



SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

NPDES Permit No. CA0109045
SDRWQCB Order No. R9-2013-0006

JUNE 2021

Environmental Monitoring and Technical Services
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July 31, 2021

Mr. David W. Gibson, Executive Officer
California Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the June 2021 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the South Bay outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan. These data are also presented in the monthly report submitted by the International Boundary and Water Commission, U.S. Section for discharge from the South Bay International Wastewater Treatment Plant (Order No. R9-2014-0009 as amended by Order Nos. R9-2014-0094, R9-2017-0024, R9-2019-0012, NPDES Permit No. CA0108928).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Peter S. Vroom, Ph.D., Deputy Director
Public Utilities Department

PV/rk

cc: U.S. Environmental Protection Agency, Region 9

INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

Water quality monitoring was conducted at 11 stations located along the shore from Playa Blanca, Mexico to Coronado, USA (see station locations map). Three sites are located south of the international border (stations S0, S2, S3), while eight sites are in the United States (stations S4–S6 and S8–S12).

Seawater samples were collected from the surf zone at each station on a weekly basis. These samples were subsequently transported to the City's Marine Microbiology Laboratory and analyzed for the presence of total coliform, fecal coliform, and *Enterococcus* bacteria. Visual observations of water color and clarity, surf height, human or animal activity, and weather conditions were recorded at the time of sample collection. Wind speed and direction were measured using a hand-held anemometer with a compass.

Kelp Bed Stations

Seven kelp bed and other nearshore stations (I19, I24, I25, I26, I32, I39, I40; collectively referred to as "kelp" stations herein) were sampled four times during the month according to NPDES permit specifications. Six stations (I19, I24, I25, I26, I32, I40) are located along the 9-m depth contour, and one (I39) is located along the 18-m depth contour. Three of these stations, I25, I26, and I39, were selected based on their proximity to suitable substrates for the Imperial Beach kelp bed (see station locations map); however, this kelp bed has been historically transient and variable in terms of size and density. Thus, these three stations are only occasionally located within an area where kelp is actually found.

The seven kelp stations are sampled on a weekly basis during the month. Routine monitoring at each kelp site consists of collecting seawater samples at three discrete depths for bacteriological analyses (total coliforms, fecal coliforms, and *Enterococcus* bacteria) and generating water column profiles of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, and transmissivity. Visual observations of weather and water conditions are also recorded at all stations.

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate ≥ 4 scans per second. The data were then internally averaged using the CTD proprietary software, Seasoft, to create water column profiles equivalent

to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

Quarterly offshore water quality sampling is typically conducted over three days during February, May, August, and November for a total of 40 stations during each month (see station locations map). These offshore stations (I1–I40) are arranged in a grid surrounding the discharge site, and are generally located along the 9, 19, 28, 38, and 55-m depth contours. The seven offshore sites designated as kelp bed stations (described above) are included as part of the monthly offshore water quality sampling, however the data from these seven stations are reported within the kelp bed station section of the report with the other four days of kelp bed water quality sampling. Monitoring at all sites included measurements of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, and chromomorphic dissolved organic matter (CDOM). Visual observations of weather and water conditions were also recorded at all stations. Seawater samples for the analysis of indicator bacteria, suspended solids, and oil and grease concentrations were collected at 28 of the stations.

At these offshore stations, water samples for bacteriological analyses were collected using a rosette sampler with Niskin bottles. Measurements of the physical/chemical parameters listed above were taken using a Sea-Bird CTD. Additionally, CTD profile data for depths closest to those at which bacteriological samples were collected were extracted from the CTD profiles and are presented with the bacteriological data.

Bacteriological Reporting and Quality Assurance

Estimated values for bacteriological analyses are denoted by greater than (>), less than (<), or estimated (e) qualifiers and result from plates with colony counts above or below the permissible counting limits established in Bordner et al. (1978)¹. This document defines membrane filtration limits of 20–80 colonies per plate for total coliforms and 20–60 colonies per plate for fecal coliforms and *Enterococcus*. No Data (ND) is reported if plate counts from all dilutions have a total colony count of >200 per plate.

Results of the bacteriological analysis of seawater samples collected from each of the shore, kelp bed, and offshore stations located within State waters are assessed relative to the geometric mean and single sample maximum water-contact standards specified in the California Ocean Plan (Ocean Plan). The seven standards are defined as follows:

30-day Geometric Mean: The following standards are based on the geometric mean of the five most recent samples from each site.

- (1) Total coliform density shall not exceed 1000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 200 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 35 CFU/100 mL.

¹ Bordner, R., J. Winter, and P. Scarpino (eds.). (1978). Microbiological Methods for Monitoring the Environment: Water and Wastes, EPA Research and Development, EPA-600/8-78-017. 337 p.

Single Sample Maximums:

- (1) Total coliform density shall not exceed 10,000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 400 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 104 CFU/100 mL;
- (4) Total coliform density shall not exceed 1,000 CFU/100 mL when the fecal coliform/total coliform ratio exceeds 0.1.

Compliance with the seven Ocean Plan standards are summarized below for the stations located in USA waters. In contrast, no such compliance summaries are presented for the three shore stations located in Mexican waters south of the International Border (i.e., S0, S2, and S3) since this region is not subject to the Ocean Plan standards.

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2021 Quality Assurance Report, which will be completed in March 2022.

SUMMARY OF RESULTS

As of October 2020, new 2019 Ocean Plan Water Quality Objectives are included for a six-week rolling geometric mean of *Enterococcus* density, which shall not exceed 30 cfu/100 ml, and a Statistical Threshold Value (STV) for *Enterococcus*, which shall not exceed 110 cfu/100 ml for more than 10% of samples per month (see Appendix B).

➤ Shoreline Water Quality Sampling

- Due to site access restrictions in Mexico, the South Bay shoreline sampling is typically carried out on the same day each week (i.e., Tuesday) to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the USIBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
- During June, two of the eight shore stations located north of the border were out of compliance with 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:

2 Gilbert, R.O. (1987). Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York.

- The single sample maximum (SSM) standards for *Enterococcus* were exceeded at stations S5, and S10.
 - Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected from stations S0, S2, and S3 on one or more days during June.
- Notable observations included a sewage-like odor at stations S5, S6, S10, and S11 on one or more days during June.
- Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (<https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports>).

➤ **Kelp Bed Water Quality Sampling**

- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled on June 1, 8, 15, 22, and 29.
- During June, one of the seven kelp stations was out of compliance with 2015 Ocean Plan water contact standards on one or more days as follows:
 - The SSM standard for *Enterococcus* was exceeded at station I24.
- Water column temperatures ranged from 12.32 to 19.89°C. The difference between surface and bottom waters ranged from 0.09 to 6.74°C.
- Concentrations of chlorophyll *a* ranged from 0 to 13.29 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at any of these kelp stations.

➤ **Offshore Water Quality Sampling**

- Quarterly sampling was not conducted during June at the offshore stations. The next quarterly sampling is scheduled for August 2021.



TABLES AND FIGURES

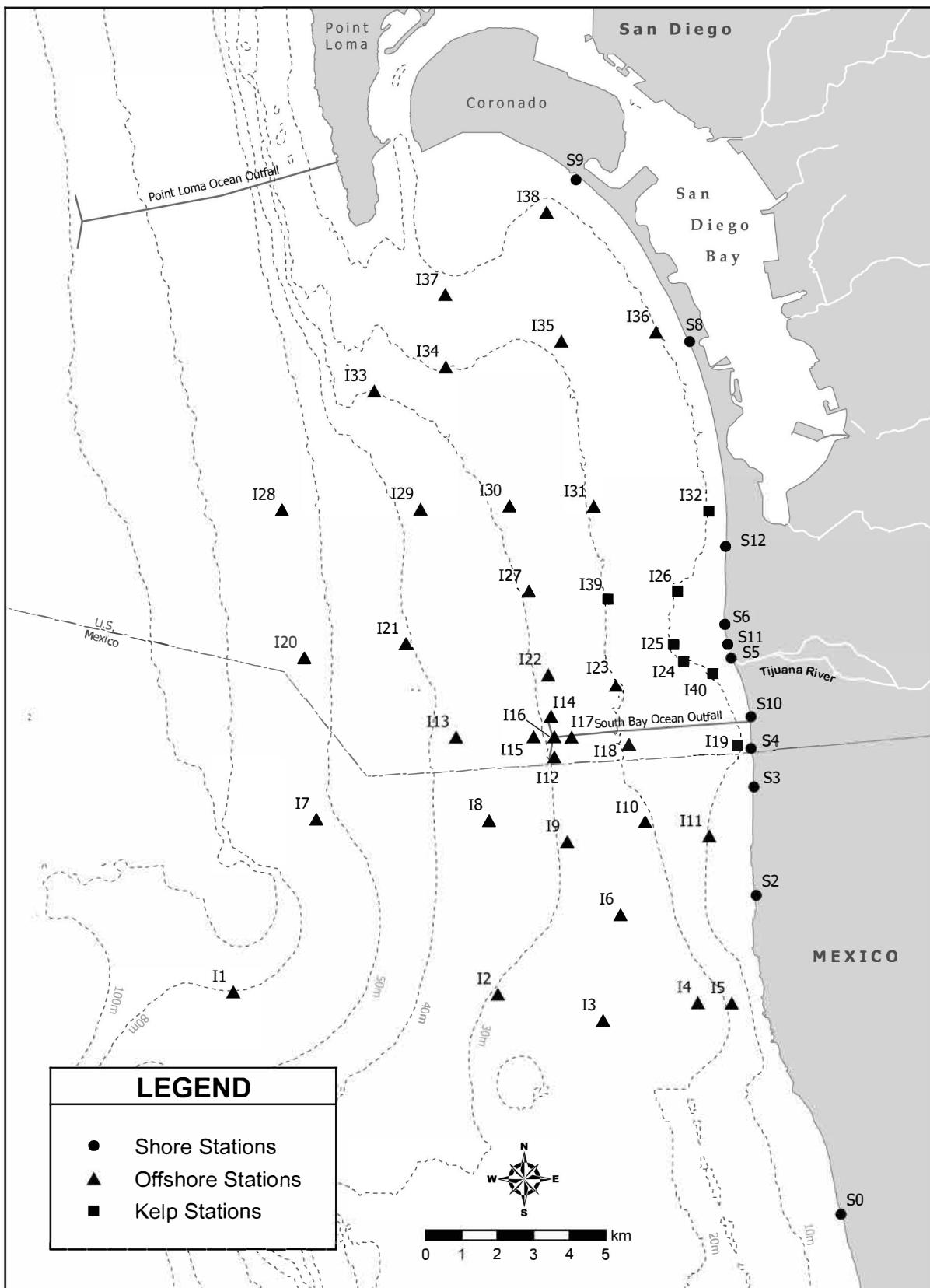


Figure 1.1 Station Map

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Shore Stations

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 2021	22	42	22	8	8	26	21	19
02 Jun 2021	22	42	22	8	8	26	21	19
03 Jun 2021	15	28	16	6	11	16	13	11
04 Jun 2021	15	28	16	6	11	16	13	11
05 Jun 2021	15	28	16	6	11	16	13	11
06 Jun 2021	15	28	16	6	11	16	13	11
07 Jun 2021	15	28	16	6	11	16	13	11
08 Jun 2021	29	62	35	8	20	32	29	13
09 Jun 2021	29	62	35	8	20	32	29	13
10 Jun 2021	25	145	60	11	36	46	47	20
11 Jun 2021	25	145	60	11	36	46	47	20
12 Jun 2021	25	145	60	11	36	46	47	20
13 Jun 2021	25	145	60	11	36	46	47	20
14 Jun 2021	25	145	60	11	36	46	47	20
15 Jun 2021	24	155	48	13	20	39	39	20
16 Jun 2021	24	155	48	13	20	39	39	20
17 Jun 2021	44	183	50	11	20	46	47	20
18 Jun 2021	44	183	50	11	20	46	47	20
19 Jun 2021	44	183	50	11	20	46	47	20
20 Jun 2021	44	183	50	11	20	46	47	20
21 Jun 2021	44	183	50	11	20	46	47	20
22 Jun 2021	55	118	42	13	32	39	39	20
23 Jun 2021	55	118	42	13	32	39	39	20
24 Jun 2021	71	183	50	11	36	46	47	20
25 Jun 2021	71	183	50	11	36	46	47	20
26 Jun 2021	71	183	50	11	36	46	47	20
27 Jun 2021	71	183	50	11	36	46	47	20
28 Jun 2021	71	183	50	11	36	46	47	20
29 Jun 2021	88	186	66	13	32	39	39	20
30 Jun 2021	88	186	66	13	32	39	39	20

* Geometric mean calculated using n<5

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 2021	5	4	4	2	2	4	4	3
02 Jun 2021	5	4	4	2	2	4	4	3
03 Jun 2021	4	3	3	2	2	2	2	3
04 Jun 2021	4	3	3	2	2	2	2	3
05 Jun 2021	4	3	3	2	2	2	2	3
06 Jun 2021	4	3	3	2	2	2	2	3
07 Jun 2021	4	3	3	2	2	2	2	3
08 Jun 2021	6	6	5	2	2	4	5	4
09 Jun 2021	6	6	5	2	2	4	5	4
10 Jun 2021	6	8	6	2	2	5	7	5
11 Jun 2021	6	8	6	2	2	5	7	5
12 Jun 2021	6	8	6	2	2	5	7	5
13 Jun 2021	6	8	6	2	2	5	7	5
14 Jun 2021	6	8	6	2	2	5	7	5
15 Jun 2021	5	8	5	2	2	4	7	4
16 Jun 2021	5	8	5	2	2	4	7	4
17 Jun 2021	6	9	4	2	2	5	9	5
18 Jun 2021	6	9	4	2	2	5	9	5
19 Jun 2021	6	9	4	2	2	5	9	5
20 Jun 2021	6	9	4	2	2	5	9	5
21 Jun 2021	6	9	4	2	2	5	9	5
22 Jun 2021	7	7	4	2	2	4	7	6
23 Jun 2021	7	7	4	2	2	4	7	6
24 Jun 2021	5	9	4	2	2	4	8	5
25 Jun 2021	5	9	4	2	2	4	8	5
26 Jun 2021	5	9	4	2	2	4	8	5
27 Jun 2021	5	9	4	2	2	4	8	5
28 Jun 2021	5	9	4	2	2	4	8	5
29 Jun 2021	9	7	4	2	3	5	6	4
30 Jun 2021	9	7	4	2	3	5	6	4

* Geometric mean calculated using n<5

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 2021	7	8	5	3	4	5	3	3
02 Jun 2021	7	8	5	3	4	5	3	3
03 Jun 2021	5	7	3	3	5	3	3	3
04 Jun 2021	5	7	3	3	5	3	3	3
05 Jun 2021	5	7	3	3	5	3	3	3
06 Jun 2021	5	7	3	3	5	3	3	3
07 Jun 2021	5	7	3	3	5	3	3	3
08 Jun 2021	9	12	5	2	5	6	5	3
09 Jun 2021	9	12	5	2	5	6	5	3
10 Jun 2021	7	9	6	3	6	6	7	3
11 Jun 2021	7	9	6	3	6	6	7	3
12 Jun 2021	7	9	6	3	6	6	7	3
13 Jun 2021	7	9	6	3	6	6	7	3
14 Jun 2021	7	9	6	3	6	6	7	3
15 Jun 2021	5	9	5	2	5	6	5	3
16 Jun 2021	5	9	5	2	5	6	5	3
17 Jun 2021	7	8	4	3	3	7	7	3
18 Jun 2021	7	8	4	3	3	7	7	3
19 Jun 2021	7	8	4	3	3	7	7	3
20 Jun 2021	7	8	4	3	3	7	7	3
21 Jun 2021	7	8	4	3	3	7	7	3
22 Jun 2021	6	7	4	3	4	7	5	4
23 Jun 2021	6	7	4	3	4	7	5	4
24 Jun 2021	7	8	4	2	5	7	7	4
25 Jun 2021	7	8	4	2	5	7	7	4
26 Jun 2021	7	8	4	2	5	7	7	4
27 Jun 2021	7	8	4	2	5	7	7	4
28 Jun 2021	7	8	4	2	5	7	7	4
29 Jun 2021	6	9	5	2	4	7	8	3
30 Jun 2021	6	9	5	2	4	7	8	3

* 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 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
08 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
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

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 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
08 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
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

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

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 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
08 Jun 2021	IC	IC	IC	IC	IC	IC	IC	IC
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

Table 2.8

Summary of water quality parameters at the SBOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Enter) are reported as CFU/100 mL. The fecal:total coliform ratio (F:T) is unitless. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Enter	F:T
S0	01 Jun 2021	1110	3200e	560	420	0.17
S0	08 Jun 2021	820	15000	3000e	3000e	0.20
S0	15 Jun 2021	1130	>16000	1100	1100	0.07
S0	22 Jun 2021	1130	10000	400e	840	0.04
S0	29 Jun 2021	835	600e	56	110	0.09
S2	01 Jun 2021	1040	<20	<2	4e	0.10
S2	08 Jun 2021	920	2000e	240e	380e	0.12
S2	15 Jun 2021	1050	20e	<2	<2	0.10
S2	22 Jun 2021	1235	20e	<2	<2	0.10
S2	29 Jun 2021	930	100e	6e	16e	0.06
S3	01 Jun 2021	1020	18e	6e	<2	0.33
S3	08 Jun 2021	850	1300	110	360e	0.08
S3	15 Jun 2021	1030	7000	180e	80e	0.03
S3	22 Jun 2021	1300	40e	8e	<2	0.20
S3	29 Jun 2021	910	40e	6e	6e	0.15
S4	01 Jun 2021	853	<20	<2	<2	0.10
S4	08 Jun 2021	948	460	<20	80e	0.04
S4	15 Jun 2021	1020	<20	<2	<2	0.10
S4	22 Jun 2021	950	140e	8e	6e	0.06
S4	29 Jun 2021	823	200e	110	4e	0.55
S5	01 Jun 2021	940	<200	4e	10e	0.02
S5	08 Jun 2021	742	1400e	120e	110	0.09
S5	10 Jun 2021	825	ns	ns	<2	ns
S5	15 Jun 2021	827	200e	8e	10e	0.04
S5	22 Jun 2021	1104	<20	2e	<2	0.10
S5	29 Jun 2021	911	<200	<2	14e	0.01
S6	01 Jun 2021	1000	<20	4e	4e	0.20
S6	08 Jun 2021	813	800e	<20	24e	0.02
S6	15 Jun 2021	848	<20	2e	<2	0.10
S6	22 Jun 2021	1156	<20	<2	2e	0.10
S6	29 Jun 2021	927	<200	4e	8e	0.02
S8	01 Jun 2021	1103	<2	<2	<2	1.00
S8	08 Jun 2021	1029	<20	<2	<2	0.10
S8	15 Jun 2021	1125	<20	<2	<2	0.10
S8	22 Jun 2021	823	<20	2e	4e	0.10
S8	29 Jun 2021	1019	<20	2e	<2	0.10
S9	01 Jun 2021	1127	20e	<2	8e	0.10
S9	08 Jun 2021	1055	<200	<2	4e	0.01
S9	15 Jun 2021	1200	<2	<2	2e	1.00
S9	22 Jun 2021	802	<200	4e	12e	0.02
S9	29 Jun 2021	1039	20e	4e	<2	0.20
S10	01 Jun 2021	903	<20	2e	<2	0.10
S10	08 Jun 2021	934	560	50	110	0.09
S10	10 Jun 2021	907	ns	ns	6e	ns
S10	15 Jun 2021	1036	<20	<2	4e	0.10
S10	22 Jun 2021	1010	<20	2e	4e	0.10

Station	Date	Time	Total	Fecal	Enteric	F:T
S10	29 Jun 2021	811	<20	6e	4e	0.30
S11	01 Jun 2021	952	<20	2e	6e	0.10
S11	08 Jun 2021	758	600e	120e	82	0.20
S11	15 Jun 2021	838	<20	8e	<2	0.40
S11	22 Jun 2021	1148	<20	2e	<2	0.10
S11	29 Jun 2021	921	<20	2e	14e	0.10
S12	01 Jun 2021	1033	<20	2e	<2	0.10
S12	08 Jun 2021	832	<20	<20	4e	1.00
S12	15 Jun 2021	907	<20	<2	<2	0.10
S12	22 Jun 2021	853	20e	8e	16e	0.40
S12	29 Jun 2021	939	<20	<2	<2	0.10

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S10	10 Jun 2021			Resample
S5	10 Jun 2021			Resample

Table 2.9

Summary of visual observations made during the month for each SBOO shore station by sample date.

Station	Date	Parameter	Value
S0	01 Jun 2021	Arrive Time	1110
S0	01 Jun 2021	Weather	Cloudy
S0	01 Jun 2021	Wind Speed (kts)	13
S0	01 Jun 2021	Wind Dir	N
S0	01 Jun 2021	Animal Life	None
S0	01 Jun 2021	Floatables	None
S0	01 Jun 2021	Water Color	Blue
S0	01 Jun 2021	Current Direction	N
S0	01 Jun 2021	Water Temp (C)	15
S0	01 Jun 2021	Wave Height Low (ft)	3
S0	01 Jun 2021	High Tide (ft)	4.51
S0	01 Jun 2021	High Tide Time	207
S0	01 Jun 2021	Low Tide (ft)	-0.04
S0	01 Jun 2021	Low Tide Time	940
S0	01 Jun 2021	Comments	Water clear; No flow from storm drain
S0	08 Jun 2021	Arrive Time	820
S0	08 Jun 2021	Weather	Cloudy
S0	08 Jun 2021	Wind Speed (kts)	4.5
S0	08 Jun 2021	Wind Dir	NE
S0	08 Jun 2021	Animal Life	5 Seagulls
S0	08 Jun 2021	Floatables	None
S0	08 Jun 2021	Water Color	Green
S0	08 Jun 2021	Current Direction	N
S0	08 Jun 2021	Water Temp (C)	17
S0	08 Jun 2021	Wave Height Low (ft)	3
S0	08 Jun 2021	High Tide (ft)	3.49
S0	08 Jun 2021	High Tide Time	922
S0	08 Jun 2021	Low Tide (ft)	-0.19
S0	08 Jun 2021	Low Tide Time	313
S0	08 Jun 2021	Comments	Water clear; Kelp; 7 Persons; 0.5L/sec water flowing from storm drain
S0	15 Jun 2021	Arrive Time	1130
S0	15 Jun 2021	Weather	Sunny
S0	15 Jun 2021	Wind Speed (kts)	4.3
S0	15 Jun 2021	Wind Dir	S
S0	15 Jun 2021	Animal Life	5 Seagulls
S0	15 Jun 2021	Floatables	None
S0	15 Jun 2021	Water Color	Blue
S0	15 Jun 2021	Current Direction	S
S0	15 Jun 2021	Water Temp (C)	25
S0	15 Jun 2021	Wave Height Low (ft)	3
S0	15 Jun 2021	High Tide (ft)	3.45
S0	15 Jun 2021	High Tide Time	1442
S0	15 Jun 2021	Low Tide (ft)	-0.1
S0	15 Jun 2021	Low Tide Time	740
S0	15 Jun 2021	Comments	Water clear; No flow from storm drain
S0	22 Jun 2021	Arrive Time	1130
S0	22 Jun 2021	Weather	Cloudy
S0	22 Jun 2021	Wind Speed (kts)	4.1
S0	22 Jun 2021	Wind Dir	NE
S0	22 Jun 2021	Animal Life	15 Seagulls
S0	22 Jun 2021	Floatables	None
S0	22 Jun 2021	Water Color	Green

Station	Date	Parameter	Value
S0	22 Jun 2021	Current Direction	N
S0	22 Jun 2021	Water Temp (C)	15
S0	22 Jun 2021	Wave Height Low (ft)	3
S0	22 Jun 2021	High Tide (ft)	3.74
S0	22 Jun 2021	High Tide Time	825
S0	22 Jun 2021	Low Tide (ft)	-0.73
S0	22 Jun 2021	Low Tide Time	218
S0	22 Jun 2021	Comments	Water turbid; Kelp; 2.0L/sec water flowing from storm drain
S0	29 Jun 2021	Arrive Time	835
S0	29 Jun 2021	Weather	Cloudy
S0	29 Jun 2021	Wind Speed (kts)	6.4
S0	29 Jun 2021	Wind Dir	NE
S0	29 Jun 2021	Animal Life	10 Seagulls
S0	29 Jun 2021	Floatables	None
S0	29 Jun 2021	Water Color	Green
S0	29 Jun 2021	Current Direction	N
S0	29 Jun 2021	Water Temp (C)	17
S0	29 Jun 2021	Wave Height Low (ft)	3
S0	29 Jun 2021	High Tide (ft)	4.02
S0	29 Jun 2021	High Tide Time	1440
S0	29 Jun 2021	Low Tide (ft)	-0.23
S0	29 Jun 2021	Low Tide Time	754
S0	29 Jun 2021	Comments	Water clear; 0.5 L/sec water flowing from storm drain; Kelp; 2 Persons
S2	01 Jun 2021	Arrive Time	1040
S2	01 Jun 2021	Weather	Cloudy
S2	01 Jun 2021	Wind Speed (kts)	12
S2	01 Jun 2021	Wind Dir	N
S2	01 Jun 2021	Animal Life	None
S2	01 Jun 2021	Floatables	None
S2	01 Jun 2021	Water Color	Blue
S2	01 Jun 2021	Current Direction	N
S2	01 Jun 2021	Water Temp (C)	14
S2	01 Jun 2021	Wave Height Low (ft)	3
S2	01 Jun 2021	High Tide (ft)	4.51
S2	01 Jun 2021	High Tide Time	207
S2	01 Jun 2021	Low Tide (ft)	-0.04
S2	01 Jun 2021	Low Tide Time	940
S2	01 Jun 2021	Comments	Water clear; No flow from storm drain
S2	08 Jun 2021	Arrive Time	920
S2	08 Jun 2021	Weather	Cloudy
S2	08 Jun 2021	Wind Speed (kts)	4.3
S2	08 Jun 2021	Wind Dir	NE
S2	08 Jun 2021	Animal Life	10 Seagulls; 2 Dogs
S2	08 Jun 2021	Floatables	None
S2	08 Jun 2021	Water Color	Green
S2	08 Jun 2021	Current Direction	N
S2	08 Jun 2021	Water Temp (C)	17
S2	08 Jun 2021	Wave Height Low (ft)	3
S2	08 Jun 2021	High Tide (ft)	3.49
S2	08 Jun 2021	High Tide Time	922
S2	08 Jun 2021	Low Tide (ft)	-0.19
S2	08 Jun 2021	Low Tide Time	313
S2	08 Jun 2021	Comments	Water clear; 10 Persons; Kelp; No flow from storm drain
S2	15 Jun 2021	Arrive Time	1030
S2	15 Jun 2021	Weather	Sunny
S2	15 Jun 2021	Wind Speed (kts)	7.19

Station	Date	Parameter	Value
S2	15 Jun 2021	Wind Dir	S
S2	15 Jun 2021	Animal Life	5 Dogs
S2	15 Jun 2021	Floatables	None
S2	15 Jun 2021	Water Color	Blue
S2	15 Jun 2021	Current Direction	S
S2	15 Jun 2021	Water Temp (C)	22
S2	15 Jun 2021	Wave Height Low (ft)	3
S2	15 Jun 2021	High Tide (ft)	3.45
S2	15 Jun 2021	High Tide Time	1442
S2	15 Jun 2021	Low Tide (ft)	-0.1
S2	15 Jun 2021	Low Tide Time	740
S2	15 Jun 2021	Comments	Water turbid; No flow from storm drain
S2	22 Jun 2021	Arrive Time	1235
S2	22 Jun 2021	Weather	Cloudy
S2	22 Jun 2021	Wind Speed (kts)	3.1
S2	22 Jun 2021	Wind Dir	NE
S2	22 Jun 2021	Animal Life	15 Seagulls
S2	22 Jun 2021	Floatables	None
S2	22 Jun 2021	Water Color	Green
S2	22 Jun 2021	Current Direction	N
S2	22 Jun 2021	Water Temp (C)	15
S2	22 Jun 2021	Wave Height Low (ft)	3
S2	22 Jun 2021	High Tide (ft)	3.74
S2	22 Jun 2021	High Tide Time	825
S2	22 Jun 2021	Low Tide (ft)	-0.73
S2	22 Jun 2021	Low Tide Time	218
S2	22 Jun 2021	Comments	Water turbid; Kelp; No flow from storm drain
S2	29 Jun 2021	Arrive Time	930
S2	29 Jun 2021	Weather	Cloudy
S2	29 Jun 2021	Wind Speed (kts)	6.3
S2	29 Jun 2021	Wind Dir	NE
S2	29 Jun 2021	Animal Life	10 Seagulls; 10 Dogs
S2	29 Jun 2021	Floatables	None
S2	29 Jun 2021	Water Color	Green
S2	29 Jun 2021	Current Direction	N
S2	29 Jun 2021	Water Temp (C)	17
S2	29 Jun 2021	Wave Height Low (ft)	3
S2	29 Jun 2021	High Tide (ft)	4.02
S2	29 Jun 2021	High Tide Time	1440
S2	29 Jun 2021	Low Tide (ft)	-0.23
S2	29 Jun 2021	Low Tide Time	754
S2	29 Jun 2021	Comments	Water clear; No flow from storm drain; Kelp; 10 Persons
S3	01 Jun 2021	Arrive Time	1020
S3	01 Jun 2021	Weather	Cloudy
S3	01 Jun 2021	Wind Speed (kts)	11
S3	01 Jun 2021	Wind Dir	N
S3	01 Jun 2021	Animal Life	None
S3	01 Jun 2021	Floatables	None
S3	01 Jun 2021	Water Color	Blue
S3	01 Jun 2021	Current Direction	N
S3	01 Jun 2021	Water Temp (C)	13
S3	01 Jun 2021	Wave Height Low (ft)	3
S3	01 Jun 2021	High Tide (ft)	4.51
S3	01 Jun 2021	High Tide Time	207
S3	01 Jun 2021	Low Tide (ft)	-0.04
S3	01 Jun 2021	Low Tide Time	940
S3	01 Jun 2021	Comments	Water clear; No flow from storm drain

