E	IC	E
17 Dec 2018	ns	ns	ns	ns	IC	IC	ns
20 Dec 2018	E	IC	IC	IC	ns	ns	IC
27 Dec 2018	E	IC	IC	IC	IC	IC	E

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data

Exhibit 4. Bacterial Objective Violations

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
03 Dec 2018	E	E	E	IC	IC	IC	E
10 Dec 2018	E	IC	IC	IC	IC	IC	E
17 Dec 2018	ns	ns	ns	ns	IC	IC	ns
20 Dec 2018	E	IC	IC	IC	ns	ns	IC
27 Dec 2018	E	E	E	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data