Station	Date	Parameter	Value
S3	08 Jun 2021	Arrive Time	850
S3	08 Jun 2021	Weather	Cloudy
S3	08 Jun 2021	Wind Speed (kts)	4.6
S3	08 Jun 2021	Wind Dir	NE
S3	08 Jun 2021	Animal Life	10 Seagulls; 1 Dog
S3	08 Jun 2021	Floatables	None
S3	08 Jun 2021	Water Color	Green
S3	08 Jun 2021	Current Direction	N
S3	08 Jun 2021	Water Temp (C)	17
S3	08 Jun 2021	Wave Height Low (ft)	3
S3	08 Jun 2021	High Tide (ft)	3.49
S3	08 Jun 2021	High Tide Time	922
S3	08 Jun 2021	Low Tide (ft)	-0.19
S3	08 Jun 2021	Low Tide Time	313
S3	08 Jun 2021	Comments	Water clear; 20 Persons; Kelp; 0.5L/sec water flowing from storm drain
S3	15 Jun 2021	Arrive Time	1030
S3	15 Jun 2021	Weather	Sunny
S3	15 Jun 2021	Wind Speed (kts)	5.94
S3	15 Jun 2021	Wind Dir	S
S3	15 Jun 2021	Animal Life	5 Seagulls
S3	15 Jun 2021	Floatables	None
S3	15 Jun 2021	Water Color	Blue
S3	15 Jun 2021	Current Direction	S
S3	15 Jun 2021	Water Temp (C)	21
S3	15 Jun 2021	Wave Height Low (ft)	3
S3	15 Jun 2021	High Tide (ft)	3.45
S3	15 Jun 2021	High Tide Time	1442
S3	15 Jun 2021	Low Tide (ft)	-0.1
S3	15 Jun 2021	Low Tide Time	740
S3	15 Jun 2021	Comments	Water turbid; No flow from storm drain
S3	22 Jun 2021	Arrive Time	1300
S3	22 Jun 2021	Weather	Cloudy
S3	22 Jun 2021	Wind Speed (kts)	5.5
S3	22 Jun 2021	Wind Dir	NE
S3	22 Jun 2021	Animal Life	15 Seagulls; 1 Sea lion
S3	22 Jun 2021	Floatables	None
S3	22 Jun 2021	Water Color	Green
S3	22 Jun 2021	Current Direction	N
S3	22 Jun 2021	Water Temp (C)	15
S3	22 Jun 2021	Wave Height Low (ft)	3
S3	22 Jun 2021	High Tide (ft)	3.74
S3	22 Jun 2021	High Tide Time	825
S3	22 Jun 2021	Low Tide (ft)	-0.73
S3	22 Jun 2021	Low Tide Time	218
S3	22 Jun 2021	Comments	Water turbid; Kelp; No flow from storm drain
S3	29 Jun 2021	Arrive Time	910
S3	29 Jun 2021	Weather	Cloudy
S3	29 Jun 2021	Wind Speed (kts)	6.1
S3	29 Jun 2021	Wind Dir	NE
S3	29 Jun 2021	Animal Life	20 Seagulls; 4 Dogs
S3	29 Jun 2021	Floatables	None
S3	29 Jun 2021	Water Color	Green
S3	29 Jun 2021	Current Direction	N
S3	29 Jun 2021	Water Temp (C)	17
S3	29 Jun 2021	Wave Height Low (ft)	3
S3	29 Jun 2021	High Tide (ft)	4.02
S3	29 Jun 2021	High Tide Time	1440

Station	Date	Parameter	Value
S3	29 Jun 2021	Low Tide (ft)	-0.23
S3	29 Jun 2021	Low Tide Time	754
S3	29 Jun 2021	Comments	Water clear; Kelp; No flow from storm drain
S4	01 Jun 2021	Arrive Time	853
S4	01 Jun 2021	Weather	Overcast
S4	01 Jun 2021	Wind Speed (kts)	3.1
S4	01 Jun 2021	Wind Dir	W
S4	01 Jun 2021	Animal Life	None
S4	01 Jun 2021	Floatables	None
S4	01 Jun 2021	Water Color	Green
S4	01 Jun 2021	Current Direction	N
S4	01 Jun 2021	Water Temp (C)	19.6
S4	01 Jun 2021	Wave Height Low (ft)	1
S4	01 Jun 2021	High Tide (ft)	4.51
S4	01 Jun 2021	High Tide Time	207
S4	01 Jun 2021	Low Tide (ft)	-0.04
S4	01 Jun 2021	Low Tide Time	940
S4	01 Jun 2021	Comments	Water clear; Kelp; Trash-1
S4	08 Jun 2021	Arrive Time	948
S4	08 Jun 2021	Weather	Cloudy
S4	08 Jun 2021	Wind Speed (kts)	4.2
S4	08 Jun 2021	Wind Dir	W
S4	08 Jun 2021	Animal Life	10 Seagulls
S4	08 Jun 2021	Floatables	None
S4	08 Jun 2021	Water Color	Green
S4	08 Jun 2021	Current Direction	N
S4	08 Jun 2021	Water Temp (C)	17.8
S4	08 Jun 2021	Wave Height Low (ft)	1
S4	08 Jun 2021	High Tide (ft)	3.49
S4	08 Jun 2021	High Tide Time	922
S4	08 Jun 2021	Low Tide (ft)	-0.19
S4	08 Jun 2021	Low Tide Time	313
S4	08 Jun 2021	Comments	Water clear; Kelp; Seagrass; Debris
S4	15 Jun 2021	Arrive Time	1020
S4	15 Jun 2021	Weather	Partly Cloudy
S4	15 Jun 2021	Wind Speed (kts)	7.1
S4	15 Jun 2021	Wind Dir	SW
S4	15 Jun 2021	Animal Life	2 Godwits
S4	15 Jun 2021	Floatables	Foam
S4	15 Jun 2021	Water Color	Brown
S4	15 Jun 2021	Current Direction	N
S4	15 Jun 2021	Water Temp (C)	21.2
S4	15 Jun 2021	Wave Height Low (ft)	3
S4	15 Jun 2021	High Tide (ft)	3.45
S4	15 Jun 2021	High Tide Time	1442
S4	15 Jun 2021	Low Tide (ft)	-0.1
S4	15 Jun 2021	Low Tide Time	740
S4	15 Jun 2021	Comments	Water turbid; Kelp; Seagrass; Debris; Trash-3
S4	22 Jun 2021	Arrive Time	950
S4	22 Jun 2021	Weather	Partly Cloudy
S4	22 Jun 2021	Wind Speed (kts)	7.9
S4	22 Jun 2021	Wind Dir	NW
S4	22 Jun 2021	Animal Life	27 Godwits; 2 Horses; 6 Terns
S4	22 Jun 2021	Floatables	Foam
S4	22 Jun 2021	Water Color	Green
S4	22 Jun 2021	Current Direction	S
S4	22 Jun 2021	Water Temp (C)	21.2

Station	Date	Parameter	Value
S4	22 Jun 2021	Wave Height Low (ft)	3
S4	22 Jun 2021	High Tide (ft)	3.74
S4	22 Jun 2021	High Tide Time	825
S4	22 Jun 2021	Low Tide (ft)	-0.73
S4	22 Jun 2021	Low Tide Time	218
S4	22 Jun 2021	Comments	Water turbid; Kelp; Seagrass; Trash-3; 2 Persons; 2 Joggers
S4	29 Jun 2021	Arrive Time	823
S4	29 Jun 2021	Weather	Drizzly
S4	29 Jun 2021	Wind Speed (kts)	7.3
S4	29 Jun 2021	Wind Dir	S
S4	29 Jun 2021	Animal Life	1 Pelican; 7 Godwits; 8 Terns
S4	29 Jun 2021	Floatables	None
S4	29 Jun 2021	Water Color	Green
S4	29 Jun 2021	Current Direction	N
S4	29 Jun 2021	Water Temp (C)	20.3
S4	29 Jun 2021	Wave Height Low (ft)	3
S4	29 Jun 2021	High Tide (ft)	4.02
S4	29 Jun 2021	High Tide Time	1440
S4	29 Jun 2021	Low Tide (ft)	-0.23
S4	29 Jun 2021	Low Tide Time	754
S4	29 Jun 2021	Comments	Water clear; Kelp; Trash-1
S5	01 Jun 2021	Arrive Time	940
S5	01 Jun 2021	Weather	Overcast
S5	01 Jun 2021	Wind Speed (kts)	6
S5	01 Jun 2021	Wind Dir	W
S5	01 Jun 2021	Animal Life	1 Dog; 3 Pelicans; 6 Seagulls
S5	01 Jun 2021	Floatables	Foam; Film
S5	01 Jun 2021	Water Color	Green
S5	01 Jun 2021	Current Direction	N
S5	01 Jun 2021	Water Temp (C)	21.6
S5	01 Jun 2021	Wave Height Low (ft)	2
S5	01 Jun 2021	High Tide (ft)	4.51
S5	01 Jun 2021	High Tide Time	207
S5	01 Jun 2021	Low Tide (ft)	-0.04
S5	01 Jun 2021	Low Tide Time	940
S5	01 Jun 2021	Comments	Water clear; Kelp; Algae; Trash-1; 1 Person
S5	08 Jun 2021	Arrive Time	742
S5	08 Jun 2021	Weather	Cloudy
S5	08 Jun 2021	Wind Speed (kts)	3.8
S5	08 Jun 2021	Wind Dir	W
S5	08 Jun 2021	Animal Life	13 Seagulls; 15 Pelicans; 3 Terns
S5	08 Jun 2021	Floatables	None
S5	08 Jun 2021	Water Color	Green
S5	08 Jun 2021	Current Direction	N
S5	08 Jun 2021	Water Temp (C)	18.3
S5	08 Jun 2021	Wave Height Low (ft)	2
S5	08 Jun 2021	High Tide (ft)	3.49
S5	08 Jun 2021	High Tide Time	922
S5	08 Jun 2021	Low Tide (ft)	-0.19
S5	08 Jun 2021	Low Tide Time	313
S5	08 Jun 2021	Comments	Water clear; Kelp; Seagrass; Debris; 3 Persons; Sewage-like odor
S5	10 Jun 2021	Arrive Time	825
S5	10 Jun 2021	Weather	Sunny
S5	10 Jun 2021	Wind Speed (kts)	2.5
S5	10 Jun 2021	Wind Dir	W
S5	10 Jun 2021	Animal Life	1 Dog; 12 Pelicans; 20 Seagulls; 1 Egret; 2 Terns

Station	Date	Parameter	Value
S5	10 Jun 2021	Floatables	Film
S5	10 Jun 2021	Water Color	Brown
S5	10 Jun 2021	Current Direction	S
S5	10 Jun 2021	Water Temp (C)	19.3
S5	10 Jun 2021	Wave Height Low (ft)	3
S5	10 Jun 2021	High Tide (ft)	3.44
S5	10 Jun 2021	High Tide Time	1039
S5	10 Jun 2021	Low Tide (ft)	-0.53
S5	10 Jun 2021	Low Tide Time	418
S5	10 Jun 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Trash-1; 1 Jogger
S5	15 Jun 2021	Arrive Time	827
S5	15 Jun 2021	Weather	Partly Cloudy
S5	15 Jun 2021	Wind Speed (kts)	4
S5	15 Jun 2021	Wind Dir	NW
S5	15 Jun 2021	Animal Life	2 Sharks; 6 Seagulls; 30 Pelicans; 1 Godwit
S5	15 Jun 2021	Floatables	None
S5	15 Jun 2021	Water Color	Brown
S5	15 Jun 2021	Current Direction	S
S5	15 Jun 2021	Water Temp (C)	22.5
S5	15 Jun 2021	Wave Height Low (ft)	2
S5	15 Jun 2021	High Tide (ft)	3.45
S5	15 Jun 2021	High Tide Time	1442
S5	15 Jun 2021	Low Tide (ft)	-0.1
S5	15 Jun 2021	Low Tide Time	740
S5	15 Jun 2021	Comments	Water clear; Kelp; Seagrass; Algae; Trash-1; 1 Jogger
S5	22 Jun 2021	Arrive Time	1104
S5	22 Jun 2021	Weather	Partly Cloudy
S5	22 Jun 2021	Wind Speed (kts)	9.1
S5	22 Jun 2021	Wind Dir	NW
S5	22 Jun 2021	Animal Life	5 Seagulls
S5	22 Jun 2021	Floatables	Foam
S5	22 Jun 2021	Water Color	Green
S5	22 Jun 2021	Current Direction	S
S5	22 Jun 2021	Water Temp (C)	22
S5	22 Jun 2021	Wave Height Low (ft)	2
S5	22 Jun 2021	High Tide (ft)	3.74
S5	22 Jun 2021	High Tide Time	825
S5	22 Jun 2021	Low Tide (ft)	-0.73
S5	22 Jun 2021	Low Tide Time	218
S5	22 Jun 2021	Comments	Water turbid; Debris; Trash-1; Kelp; Seagrass; Algae; 1 Joggers
S5	29 Jun 2021	Arrive Time	911
S5	29 Jun 2021	Weather	Cloudy
S5	29 Jun 2021	Wind Speed (kts)	6.4
S5	29 Jun 2021	Wind Dir	S
S5	29 Jun 2021	Animal Life	1 Cormorant
S5	29 Jun 2021	Floatables	Foam; Film
S5	29 Jun 2021	Water Color	Brown
S5	29 Jun 2021	Current Direction	N
S5	29 Jun 2021	Water Temp (C)	20.8
S5	29 Jun 2021	Wave Height Low (ft)	1
S5	29 Jun 2021	High Tide (ft)	4.02
S5	29 Jun 2021	High Tide Time	1440
S5	29 Jun 2021	Low Tide (ft)	-0.23
S5	29 Jun 2021	Low Tide Time	754
S5	29 Jun 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1; 1 Walker
S6	01 Jun 2021	Arrive Time	1000

Station	Date	Parameter	Value
S6	01 Jun 2021	Weather	Overcast
S6	01 Jun 2021	Wind Speed (kts)	5.8
S6	01 Jun 2021	Wind Dir	W
S6	01 Jun 2021	Animal Life	None
S6	01 Jun 2021	Floatables	Foam
S6	01 Jun 2021	Water Color	Green
S6	01 Jun 2021	Current Direction	N
S6	01 Jun 2021	Water Temp (C)	19.7
S6	01 Jun 2021	Wave Height Low (ft)	1
S6	01 Jun 2021	High Tide (ft)	4.51
S6	01 Jun 2021	High Tide Time	207
S6	01 Jun 2021	Low Tide (ft)	-0.04
S6	01 Jun 2021	Low Tide Time	940
S6	01 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 2 Persons
S6	08 Jun 2021	Arrive Time	813
S6	08 Jun 2021	Weather	Cloudy
S6	08 Jun 2021	Wind Speed (kts)	2.9
S6	08 Jun 2021	Wind Dir	W
S6	08 Jun 2021	Animal Life	1 Tern
S6	08 Jun 2021	Floatables	Foam
S6	08 Jun 2021	Water Color	Green
S6	08 Jun 2021	Current Direction	N
S6	08 Jun 2021	Water Temp (C)	18.5
S6	08 Jun 2021	Wave Height Low (ft)	2
S6	08 Jun 2021	High Tide (ft)	3.49
S6	08 Jun 2021	High Tide Time	922
S6	08 Jun 2021	Low Tide (ft)	-0.19
S6	08 Jun 2021	Low Tide Time	313
S6	08 Jun 2021	Comments	Water clear; Kelp; Seagrass; Sewage-like odor
S6	15 Jun 2021	Arrive Time	848
S6	15 Jun 2021	Weather	Partly Cloudy
S6	15 Jun 2021	Wind Speed (kts)	1.6
S6	15 Jun 2021	Wind Dir	NW
S6	15 Jun 2021	Animal Life	3 Seagulls
S6	15 Jun 2021	Floatables	None
S6	15 Jun 2021	Water Color	Green
S6	15 Jun 2021	Current Direction	S
S6	15 Jun 2021	Water Temp (C)	19.5
S6	15 Jun 2021	Wave Height Low (ft)	2
S6	15 Jun 2021	High Tide (ft)	3.45
S6	15 Jun 2021	High Tide Time	1442
S6	15 Jun 2021	Low Tide (ft)	-0.1
S6	15 Jun 2021	Low Tide Time	740
S6	15 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 1 Jogger
S6	22 Jun 2021	Arrive Time	1156
S6	22 Jun 2021	Weather	Overcast
S6	22 Jun 2021	Wind Speed (kts)	9.5
S6	22 Jun 2021	Wind Dir	NW
S6	22 Jun 2021	Animal Life	1 Egret; 1 Dog
S6	22 Jun 2021	Floatables	Foam
S6	22 Jun 2021	Water Color	Green
S6	22 Jun 2021	Current Direction	S
S6	22 Jun 2021	Water Temp (C)	20.9
S6	22 Jun 2021	Wave Height Low (ft)	3
S6	22 Jun 2021	High Tide (ft)	3.74
S6	22 Jun 2021	High Tide Time	825
S6	22 Jun 2021	Low Tide (ft)	-0.73
S6	22 Jun 2021	Low Tide Time	218

Station	Date	Parameter	Value
S6	22 Jun 2021	Comments	Kelp; Seagrass; Trash-1; Water turbid; 5 Persons; 1 Jogger
S6	29 Jun 2021	Arrive Time	927
S6	29 Jun 2021	Weather	Cloudy
S6	29 Jun 2021	Wind Speed (kts)	7.1
S6	29 Jun 2021	Wind Dir	S
S6	29 Jun 2021	Animal Life	1 Tern
S6	29 Jun 2021	Floatables	Foam
S6	29 Jun 2021	Water Color	Green
S6	29 Jun 2021	Current Direction	N
S6	29 Jun 2021	Water Temp (C)	19.9
S6	29 Jun 2021	Wave Height Low (ft)	3
S6	29 Jun 2021	High Tide (ft)	4.02
S6	29 Jun 2021	High Tide Time	1440
S6	29 Jun 2021	Low Tide (ft)	-0.23
S6	29 Jun 2021	Low Tide Time	754
S6	29 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 2 Walkers
S8	01 Jun 2021	Arrive Time	1103
S8	01 Jun 2021	Weather	Sunny
S8	01 Jun 2021	Wind Speed (kts)	7.1
S8	01 Jun 2021	Wind Dir	W
S8	01 Jun 2021	Animal Life	None
S8	01 Jun 2021	Floatables	Foam; Film
S8	01 Jun 2021	Water Color	Green
S8	01 Jun 2021	Current Direction	N
S8	01 Jun 2021	Water Temp (C)	21.3
S8	01 Jun 2021	Wave Height Low (ft)	1
S8	01 Jun 2021	High Tide (ft)	4.51
S8	01 Jun 2021	High Tide Time	207
S8	01 Jun 2021	Low Tide (ft)	-0.04
S8	01 Jun 2021	Low Tide Time	940
S8	01 Jun 2021	Comments	Water clear; Kelp; Seagrass; Algae; Debris; Trash-1; 13 Persons; 2 Surfers
S8	08 Jun 2021	Arrive Time	1029
S8	08 Jun 2021	Weather	Cloudy
S8	08 Jun 2021	Wind Speed (kts)	5.4
S8	08 Jun 2021	Wind Dir	W
S8	08 Jun 2021	Animal Life	None
S8	08 Jun 2021	Floatables	None
S8	08 Jun 2021	Water Color	Green
S8	08 Jun 2021	Current Direction	S
S8	08 Jun 2021	Water Temp (C)	20.2
S8	08 Jun 2021	Wave Height Low (ft)	1
S8	08 Jun 2021	High Tide (ft)	3.49
S8	08 Jun 2021	High Tide Time	922
S8	08 Jun 2021	Low Tide (ft)	-0.19
S8	08 Jun 2021	Low Tide Time	313
S8	08 Jun 2021	Comments	Water clear; Kelp; Seagrass; 4 Persons
S8	15 Jun 2021	Arrive Time	1125
S8	15 Jun 2021	Weather	Partly Cloudy
S8	15 Jun 2021	Wind Speed (kts)	5
S8	15 Jun 2021	Wind Dir	W
S8	15 Jun 2021	Animal Life	1 Seagull
S8	15 Jun 2021	Floatables	Foam
S8	15 Jun 2021	Water Color	Green
S8	15 Jun 2021	Current Direction	S
S8	15 Jun 2021	Water Temp (C)	23.7
S8	15 Jun 2021	Wave Height Low (ft)	2

Station	Date	Parameter	Value
S8	15 Jun 2021	High Tide (ft)	3.45
S8	15 Jun 2021	High Tide Time	1442
S8	15 Jun 2021	Low Tide (ft)	-0.1
S8	15 Jun 2021	Low Tide Time	740
S8	15 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 8 Persons; 9 Swimmers; 1 Fisherman; Dead animals
S8	22 Jun 2021	Arrive Time	823
S8	22 Jun 2021	Weather	Overcast
S8	22 Jun 2021	Wind Speed (kts)	7.9
S8	22 Jun 2021	Wind Dir	NE
S8	22 Jun 2021	Animal Life	10 Fleas
S8	22 Jun 2021	Floatables	Foam
S8	22 Jun 2021	Water Color	Green
S8	22 Jun 2021	Current Direction	S
S8	22 Jun 2021	Water Temp (C)	20.7
S8	22 Jun 2021	Wave Height Low (ft)	2
S8	22 Jun 2021	High Tide (ft)	3.74
S8	22 Jun 2021	High Tide Time	825
S8	22 Jun 2021	Low Tide (ft)	-0.73
S8	22 Jun 2021	Low Tide Time	218
S8	22 Jun 2021	Comments	Kelp; Seagrass; Trash-2; Water clear; 2 Swimmers; 2 Persons
S8	29 Jun 2021	Arrive Time	1019
S8	29 Jun 2021	Weather	Cloudy
S8	29 Jun 2021	Wind Speed (kts)	9.3
S8	29 Jun 2021	Wind Dir	S
S8	29 Jun 2021	Animal Life	1 Seagull; 1 Tern
S8	29 Jun 2021	Floatables	Foam
S8	29 Jun 2021	Water Color	Green
S8	29 Jun 2021	Current Direction	N
S8	29 Jun 2021	Water Temp (C)	20.5
S8	29 Jun 2021	Wave Height Low (ft)	1
S8	29 Jun 2021	High Tide (ft)	4.02
S8	29 Jun 2021	High Tide Time	1440
S8	29 Jun 2021	Low Tide (ft)	-0.23
S8	29 Jun 2021	Low Tide Time	754
S8	29 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 2 Persons; 1 Walker
S9	01 Jun 2021	Arrive Time	1127
S9	01 Jun 2021	Weather	Cloudy
S9	01 Jun 2021	Wind Speed (kts)	7.7
S9	01 Jun 2021	Wind Dir	W
S9	01 Jun 2021	Animal Life	1 Seagull; 3 Terns
S9	01 Jun 2021	Floatables	Foam; Film
S9	01 Jun 2021	Water Color	Green
S9	01 Jun 2021	Current Direction	S
S9	01 Jun 2021	Water Temp (C)	21.5
S9	01 Jun 2021	Wave Height Low (ft)	1
S9	01 Jun 2021	High Tide (ft)	4.51
S9	01 Jun 2021	High Tide Time	207
S9	01 Jun 2021	Low Tide (ft)	-0.04
S9	01 Jun 2021	Low Tide Time	940
S9	01 Jun 2021	Comments	Water clear; Kelp; Seagrass; Algae; Trash-2, 13 Joggers
S9	08 Jun 2021	Arrive Time	1055
S9	08 Jun 2021	Weather	Cloudy
S9	08 Jun 2021	Wind Speed (kts)	3.4
S9	08 Jun 2021	Wind Dir	W
S9	08 Jun 2021	Animal Life	1 Seagull

Station	Date	Parameter	Value
S9	08 Jun 2021	Floatables	None
S9	08 Jun 2021	Water Color	Green
S9	08 Jun 2021	Current Direction	S
S9	08 Jun 2021	Water Temp (C)	20.8
S9	08 Jun 2021	Wave Height Low (ft)	1
S9	08 Jun 2021	High Tide (ft)	3.49
S9	08 Jun 2021	High Tide Time	922
S9	08 Jun 2021	Low Tide (ft)	-0.19
S9	08 Jun 2021	Low Tide Time	313
S9	08 Jun 2021	Comments	Water clear; Kelp; Seagrass; 4 Joggers
S9	15 Jun 2021	Arrive Time	1200
S9	15 Jun 2021	Weather	Partly Cloudy
S9	15 Jun 2021	Wind Speed (kts)	5.2
S9	15 Jun 2021	Wind Dir	W
S9	15 Jun 2021	Animal Life	1 Seagull
S9	15 Jun 2021	Floatables	None
S9	15 Jun 2021	Water Color	Green
S9	15 Jun 2021	Current Direction	S
S9	15 Jun 2021	Water Temp (C)	23.3
S9	15 Jun 2021	Wave Height Low (ft)	2
S9	15 Jun 2021	High Tide (ft)	3.45
S9	15 Jun 2021	High Tide Time	1442
S9	15 Jun 2021	Low Tide (ft)	-0.1
S9	15 Jun 2021	Low Tide Time	740
S9	15 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 1 Jogger; 6 Persons; 3 Swimmers
S9	22 Jun 2021	Arrive Time	802
S9	22 Jun 2021	Weather	Overcast
S9	22 Jun 2021	Wind Speed (kts)	6
S9	22 Jun 2021	Wind Dir	NE
S9	22 Jun 2021	Animal Life	5 Seagulls; 1 Crow; 100 Flies
S9	22 Jun 2021	Floatables	Foam; Film
S9	22 Jun 2021	Water Color	Green
S9	22 Jun 2021	Current Direction	S
S9	22 Jun 2021	Water Temp (C)	20.5
S9	22 Jun 2021	Wave Height Low (ft)	1
S9	22 Jun 2021	High Tide (ft)	3.74
S9	22 Jun 2021	High Tide Time	825
S9	22 Jun 2021	Low Tide (ft)	-0.73
S9	22 Jun 2021	Low Tide Time	218
S9	22 Jun 2021	Comments	Water turbid; Trash-2; Kelp; Seagrass; 2 Surfers; 2 Joggers
S9	29 Jun 2021	Arrive Time	1039
S9	29 Jun 2021	Weather	Cloudy
S9	29 Jun 2021	Wind Speed (kts)	7.5
S9	29 Jun 2021	Wind Dir	S
S9	29 Jun 2021	Animal Life	7 Seagulls
S9	29 Jun 2021	Floatables	Foam; Film
S9	29 Jun 2021	Water Color	Green
S9	29 Jun 2021	Current Direction	N
S9	29 Jun 2021	Water Temp (C)	20.5
S9	29 Jun 2021	Wave Height Low (ft)	1
S9	29 Jun 2021	High Tide (ft)	4.02
S9	29 Jun 2021	High Tide Time	1440
S9	29 Jun 2021	Low Tide (ft)	-0.23
S9	29 Jun 2021	Low Tide Time	754
S9	29 Jun 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1; 1 Walker; 6 Surfers; 3 Persons

Station	Date	Parameter	Value
S10	01 Jun 2021	Arrive Time	903
S10	01 Jun 2021	Weather	Overcast
S10	01 Jun 2021	Wind Speed (kts)	5.4
S10	01 Jun 2021	Wind Dir	W
S10	01 Jun 2021	Animal Life	None
S10	01 Jun 2021	Floatables	None
S10	01 Jun 2021	Water Color	Green
S10	01 Jun 2021	Current Direction	N
S10	01 Jun 2021	Water Temp (C)	19.5
S10	01 Jun 2021	Wave Height Low (ft)	3
S10	01 Jun 2021	High Tide (ft)	4.51
S10	01 Jun 2021	High Tide Time	207
S10	01 Jun 2021	Low Tide (ft)	-0.04
S10	01 Jun 2021	Low Tide Time	940
S10	01 Jun 2021	Comments	Water clear; Trash-1
S10	08 Jun 2021	Arrive Time	934
S10	08 Jun 2021	Weather	Cloudy
S10	08 Jun 2021	Wind Speed (kts)	5.4
S10	08 Jun 2021	Wind Dir	W
S10	08 Jun 2021	Animal Life	4 Seagulls
S10	08 Jun 2021	Floatables	None
S10	08 Jun 2021	Water Color	Green
S10	08 Jun 2021	Current Direction	N
S10	08 Jun 2021	Water Temp (C)	18.1
S10	08 Jun 2021	Wave Height Low (ft)	1
S10	08 Jun 2021	High Tide (ft)	3.49
S10	08 Jun 2021	High Tide Time	922
S10	08 Jun 2021	Low Tide (ft)	-0.19
S10	08 Jun 2021	Low Tide Time	313
S10	08 Jun 2021	Comments	Water clear; Kelp; Seagrass; Dead animals
S10	10 Jun 2021	Arrive Time	907
S10	10 Jun 2021	Weather	Sunny
S10	10 Jun 2021	Wind Speed (kts)	5.6
S10	10 Jun 2021	Wind Dir	W
S10	10 Jun 2021	Animal Life	2 Terns
S10	10 Jun 2021	Floatables	None
S10	10 Jun 2021	Water Color	Green
S10	10 Jun 2021	Current Direction	S
S10	10 Jun 2021	Water Temp (C)	
S10	10 Jun 2021	Wave Height Low (ft)	3
S10	10 Jun 2021	High Tide (ft)	3.44
S10	10 Jun 2021	High Tide Time	1039
S10	10 Jun 2021	Low Tide (ft)	-0.53
S10	10 Jun 2021	Low Tide Time	418
S10	10 Jun 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Dead animals; Trash-2; Sewage-like odor
S10	15 Jun 2021	Arrive Time	1036
S10	15 Jun 2021	Weather	Partly Cloudy
S10	15 Jun 2021	Wind Speed (kts)	6.8
S10	15 Jun 2021	Wind Dir	SW
S10	15 Jun 2021	Animal Life	1 Egret
S10	15 Jun 2021	Floatables	Foam
S10	15 Jun 2021	Water Color	Brown
S10	15 Jun 2021	Current Direction	N
S10	15 Jun 2021	Water Temp (C)	20.8
S10	15 Jun 2021	Wave Height Low (ft)	4
S10	15 Jun 2021	High Tide (ft)	3.45
S10	15 Jun 2021	High Tide Time	1442

Station	Date	Parameter	Value
S10	15 Jun 2021	Low Tide (ft)	-0.1
S10	15 Jun 2021	Low Tide Time	740
S10	15 Jun 2021	Comments	Water turbid; Kelp; Seagrass; Trash-3; Dead animals
S10	22 Jun 2021	Arrive Time	1010
S10	22 Jun 2021	Weather	Partly Cloudy
S10	22 Jun 2021	Wind Speed (kts)	9.9
S10	22 Jun 2021	Wind Dir	W
S10	22 Jun 2021	Animal Life	3 Seagulls
S10	22 Jun 2021	Floatables	Foam
S10	22 Jun 2021	Water Color	Brown
S10	22 Jun 2021	Current Direction	S
S10	22 Jun 2021	Water Temp (C)	21.4
S10	22 Jun 2021	Wave Height Low (ft)	3
S10	22 Jun 2021	High Tide (ft)	3.74
S10	22 Jun 2021	High Tide Time	825
S10	22 Jun 2021	Low Tide (ft)	-0.73
S10	22 Jun 2021	Low Tide Time	218
S10	22 Jun 2021	Comments	Trash-2; Water turbid; Kelp; Seagrass; Debris; 11 Persons
S10	29 Jun 2021	Arrive Time	811
S10	29 Jun 2021	Weather	Drizzly
S10	29 Jun 2021	Wind Speed (kts)	7.9
S10	29 Jun 2021	Wind Dir	S
S10	29 Jun 2021	Animal Life	5 Godwits
S10	29 Jun 2021	Floatables	None
S10	29 Jun 2021	Water Color	Green
S10	29 Jun 2021	Current Direction	N
S10	29 Jun 2021	Water Temp (C)	20.7
S10	29 Jun 2021	Wave Height Low (ft)	3
S10	29 Jun 2021	High Tide (ft)	4.02
S10	29 Jun 2021	High Tide Time	1440
S10	29 Jun 2021	Low Tide (ft)	-0.23
S10	29 Jun 2021	Low Tide Time	754
S10	29 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-2
S11	01 Jun 2021	Arrive Time	952
S11	01 Jun 2021	Weather	Overcast
S11	01 Jun 2021	Wind Speed (kts)	8.9
S11	01 Jun 2021	Wind Dir	W
S11	01 Jun 2021	Animal Life	None
S11	01 Jun 2021	Floatables	Foam
S11	01 Jun 2021	Water Color	Green
S11	01 Jun 2021	Current Direction	N
S11	01 Jun 2021	Water Temp (C)	20.4
S11	01 Jun 2021	Wave Height Low (ft)	3
S11	01 Jun 2021	High Tide (ft)	4.51
S11	01 Jun 2021	High Tide Time	207
S11	01 Jun 2021	Low Tide (ft)	-0.04
S11	01 Jun 2021	Low Tide Time	940
S11	01 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 3 Persons
S11	08 Jun 2021	Arrive Time	758
S11	08 Jun 2021	Weather	Cloudy
S11	08 Jun 2021	Wind Speed (kts)	3.4
S11	08 Jun 2021	Wind Dir	W
S11	08 Jun 2021	Animal Life	2 Dolphins; 7 Godwits; 5 Terns
S11	08 Jun 2021	Floatables	None
S11	08 Jun 2021	Water Color	Green
S11	08 Jun 2021	Current Direction	N
S11	08 Jun 2021	Water Temp (C)	18.5

Station	Date	Parameter	Value
S11	08 Jun 2021	Wave Height Low (ft)	2
S11	08 Jun 2021	High Tide (ft)	3.49
S11	08 Jun 2021	High Tide Time	922
S11	08 Jun 2021	Low Tide (ft)	-0.19
S11	08 Jun 2021	Low Tide Time	313
S11	08 Jun 2021	Comments	Water clear; Kelp; Seagrass; Sewage-like odor
S11	15 Jun 2021	Arrive Time	838
S11	15 Jun 2021	Weather	Partly Cloudy
S11	15 Jun 2021	Wind Speed (kts)	2.3
S11	15 Jun 2021	Wind Dir	NW
S11	15 Jun 2021	Animal Life	2 Godwits
S11	15 Jun 2021	Floatables	None
S11	15 Jun 2021	Water Color	Green
S11	15 Jun 2021	Current Direction	S
S11	15 Jun 2021	Water Temp (C)	20
S11	15 Jun 2021	Wave Height Low (ft)	3
S11	15 Jun 2021	High Tide (ft)	3.45
S11	15 Jun 2021	High Tide Time	1442
S11	15 Jun 2021	Low Tide (ft)	-0.1
S11	15 Jun 2021	Low Tide Time	740
S11	15 Jun 2021	Comments	Water clear; Kelp; Seagrass; Algae; Trash-1; 1 Surfer
S11	22 Jun 2021	Arrive Time	1148
S11	22 Jun 2021	Weather	Overcast
S11	22 Jun 2021	Wind Speed (kts)	8.1
S11	22 Jun 2021	Wind Dir	W
S11	22 Jun 2021	Animal Life	None
S11	22 Jun 2021	Floatables	Foam
S11	22 Jun 2021	Water Color	Green
S11	22 Jun 2021	Current Direction	S
S11	22 Jun 2021	Water Temp (C)	20.4
S11	22 Jun 2021	Wave Height Low (ft)	3
S11	22 Jun 2021	High Tide (ft)	3.74
S11	22 Jun 2021	High Tide Time	825
S11	22 Jun 2021	Low Tide (ft)	-0.73
S11	22 Jun 2021	Low Tide Time	218
S11	22 Jun 2021	Comments	Kelp; Seagrass; Trash-1; Water turbid; 1 Person
S11	29 Jun 2021	Arrive Time	921
S11	29 Jun 2021	Weather	Cloudy
S11	29 Jun 2021	Wind Speed (kts)	7.1
S11	29 Jun 2021	Wind Dir	S
S11	29 Jun 2021	Animal Life	1 Seagull; 1 Godwit
S11	29 Jun 2021	Floatables	Foam
S11	29 Jun 2021	Water Color	Green
S11	29 Jun 2021	Current Direction	N
S11	29 Jun 2021	Water Temp (C)	20
S11	29 Jun 2021	Wave Height Low (ft)	3
S11	29 Jun 2021	High Tide (ft)	4.02
S11	29 Jun 2021	High Tide Time	1440
S11	29 Jun 2021	Low Tide (ft)	-0.23
S11	29 Jun 2021	Low Tide Time	754
S11	29 Jun 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1; 2 Walkers
S12	01 Jun 2021	Arrive Time	1033
S12	01 Jun 2021	Weather	Partly cloudy
S12	01 Jun 2021	Wind Speed (kts)	6.6
S12	01 Jun 2021	Wind Dir	W
S12	01 Jun 2021	Animal Life	5 Godwits
S12	01 Jun 2021	Floatables	Foam

Station	Date	Parameter	Value
S12	01 Jun 2021	Water Color	Green
S12	01 Jun 2021	Current Direction	N
S12	01 Jun 2021	Water Temp (C)	21.3
S12	01 Jun 2021	Wave Height Low (ft)	1
S12	01 Jun 2021	High Tide (ft)	4.51
S12	01 Jun 2021	High Tide Time	207
S12	01 Jun 2021	Low Tide (ft)	-0.04
S12	01 Jun 2021	Low Tide Time	940
S12	01 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 1 Jogger; 1 Fisherman
S12	08 Jun 2021	Arrive Time	832
S12	08 Jun 2021	Weather	Cloudy
S12	08 Jun 2021	Wind Speed (kts)	2.9
S12	08 Jun 2021	Wind Dir	W
S12	08 Jun 2021	Animal Life	2 Terns
S12	08 Jun 2021	Floatables	Foam
S12	08 Jun 2021	Water Color	Green
S12	08 Jun 2021	Current Direction	N
S12	08 Jun 2021	Water Temp (C)	19.5
S12	08 Jun 2021	Wave Height Low (ft)	2
S12	08 Jun 2021	High Tide (ft)	3.49
S12	08 Jun 2021	High Tide Time	922
S12	08 Jun 2021	Low Tide (ft)	-0.19
S12	08 Jun 2021	Low Tide Time	313
S12	08 Jun 2021	Comments	Water clear; Kelp; Seagrass; 6 Joggers
S12	15 Jun 2021	Arrive Time	907
S12	15 Jun 2021	Weather	Partly Cloudy
S12	15 Jun 2021	Wind Speed (kts)	2.3
S12	15 Jun 2021	Wind Dir	W
S12	15 Jun 2021	Animal Life	3 Godwits; 1 Seagull; 30 Flies
S12	15 Jun 2021	Floatables	Foam
S12	15 Jun 2021	Water Color	Green
S12	15 Jun 2021	Current Direction	S
S12	15 Jun 2021	Water Temp (C)	21.7
S12	15 Jun 2021	Wave Height Low (ft)	3
S12	15 Jun 2021	High Tide (ft)	3.45
S12	15 Jun 2021	High Tide Time	1442
S12	15 Jun 2021	Low Tide (ft)	-0.1
S12	15 Jun 2021	Low Tide Time	740
S12	15 Jun 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 1 Tractor; 1 Jogger
S12	22 Jun 2021	Arrive Time	853
S12	22 Jun 2021	Weather	Overcast
S12	22 Jun 2021	Wind Speed (kts)	6.6
S12	22 Jun 2021	Wind Dir	NW
S12	22 Jun 2021	Animal Life	1 Dog
S12	22 Jun 2021	Floatables	None
S12	22 Jun 2021	Water Color	Green
S12	22 Jun 2021	Current Direction	S
S12	22 Jun 2021	Water Temp (C)	20.9
S12	22 Jun 2021	Wave Height Low (ft)	2
S12	22 Jun 2021	High Tide (ft)	3.74
S12	22 Jun 2021	High Tide Time	825
S12	22 Jun 2021	Low Tide (ft)	-0.73
S12	22 Jun 2021	Low Tide Time	218
S12	22 Jun 2021	Comments	Kelp; Seagrass; Water clear; Trash-1; 4 Persons; 5 Joggers; 9 Swimmers
S12	29 Jun 2021	Arrive Time	939
S12	29 Jun 2021	Weather	Cloudy

Station	Date	Parameter	Value
S12	29 Jun 2021	Wind Speed (kts)	8.1
S12	29 Jun 2021	Wind Dir	SW
S12	29 Jun 2021	Animal Life	2 Dogs; 7 Godwits; 4 Terns
S12	29 Jun 2021	Floatables	Foam
S12	29 Jun 2021	Water Color	Green
S12	29 Jun 2021	Current Direction	N
S12	29 Jun 2021	Water Temp (C)	20.7
S12	29 Jun 2021	Wave Height Low (ft)	2
S12	29 Jun 2021	High Tide (ft)	4.02
S12	29 Jun 2021	High Tide Time	1440
S12	29 Jun 2021	Low Tide (ft)	-0.23
S12	29 Jun 2021	Low Tide Time	754
S12	29 Jun 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1; 6 Persons; 2 Walkers

Kelp Stations

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 Jun 2021	50	14	10	13	9	24	21
02 Jun 2021	21	5	3	6	3	11	8
03 Jun 2021	21	5	3	6	3	11	8
04 Jun 2021	21	5	3	6	3	11	8
05 Jun 2021	21	5	3	6	3	11	8
06 Jun 2021	21	5	3	6	3	11	8
07 Jun 2021	21	5	3	6	3	11	8
08 Jun 2021	28	14	6	12	3	13	15
09 Jun 2021	17	11	6	8	2	10	15
10 Jun 2021	17	11	6	8	2	10	15
11 Jun 2021	17	11	6	8	2	10	15
12 Jun 2021	17	11	6	8	2	10	15
13 Jun 2021	17	11	6	8	2	10	15
14 Jun 2021	17	11	6	8	2	10	15
15 Jun 2021	16	8	5	7	2	8	15
16 Jun 2021	16	8	5	7	2	8	15
17 Jun 2021	28	12	6	9	2	7	14
18 Jun 2021	28	12	6	9	2	7	14
19 Jun 2021	28	12	6	9	2	7	14
20 Jun 2021	28	12	6	9	2	7	14
21 Jun 2021	28	12	6	9	2	7	14
22 Jun 2021	26	13	5	7	3	7	15
23 Jun 2021	26	13	5	7	3	7	15
24 Jun 2021	26	13	5	7	3	7	15
25 Jun 2021	26	13	5	7	3	7	15
26 Jun 2021	31	14	6	9	3	6	18
27 Jun 2021	31	14	6	9	3	6	18
28 Jun 2021	31	14	6	9	3	6	18
29 Jun 2021	24	10	5	7	3	5	16
30 Jun 2021	24	10	5	7	3	5	16

* Geometric mean calculated using n<5

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 Jun 2021	9	6	5	5	4	5	4
02 Jun 2021	4	3	2	2	2	3	2
03 Jun 2021	4	3	2	2	2	3	2
04 Jun 2021	4	3	2	2	2	3	2
05 Jun 2021	4	3	2	2	2	3	2
06 Jun 2021	4	3	2	2	2	3	2
07 Jun 2021	4	3	2	2	2	3	2
08 Jun 2021	5	4	3	3	2	3	3
09 Jun 2021	4	4	3	4	2	3	4
10 Jun 2021	4	4	3	4	2	3	4
11 Jun 2021	4	4	3	4	2	3	4
12 Jun 2021	4	4	3	4	2	3	4
13 Jun 2021	4	4	3	4	2	3	4
14 Jun 2021	4	4	3	4	2	3	4
15 Jun 2021	4	4	3	3	2	3	3
16 Jun 2021	4	4	3	3	2	3	3
17 Jun 2021	4	4	3	4	2	3	4
18 Jun 2021	4	4	3	4	2	3	4
19 Jun 2021	4	4	3	4	2	3	4
20 Jun 2021	4	4	3	4	2	3	4
21 Jun 2021	4	4	3	4	2	3	4
22 Jun 2021	4	4	3	3	2	3	3
23 Jun 2021	4	4	3	3	2	3	3
24 Jun 2021	4	4	3	3	2	3	3
25 Jun 2021	4	4	3	3	2	3	3
26 Jun 2021	4	4	3	4	2	3	4
27 Jun 2021	4	4	3	4	2	3	4
28 Jun 2021	4	4	3	4	2	3	4
29 Jun 2021	4	4	3	3	2	2	3
30 Jun 2021	4	4	3	3	2	2	3

* Geometric mean calculated using n<5

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 Jun 2021	8	6	5	4	4	6	5
02 Jun 2021	4	3	2	2	2	3	3
03 Jun 2021	4	3	2	2	2	3	3
04 Jun 2021	4	3	2	2	2	3	3
05 Jun 2021	4	3	2	2	2	3	3
06 Jun 2021	4	3	2	2	2	3	3
07 Jun 2021	4	3	2	2	2	3	3
08 Jun 2021	6	5	3	4	2	4	4
09 Jun 2021	5	5	3	4	2	3	4
10 Jun 2021	5	5	3	4	2	3	4
11 Jun 2021	5	5	3	4	2	3	4
12 Jun 2021	5	5	3	4	2	3	4
13 Jun 2021	5	5	3	4	2	3	4
14 Jun 2021	5	5	3	4	2	3	4
15 Jun 2021	4	4	3	3	2	3	3
16 Jun 2021	4	4	3	3	2	3	3
17 Jun 2021	5	5	3	4	2	3	4
18 Jun 2021	5	5	3	4	2	3	4
19 Jun 2021	5	5	3	4	2	3	4
20 Jun 2021	5	5	3	4	2	3	4
21 Jun 2021	5	5	3	4	2	3	4
22 Jun 2021	4	4	3	3	2	3	3
23 Jun 2021	4	4	3	3	2	3	3
24 Jun 2021	4	4	3	3	2	3	3
25 Jun 2021	4	4	3	3	2	3	3
26 Jun 2021	4	5	3	4	2	3	4
27 Jun 2021	4	5	3	4	2	3	4
28 Jun 2021	4	5	3	4	2	3	4
29 Jun 2021	4	4	3	3	2	3	3
30 Jun 2021	4	4	3	3	2	3	3

* 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 Jun 2021	IC						
08 Jun 2021	IC						
15 Jun 2021	IC						
22 Jun 2021	IC						
29 Jun 2021	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 Jun 2021	IC						
08 Jun 2021	IC						
15 Jun 2021	IC						
22 Jun 2021	IC						
29 Jun 2021	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 Jun 2021	IC						
08 Jun 2021	IC	E	IC	IC	IC	IC	IC
15 Jun 2021	IC						
22 Jun 2021	IC						
29 Jun 2021	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 Jun 2021	IC						
08 Jun 2021	IC						
15 Jun 2021	IC						
22 Jun 2021	IC						
29 Jun 2021	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.8

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Enter) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
I19	01 Jun 2021	1138	2	<2	<2	<2	1.000	18.2	72.87	8.9	33.77	8.3
I19	01 Jun 2021	1138	6	80e	12e	4e	0.150	15.4	62.67	7.9	33.72	8.2
I19	01 Jun 2021	1138	11	20e	14e	<2	0.700	14.8	48.03	7.2	33.68	8.0
I19	08 Jun 2021	1008	2	8e	<2	2e	0.250	17.8	77.31	9.9	33.67	8.3
I19	08 Jun 2021	1008	6	100e	4e	36e	0.040	17.6	72.88	9.6	33.64	8.3
I19	08 Jun 2021	1008	11	180e	18e	36e	0.100	17.6	66.05	9.4	33.62	8.2
I19	15 Jun 2021	1151	2	2e	<2	<2	1.000	17.7	62.82	8.4	33.69	8.2
I19	15 Jun 2021	1151	6	<20	<2	2e	0.100	13.8	37.43	5.7	33.67	8.0
I19	15 Jun 2021	1151	11	<20	<2	<2	0.100	13.1	46.42	5.2	33.62	7.8
I19	22 Jun 2021	1125	2	<20	2e	<2	0.100	18.7	68.38	8.6	33.65	8.3
I19	22 Jun 2021	1125	6	<20	2e	2e	0.100	17.1	53.38	7.7	33.64	8.2
I19	22 Jun 2021	1125	11	<20	<2	2e	0.100	16.0	54.02	7.0	33.61	8.1
I19	29 Jun 2021	1216	2	<2	<2	<2	1.000	18.9	76.12	8.4	33.63	8.2
I19	29 Jun 2021	1216	6	<2	<2	<2	1.000	18.8	75.22	8.2	33.63	8.2
I19	29 Jun 2021	1216	11	<20	<2	<2	0.100	17.0	60.39	7.4	33.68	8.1
I24	01 Jun 2021	1156	2	<2	<2	<2	1.000	18.6	76.05	9.4	33.76	8.3
I24	01 Jun 2021	1156	6	<2	<2	<2	1.000	16.9	75.25	8.2	33.80	8.2
I24	01 Jun 2021	1156	11	<2	<2	<2	1.000	14.2	71.39	6.8	33.57	7.9
I24	08 Jun 2021	1031	2	400e	<2	6e	0.005	17.9	79.07	10.5	33.70	8.3
I24	08 Jun 2021	1031	6	780	60	120	0.077	17.5	67.83	10.1	33.60	8.3
I24	08 Jun 2021	1031	11	360e	50	82	0.139	17.5	70.85	10.6	33.64	8.3
I24	15 Jun 2021	1213	2	<2	<2	<2	1.000	18.5	68.23	9.7	33.74	8.3
I24	15 Jun 2021	1213	6	<2	<2	<2	1.000	14.3	59.33	7.1	33.66	8.1
I24	15 Jun 2021	1213	11	4e	<2	<2	0.500	13.2	36.53	6.1	33.56	7.9
I24	22 Jun 2021	1140	2	<20	<2	<2	0.100	19.2	69.55	8.1	33.66	8.2
I24	22 Jun 2021	1140	6	<20	2e	<2	0.100	17.6	65.13	7.1	33.65	8.2
I24	22 Jun 2021	1140	11	4e	<2	<2	0.500	16.4	65.75	6.8	33.63	8.1
I24	29 Jun 2021	1230	2	4e	<2	<2	0.500	19.0	75.95	8.5	33.63	8.2
I24	29 Jun 2021	1230	6	2e	<2	<2	1.000	18.9	74.71	8.4	33.63	8.2
I24	29 Jun 2021	1230	11	<2	<2	<2	1.000	15.4	54.55	6.5	33.64	8.0
I25	01 Jun 2021	1204	2	<2	<2	<2	1.000	18.6	76.06	9.5	33.76	8.3
I25	01 Jun 2021	1204	6	<2	<2	<2	1.000	17.2	74.24	8.6	33.79	8.2
I25	01 Jun 2021	1204	9	<2	<2	<2	1.000	13.9	76.24	7.0	33.68	8.0
I25	08 Jun 2021	1038	2	<2	<2	<2	1.000	18.0	78.02	10.6	33.70	8.3
I25	08 Jun 2021	1038	6	60e	2e	14e	0.033	17.6	73.17	10.7	33.67	8.3
I25	08 Jun 2021	1038	9	320e	22e	30e	0.069	17.5	73.44	10.8	33.65	8.3
I25	15 Jun 2021	1222	2	<2	<2	<2	1.000	19.4	67.19	9.9	33.70	8.3
I25	15 Jun 2021	1222	6	<2	<2	<2	1.000	14.9	51.19	7.4	33.74	8.2
I25	15 Jun 2021	1222	9	<2	<2	<2	1.000	13.3	68.27	6.8	33.59	8.0

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
I25	22 Jun 2021	1155	2	<2	<2	<2	1.000	19.6	73.34	8.5	33.68	8.3
I25	22 Jun 2021	1155	6	<2	<2	<2	1.000	19.1	70.98	8.5	33.69	8.3
I25	22 Jun 2021	1155	9	<2	<2	<2	1.000	17.1	71.03	7.8	33.58	8.2
I25	29 Jun 2021	1241	2	<2	<2	<2	1.000	18.9	75.76	8.5	33.63	8.2
I25	29 Jun 2021	1241	6	<2	<2	<2	1.000	18.7	73.23	8.4	33.64	8.2
I25	29 Jun 2021	1241	9	<2	<2	<2	1.000	18.2	69.82	7.8	33.63	8.2
I26	01 Jun 2021	1217	2	<2	<2	<2	1.000	18.6	76.05	9.6	33.76	8.3
I26	01 Jun 2021	1217	6	<2	<2	<2	1.000	17.5	73.93	8.9	33.77	8.3
I26	01 Jun 2021	1217	9	<2	<2	<2	1.000	13.2	77.01	6.7	33.66	8.0
I26	08 Jun 2021	1047	2	260e	<2	12e	0.008	17.7	71.49	10.3	33.63	8.3
I26	08 Jun 2021	1047	6	380e	28e	26e	0.074	17.7	71.52	10.2	33.63	8.3
I26	08 Jun 2021	1047	9	320e	32e	24e	0.100	17.6	71.92	9.9	33.62	8.3
I26	15 Jun 2021	1233	2	<2	<2	<2	1.000	18.2	66.52	9.7	33.71	8.3
I26	15 Jun 2021	1233	6	2e	<2	<2	1.000	13.6	60.32	7.3	33.67	8.1
I26	15 Jun 2021	1233	9	10e	<2	<2	0.200	13.0	71.58	6.7	33.57	7.9
I26	22 Jun 2021	1203	2	<2	<2	<2	1.000	19.6	72.33	8.3	33.68	8.3
I26	22 Jun 2021	1203	6	<2	<2	<2	1.000	17.3	67.82	7.7	33.67	8.2
I26	22 Jun 2021	1203	9	<2	<2	<2	1.000	16.7	63.50	7.6	33.62	8.2
I26	29 Jun 2021	1248	2	<2	<2	<2	1.000	19.0	76.45	8.4	33.63	8.2
I26	29 Jun 2021	1248	6	<2	<2	<2	1.000	18.9	76.15	8.5	33.63	8.2
I26	29 Jun 2021	1248	9	2e	<2	<2	1.000	18.5	72.07	7.9	33.65	8.2
I32	01 Jun 2021	1226	2	<2	<2	<2	1.000	18.3	74.28	8.8	33.76	8.3
I32	01 Jun 2021	1226	6	<2	<2	<2	1.000	16.6	69.25	7.8	33.88	8.2
I32	01 Jun 2021	1226	9	2e	<2	<2	1.000	12.8	59.93	6.4	33.67	8.0
I32	08 Jun 2021	1100	2	<2	<2	<2	1.000	18.3	75.02	11.3	33.72	8.4
I32	08 Jun 2021	1100	6	2e	<2	<2	1.000	17.9	71.83	11.2	33.70	8.4
I32	08 Jun 2021	1100	9	<2	<2	<2	1.000	17.9	74.58	11.0	33.69	8.4
I32	15 Jun 2021	1249	2	<2	<2	<2	1.000	18.3	64.50	8.8	33.73	8.2
I32	15 Jun 2021	1249	6	<2	<2	<2	1.000	13.7	51.80	6.3	33.66	8.0
I32	15 Jun 2021	1249	9	<2	<2	<2	1.000	13.4	50.61	5.9	33.62	7.9
I32	22 Jun 2021	1214	2	<2	<2	<2	1.000	19.6	66.49	7.9	33.68	8.2
I32	22 Jun 2021	1214	6	<20	<2	<2	0.100	17.1	56.82	8.1	33.62	8.2
I32	22 Jun 2021	1214	9	<20	<2	<2	0.100	16.7	56.11	7.8	33.62	8.2
I32	29 Jun 2021	1301	2	<2	<2	<2	1.000	19.0	73.05	7.8	33.63	8.2
I32	29 Jun 2021	1301	6	<2	<2	<2	1.000	18.9	73.25	7.8	33.63	8.2
I32	29 Jun 2021	1301	9	<2	<2	<2	1.000	18.9	73.71	8.3	33.63	8.2
I39	01 Jun 2021	1120	2	<2	<2	<2	1.000	18.4	75.17	9.8	33.71	8.3
I39	01 Jun 2021	1120	12	<2	<2	<2	1.000	17.4	69.91	10.4	33.74	8.3
I39	01 Jun 2021	1120	18	<2	<2	<2	1.000	12.6	79.80	6.4	33.63	8.0
I39	08 Jun 2021	951	2	<2	<2	<2	1.000	18.0	79.58	10.5	33.71	8.3
I39	08 Jun 2021	951	12	60e	12e	16e	0.200	17.2	72.71	11.5	33.66	8.3
I39	08 Jun 2021	951	18	<20	<2	4e	0.100	15.8	70.23	9.9	33.69	8.2
I39	15 Jun 2021	1126	2	<2	<2	<2	1.000	18.8	71.40	9.7	33.71	8.3
I39	15 Jun 2021	1126	12	<2	<2	<2	1.000	14.2	64.61	8.5	33.65	8.2
I39	15 Jun 2021	1126	18	6e	<2	<2	0.333	12.3	79.18	2.8	33.61	7.9
I39	22 Jun 2021	1105	2	<2	<2	<2	1.000	19.9	74.15	8.8	33.68	8.3

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
I39	22 Jun 2021	1105	12	2e	<2	<2	1.000	17.2	69.25	9.2	33.62	8.3
I39	22 Jun 2021	1105	18	<20	<2	<2	0.100	15.3	72.85	7.6	33.60	8.1
I39	29 Jun 2021	1148	2	<2	<2	<2	1.000	19.5	81.20	8.1	33.59	8.2
I39	29 Jun 2021	1148	12	2e	<2	<2	1.000	19.1	79.69	8.5	33.62	8.2
I39	29 Jun 2021	1148	18	<2	<2	<2	1.000	15.3	70.94	7.5	33.63	8.1
I40	01 Jun 2021	1149	2	<2	<2	<2	1.000	18.1	72.20	8.6	33.76	8.2
I40	01 Jun 2021	1149	6	<2	<2	<2	1.000	16.0	70.45	8.6	33.76	8.2
I40	01 Jun 2021	1149	9	<2	<2	<2	1.000	13.3	51.71	6.0	33.71	8.0
I40	08 Jun 2021	1019	2	4e	4e	4e	1.000	17.9	76.84	10.3	33.68	8.3
I40	08 Jun 2021	1019	6	120e	8e	76	0.067	17.8	75.42	10.2	33.68	8.3
I40	08 Jun 2021	1019	9	460	60	18e	0.130	17.6	69.31	9.9	33.63	8.3
I40	15 Jun 2021	1203	2	<2	<2	<2	1.000	16.9	57.96	8.2	33.68	8.2
I40	15 Jun 2021	1203	6	<20	<2	<2	0.100	13.9	62.25	6.2	33.66	8.0
I40	15 Jun 2021	1203	9	<20	<2	<2	0.100	13.1	64.76	5.7	33.63	7.9
I40	22 Jun 2021	1130	2	<20	<2	<2	0.100	19.5	64.92	7.6	33.67	8.2
I40	22 Jun 2021	1130	6	<20	<2	<2	0.100	17.5	60.31	8.4	33.63	8.2
I40	22 Jun 2021	1130	9	<20	<2	<2	0.100	16.8	36.51	6.7	33.63	8.1
I40	29 Jun 2021	1225	2	<20	<2	<2	0.100	18.9	75.81	8.4	33.63	8.2
I40	29 Jun 2021	1225	6	<2	<2	<2	1.000	18.9	75.09	8.3	33.63	8.2
I40	29 Jun 2021	1225	9	4e	<2	<2	0.500	17.0	56.84	7.1	33.77	8.1

ns = not sampled

ND = no data

Table 3.9

Summary of visual observations made during the month for each SBOO kelp station by sample date.

Station	Date	Parameter	Value
I19	01 Jun 2021	Depth (m)	10.5
I19	01 Jun 2021	Arrive Time	1138
I19	01 Jun 2021	Depart Time	1142
I19	01 Jun 2021	Air Temp (C)	16.2
I19	01 Jun 2021	Weather	Overcast
I19	01 Jun 2021	Visibility (mi)	7
I19	01 Jun 2021	Wind Speed (kts)	5.6
I19	01 Jun 2021	Wind Dir	SW
I19	01 Jun 2021	Water Color	Brownish-Green
I19	01 Jun 2021	Wave Ht Low (ft)	3
I19	01 Jun 2021	Wave Period (sec)	16
I19	01 Jun 2021	Sea State	Light Chop
I19	01 Jun 2021	High Tide (ft)	4.46216
I19	01 Jun 2021	High Tide Time	148
I19	01 Jun 2021	Low Tide (ft)	-0.09843
I19	01 Jun 2021	Low Tide Time	936
I19	01 Jun 2021	Comments	none
I19	08 Jun 2021	Depth (m)	11.3
I19	08 Jun 2021	Arrive Time	1008
I19	08 Jun 2021	Depart Time	1011
I19	08 Jun 2021	Air Temp (C)	16.4
I19	08 Jun 2021	Weather	Overcast
I19	08 Jun 2021	Visibility (mi)	9
I19	08 Jun 2021	Wind Speed (kts)	3.9
I19	08 Jun 2021	Wind Dir	SW
I19	08 Jun 2021	Water Color	Greenish-Brown
I19	08 Jun 2021	Wave Ht Low (ft)	2
I19	08 Jun 2021	Wave Period (sec)	12
I19	08 Jun 2021	Sea State	Light Chop
I19	08 Jun 2021	High Tide (ft)	5.70894
I19	08 Jun 2021	High Tide Time	2024
I19	08 Jun 2021	Low Tide (ft)	-0.19686
I19	08 Jun 2021	Low Tide Time	300
I19	08 Jun 2021	Comments	none
I19	15 Jun 2021	Depth (m)	10.64
I19	15 Jun 2021	Arrive Time	1151
I19	15 Jun 2021	Depart Time	1157
I19	15 Jun 2021	Air Temp (C)	19.1
I19	15 Jun 2021	Weather	Partly Cloudy
I19	15 Jun 2021	Visibility (mi)	12
I19	15 Jun 2021	Wind Speed (kts)	5.4
I19	15 Jun 2021	Wind Dir	SW
I19	15 Jun 2021	Water Color	Green
I19	15 Jun 2021	Wave Ht Low (ft)	4
I19	15 Jun 2021	Wave Period (sec)	8
I19	15 Jun 2021	Sea State	Wind Ripples
I19	15 Jun 2021	High Tide (ft)	5.08555
I19	15 Jun 2021	High Tide Time	6
I19	15 Jun 2021	Low Tide (ft)	-0.06562
I19	15 Jun 2021	Low Tide Time	724
I19	15 Jun 2021	Comments	none
I19	22 Jun 2021	Depth (m)	10.9
I19	22 Jun 2021	Arrive Time	1123

Station	Date	Parameter	Value
I19	22 Jun 2021	Depart Time	1126
I19	22 Jun 2021	Air Temp (C)	18.3
I19	22 Jun 2021	Weather	overcast
I19	22 Jun 2021	Visibility (mi)	6
I19	22 Jun 2021	Wind Speed (kts)	8.1
I19	22 Jun 2021	Wind Dir	W
I19	22 Jun 2021	Water Color	Green
I19	22 Jun 2021	Wave Ht Low (ft)	5
I19	22 Jun 2021	Wave Period (sec)	8
I19	22 Jun 2021	Sea State	choppy
I19	22 Jun 2021	High Tide (ft)	6.69324
I19	22 Jun 2021	High Tide Time	1936
I19	22 Jun 2021	Low Tide (ft)	-0.72182
I19	22 Jun 2021	Low Tide Time	212
I19	22 Jun 2021	Comments	none
I19	29 Jun 2021	Depth (m)	10.5
I19	29 Jun 2021	Arrive Time	1216
I19	29 Jun 2021	Depart Time	1220
I19	29 Jun 2021	Air Temp (C)	18.1
I19	29 Jun 2021	Weather	Overcast
I19	29 Jun 2021	Visibility (mi)	7
I19	29 Jun 2021	Wind Speed (kts)	12.7
I19	29 Jun 2021	Wind Dir	S
I19	29 Jun 2021	Water Color	Blue
I19	29 Jun 2021	Wave Ht Low (ft)	4
I19	29 Jun 2021	Wave Period (sec)	12
I19	29 Jun 2021	Sea State	Light Chop
I19	29 Jun 2021	High Tide (ft)	5.213509
I19	29 Jun 2021	High Tide Time	36
I19	29 Jun 2021	Low Tide (ft)	-0.183736
I19	29 Jun 2021	Low Tide Time	748
I19	29 Jun 2021	Comments	none
I24	01 Jun 2021	Depth (m)	8.8
I24	01 Jun 2021	Arrive Time	1156
I24	01 Jun 2021	Depart Time	1201
I24	01 Jun 2021	Air Temp (C)	16.2
I24	01 Jun 2021	Weather	Overcast
I24	01 Jun 2021	Visibility (mi)	7
I24	01 Jun 2021	Wind Speed (kts)	7.3
I24	01 Jun 2021	Wind Dir	SW
I24	01 Jun 2021	Water Color	Brownish-Green
I24	01 Jun 2021	Wave Ht Low (ft)	3
I24	01 Jun 2021	Wave Period (sec)	16
I24	01 Jun 2021	Sea State	Light Chop
I24	01 Jun 2021	High Tide (ft)	4.46216
I24	01 Jun 2021	High Tide Time	148
I24	01 Jun 2021	Low Tide (ft)	-0.09843
I24	01 Jun 2021	Low Tide Time	936
I24	01 Jun 2021	Comments	none
I24	08 Jun 2021	Depth (m)	10.5
I24	08 Jun 2021	Arrive Time	1031
I24	08 Jun 2021	Depart Time	1032
I24	08 Jun 2021	Air Temp (C)	16.8
I24	08 Jun 2021	Weather	Overcast
I24	08 Jun 2021	Visibility (mi)	9
I24	08 Jun 2021	Wind Speed (kts)	4.1
I24	08 Jun 2021	Wind Dir	SW
I24	08 Jun 2021	Water Color	Greenish-Brown

Station	Date	Parameter	Value
I24	08 Jun 2021	Wave Ht Low (ft)	2
I24	08 Jun 2021	Wave Period (sec)	12
I24	08 Jun 2021	Sea State	Light Chop
I24	08 Jun 2021	High Tide (ft)	5.70894
I24	08 Jun 2021	High Tide Time	2024
I24	08 Jun 2021	Low Tide (ft)	-0.19686
I24	08 Jun 2021	Low Tide Time	300
I24	08 Jun 2021	Comments	none
I24	15 Jun 2021	Depth (m)	10.52
I24	15 Jun 2021	Arrive Time	1213
I24	15 Jun 2021	Depart Time	1219
I24	15 Jun 2021	Air Temp (C)	19.1
I24	15 Jun 2021	Weather	Partly Cloudy
I24	15 Jun 2021	Visibility (mi)	12
I24	15 Jun 2021	Wind Speed (kts)	12.5
I24	15 Jun 2021	Wind Dir	W
I24	15 Jun 2021	Water Color	Blueish-Green
I24	15 Jun 2021	Wave Ht Low (ft)	4
I24	15 Jun 2021	Wave Period (sec)	8
I24	15 Jun 2021	Sea State	Wind Ripples
I24	15 Jun 2021	High Tide (ft)	5.08555
I24	15 Jun 2021	High Tide Time	6
I24	15 Jun 2021	Low Tide (ft)	-0.06562
I24	15 Jun 2021	Low Tide Time	724
I24	15 Jun 2021	Comments	none
I24	22 Jun 2021	Depth (m)	8.9
I24	22 Jun 2021	Arrive Time	1141
I24	22 Jun 2021	Depart Time	1149
I24	22 Jun 2021	Air Temp (C)	18.4
I24	22 Jun 2021	Weather	Overcast
I24	22 Jun 2021	Visibility (mi)	6
I24	22 Jun 2021	Wind Speed (kts)	5.7
I24	22 Jun 2021	Wind Dir	W
I24	22 Jun 2021	Water Color	Green
I24	22 Jun 2021	Wave Ht Low (ft)	5
I24	22 Jun 2021	Wave Period (sec)	8
I24	22 Jun 2021	Sea State	choppy
I24	22 Jun 2021	High Tide (ft)	6.69324
I24	22 Jun 2021	High Tide Time	1936
I24	22 Jun 2021	Low Tide (ft)	-0.72182
I24	22 Jun 2021	Low Tide Time	212
I24	22 Jun 2021	Comments	none
I24	29 Jun 2021	Depth (m)	10
I24	29 Jun 2021	Arrive Time	1230
I24	29 Jun 2021	Depart Time	1236
I24	29 Jun 2021	Air Temp (C)	18.1
I24	29 Jun 2021	Weather	Overcast
I24	29 Jun 2021	Visibility (mi)	8
I24	29 Jun 2021	Wind Speed (kts)	12.4
I24	29 Jun 2021	Wind Dir	SW
I24	29 Jun 2021	Water Color	Blue
I24	29 Jun 2021	Wave Ht Low (ft)	4
I24	29 Jun 2021	Wave Period (sec)	12
I24	29 Jun 2021	Sea State	Light Chop
I24	29 Jun 2021	High Tide (ft)	5.213509
I24	29 Jun 2021	High Tide Time	36
I24	29 Jun 2021	Low Tide (ft)	-0.183736
I24	29 Jun 2021	Low Tide Time	748

Station	Date	Parameter	Value
I24	29 Jun 2021	Comments	none
I25	01 Jun 2021	Depth (m)	8.9
I25	01 Jun 2021	Arrive Time	1204
I25	01 Jun 2021	Depart Time	1212
I25	01 Jun 2021	Air Temp (C)	16.2
I25	01 Jun 2021	Weather	Overcast
I25	01 Jun 2021	Visibility (mi)	7
I25	01 Jun 2021	Wind Speed (kts)	6.1
I25	01 Jun 2021	Wind Dir	SW
I25	01 Jun 2021	Water Color	Brownish-Green
I25	01 Jun 2021	Wave Ht Low (ft)	3
I25	01 Jun 2021	Wave Period (sec)	16
I25	01 Jun 2021	Sea State	Light Chop
I25	01 Jun 2021	High Tide (ft)	4.46216
I25	01 Jun 2021	High Tide Time	148
I25	01 Jun 2021	Low Tide (ft)	-0.09843
I25	01 Jun 2021	Low Tide Time	936
I25	01 Jun 2021	Comments	Kelp Debris
I25	08 Jun 2021	Depth (m)	
I25	08 Jun 2021	Arrive Time	1038
I25	08 Jun 2021	Depart Time	1040
I25	08 Jun 2021	Air Temp (C)	16.9
I25	08 Jun 2021	Weather	Overcast
I25	08 Jun 2021	Visibility (mi)	9
I25	08 Jun 2021	Wind Speed (kts)	5
I25	08 Jun 2021	Wind Dir	SW
I25	08 Jun 2021	Water Color	Greenish-Brown
I25	08 Jun 2021	Wave Ht Low (ft)	2
I25	08 Jun 2021	Wave Period (sec)	12
I25	08 Jun 2021	Sea State	Light Chop
I25	08 Jun 2021	High Tide (ft)	5.70894
I25	08 Jun 2021	High Tide Time	2024
I25	08 Jun 2021	Low Tide (ft)	-0.19686
I25	08 Jun 2021	Low Tide Time	300
I25	08 Jun 2021	Comments	none
I25	15 Jun 2021	Depth (m)	9.96
I25	15 Jun 2021	Arrive Time	1222
I25	15 Jun 2021	Depart Time	1227
I25	15 Jun 2021	Air Temp (C)	19.2
I25	15 Jun 2021	Weather	Partly Cloudy
I25	15 Jun 2021	Visibility (mi)	12
I25	15 Jun 2021	Wind Speed (kts)	6.1
I25	15 Jun 2021	Wind Dir	NW
I25	15 Jun 2021	Water Color	Blueish-Green
I25	15 Jun 2021	Wave Ht Low (ft)	4
I25	15 Jun 2021	Wave Period (sec)	8
I25	15 Jun 2021	Sea State	Wind Ripples
I25	15 Jun 2021	High Tide (ft)	5.08555
I25	15 Jun 2021	High Tide Time	6
I25	15 Jun 2021	Low Tide (ft)	-0.06562
I25	15 Jun 2021	Low Tide Time	724
I25	15 Jun 2021	Comments	none
I25	22 Jun 2021	Depth (m)	8.9
I25	22 Jun 2021	Arrive Time	1149
I25	22 Jun 2021	Depart Time	1156
I25	22 Jun 2021	Air Temp (C)	18.3
I25	22 Jun 2021	Weather	Overcast

Station	Date	Parameter	Value
I25	22 Jun 2021	Visibility (mi)	6
I25	22 Jun 2021	Wind Speed (kts)	8.1
I25	22 Jun 2021	Wind Dir	W
I25	22 Jun 2021	Water Color	Green
I25	22 Jun 2021	Wave Ht Low (ft)	5
I25	22 Jun 2021	Wave Period (sec)	8
I25	22 Jun 2021	Sea State	choppy
I25	22 Jun 2021	High Tide (ft)	6.69324
I25	22 Jun 2021	High Tide Time	1936
I25	22 Jun 2021	Low Tide (ft)	-0.72182
I25	22 Jun 2021	Low Tide Time	212
I25	22 Jun 2021	Comments	none
I25	29 Jun 2021	Depth (m)	9.3
I25	29 Jun 2021	Arrive Time	1241
I25	29 Jun 2021	Depart Time	1245
I25	29 Jun 2021	Air Temp (C)	18.2
I25	29 Jun 2021	Weather	Overcast
I25	29 Jun 2021	Visibility (mi)	8
I25	29 Jun 2021	Wind Speed (kts)	13.1
I25	29 Jun 2021	Wind Dir	S
I25	29 Jun 2021	Water Color	Blue
I25	29 Jun 2021	Wave Ht Low (ft)	4
I25	29 Jun 2021	Wave Period (sec)	12
I25	29 Jun 2021	Sea State	Light Chop
I25	29 Jun 2021	High Tide (ft)	5.213509
I25	29 Jun 2021	High Tide Time	36
I25	29 Jun 2021	Low Tide (ft)	-0.183736
I25	29 Jun 2021	Low Tide Time	748
I25	29 Jun 2021	Comments	none
I26	01 Jun 2021	Depth (m)	8.8
I26	01 Jun 2021	Arrive Time	1217
I26	01 Jun 2021	Depart Time	1218
I26	01 Jun 2021	Air Temp (C)	16.1
I26	01 Jun 2021	Weather	Overcast
I26	01 Jun 2021	Visibility (mi)	7
I26	01 Jun 2021	Wind Speed (kts)	7.7
I26	01 Jun 2021	Wind Dir	SW
I26	01 Jun 2021	Water Color	Brownish-Green
I26	01 Jun 2021	Wave Ht Low (ft)	3
I26	01 Jun 2021	Wave Period (sec)	16
I26	01 Jun 2021	Sea State	Light Chop
I26	01 Jun 2021	High Tide (ft)	4.46216
I26	01 Jun 2021	High Tide Time	148
I26	01 Jun 2021	Low Tide (ft)	-0.09843
I26	01 Jun 2021	Low Tide Time	936
I26	01 Jun 2021	Comments	Kelp Debris
I26	08 Jun 2021	Depth (m)	
I26	08 Jun 2021	Arrive Time	1047
I26	08 Jun 2021	Depart Time	1049
I26	08 Jun 2021	Air Temp (C)	17.1
I26	08 Jun 2021	Weather	Overcast
I26	08 Jun 2021	Visibility (mi)	11
I26	08 Jun 2021	Wind Speed (kts)	3.4
I26	08 Jun 2021	Wind Dir	SW
I26	08 Jun 2021	Water Color	Green
I26	08 Jun 2021	Wave Ht Low (ft)	2
I26	08 Jun 2021	Wave Period (sec)	12
I26	08 Jun 2021	Sea State	Light Chop

Station	Date	Parameter	Value
I26	08 Jun 2021	High Tide (ft)	5.70894
I26	08 Jun 2021	High Tide Time	2024
I26	08 Jun 2021	Low Tide (ft)	-0.19686
I26	08 Jun 2021	Low Tide Time	300
I26	08 Jun 2021	Comments	none
I26	15 Jun 2021	Depth (m)	9.66
I26	15 Jun 2021	Arrive Time	1233
I26	15 Jun 2021	Depart Time	1239
I26	15 Jun 2021	Air Temp (C)	19.1
I26	15 Jun 2021	Weather	Partly Cloudy
I26	15 Jun 2021	Visibility (mi)	12
I26	15 Jun 2021	Wind Speed (kts)	8.3
I26	15 Jun 2021	Wind Dir	W
I26	15 Jun 2021	Water Color	Blueish-Green
I26	15 Jun 2021	Wave Ht Low (ft)	4
I26	15 Jun 2021	Wave Period (sec)	8
I26	15 Jun 2021	Sea State	Wind Ripples
I26	15 Jun 2021	High Tide (ft)	5.08555
I26	15 Jun 2021	High Tide Time	6
I26	15 Jun 2021	Low Tide (ft)	-0.06562
I26	15 Jun 2021	Low Tide Time	724
I26	15 Jun 2021	Comments	Kelp Debris
I26	22 Jun 2021	Depth (m)	9.5
I26	22 Jun 2021	Arrive Time	1203
I26	22 Jun 2021	Depart Time	1214
I26	22 Jun 2021	Air Temp (C)	18.3
I26	22 Jun 2021	Weather	Overcast
I26	22 Jun 2021	Visibility (mi)	6
I26	22 Jun 2021	Wind Speed (kts)	10.8
I26	22 Jun 2021	Wind Dir	W
I26	22 Jun 2021	Water Color	Green
I26	22 Jun 2021	Wave Ht Low (ft)	5
I26	22 Jun 2021	Wave Period (sec)	8
I26	22 Jun 2021	Sea State	Other (see notes)
I26	22 Jun 2021	High Tide (ft)	6.69324
I26	22 Jun 2021	High Tide Time	1936
I26	22 Jun 2021	Low Tide (ft)	-0.72182
I26	22 Jun 2021	Low Tide Time	212
I26	22 Jun 2021	Comments	none
I26	29 Jun 2021	Depth (m)	10.3
I26	29 Jun 2021	Arrive Time	1248
I26	29 Jun 2021	Depart Time	1253
I26	29 Jun 2021	Air Temp (C)	18.3
I26	29 Jun 2021	Weather	Overcast
I26	29 Jun 2021	Visibility (mi)	8
I26	29 Jun 2021	Wind Speed (kts)	11.6
I26	29 Jun 2021	Wind Dir	S
I26	29 Jun 2021	Water Color	Blue
I26	29 Jun 2021	Wave Ht Low (ft)	4
I26	29 Jun 2021	Wave Period (sec)	12
I26	29 Jun 2021	Sea State	Light Chop
I26	29 Jun 2021	High Tide (ft)	5.213509
I26	29 Jun 2021	High Tide Time	36
I26	29 Jun 2021	Low Tide (ft)	-0.183736
I26	29 Jun 2021	Low Tide Time	748
I26	29 Jun 2021	Comments	none
I32	01 Jun 2021	Depth (m)	10.1

Station	Date	Parameter	Value
I32	01 Jun 2021	Arrive Time	1226
I32	01 Jun 2021	Depart Time	1231
I32	01 Jun 2021	Air Temp (C)	16.3
I32	01 Jun 2021	Weather	Overcast
I32	01 Jun 2021	Visibility (mi)	7
I32	01 Jun 2021	Wind Speed (kts)	9.1
I32	01 Jun 2021	Wind Dir	SW
I32	01 Jun 2021	Water Color	Blueish-Green
I32	01 Jun 2021	Wave Ht Low (ft)	3
I32	01 Jun 2021	Wave Period (sec)	16
I32	01 Jun 2021	Sea State	Light Chop
I32	01 Jun 2021	High Tide (ft)	4.46216
I32	01 Jun 2021	High Tide Time	148
I32	01 Jun 2021	Low Tide (ft)	-0.09843
I32	01 Jun 2021	Low Tide Time	936
I32	01 Jun 2021	Comments	none
I32	08 Jun 2021	Depth (m)	10.8
I32	08 Jun 2021	Arrive Time	1100
I32	08 Jun 2021	Depart Time	1102
I32	08 Jun 2021	Air Temp (C)	17.2
I32	08 Jun 2021	Weather	Overcast
I32	08 Jun 2021	Visibility (mi)	11
I32	08 Jun 2021	Wind Speed (kts)	4.9
I32	08 Jun 2021	Wind Dir	W
I32	08 Jun 2021	Water Color	Green
I32	08 Jun 2021	Wave Ht Low (ft)	2
I32	08 Jun 2021	Wave Period (sec)	12
I32	08 Jun 2021	Sea State	Light Chop
I32	08 Jun 2021	High Tide (ft)	5.70894
I32	08 Jun 2021	High Tide Time	2024
I32	08 Jun 2021	Low Tide (ft)	-0.19686
I32	08 Jun 2021	Low Tide Time	300
I32	08 Jun 2021	Comments	none
I32	15 Jun 2021	Depth (m)	10.64
I32	15 Jun 2021	Arrive Time	1249
I32	15 Jun 2021	Depart Time	1253
I32	15 Jun 2021	Air Temp (C)	19
I32	15 Jun 2021	Weather	Partly Cloudy
I32	15 Jun 2021	Visibility (mi)	12
I32	15 Jun 2021	Wind Speed (kts)	6.9
I32	15 Jun 2021	Wind Dir	NW
I32	15 Jun 2021	Water Color	Blueish-Green
I32	15 Jun 2021	Wave Ht Low (ft)	4
I32	15 Jun 2021	Wave Period (sec)	8
I32	15 Jun 2021	Sea State	Wind Ripples
I32	15 Jun 2021	High Tide (ft)	5.08555
I32	15 Jun 2021	High Tide Time	6
I32	15 Jun 2021	Low Tide (ft)	-0.06562
I32	15 Jun 2021	Low Tide Time	724
I32	15 Jun 2021	Comments	none
I32	22 Jun 2021	Depth (m)	10.3
I32	22 Jun 2021	Arrive Time	1214
I32	22 Jun 2021	Depart Time	1220
I32	22 Jun 2021	Air Temp (C)	18.2
I32	22 Jun 2021	Weather	Overcast
I32	22 Jun 2021	Visibility (mi)	6
I32	22 Jun 2021	Wind Speed (kts)	9.5
I32	22 Jun 2021	Wind Dir	W

Station	Date	Parameter	Value
I32	22 Jun 2021	Water Color	Green
I32	22 Jun 2021	Wave Ht Low (ft)	5
I32	22 Jun 2021	Wave Period (sec)	8
I32	22 Jun 2021	Sea State	Other (see notes)
I32	22 Jun 2021	High Tide (ft)	6.69324
I32	22 Jun 2021	High Tide Time	1936
I32	22 Jun 2021	Low Tide (ft)	-0.72182
I32	22 Jun 2021	Low Tide Time	212
I32	22 Jun 2021	Comments	none
I32	29 Jun 2021	Depth (m)	11.9
I32	29 Jun 2021	Arrive Time	1300
I32	29 Jun 2021	Depart Time	1306
I32	29 Jun 2021	Air Temp (C)	18.3
I32	29 Jun 2021	Weather	Overcast
I32	29 Jun 2021	Visibility (mi)	8
I32	29 Jun 2021	Wind Speed (kts)	13.4
I32	29 Jun 2021	Wind Dir	S
I32	29 Jun 2021	Water Color	Blue
I32	29 Jun 2021	Wave Ht Low (ft)	4
I32	29 Jun 2021	Wave Period (sec)	12
I32	29 Jun 2021	Sea State	Light Chop
I32	29 Jun 2021	High Tide (ft)	5.213509
I32	29 Jun 2021	High Tide Time	36
I32	29 Jun 2021	Low Tide (ft)	-0.183736
I32	29 Jun 2021	Low Tide Time	748
I32	29 Jun 2021	Comments	none
I39	01 Jun 2021	Depth (m)	18.9
I39	01 Jun 2021	Arrive Time	1120
I39	01 Jun 2021	Depart Time	1124
I39	01 Jun 2021	Air Temp (C)	16.2
I39	01 Jun 2021	Weather	Overcast
I39	01 Jun 2021	Visibility (mi)	7
I39	01 Jun 2021	Wind Speed (kts)	6.4
I39	01 Jun 2021	Wind Dir	SW
I39	01 Jun 2021	Water Color	Green
I39	01 Jun 2021	Wave Ht Low (ft)	3
I39	01 Jun 2021	Wave Period (sec)	16
I39	01 Jun 2021	Sea State	Light Chop
I39	01 Jun 2021	High Tide (ft)	4.46216
I39	01 Jun 2021	High Tide Time	148
I39	01 Jun 2021	Low Tide (ft)	-0.09843
I39	01 Jun 2021	Low Tide Time	936
I39	01 Jun 2021	Comments	none
I39	08 Jun 2021	Depth (m)	19.1
I39	08 Jun 2021	Arrive Time	951
I39	08 Jun 2021	Depart Time	953
I39	08 Jun 2021	Air Temp (C)	16.8
I39	08 Jun 2021	Weather	Overcast
I39	08 Jun 2021	Visibility (mi)	9
I39	08 Jun 2021	Wind Speed (kts)	5.6
I39	08 Jun 2021	Wind Dir	W
I39	08 Jun 2021	Water Color	Blueish-Green
I39	08 Jun 2021	Wave Ht Low (ft)	2
I39	08 Jun 2021	Wave Period (sec)	12
I39	08 Jun 2021	Sea State	Light Chop
I39	08 Jun 2021	High Tide (ft)	5.70894
I39	08 Jun 2021	High Tide Time	2024
I39	08 Jun 2021	Low Tide (ft)	-0.19686

Station	Date	Parameter	Value
I39	08 Jun 2021	Low Tide Time	300
I39	08 Jun 2021	Comments	none
I39	15 Jun 2021	Depth (m)	18.75
I39	15 Jun 2021	Arrive Time	1126
I39	15 Jun 2021	Depart Time	1131
I39	15 Jun 2021	Air Temp (C)	19.1
I39	15 Jun 2021	Weather	Partly Cloudy
I39	15 Jun 2021	Visibility (mi)	12
I39	15 Jun 2021	Wind Speed (kts)	3.5
I39	15 Jun 2021	Wind Dir	SW
I39	15 Jun 2021	Water Color	Blueish-Green
I39	15 Jun 2021	Wave Ht Low (ft)	4
I39	15 Jun 2021	Wave Period (sec)	8
I39	15 Jun 2021	Sea State	Wind Ripples
I39	15 Jun 2021	High Tide (ft)	5.08555
I39	15 Jun 2021	High Tide Time	6
I39	15 Jun 2021	Low Tide (ft)	-0.06562
I39	15 Jun 2021	Low Tide Time	724
I39	15 Jun 2021	Comments	Rescast, NavOps restarted due to data dropout
I39	22 Jun 2021	Depth (m)	19.5
I39	22 Jun 2021	Arrive Time	1104
I39	22 Jun 2021	Depart Time	1109
I39	22 Jun 2021	Air Temp (C)	18.3
I39	22 Jun 2021	Weather	Overcast
I39	22 Jun 2021	Visibility (mi)	6
I39	22 Jun 2021	Wind Speed (kts)	11.6
I39	22 Jun 2021	Wind Dir	W
I39	22 Jun 2021	Water Color	Green
I39	22 Jun 2021	Wave Ht Low (ft)	5
I39	22 Jun 2021	Wave Period (sec)	8
I39	22 Jun 2021	Sea State	Rough
I39	22 Jun 2021	High Tide (ft)	6.69324
I39	22 Jun 2021	High Tide Time	1936
I39	22 Jun 2021	Low Tide (ft)	-0.72182
I39	22 Jun 2021	Low Tide Time	212
I39	22 Jun 2021	Comments	none
I39	29 Jun 2021	Depth (m)	20.1
I39	29 Jun 2021	Arrive Time	1148
I39	29 Jun 2021	Depart Time	1156
I39	29 Jun 2021	Air Temp (C)	17.9
I39	29 Jun 2021	Weather	Overcast
I39	29 Jun 2021	Visibility (mi)	7
I39	29 Jun 2021	Wind Speed (kts)	12
I39	29 Jun 2021	Wind Dir	S
I39	29 Jun 2021	Water Color	Blue
I39	29 Jun 2021	Wave Ht Low (ft)	4
I39	29 Jun 2021	Wave Period (sec)	12
I39	29 Jun 2021	Sea State	Light Chop
I39	29 Jun 2021	High Tide (ft)	5.213509
I39	29 Jun 2021	High Tide Time	36
I39	29 Jun 2021	Low Tide (ft)	-0.183736
I39	29 Jun 2021	Low Tide Time	748
I39	29 Jun 2021	Comments	none
I40	01 Jun 2021	Depth (m)	9.9
I40	01 Jun 2021	Arrive Time	1149
I40	01 Jun 2021	Depart Time	1151
I40	01 Jun 2021	Air Temp (C)	16.2

Station	Date	Parameter	Value
I40	01 Jun 2021	Weather	Overcast
I40	01 Jun 2021	Visibility (mi)	7
I40	01 Jun 2021	Wind Speed (kts)	8.7
I40	01 Jun 2021	Wind Dir	SW
I40	01 Jun 2021	Water Color	Brownish-Green
I40	01 Jun 2021	Wave Ht Low (ft)	3
I40	01 Jun 2021	Wave Period (sec)	16
I40	01 Jun 2021	Sea State	Light Chop
I40	01 Jun 2021	High Tide (ft)	4.46216
I40	01 Jun 2021	High Tide Time	148
I40	01 Jun 2021	Low Tide (ft)	-0.09843
I40	01 Jun 2021	Low Tide Time	936
I40	01 Jun 2021	Comments	none
I40	08 Jun 2021	Depth (m)	10.5
I40	08 Jun 2021	Arrive Time	1019
I40	08 Jun 2021	Depart Time	1021
I40	08 Jun 2021	Air Temp (C)	16.7
I40	08 Jun 2021	Weather	Overcast
I40	08 Jun 2021	Visibility (mi)	9
I40	08 Jun 2021	Wind Speed (kts)	5.7
I40	08 Jun 2021	Wind Dir	SW
I40	08 Jun 2021	Water Color	Greenish-Brown
I40	08 Jun 2021	Wave Ht Low (ft)	2
I40	08 Jun 2021	Wave Period (sec)	12
I40	08 Jun 2021	Sea State	Light Chop
I40	08 Jun 2021	High Tide (ft)	5.70894
I40	08 Jun 2021	High Tide Time	2024
I40	08 Jun 2021	Low Tide (ft)	-0.19686
I40	08 Jun 2021	Low Tide Time	300
I40	08 Jun 2021	Comments	none
I40	15 Jun 2021	Depth (m)	10.44
I40	15 Jun 2021	Arrive Time	1203
I40	15 Jun 2021	Depart Time	1209
I40	15 Jun 2021	Air Temp (C)	19.1
I40	15 Jun 2021	Weather	Partly Cloudy
I40	15 Jun 2021	Visibility (mi)	12
I40	15 Jun 2021	Wind Speed (kts)	3
I40	15 Jun 2021	Wind Dir	W
I40	15 Jun 2021	Water Color	Brownish-Green
I40	15 Jun 2021	Wave Ht Low (ft)	4
I40	15 Jun 2021	Wave Period (sec)	8
I40	15 Jun 2021	Sea State	Wind Ripples
I40	15 Jun 2021	High Tide (ft)	5.08555
I40	15 Jun 2021	High Tide Time	6
I40	15 Jun 2021	Low Tide (ft)	-0.06562
I40	15 Jun 2021	Low Tide Time	724
I40	15 Jun 2021	Comments	none
I40	22 Jun 2021	Depth (m)	10.3
I40	22 Jun 2021	Arrive Time	1135
I40	22 Jun 2021	Depart Time	1137
I40	22 Jun 2021	Air Temp (C)	18.4
I40	22 Jun 2021	Weather	Overcast
I40	22 Jun 2021	Visibility (mi)	6
I40	22 Jun 2021	Wind Speed (kts)	6.7
I40	22 Jun 2021	Wind Dir	W
I40	22 Jun 2021	Water Color	Green
I40	22 Jun 2021	Wave Ht Low (ft)	5
I40	22 Jun 2021	Wave Period (sec)	8

Station	Date	Parameter	Value
I40	22 Jun 2021	Sea State	choppy
I40	22 Jun 2021	High Tide (ft)	6.69324
I40	22 Jun 2021	High Tide Time	1936
I40	22 Jun 2021	Low Tide (ft)	-0.72182
I40	22 Jun 2021	Low Tide Time	212
I40	22 Jun 2021	Comments	none
I40	29 Jun 2021	Depth (m)	10.3
I40	29 Jun 2021	Arrive Time	1225
I40	29 Jun 2021	Depart Time	1231
I40	29 Jun 2021	Air Temp (C)	18
I40	29 Jun 2021	Weather	Overcast
I40	29 Jun 2021	Visibility (mi)	8
I40	29 Jun 2021	Wind Speed (kts)	12.7
I40	29 Jun 2021	Wind Dir	S
I40	29 Jun 2021	Water Color	Blue
I40	29 Jun 2021	Wave Ht Low (ft)	4
I40	29 Jun 2021	Wave Period (sec)	12
I40	29 Jun 2021	Sea State	Light Chop
I40	29 Jun 2021	High Tide (ft)	5.213509
I40	29 Jun 2021	High Tide Time	36
I40	29 Jun 2021	Low Tide (ft)	-0.183736
I40	29 Jun 2021	Low Tide Time	748
I40	29 Jun 2021	Comments	none

Table 3.10

Summary of CTD profile data from the SBOO kelp stations for each sample date.

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I19	01 Jun 2021	1	18.35	73.60	9.1	33.76	8.3	24.2	1.78
I19	01 Jun 2021	2	18.25	72.87	8.9	33.77	8.3	24.3	2.26
I19	01 Jun 2021	3	16.96	66.71	8.8	33.81	8.2	24.6	4.47
I19	01 Jun 2021	4	16.34	65.25	9.0	33.73	8.2	24.7	6.96
I19	01 Jun 2021	5	16.01	64.42	8.7	33.73	8.2	24.8	9.30
I19	01 Jun 2021	6	15.37	62.67	7.9	33.72	8.2	24.9	8.01
I19	01 Jun 2021	7	15.35	61.15	7.7	33.71	8.1	24.9	6.41
I19	01 Jun 2021	8	15.30	60.72	7.6	33.71	8.1	24.9	5.65
I19	01 Jun 2021	9	14.82	63.50	7.2	33.74	8.1	25.0	4.61
I19	01 Jun 2021	10	14.80	48.03	7.2	33.68	8.0	25.0	4.15
I19	08 Jun 2021	1	17.84	77.00	9.9	33.67	8.3	24.3	1.80
I19	08 Jun 2021	2	17.84	77.31	9.9	33.67	8.3	24.3	1.82
I19	08 Jun 2021	3	17.84	77.34	9.8	33.68	8.3	24.3	1.89
I19	08 Jun 2021	4	17.75	74.60	9.7	33.66	8.3	24.3	2.53
I19	08 Jun 2021	5	17.69	73.07	9.7	33.65	8.3	24.3	3.32
I19	08 Jun 2021	6	17.64	72.88	9.6	33.64	8.3	24.3	3.47
I19	08 Jun 2021	7	17.60	71.66	9.5	33.63	8.3	24.3	3.41
I19	08 Jun 2021	8	17.59	67.79	9.4	33.62	8.3	24.3	3.26
I19	08 Jun 2021	9	17.58	67.46	9.4	33.62	8.3	24.3	3.21
I19	08 Jun 2021	10	17.58	66.05	9.4	33.62	8.2	24.3	3.14
I19	15 Jun 2021	1	18.10	58.50	9.0	33.67	8.2	24.2	1.59
I19	15 Jun 2021	2	17.68	62.82	8.4	33.69	8.2	24.3	1.87
I19	15 Jun 2021	3	16.48	54.21	8.1	33.72	8.2	24.7	2.87
I19	15 Jun 2021	4	16.01	50.18	8.1	33.65	8.1	24.7	3.91
I19	15 Jun 2021	5	15.05	49.44	6.8	33.76	8.1	25.0	6.90
I19	15 Jun 2021	6	13.82	37.43	5.7	33.67	8.0	25.2	10.52
I19	15 Jun 2021	7	13.45	42.81	5.3	33.65	7.9	25.3	12.02
I19	15 Jun 2021	8	13.38	45.56	5.2	33.62	7.9	25.3	11.84
I19	15 Jun 2021	9	13.20	44.61	5.2	33.63	7.8	25.3	9.93
I19	15 Jun 2021	10	13.12	46.42	5.2	33.62	7.8	25.3	8.39
I19	22 Jun 2021	1	18.74	68.69	8.6	33.65	8.3	24.1	1.38
I19	22 Jun 2021	2	18.73	68.38	8.6	33.65	8.3	24.1	1.51
I19	22 Jun 2021	3	18.70	67.67	8.6	33.65	8.3	24.1	1.68
I19	22 Jun 2021	4	18.31	61.00	8.4	33.67	8.2	24.2	2.57
I19	22 Jun 2021	5	17.18	53.92	8.1	33.65	8.2	24.4	5.34
I19	22 Jun 2021	6	17.14	53.38	7.7	33.64	8.2	24.4	6.28
I19	22 Jun 2021	7	16.38	50.43	7.1	33.62	8.1	24.6	7.24
I19	22 Jun 2021	8	16.26	50.83	7.0	33.62	8.1	24.6	7.05
I19	22 Jun 2021	9	16.08	53.40	7.0	33.61	8.1	24.7	6.43
I19	22 Jun 2021	10	15.97	54.02	7.0	33.61	8.1	24.7	6.01
I19	29 Jun 2021	1	18.94	76.06	8.4	33.63	8.2	24.0	1.40
I19	29 Jun 2021	2	18.94	76.12	8.4	33.63	8.2	24.0	1.45
I19	29 Jun 2021	3	18.93	76.06	8.4	33.63	8.2	24.0	1.61
I19	29 Jun 2021	4	18.94	76.16	8.4	33.62	8.2	24.0	1.84
I19	29 Jun 2021	5	18.90	75.75	8.3	33.63	8.2	24.0	2.17
I19	29 Jun 2021	6	18.83	75.22	8.2	33.63	8.2	24.0	2.63
I19	29 Jun 2021	7	18.80	74.24	8.2	33.62	8.2	24.0	3.04
I19	29 Jun 2021	8	18.70	73.05	7.9	33.63	8.2	24.1	3.66
I19	29 Jun 2021	9	18.13	69.01	7.4	33.67	8.2	24.2	4.87
I19	29 Jun 2021	10	17.01	60.39	7.4	33.68	8.1	24.5	6.91
I24	01 Jun 2021	1	18.62	75.94	9.4	33.76	8.3	24.2	1.06

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I24	01 Jun 2021	2	18.60	76.05	9.4	33.76	8.3	24.2	1.11
I24	01 Jun 2021	3	18.52	75.56	9.4	33.76	8.3	24.2	1.31
I24	01 Jun 2021	4	18.45	75.09	9.4	33.76	8.3	24.2	1.55
I24	01 Jun 2021	5	18.04	74.77	9.0	33.79	8.3	24.3	1.88
I24	01 Jun 2021	6	16.95	75.25	8.2	33.80	8.2	24.6	2.23
I24	01 Jun 2021	7	15.71	75.85	7.8	33.78	8.2	24.9	2.50
I24	01 Jun 2021	8	13.67	73.61	6.4	33.80	8.0	25.3	2.75
I24	01 Jun 2021	9	14.22	71.39	6.8	33.57	7.9	25.0	2.30
I24	08 Jun 2021	1	17.94	79.36	10.4	33.70	8.3	24.3	1.27
I24	08 Jun 2021	2	17.92	79.07	10.5	33.70	8.3	24.3	1.42
I24	08 Jun 2021	3	17.81	77.88	10.4	33.69	8.3	24.3	1.90
I24	08 Jun 2021	4	17.63	73.50	10.3	33.65	8.3	24.3	3.09
I24	08 Jun 2021	5	17.51	68.14	10.1	33.61	8.3	24.3	4.33
I24	08 Jun 2021	6	17.48	67.83	10.1	33.60	8.3	24.3	4.73
I24	08 Jun 2021	7	17.46	69.58	10.2	33.60	8.3	24.3	4.77
I24	08 Jun 2021	8	17.46	71.35	10.6	33.64	8.3	24.4	4.42
I24	08 Jun 2021	9	17.44	72.68	10.7	33.66	8.3	24.4	3.89
I24	08 Jun 2021	10	17.44	70.70	10.7	33.65	8.3	24.4	3.59
I24	08 Jun 2021	11	17.47	70.85	10.6	33.64	8.3	24.4	3.74
I24	15 Jun 2021	1	19.15	68.25	9.9	33.68	8.3	24.0	1.25
I24	15 Jun 2021	2	18.51	68.23	9.7	33.74	8.3	24.2	1.37
I24	15 Jun 2021	3	16.99	66.50	9.7	33.70	8.2	24.5	1.98
I24	15 Jun 2021	4	17.03	61.85	9.1	33.67	8.2	24.5	2.72
I24	15 Jun 2021	5	15.77	57.14	7.7	33.75	8.2	24.8	4.11
I24	15 Jun 2021	6	14.35	59.33	7.1	33.66	8.1	25.1	6.19
I24	15 Jun 2021	7	13.93	60.68	6.7	33.65	8.0	25.2	6.82
I24	15 Jun 2021	8	13.51	64.10	6.2	33.63	8.0	25.2	4.55
I24	15 Jun 2021	9	13.10	51.78	5.9	33.62	7.9	25.3	2.91
I24	15 Jun 2021	10	13.19	36.53	6.1	33.56	7.9	25.2	2.64
I24	22 Jun 2021	1	19.19	69.12	8.1	33.66	8.2	23.9	1.53
I24	22 Jun 2021	2	19.20	69.55	8.1	33.66	8.2	23.9	1.57
I24	22 Jun 2021	3	19.12	69.24	8.0	33.67	8.2	24.0	1.84
I24	22 Jun 2021	4	19.02	68.20	7.9	33.67	8.2	24.0	2.05
I24	22 Jun 2021	5	18.14	67.22	7.4	33.67	8.2	24.2	2.13
I24	22 Jun 2021	6	17.57	65.13	7.1	33.65	8.2	24.3	1.98
I24	22 Jun 2021	7	17.30	64.60	7.1	33.64	8.2	24.4	2.13
I24	22 Jun 2021	8	17.13	65.94	7.0	33.62	8.1	24.4	2.10
I24	22 Jun 2021	9	17.05	67.33	6.9	33.64	8.1	24.5	2.09
I24	22 Jun 2021	10	16.42	65.75	6.8	33.63	8.1	24.6	1.89
I24	29 Jun 2021	1	18.98	74.91	8.5	33.62	8.2	24.0	1.21
I24	29 Jun 2021	2	18.97	75.95	8.5	33.63	8.2	24.0	1.26
I24	29 Jun 2021	3	18.93	75.35	8.4	33.63	8.2	24.0	1.41
I24	29 Jun 2021	4	18.94	75.54	8.5	33.63	8.2	24.0	1.56
I24	29 Jun 2021	5	18.92	75.22	8.4	33.63	8.2	24.0	1.78
I24	29 Jun 2021	6	18.90	74.71	8.4	33.63	8.2	24.0	2.03
I24	29 Jun 2021	7	18.81	72.78	8.3	33.64	8.2	24.0	2.36
I24	29 Jun 2021	8	18.35	69.24	8.0	33.66	8.2	24.2	3.23
I24	29 Jun 2021	9	17.99	68.75	7.5	33.63	8.2	24.2	4.03
I24	29 Jun 2021	10	16.44	62.17	6.8	33.78	8.1	24.7	4.62
I24	29 Jun 2021	11	15.39	54.55	6.5	33.64	8.0	24.8	5.14
I25	01 Jun 2021	1	18.64	75.99	9.5	33.76	8.3	24.2	1.17
I25	01 Jun 2021	2	18.64	76.06	9.5	33.76	8.3	24.2	1.21
I25	01 Jun 2021	3	18.63	76.08	9.5	33.76	8.3	24.2	1.37
I25	01 Jun 2021	4	18.59	75.98	9.4	33.76	8.3	24.2	1.50
I25	01 Jun 2021	5	17.74	75.16	9.1	33.79	8.3	24.4	1.93
I25	01 Jun 2021	6	17.25	74.24	8.6	33.79	8.2	24.5	2.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I25	01 Jun 2021	7	15.13	77.33	7.8	33.74	8.1	25.0	2.03
I25	01 Jun 2021	8	14.42	76.99	7.3	33.72	8.1	25.1	2.03
I25	01 Jun 2021	9	13.88	76.24	7.0	33.68	8.0	25.2	2.11
I25	08 Jun 2021	1	18.00	77.55	10.5	33.70	8.3	24.3	1.19
I25	08 Jun 2021	2	18.00	78.02	10.6	33.70	8.3	24.3	1.18
I25	08 Jun 2021	3	17.97	78.75	10.6	33.70	8.3	24.3	1.34
I25	08 Jun 2021	4	17.88	78.65	10.6	33.70	8.3	24.3	1.71
I25	08 Jun 2021	5	17.77	75.23	10.7	33.68	8.3	24.3	2.39
I25	08 Jun 2021	6	17.61	73.17	10.7	33.67	8.3	24.4	3.13
I25	08 Jun 2021	7	17.53	73.04	10.8	33.66	8.3	24.4	3.51
I25	08 Jun 2021	8	17.51	73.16	10.7	33.66	8.3	24.4	3.64
I25	08 Jun 2021	9	17.50	73.44	10.8	33.65	8.3	24.4	3.58
I25	15 Jun 2021	1	19.52	67.07	9.9	33.69	8.3	23.9	1.30
I25	15 Jun 2021	2	19.39	67.19	9.9	33.70	8.3	23.9	1.36
I25	15 Jun 2021	3	18.77	67.31	9.9	33.73	8.3	24.1	1.46
I25	15 Jun 2021	4	17.58	67.55	9.6	33.76	8.3	24.4	1.77
I25	15 Jun 2021	5	16.12	60.18	8.4	33.73	8.2	24.7	3.60
I25	15 Jun 2021	6	14.87	51.19	7.4	33.74	8.2	25.0	6.98
I25	15 Jun 2021	7	13.89	51.67	7.1	33.66	8.1	25.2	9.24
I25	15 Jun 2021	8	13.69	64.54	6.9	33.62	8.0	25.2	8.68
I25	15 Jun 2021	9	13.30	68.27	6.8	33.59	8.0	25.2	5.98
I25	22 Jun 2021	1	19.62	73.45	8.5	33.67	8.3	23.8	1.54
I25	22 Jun 2021	2	19.59	73.34	8.5	33.68	8.3	23.9	1.65
I25	22 Jun 2021	3	19.53	73.15	8.6	33.67	8.3	23.9	1.87
I25	22 Jun 2021	4	19.46	72.73	8.6	33.67	8.3	23.9	2.05
I25	22 Jun 2021	5	19.39	72.27	8.6	33.67	8.3	23.9	2.22
I25	22 Jun 2021	6	19.05	70.98	8.5	33.69	8.3	24.0	2.61
I25	22 Jun 2021	7	18.47	67.62	8.2	33.67	8.2	24.1	3.39
I25	22 Jun 2021	8	17.13	68.66	7.8	33.71	8.2	24.5	3.68
I25	22 Jun 2021	9	17.05	71.03	7.8	33.58	8.2	24.4	2.87
I25	29 Jun 2021	1	18.97	75.98	8.5	33.63	8.2	24.0	1.23
I25	29 Jun 2021	2	18.94	75.76	8.5	33.63	8.2	24.0	1.32
I25	29 Jun 2021	3	18.95	75.81	8.5	33.62	8.2	24.0	1.42
I25	29 Jun 2021	4	18.94	75.72	8.5	33.63	8.2	24.0	1.60
I25	29 Jun 2021	5	18.85	74.99	8.5	33.63	8.2	24.0	1.95
I25	29 Jun 2021	6	18.70	73.23	8.4	33.64	8.2	24.1	2.42
I25	29 Jun 2021	7	18.54	71.40	8.2	33.64	8.2	24.1	2.91
I25	29 Jun 2021	8	18.38	70.42	7.9	33.64	8.2	24.1	2.97
I25	29 Jun 2021	9	18.25	69.82	7.8	33.63	8.2	24.2	2.94
I26	01 Jun 2021	1	18.63	75.84	9.5	33.75	8.3	24.2	1.15
I26	01 Jun 2021	2	18.63	76.05	9.6	33.76	8.3	24.2	1.17
I26	01 Jun 2021	3	18.63	75.95	9.6	33.76	8.3	24.2	1.20
I26	01 Jun 2021	4	18.53	75.39	9.5	33.76	8.3	24.2	1.42
I26	01 Jun 2021	5	17.87	74.58	9.2	33.79	8.3	24.4	1.83
I26	01 Jun 2021	6	17.49	73.93	8.9	33.77	8.3	24.5	2.10
I26	01 Jun 2021	7	15.70	72.66	7.8	33.81	8.2	24.9	2.28
I26	01 Jun 2021	8	13.75	74.52	6.8	33.78	8.1	25.3	2.57
I26	01 Jun 2021	9	13.19	77.01	6.7	33.66	8.0	25.3	2.58
I26	08 Jun 2021	1	17.74	72.25	10.2	33.63	8.3	24.3	1.67
I26	08 Jun 2021	2	17.74	71.49	10.3	33.63	8.3	24.3	1.77
I26	08 Jun 2021	3	17.72	70.39	10.3	33.64	8.3	24.3	2.03
I26	08 Jun 2021	4	17.70	71.91	10.4	33.64	8.3	24.3	2.72
I26	08 Jun 2021	5	17.69	71.80	10.3	33.63	8.3	24.3	3.49
I26	08 Jun 2021	6	17.67	71.52	10.2	33.63	8.3	24.3	3.75
I26	08 Jun 2021	7	17.66	71.82	10.1	33.63	8.3	24.3	3.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I26	08 Jun 2021	8	17.66	71.96	10.1	33.63	8.3	24.3	3.56
I26	08 Jun 2021	9	17.65	71.92	9.9	33.62	8.3	24.3	3.24
I26	15 Jun 2021	1	18.82	66.70	9.8	33.69	8.3	24.1	1.39
I26	15 Jun 2021	2	18.24	66.52	9.7	33.71	8.3	24.2	1.51
I26	15 Jun 2021	3	17.38	65.71	9.6	33.72	8.3	24.4	1.94
I26	15 Jun 2021	4	16.10	63.34	9.5	33.71	8.3	24.7	2.85
I26	15 Jun 2021	5	15.12	61.20	8.5	33.73	8.2	25.0	4.20
I26	15 Jun 2021	6	13.57	60.32	7.3	33.67	8.1	25.2	6.04
I26	15 Jun 2021	7	13.00	65.16	6.6	33.60	8.0	25.3	6.18
I26	15 Jun 2021	8	12.97	71.94	6.5	33.57	8.0	25.3	4.57
I26	15 Jun 2021	9	12.96	71.58	6.7	33.57	7.9	25.3	3.70
I26	22 Jun 2021	1	19.59	71.89	8.3	33.67	8.3	23.9	1.71
I26	22 Jun 2021	2	19.58	72.33	8.3	33.68	8.3	23.9	1.81
I26	22 Jun 2021	3	19.44	71.89	8.3	33.68	8.3	23.9	2.07
I26	22 Jun 2021	4	19.26	70.97	8.4	33.67	8.3	23.9	2.37
I26	22 Jun 2021	5	18.66	69.29	8.2	33.69	8.3	24.1	2.87
I26	22 Jun 2021	6	17.33	67.82	7.7	33.67	8.2	24.4	3.23
I26	22 Jun 2021	7	16.94	67.25	7.5	33.63	8.2	24.5	2.86
I26	22 Jun 2021	8	16.76	64.77	7.6	33.61	8.2	24.5	2.53
I26	22 Jun 2021	9	16.74	63.50	7.6	33.62	8.2	24.5	2.53
I26	29 Jun 2021	1	18.97	76.27	8.4	33.63	8.2	24.0	1.07
I26	29 Jun 2021	2	18.96	76.45	8.4	33.63	8.2	24.0	1.13
I26	29 Jun 2021	3	18.96	76.43	8.4	33.63	8.2	24.0	1.19
I26	29 Jun 2021	4	18.95	76.53	8.5	33.63	8.2	24.0	1.30
I26	29 Jun 2021	5	18.92	76.28	8.5	33.63	8.2	24.0	1.49
I26	29 Jun 2021	6	18.89	76.15	8.5	33.63	8.2	24.0	1.66
I26	29 Jun 2021	7	18.80	75.22	8.4	33.64	8.2	24.0	1.92
I26	29 Jun 2021	8	18.74	74.12	8.2	33.63	8.2	24.0	2.28
I26	29 Jun 2021	9	18.52	72.07	7.9	33.65	8.2	24.1	2.50
I32	01 Jun 2021	1	18.39	74.73	8.8	33.76	8.3	24.2	1.09
I32	01 Jun 2021	2	18.28	74.28	8.8	33.76	8.3	24.3	1.18
I32	01 Jun 2021	3	18.20	73.93	8.7	33.76	8.2	24.3	1.38
I32	01 Jun 2021	4	18.13	73.60	8.7	33.76	8.2	24.3	1.58
I32	01 Jun 2021	5	18.06	73.14	8.5	33.76	8.2	24.3	1.71
I32	01 Jun 2021	6	16.62	69.25	7.8	33.88	8.2	24.7	2.35
I32	01 Jun 2021	7	14.52	63.77	7.1	33.84	8.1	25.2	4.10
I32	01 Jun 2021	8	13.01	60.54	6.5	33.69	8.0	25.4	9.40
I32	01 Jun 2021	9	12.85	59.93	6.4	33.67	8.0	25.4	13.29
I32	01 Jun 2021	10	13.30	60.69	6.6	33.62	8.0	25.3	11.90
I32	08 Jun 2021	1	18.36	75.37	11.2	33.71	8.4	24.2	1.60
I32	08 Jun 2021	2	18.29	75.02	11.3	33.72	8.4	24.2	1.74
I32	08 Jun 2021	3	18.10	71.49	11.2	33.73	8.4	24.3	2.32
I32	08 Jun 2021	4	17.98	68.36	11.3	33.70	8.4	24.3	4.18
I32	08 Jun 2021	5	17.98	69.72	11.4	33.70	8.4	24.3	5.26
I32	08 Jun 2021	6	17.90	71.83	11.2	33.70	8.4	24.3	5.65
I32	08 Jun 2021	7	17.91	73.12	11.1	33.69	8.4	24.3	5.21
I32	08 Jun 2021	8	17.89	73.60	11.0	33.69	8.4	24.3	4.89
I32	08 Jun 2021	9	17.88	74.58	11.0	33.69	8.4	24.3	4.35
I32	08 Jun 2021	10	17.85	73.61	10.8	33.69	8.4	24.3	3.99
I32	15 Jun 2021	1	18.76	65.97	9.1	33.67	8.2	24.1	1.08
I32	15 Jun 2021	2	18.31	64.50	8.8	33.73	8.2	24.2	1.23
I32	15 Jun 2021	3	16.76	61.40	8.9	33.74	8.2	24.6	2.01
I32	15 Jun 2021	4	15.96	55.12	8.2	33.74	8.2	24.8	3.02
I32	15 Jun 2021	5	14.48	56.77	7.3	33.75	8.1	25.1	4.13
I32	15 Jun 2021	6	13.66	51.80	6.3	33.66	8.0	25.2	5.11

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I32	15 Jun 2021	7	13.56	53.24	6.1	33.62	8.0	25.2	6.37
I32	15 Jun 2021	8	13.46	53.30	6.0	33.62	7.9	25.2	6.87
I32	15 Jun 2021	9	13.38	50.61	5.9	33.62	7.9	25.2	6.06
I32	15 Jun 2021	10	13.34	45.15	5.8	33.62	7.9	25.3	5.31
I32	22 Jun 2021	1	19.56	66.82	7.9	33.68	8.2	23.9	2.10
I32	22 Jun 2021	2	19.55	66.49	7.9	33.68	8.2	23.9	2.26
I32	22 Jun 2021	3	19.46	65.34	7.8	33.68	8.2	23.9	2.58
I32	22 Jun 2021	4	18.76	59.79	7.9	33.68	8.2	24.1	3.51
I32	22 Jun 2021	5	17.75	62.05	8.0	33.70	8.2	24.3	4.71
I32	22 Jun 2021	6	17.08	56.82	8.1	33.62	8.2	24.4	6.02
I32	22 Jun 2021	7	16.87	56.19	7.8	33.62	8.2	24.5	6.30
I32	22 Jun 2021	8	16.62	58.42	7.8	33.62	8.2	24.5	5.98
I32	22 Jun 2021	9	16.69	56.11	7.8	33.62	8.2	24.5	5.66
I32	22 Jun 2021	10	16.57	55.30	7.7	33.61	8.2	24.6	5.08
I32	29 Jun 2021	1	19.00	73.00	7.8	33.63	8.2	24.0	1.34
I32	29 Jun 2021	2	18.99	73.05	7.8	33.63	8.2	24.0	1.32
I32	29 Jun 2021	3	18.99	72.95	7.3	33.63	8.2	24.0	1.29
I32	29 Jun 2021	4	18.97	72.99	7.3	33.64	8.2	24.0	1.32
I32	29 Jun 2021	5	18.96	73.12	7.3	33.64	8.2	24.0	1.32
I32	29 Jun 2021	6	18.95	73.25	7.8	33.63	8.2	24.0	1.29
I32	29 Jun 2021	7	18.94	73.11	8.0	33.63	8.2	24.0	1.30
I32	29 Jun 2021	8	18.92	73.62	8.1	33.64	8.2	24.0	1.46
I32	29 Jun 2021	9	18.90	73.71	8.3	33.63	8.2	24.0	1.52
I32	29 Jun 2021	10	18.87	73.27	8.3	33.63	8.2	24.0	1.93
I39	01 Jun 2021	1	18.48	75.78	9.9	33.70	8.3	24.2	1.83
I39	01 Jun 2021	2	18.38	75.17	9.8	33.71	8.3	24.2	2.14
I39	01 Jun 2021	3	18.18	74.30	9.7	33.73	8.3	24.3	2.70
I39	01 Jun 2021	4	18.07	73.96	9.6	33.73	8.3	24.3	3.18
I39	01 Jun 2021	5	17.93	73.62	9.7	33.74	8.3	24.3	3.90
I39	01 Jun 2021	6	17.90	73.31	9.8	33.74	8.3	24.3	4.36
I39	01 Jun 2021	7	17.74	72.46	10.0	33.74	8.3	24.4	5.46
I39	01 Jun 2021	8	17.73	72.02	10.1	33.74	8.3	24.4	6.05
I39	01 Jun 2021	9	17.68	71.60	10.2	33.74	8.3	24.4	6.73
I39	01 Jun 2021	10	17.66	70.92	10.2	33.74	8.3	24.4	7.25
I39	01 Jun 2021	11	17.60	70.59	10.3	33.74	8.3	24.4	7.62
I39	01 Jun 2021	12	17.40	69.91	10.4	33.74	8.3	24.5	8.10
I39	01 Jun 2021	13	17.27	69.74	10.5	33.74	8.3	24.5	8.31
I39	01 Jun 2021	14	16.77	69.27	10.5	33.77	8.3	24.6	8.53
I39	01 Jun 2021	15	16.14	68.27	10.6	33.70	8.3	24.7	9.01
I39	01 Jun 2021	16	14.83	69.86	8.7	33.83	8.2	25.1	8.43
I39	01 Jun 2021	17	12.67	78.70	6.5	33.75	8.0	25.5	5.67
I39	01 Jun 2021	18	12.65	79.80	6.4	33.63	8.0	25.4	4.27
I39	08 Jun 2021	1	18.07	79.88	10.4	33.71	8.3	24.3	1.38
I39	08 Jun 2021	2	18.01	79.58	10.5	33.71	8.3	24.3	1.73
I39	08 Jun 2021	3	17.88	78.78	10.6	33.71	8.3	24.3	2.18
I39	08 Jun 2021	4	17.79	78.07	10.7	33.70	8.3	24.3	2.65
I39	08 Jun 2021	5	17.71	77.14	10.9	33.69	8.3	24.3	3.29
I39	08 Jun 2021	6	17.51	75.81	11.2	33.70	8.3	24.4	4.66
I39	08 Jun 2021	7	17.33	72.58	11.3	33.67	8.3	24.4	6.16
I39	08 Jun 2021	8	17.29	71.01	11.4	33.67	8.3	24.4	6.97
I39	08 Jun 2021	9	17.26	70.64	11.4	33.66	8.3	24.4	7.34
I39	08 Jun 2021	10	17.24	71.36	11.5	33.66	8.3	24.4	7.31
I39	08 Jun 2021	11	17.23	72.14	11.5	33.66	8.3	24.4	7.08
I39	08 Jun 2021	12	17.22	72.71	11.5	33.66	8.3	24.4	6.61
I39	08 Jun 2021	13	17.21	73.38	11.5	33.66	8.3	24.4	6.39
I39	08 Jun 2021	14	17.17	72.90	11.4	33.67	8.3	24.5	6.65
I39	08 Jun 2021	15	17.08	71.93	11.2	33.67	8.3	24.5	6.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	08 Jun 2021	16	16.81	72.16	10.9	33.69	8.3	24.6	6.15
I39	08 Jun 2021	17	16.43	70.56	10.5	33.68	8.3	24.6	6.74
I39	08 Jun 2021	18	15.75	70.23	9.9	33.69	8.2	24.8	6.99
I39	15 Jun 2021	1	19.06	71.53	9.6	33.69	8.3	24.0	1.20
I39	15 Jun 2021	2	18.83	71.40	9.7	33.71	8.3	24.1	1.35
I39	15 Jun 2021	3	18.49	70.58	9.8	33.69	8.3	24.1	1.60
I39	15 Jun 2021	4	18.30	70.27	9.9	33.70	8.3	24.2	1.81
I39	15 Jun 2021	5	18.26	69.83	9.9	33.68	8.3	24.2	1.95
I39	15 Jun 2021	6	18.14	69.71	9.9	33.69	8.3	24.2	2.06
I39	15 Jun 2021	7	17.83	70.18	9.9	33.70	8.3	24.3	2.17
I39	15 Jun 2021	8	17.47	70.73	10.0	33.70	8.3	24.4	2.31
I39	15 Jun 2021	9	16.90	71.23	10.1	33.70	8.3	24.5	2.56
I39	15 Jun 2021	10	16.54	71.09	9.9	33.66	8.2	24.6	2.93
I39	15 Jun 2021	11	15.51	68.77	9.2	33.74	8.2	24.9	4.08
I39	15 Jun 2021	12	14.25	64.61	8.5	33.65	8.2	25.1	6.22
I39	15 Jun 2021	13	13.64	68.09	7.8	33.60	8.1	25.2	7.21
I39	15 Jun 2021	14	13.15	73.29	7.0	33.62	8.0	25.3	7.00
I39	15 Jun 2021	15	12.64	77.71	6.3	33.62	8.0	25.4	6.21
I39	15 Jun 2021	16	12.40	79.88	5.9	33.61	7.9	25.4	2.94
I39	15 Jun 2021	17	12.34	79.19	5.6	33.61	7.9	25.4	0.00
I39	15 Jun 2021	18	12.32	79.18	2.8	33.61	7.9	25.4	0.00
I39	22 Jun 2021	1	19.89	74.20	8.8	33.68	8.3	23.8	1.21
I39	22 Jun 2021	2	19.89	74.15	8.8	33.68	8.3	23.8	1.22
I39	22 Jun 2021	3	19.85	74.00	8.8	33.68	8.3	23.8	1.35
I39	22 Jun 2021	4	19.77	73.85	8.8	33.69	8.3	23.8	1.50
I39	22 Jun 2021	5	19.03	72.53	9.1	33.70	8.3	24.0	2.22
I39	22 Jun 2021	6	18.86	70.27	9.1	33.66	8.3	24.0	2.81
I39	22 Jun 2021	7	18.17	69.82	9.2	33.66	8.3	24.2	3.62
I39	22 Jun 2021	8	17.82	69.29	9.5	33.64	8.3	24.3	4.39
I39	22 Jun 2021	9	17.70	68.91	9.5	33.63	8.3	24.3	5.01
I39	22 Jun 2021	10	17.29	68.52	9.3	33.63	8.3	24.4	5.70
I39	22 Jun 2021	11	17.27	68.82	9.3	33.62	8.3	24.4	5.95
I39	22 Jun 2021	12	17.20	69.25	9.2	33.62	8.3	24.4	6.04
I39	22 Jun 2021	13	17.17	69.68	9.2	33.62	8.2	24.4	5.99
I39	22 Jun 2021	14	17.14	69.96	9.1	33.62	8.2	24.4	5.92
I39	22 Jun 2021	15	17.06	70.02	8.9	33.62	8.2	24.4	5.83
I39	22 Jun 2021	16	16.35	70.54	8.6	33.63	8.2	24.6	5.72
I39	22 Jun 2021	17	16.12	72.85	8.0	33.63	8.2	24.7	5.13
I39	22 Jun 2021	18	15.33	72.85	7.6	33.60	8.1	24.8	4.41
I39	29 Jun 2021	1	19.51	79.94	8.1	33.55	8.2	23.8	0.79
I39	29 Jun 2021	2	19.51	81.20	8.1	33.59	8.2	23.8	0.80
I39	29 Jun 2021	3	19.51	81.16	8.1	33.59	8.2	23.8	0.84
I39	29 Jun 2021	4	19.51	81.54	8.1	33.59	8.2	23.8	0.92
I39	29 Jun 2021	5	19.50	81.57	8.1	33.59	8.2	23.8	1.00
I39	29 Jun 2021	6	19.47	81.44	8.2	33.59	8.2	23.8	1.13
I39	29 Jun 2021	7	19.45	81.28	8.2	33.59	8.2	23.8	1.20
I39	29 Jun 2021	8	19.41	81.08	8.1	33.60	8.2	23.8	1.26
I39	29 Jun 2021	9	19.37	80.85	8.2	33.60	8.2	23.9	1.31
I39	29 Jun 2021	10	19.31	80.72	8.3	33.60	8.2	23.9	1.36
I39	29 Jun 2021	11	19.24	80.11	8.4	33.61	8.2	23.9	1.47
I39	29 Jun 2021	12	19.12	79.69	8.5	33.62	8.2	23.9	1.66
I39	29 Jun 2021	13	18.90	78.71	8.6	33.63	8.2	24.0	1.96
I39	29 Jun 2021	14	18.54	76.64	8.7	33.64	8.2	24.1	2.78
I39	29 Jun 2021	15	18.37	75.18	8.5	33.62	8.2	24.1	3.36
I39	29 Jun 2021	16	18.07	74.87	7.9	33.64	8.2	24.2	4.02
I39	29 Jun 2021	17	16.14	71.93	7.5	33.77	8.2	24.8	4.86
I39	29 Jun 2021	18	15.31	70.94	7.5	33.63	8.1	24.9	5.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I40	01 Jun 2021	1	18.19	72.53	8.5	33.76	8.2	24.3	1.71
I40	01 Jun 2021	2	18.06	72.20	8.6	33.76	8.2	24.3	2.02
I40	01 Jun 2021	3	17.88	71.61	8.6	33.77	8.2	24.4	2.64
I40	01 Jun 2021	4	17.37	67.36	8.4	33.75	8.2	24.5	3.84
I40	01 Jun 2021	5	17.11	66.45	8.4	33.77	8.2	24.5	4.37
I40	01 Jun 2021	6	15.98	70.45	8.6	33.76	8.2	24.8	4.71
I40	01 Jun 2021	7	15.82	73.94	8.4	33.71	8.2	24.8	4.64
I40	01 Jun 2021	8	14.31	70.82	7.0	33.82	8.1	25.2	4.69
I40	01 Jun 2021	9	13.33	51.71	6.0	33.71	8.0	25.3	4.33
I40	01 Jun 2021	10	13.88	34.48	6.6	33.63	7.9	25.2	4.40
I40	08 Jun 2021	1	17.89	76.69	10.3	33.68	8.3	24.3	1.92
I40	08 Jun 2021	2	17.89	76.84	10.3	33.68	8.3	24.3	2.03
I40	08 Jun 2021	3	17.88	76.85	10.3	33.68	8.3	24.3	2.35
I40	08 Jun 2021	4	17.86	76.33	10.3	33.68	8.3	24.3	3.06
I40	08 Jun 2021	5	17.85	75.73	10.3	33.68	8.3	24.3	3.36
I40	08 Jun 2021	6	17.81	75.42	10.2	33.68	8.3	24.3	3.64
I40	08 Jun 2021	7	17.67	75.01	10.1	33.65	8.3	24.3	3.84
I40	08 Jun 2021	8	17.68	71.49	10.0	33.63	8.3	24.3	4.03
I40	08 Jun 2021	9	17.59	69.31	9.9	33.63	8.3	24.3	3.98
I40	08 Jun 2021	10	17.48	65.19	10.0	33.62	8.3	24.3	4.38
I40	15 Jun 2021	1	17.14	60.91	8.3	33.68	8.2	24.5	1.66
I40	15 Jun 2021	2	16.92	57.96	8.2	33.68	8.2	24.5	1.95
I40	15 Jun 2021	3	16.61	54.95	7.7	33.70	8.1	24.6	2.59
I40	15 Jun 2021	4	14.69	51.14	6.9	33.74	8.1	25.1	3.63
I40	15 Jun 2021	5	14.26	56.40	6.5	33.64	8.0	25.1	4.23
I40	15 Jun 2021	6	13.88	62.25	6.2	33.66	8.0	25.2	4.03
I40	15 Jun 2021	7	13.34	66.22	5.9	33.65	7.9	25.3	3.66
I40	15 Jun 2021	8	13.35	67.12	5.9	33.60	7.9	25.2	3.40
I40	15 Jun 2021	9	13.07	64.76	5.7	33.63	7.9	25.3	3.45
I40	15 Jun 2021	10	13.01	40.49	5.5	33.62	7.9	25.3	3.79
I40	22 Jun 2021	1	19.45	64.27	7.7	33.67	8.2	23.9	1.85
I40	22 Jun 2021	2	19.49	64.92	7.6	33.67	8.2	23.9	1.95
I40	22 Jun 2021	3	19.37	64.26	7.5	33.69	8.2	23.9	2.42
I40	22 Jun 2021	4	18.04	55.58	7.8	33.70	8.2	24.3	4.35
I40	22 Jun 2021	5	17.73	54.00	8.0	33.65	8.2	24.3	5.71
I40	22 Jun 2021	6	17.51	60.31	8.4	33.63	8.2	24.3	6.32
I40	22 Jun 2021	7	17.33	57.78	7.9	33.63	8.2	24.4	6.94
I40	22 Jun 2021	8	17.18	51.20	7.3	33.63	8.2	24.4	6.98
I40	22 Jun 2021	9	16.79	36.51	6.7	33.63	8.1	24.5	5.92
I40	22 Jun 2021	10	16.87	14.25	6.8	33.62	8.1	24.5	5.63
I40	29 Jun 2021	1	18.95	73.95	8.4	33.63	8.2	24.0	1.40
I40	29 Jun 2021	2	18.94	75.81	8.4	33.63	8.2	24.0	1.49
I40	29 Jun 2021	3	18.94	75.79	8.4	33.63	8.2	24.0	1.65
I40	29 Jun 2021	4	18.93	75.62	8.4	33.63	8.2	24.0	1.87
I40	29 Jun 2021	5	18.93	75.31	8.4	33.63	8.2	24.0	2.09
I40	29 Jun 2021	6	18.91	75.09	8.3	33.63	8.2	24.0	2.35
I40	29 Jun 2021	7	18.87	71.76	8.3	33.63	8.2	24.0	3.01
I40	29 Jun 2021	8	18.65	57.45	7.7	33.65	8.2	24.1	4.89
I40	29 Jun 2021	9	17.03	56.84	7.1	33.77	8.1	24.6	7.14
I40	29 Jun 2021	10	15.85	62.43	7.2	33.62	8.1	24.7	7.49

NA = not available

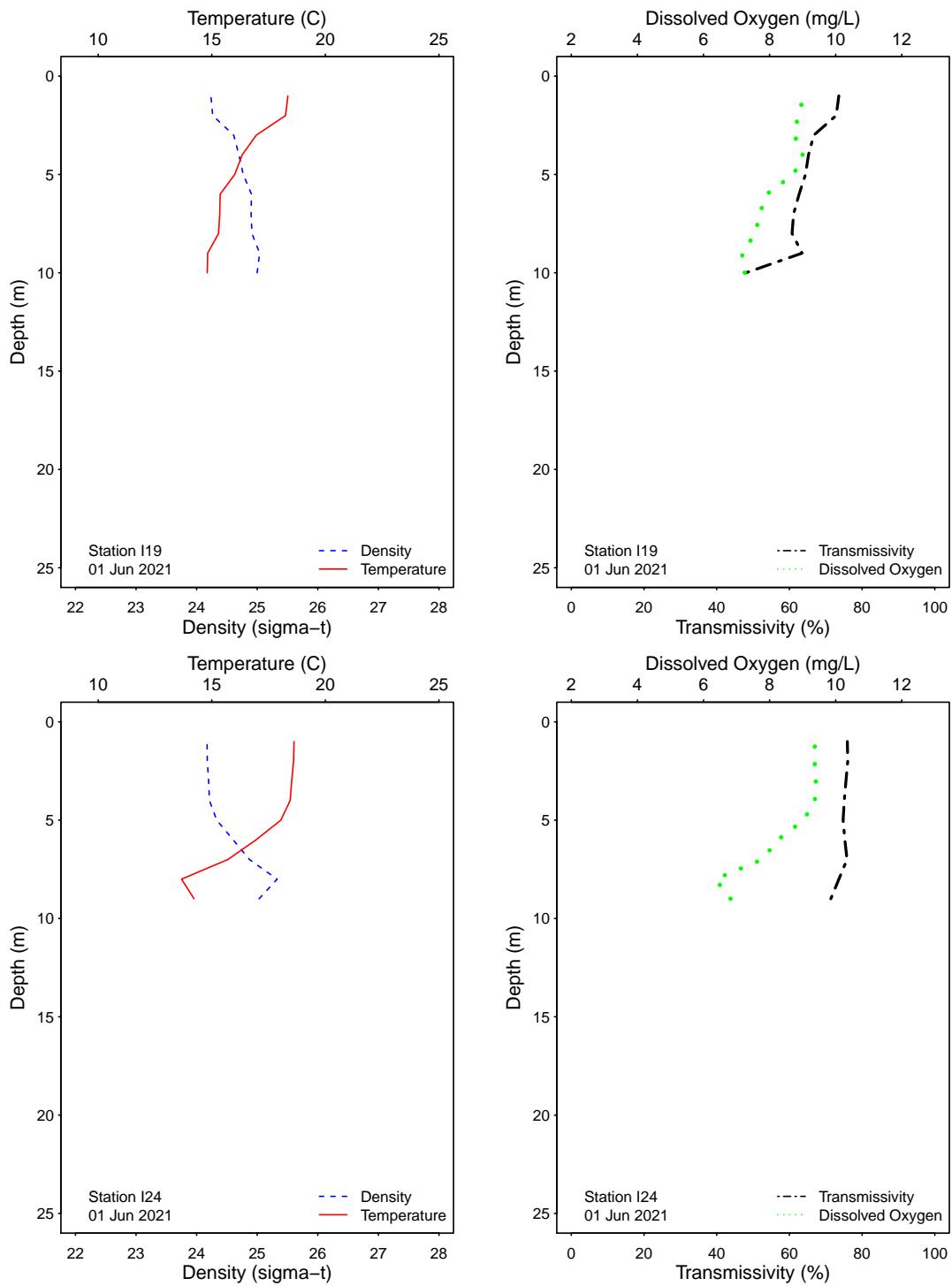


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

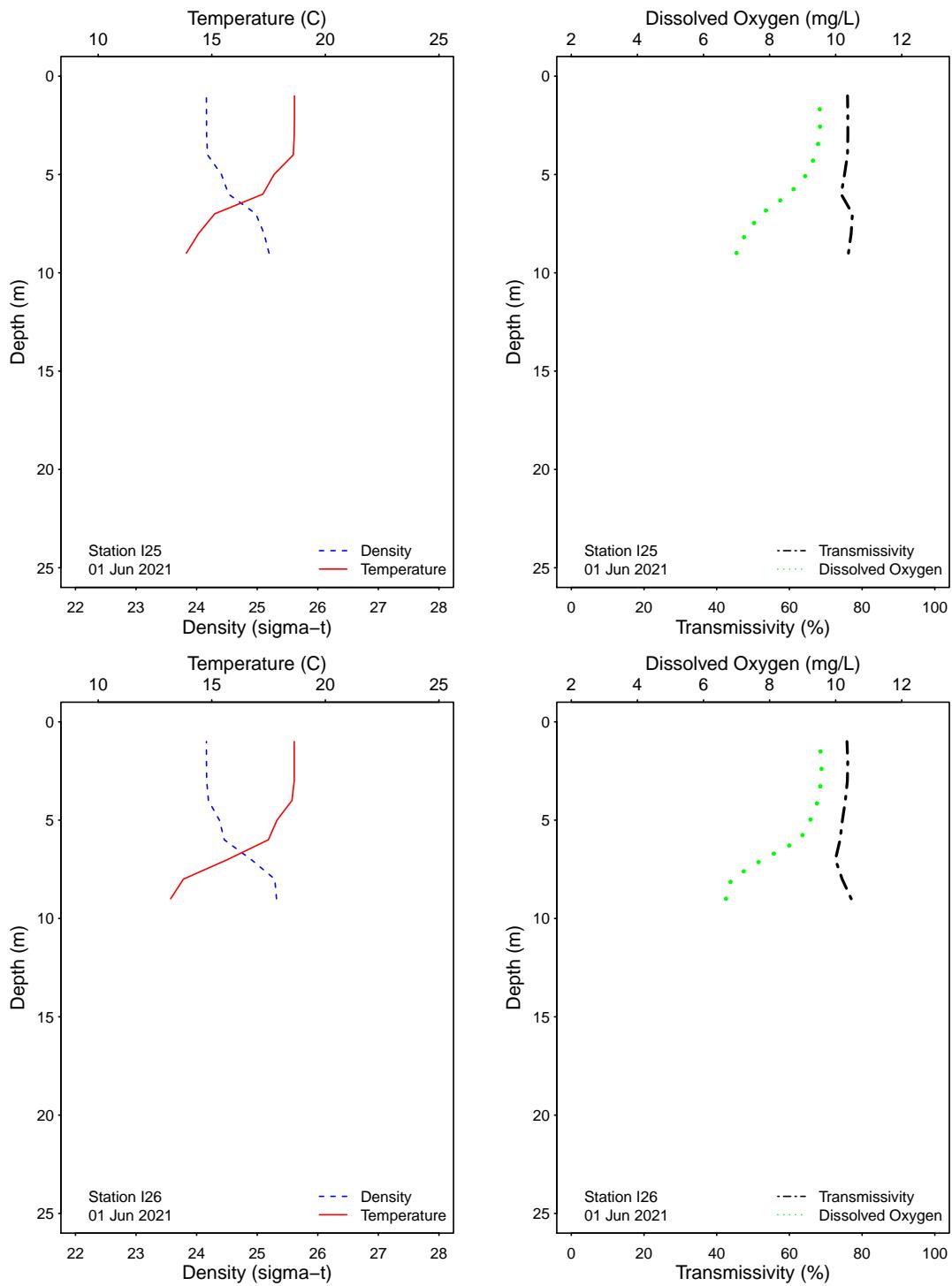


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

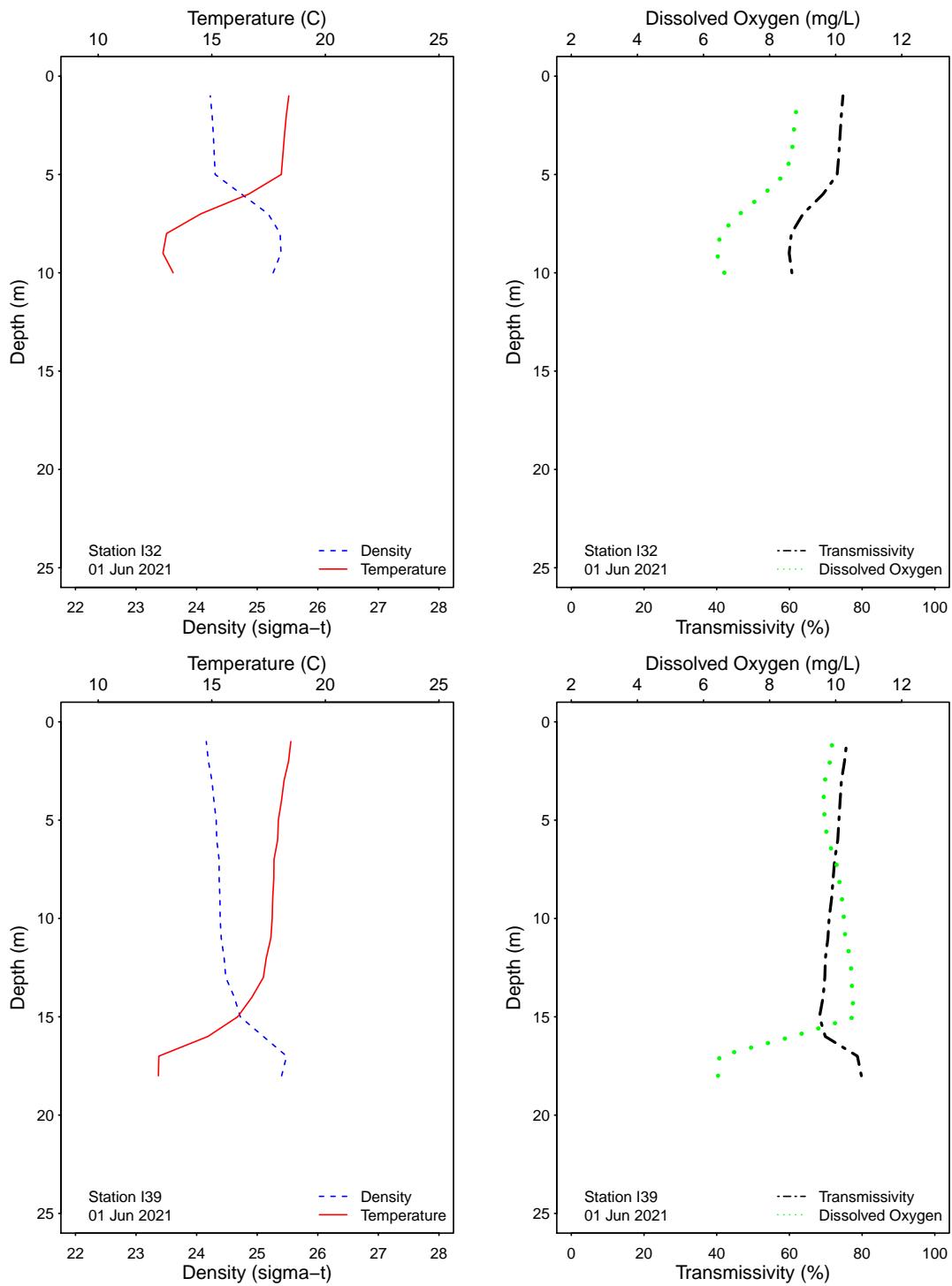


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

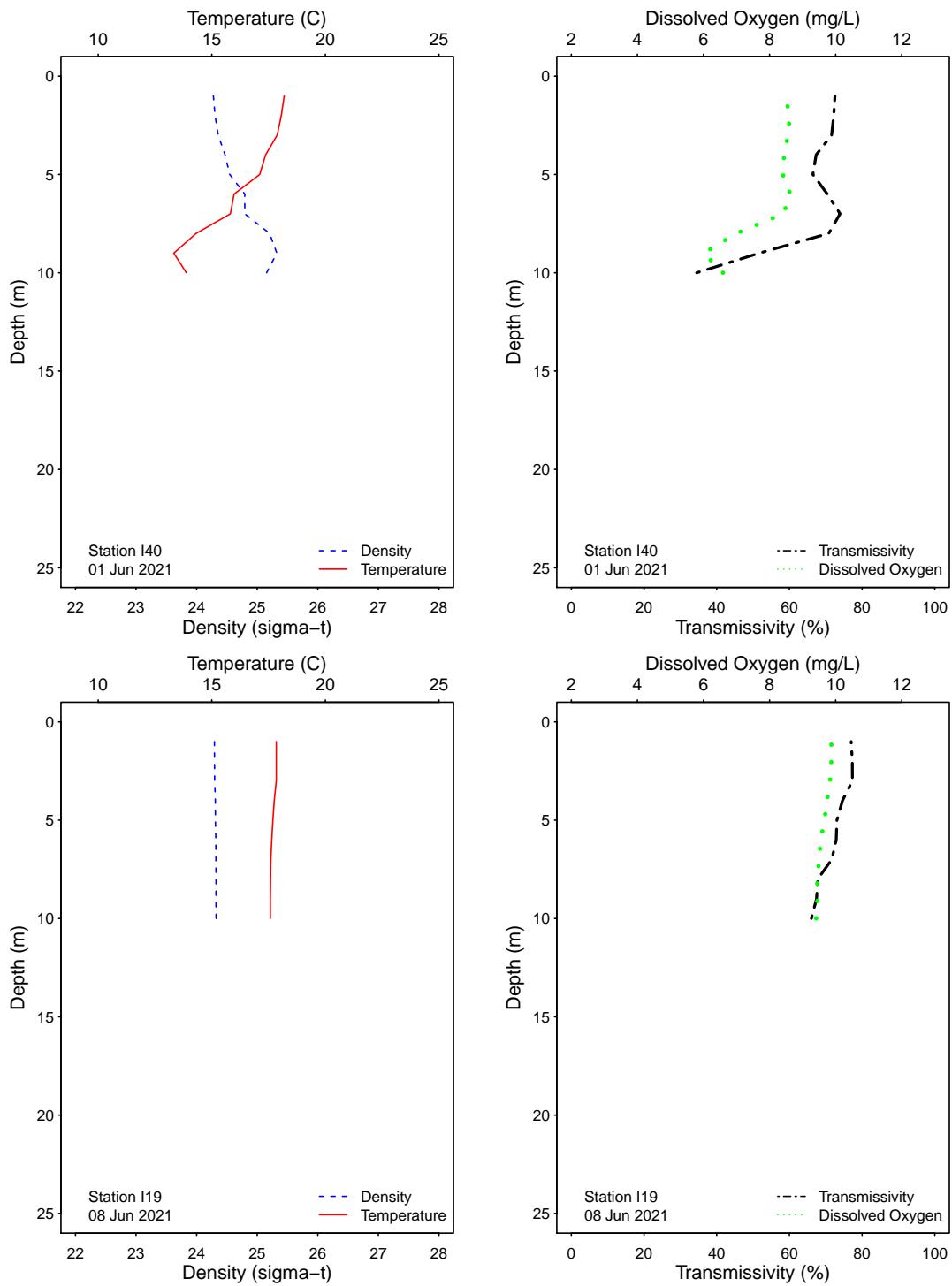


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

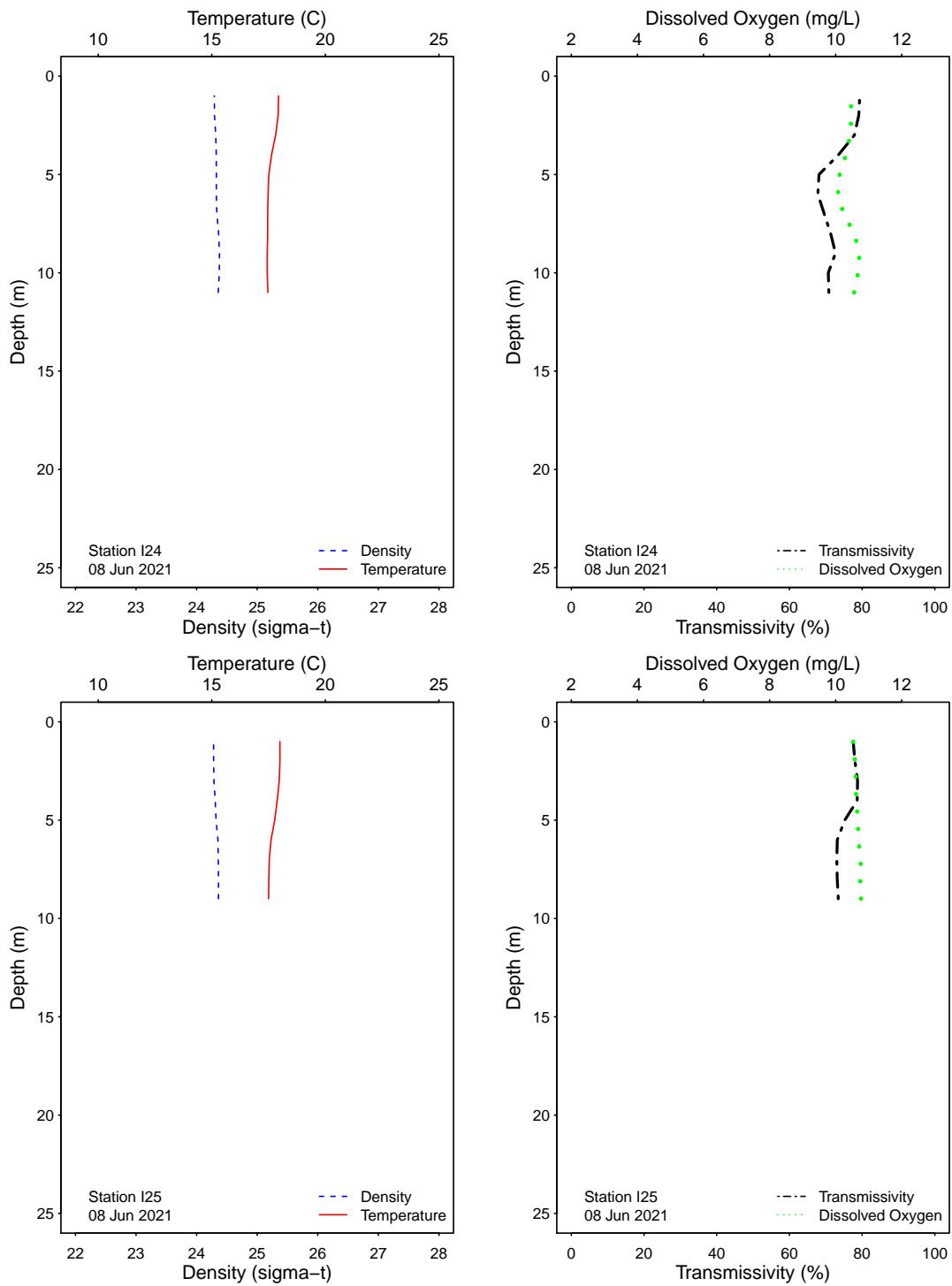


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

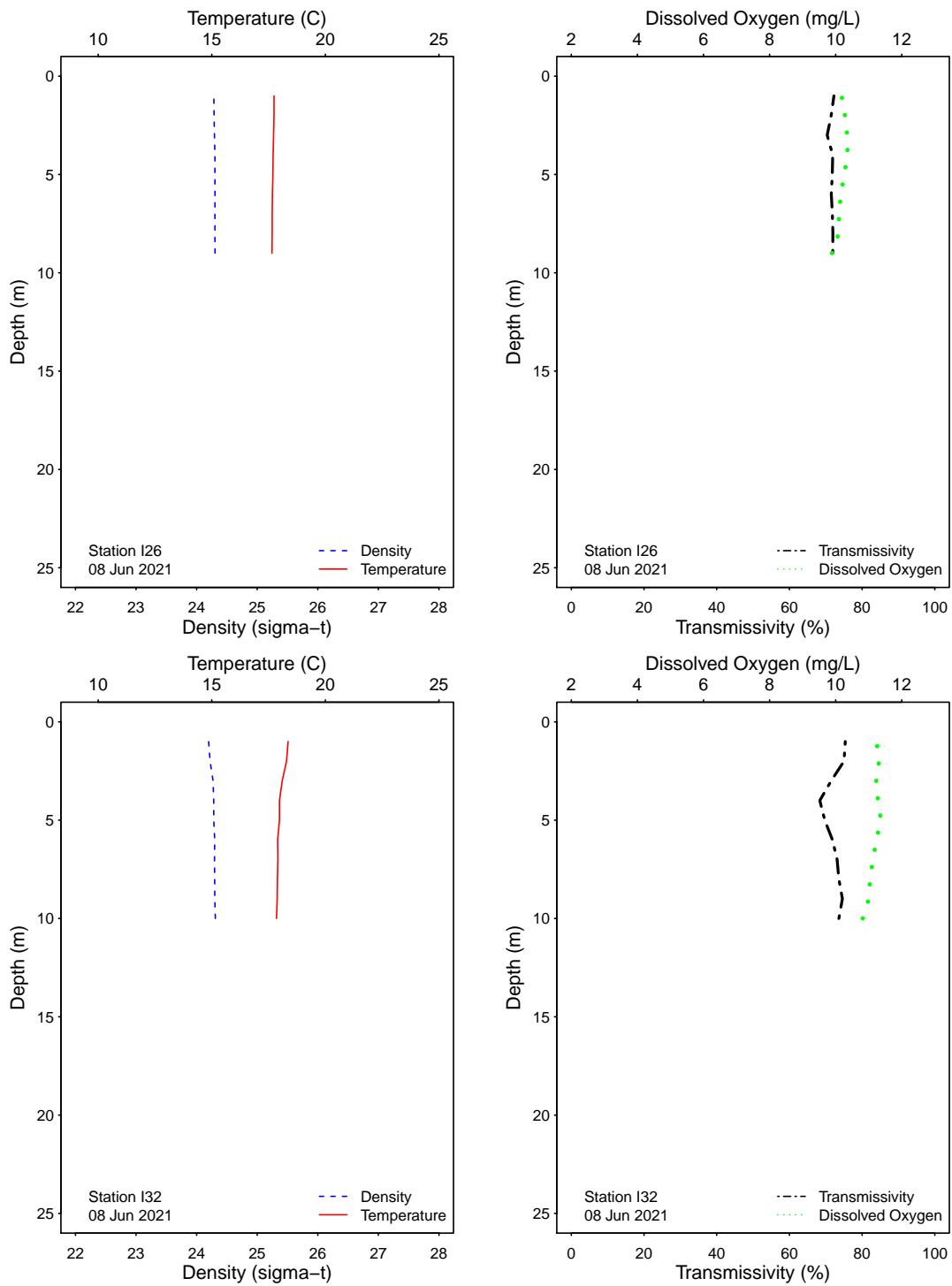


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

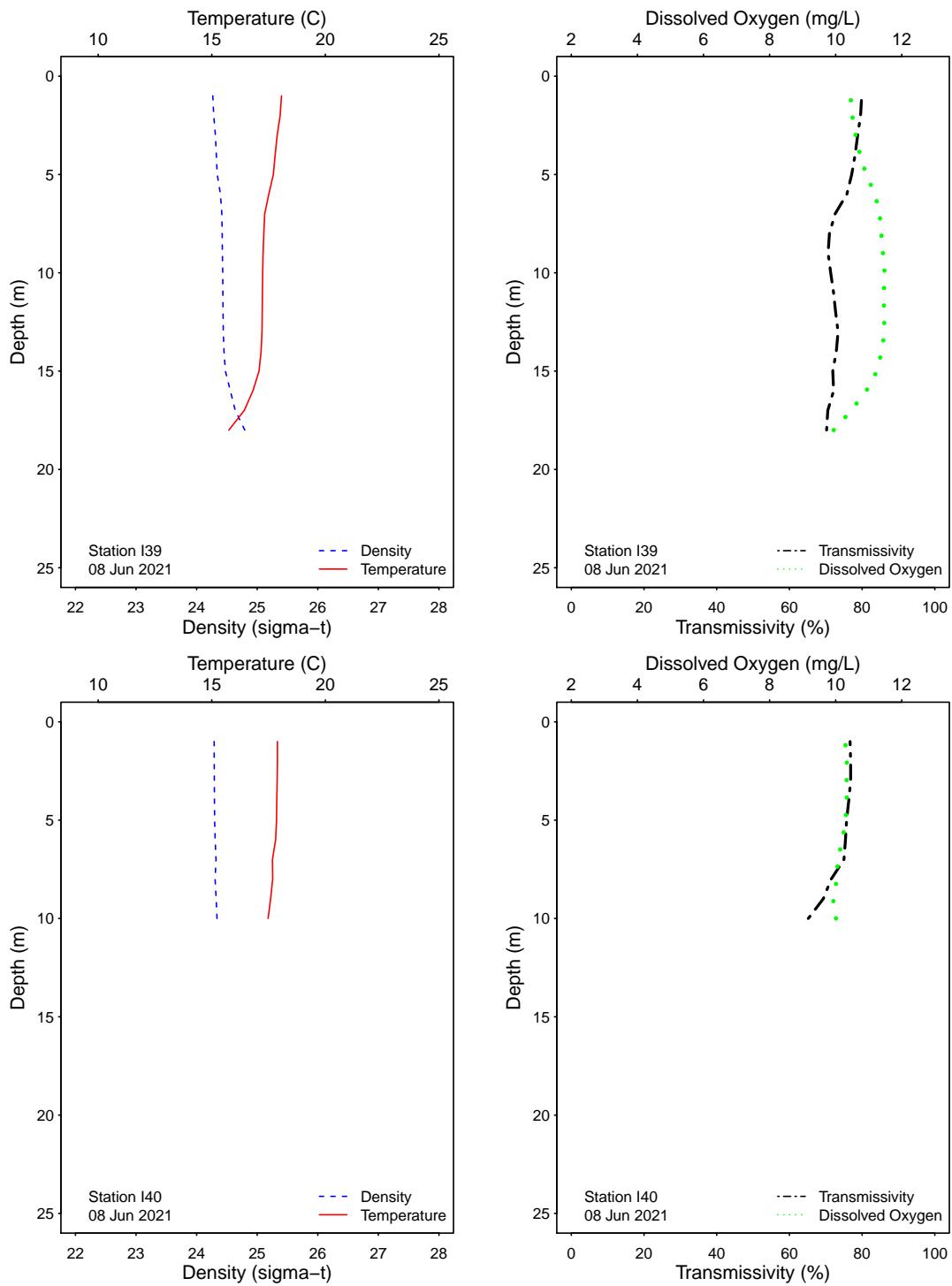


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

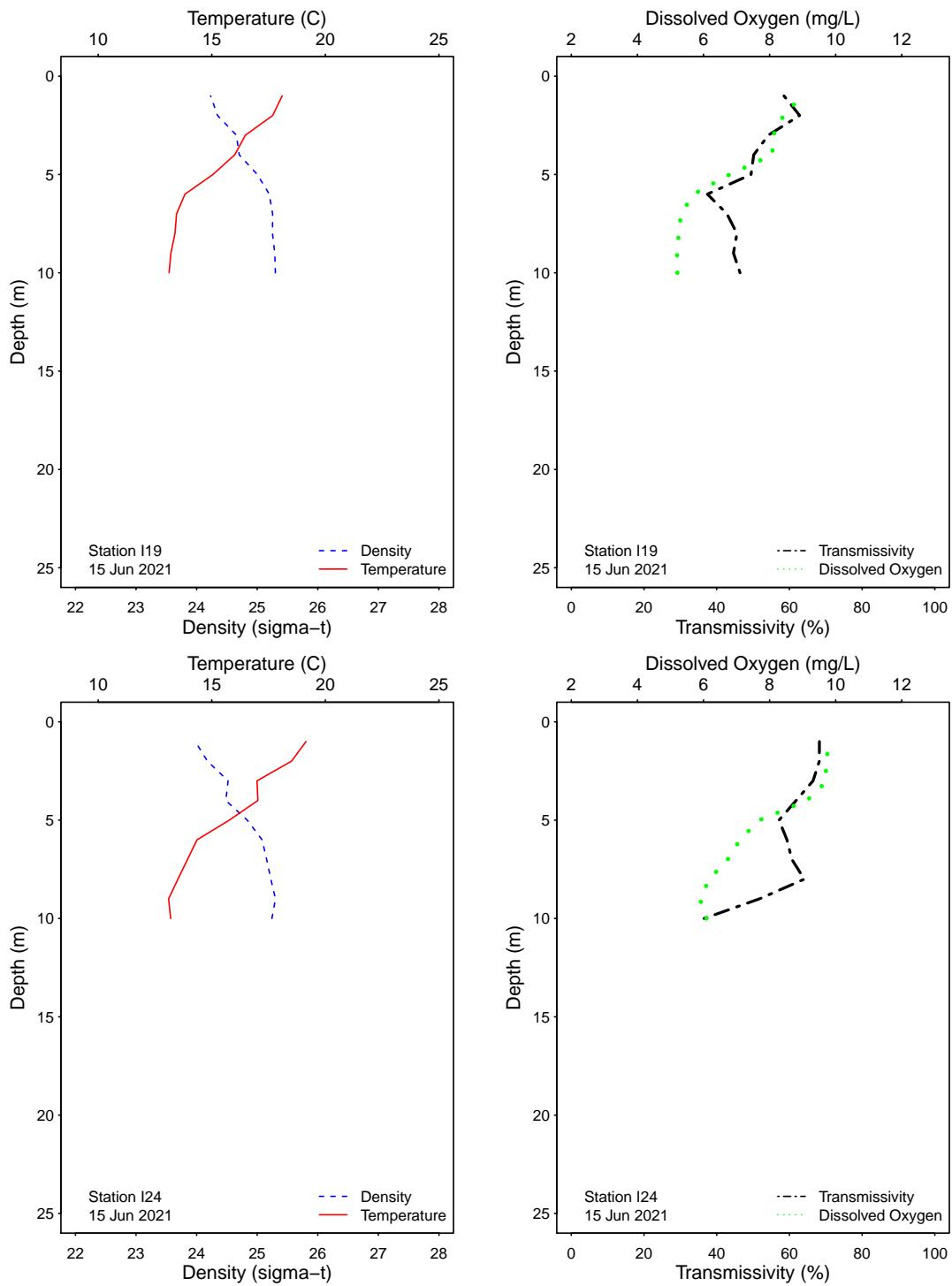


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

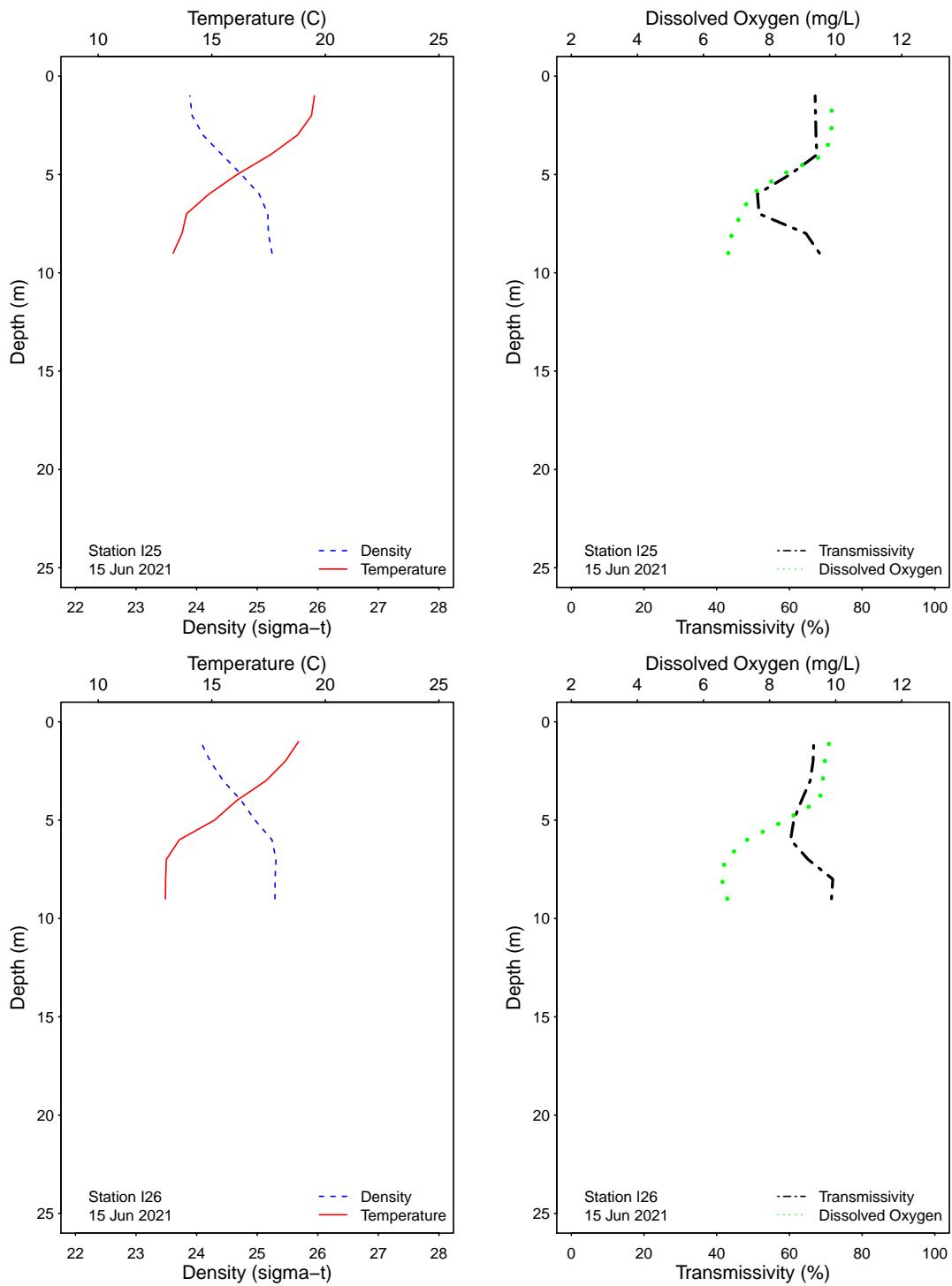


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

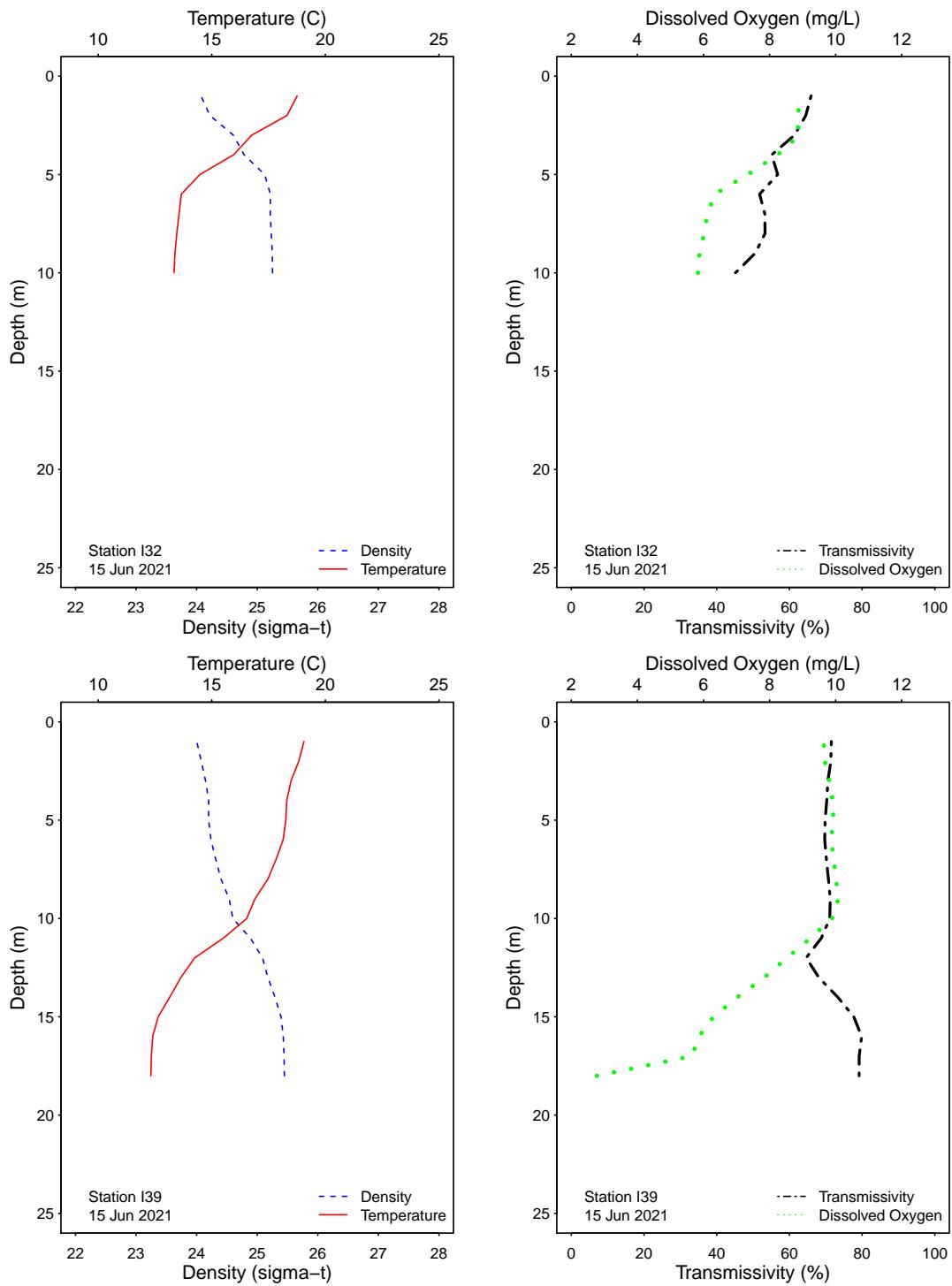


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

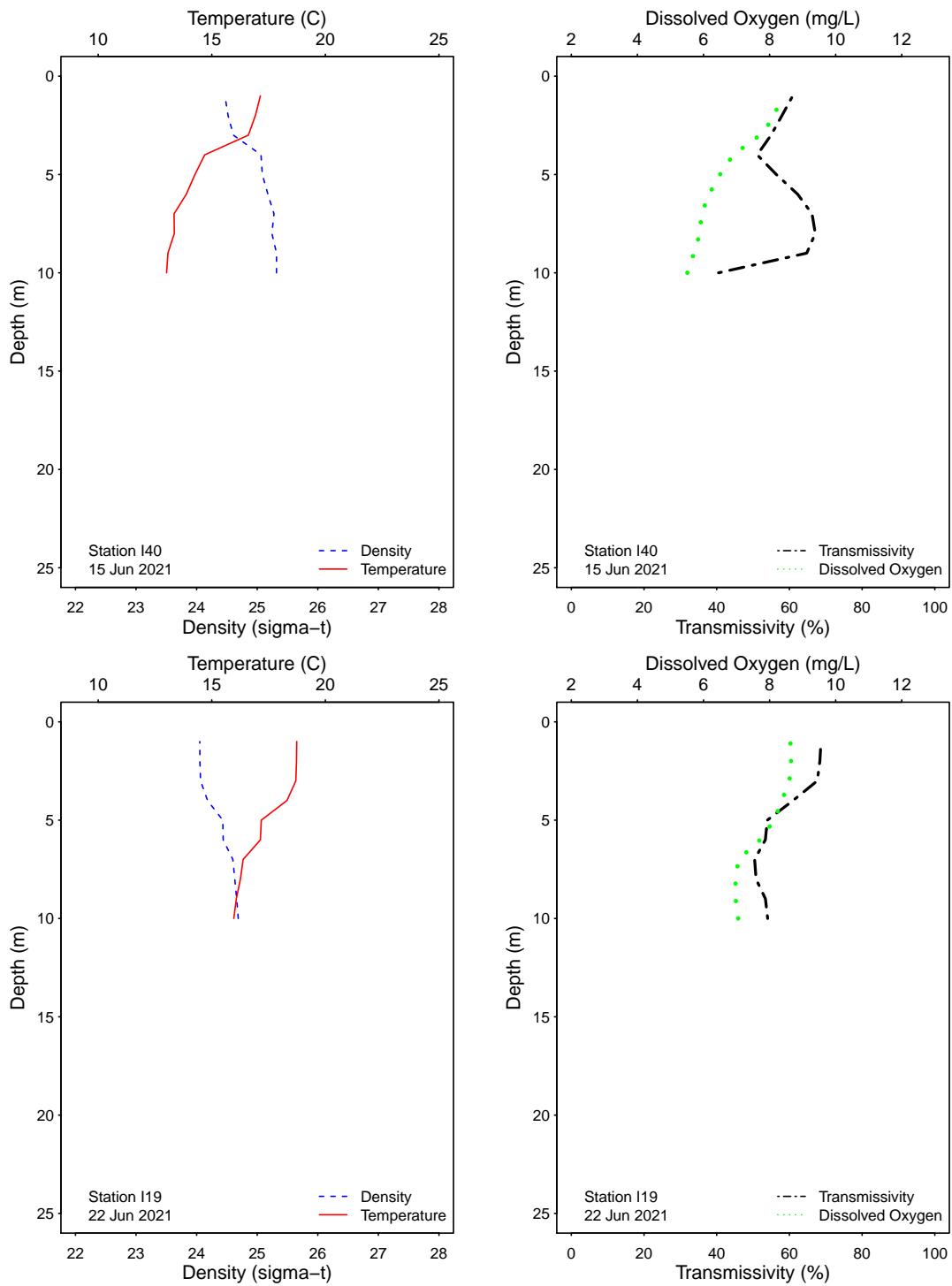


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

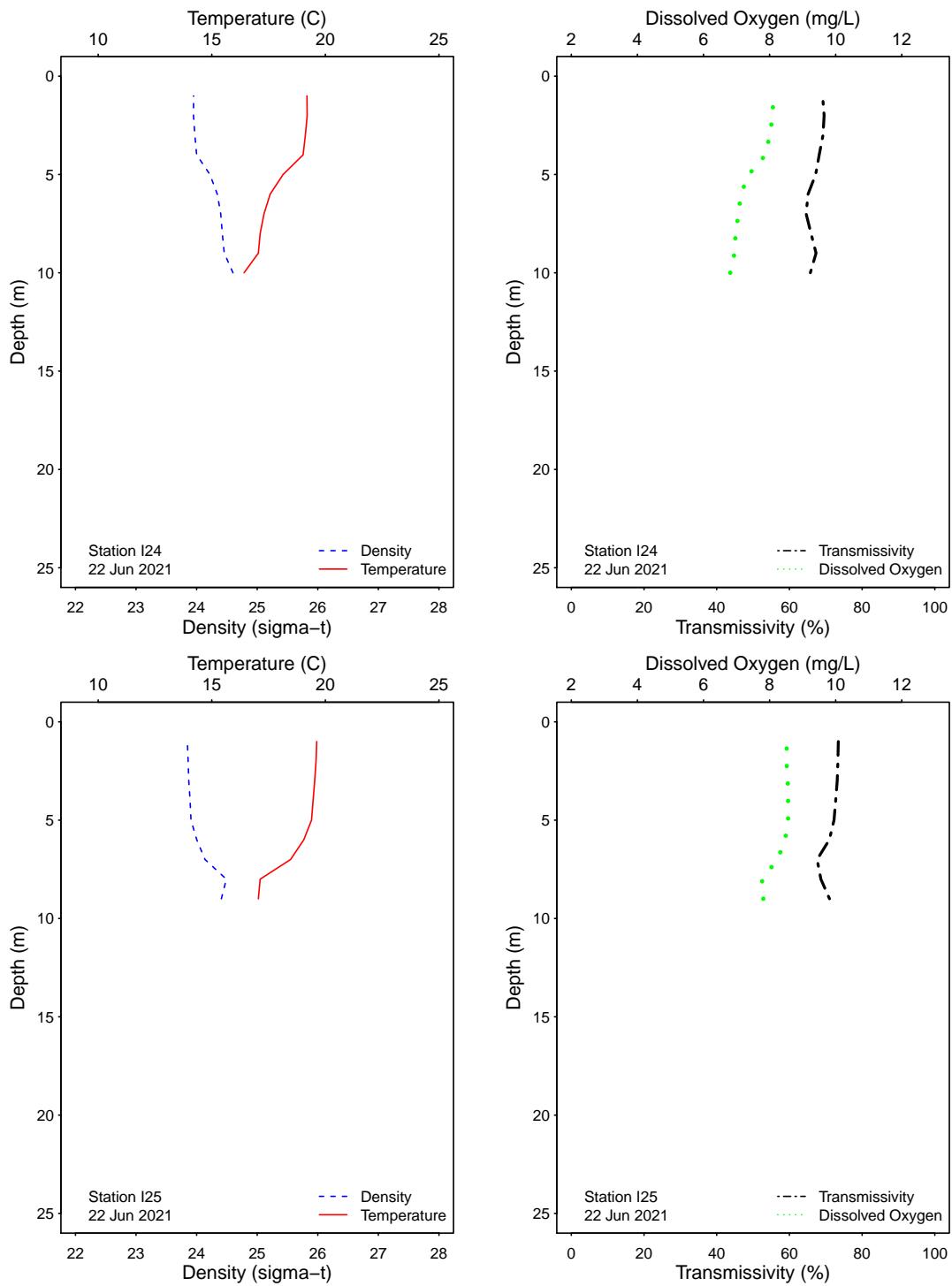


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

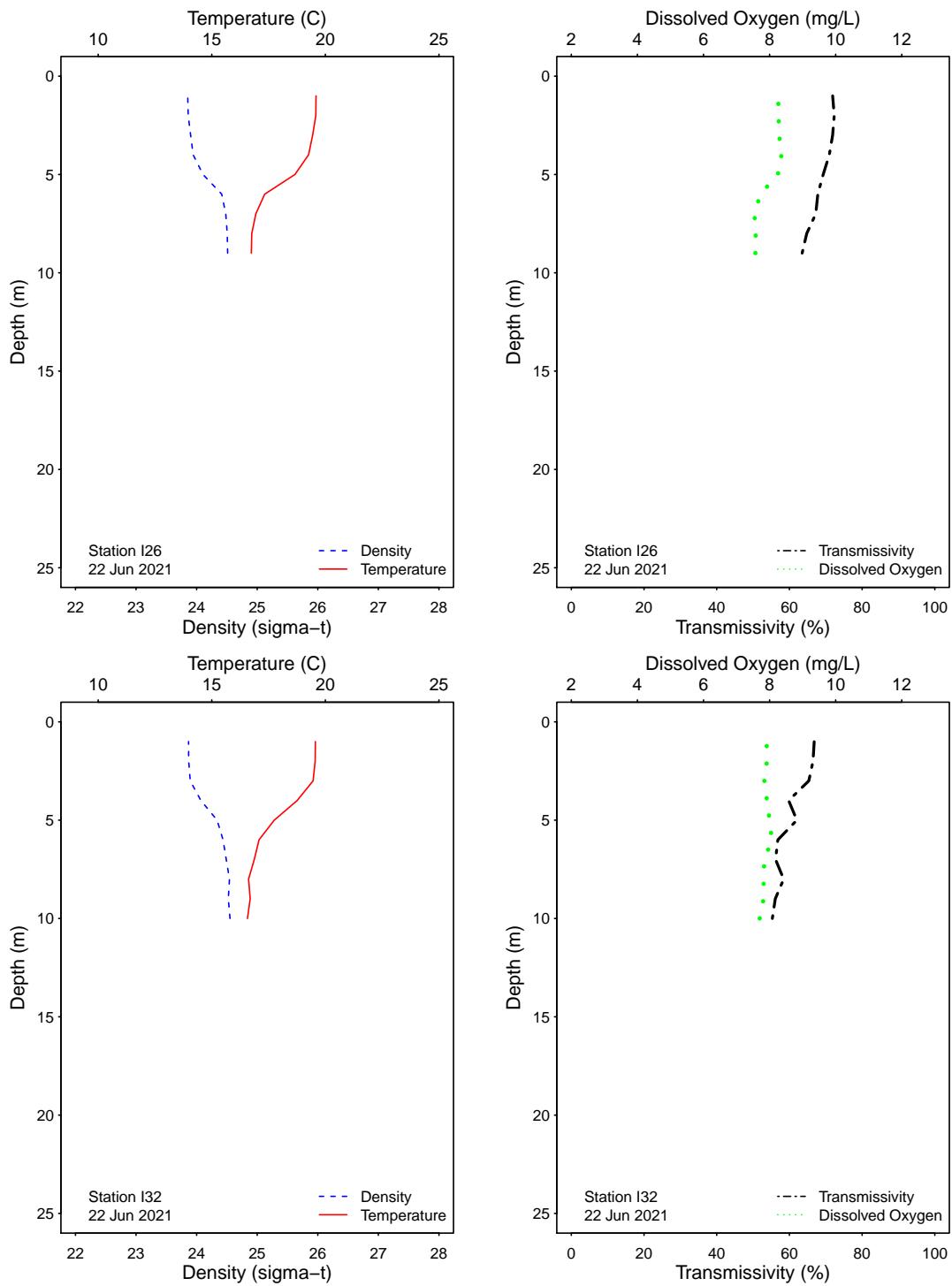


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

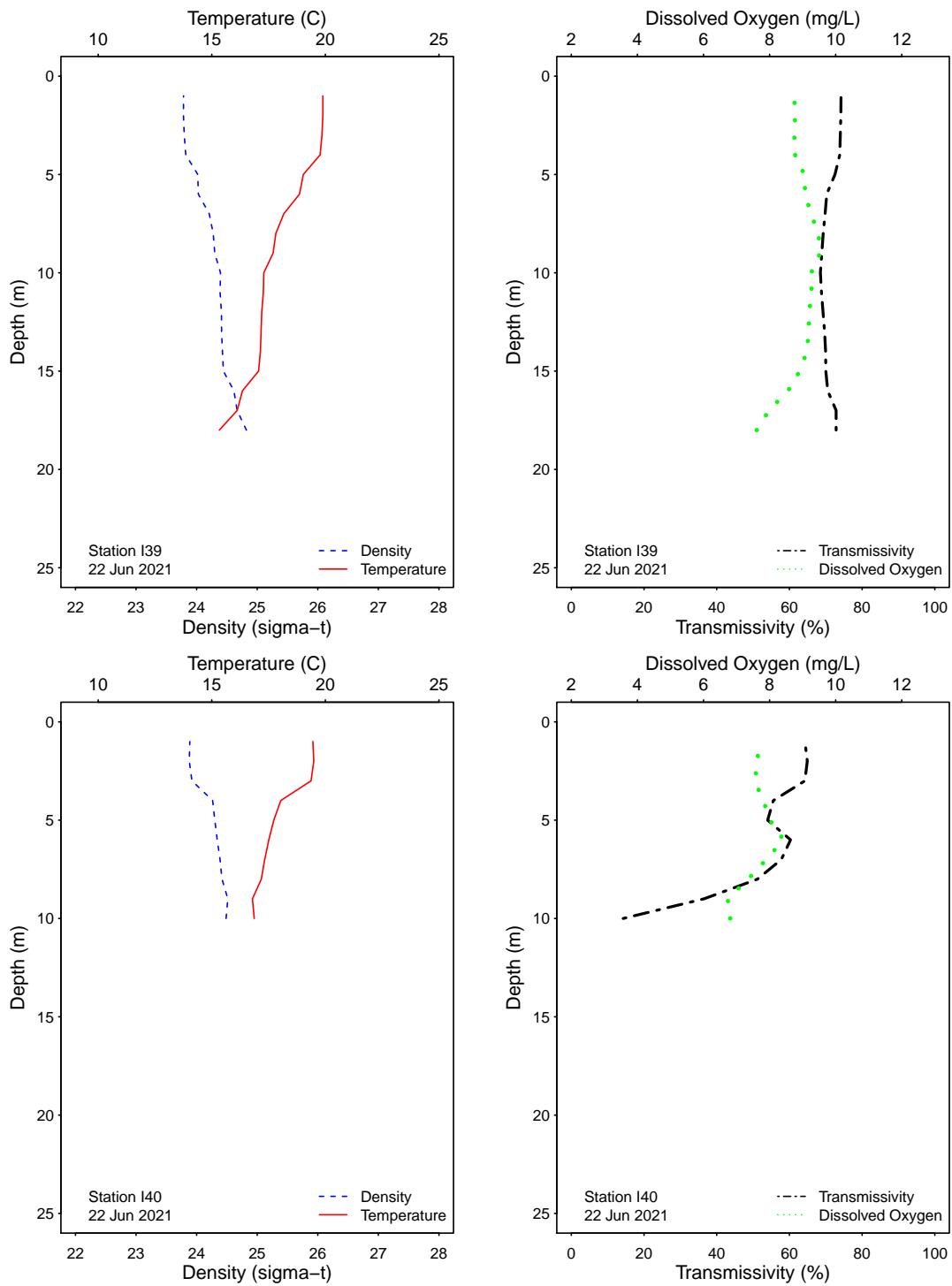


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

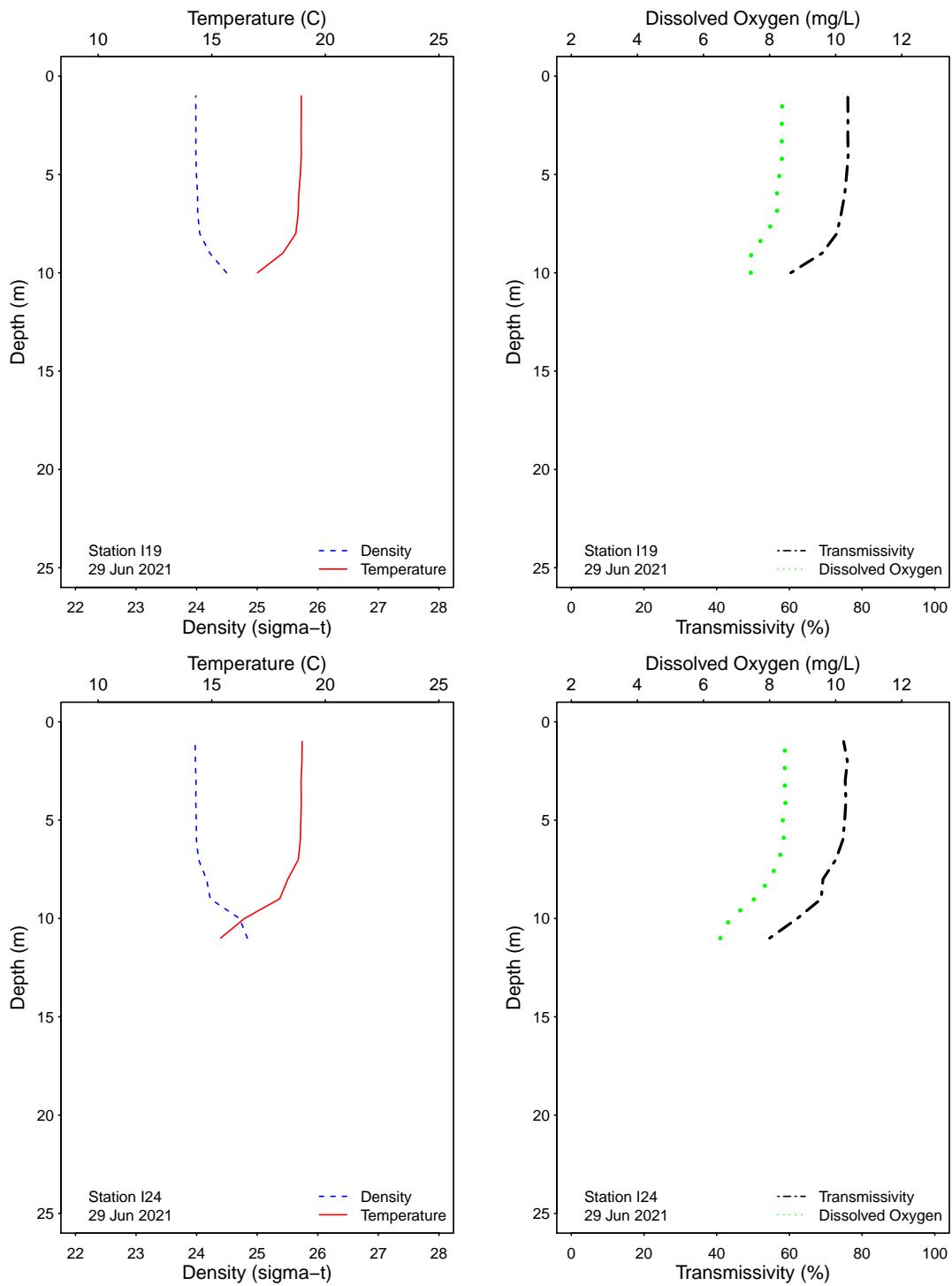


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

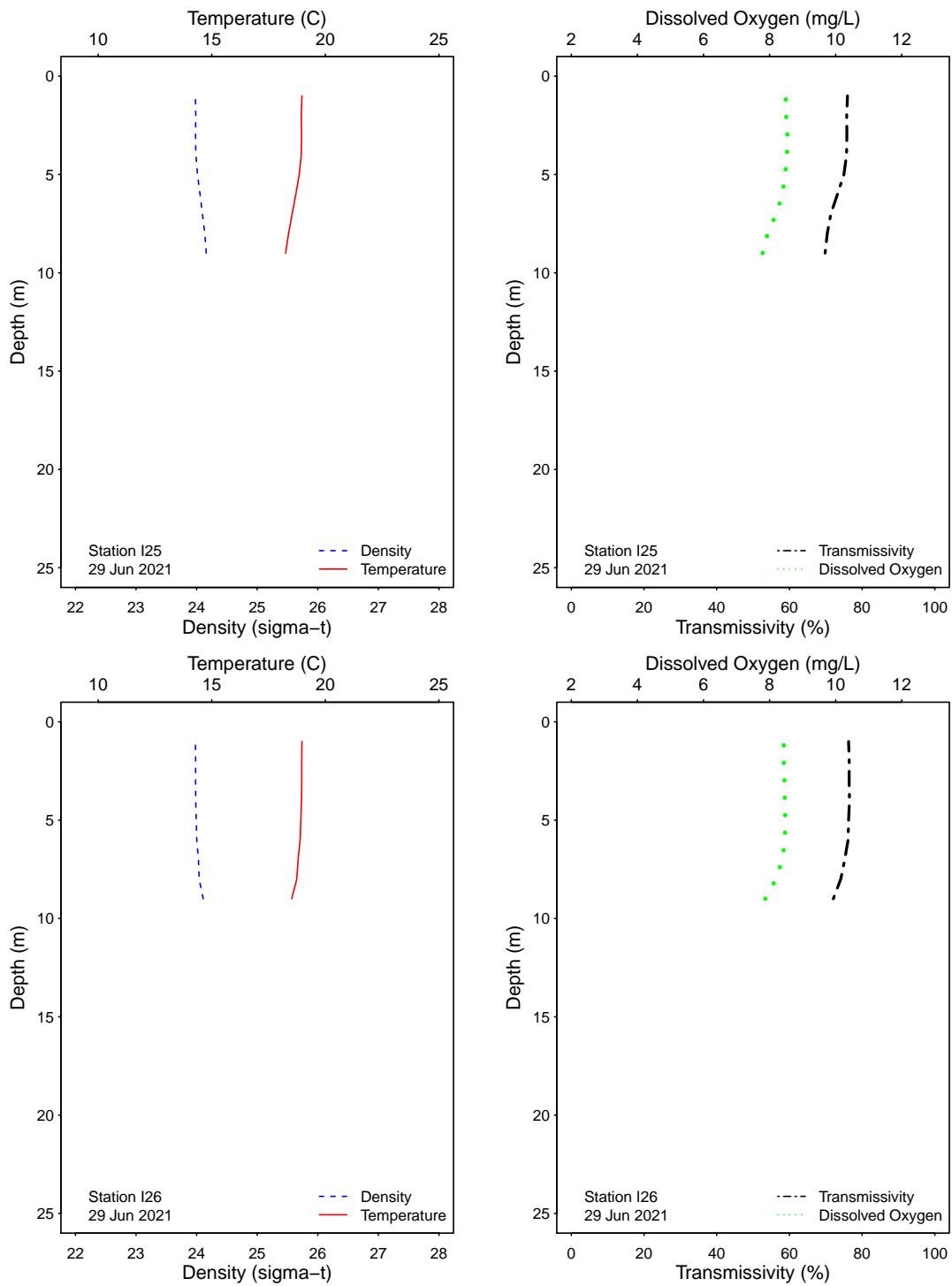


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

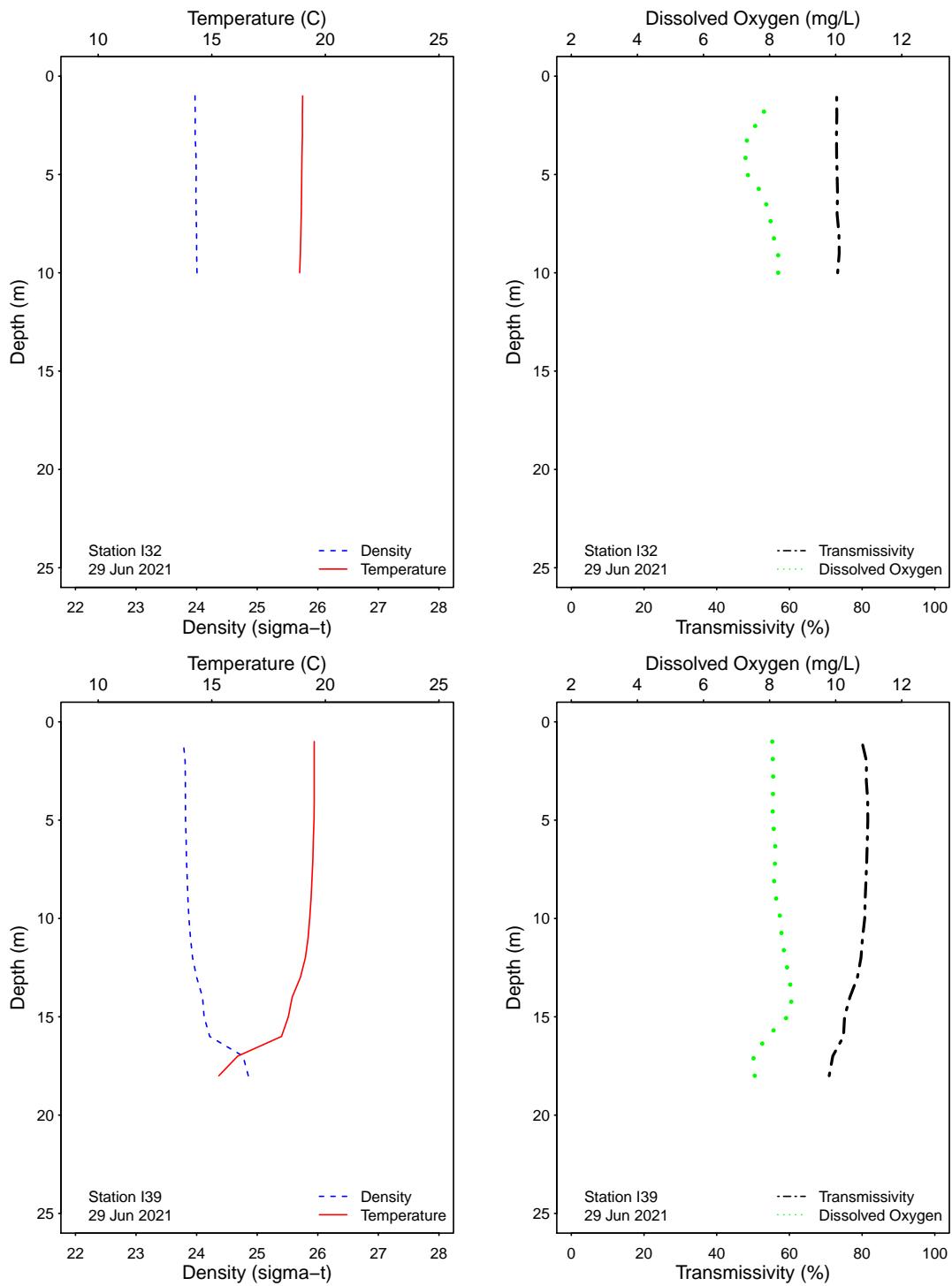


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

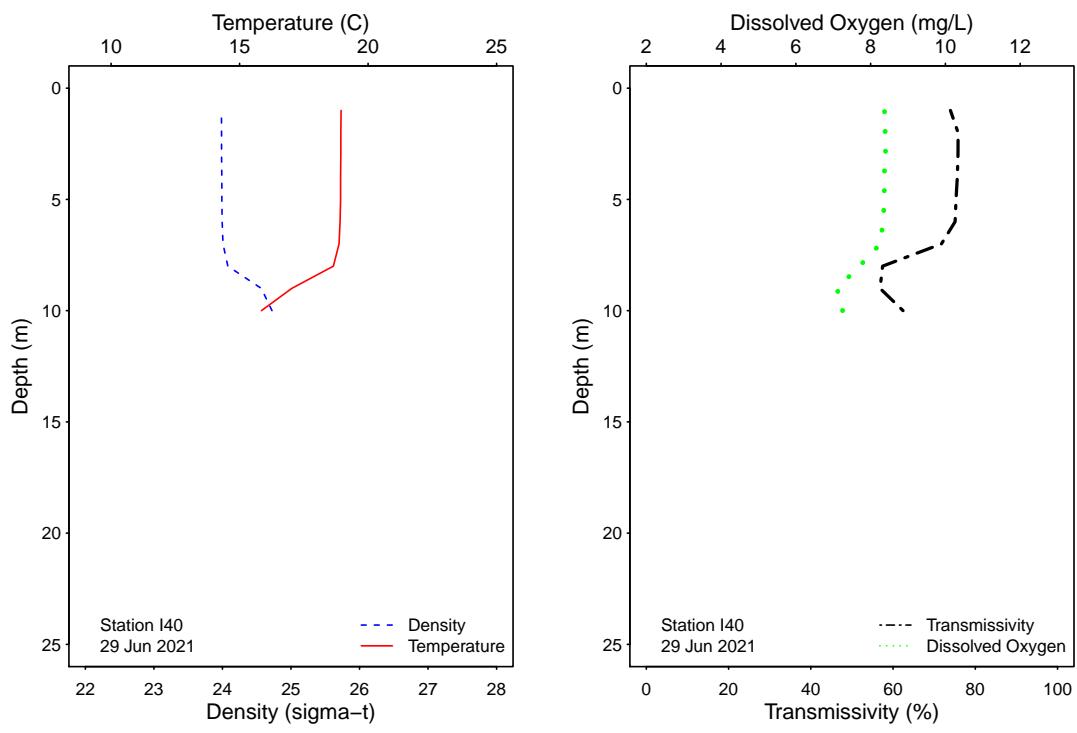


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected SBOO stations. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Enter) are reported as CFU/100 mL.

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Enter
I19	01 Jun 2021	6	JF	LAB DUPLICATE	200e	14e	8e
I19	08 Jun 2021	6	CRE	LAB DUPLICATE	<20	2e	12e
I19	15 Jun 2021	6	JF	LAB DUPLICATE	<20	<2	<2
I19	22 Jun 2021	6	BS	LAB DUPLICATE	<20	2e	<2
I19	29 Jun 2021	6	KA	LAB DUPLICATE	<2	<2	2e
I40	01 Jun 2021	6	AR	LAB DUPLICATE	<2	<2	<2
I40	08 Jun 2021	6	KA	LAB DUPLICATE	120e	6e	16e
I40	15 Jun 2021	6	JF	LAB DUPLICATE	20e	<2	<2
I40	22 Jun 2021	6	BS	LAB DUPLICATE	<20	<2	<2
I40	29 Jun 2021	6	CRE	LAB DUPLICATE	<2	<2	<2
S12	01 Jun 2021		JF	FIELD DUPLICATE	<20	2e	<2
S12	01 Jun 2021		JF	LAB DUPLICATE	<20	<2	<2
S12	08 Jun 2021		CRE	FIELD DUPLICATE	<20	6e	2e
S12	08 Jun 2021		CRE	LAB DUPLICATE	80e	6e	2e
S12	15 Jun 2021		JF	FIELD DUPLICATE	<20	<2	<2
S12	15 Jun 2021		JF	LAB DUPLICATE	<20	<2	<2
S12	22 Jun 2021		KA	FIELD DUPLICATE	<20	8e	20e
S12	22 Jun 2021		KA	LAB DUPLICATE	20e	6e	16e
S12	29 Jun 2021		KA	FIELD DUPLICATE	<20	<2	<2
S12	29 Jun 2021		KA	LAB DUPLICATE	<20	<2	<2

ns = not sampled

ND = no data

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APPENDIX B

New 2019 Ocean Plan Water Quality Objectives

Shore Stations

Table B.1

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 2021	6	9	4	4	4	4	3	4
02 Jun 2021	6	9	4	4	4	4	3	4
03 Jun 2021	6	8	4	4	4	4	3	4
04 Jun 2021	6	8	4	4	4	4	3	4
05 Jun 2021	6	8	4	4	4	4	3	4
06 Jun 2021	6	8	4	4	4	4	3	4
07 Jun 2021	6	8	4	4	4	4	3	4
08 Jun 2021	10	12	6	3	4	8	6	3
09 Jun 2021	10	12	6	3	4	8	6	3
10 Jun 2021	10	10	6	3	4	8	6	3
11 Jun 2021	10	10	6	3	4	8	6	3
12 Jun 2021	10	10	6	3	4	8	6	3
13 Jun 2021	10	10	6	3	4	8	6	3
14 Jun 2021	10	10	6	3	4	8	6	3
15 Jun 2021	7	9	4	2	4	6	4	3
16 Jun 2021	7	9	4	2	4	6	4	3
17 Jun 2021	7	9	4	2	4	6	4	3
18 Jun 2021	7	9	4	2	4	6	4	3
19 Jun 2021	7	9	4	2	4	6	4	3
20 Jun 2021	7	9	4	2	4	6	4	3
21 Jun 2021	7	9	4	2	4	6	4	3
22 Jun 2021	5	8	4	3	6	6	4	4
23 Jun 2021	5	8	4	3	6	6	4	4
24 Jun 2021	5	8	4	3	6	6	4	4
25 Jun 2021	5	8	4	3	6	6	4	4
26 Jun 2021	5	8	4	3	6	6	4	4
27 Jun 2021	5	8	4	3	6	6	4	4
28 Jun 2021	5	8	4	3	6	6	4	4
29 Jun 2021	6	7	4	3	4	6	6	4
30 Jun 2021	6	7	4	3	4	6	6	4

* Geometric mean calculated using n<5

Table B.2

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	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Kelp Stations

Table B.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 2021	7	5	4	4	3	5	5
02 Jun 2021	7	5	4	4	3	5	5
03 Jun 2021	7	5	4	4	3	5	5
04 Jun 2021	7	5	4	4	3	5	5
05 Jun 2021	7	5	4	4	3	5	5
06 Jun 2021	7	5	4	4	3	5	5
07 Jun 2021	7	5	4	4	3	5	5
08 Jun 2021	10	8	6	6	3	6	7
09 Jun 2021	10	8	6	6	3	6	7
10 Jun 2021	10	8	6	6	3	6	7
11 Jun 2021	10	8	6	6	3	6	7
12 Jun 2021	10	8	6	6	3	6	7
13 Jun 2021	10	8	6	6	3	6	7
14 Jun 2021	6	5	3	4	2	4	4
15 Jun 2021	5	4	3	3	2	3	4
16 Jun 2021	5	4	3	3	2	3	4
17 Jun 2021	5	4	3	3	2	3	4
18 Jun 2021	5	4	3	3	2	3	4
19 Jun 2021	5	4	3	3	2	3	4
20 Jun 2021	5	4	3	3	2	3	4
21 Jun 2021	4	4	3	3	2	3	3
22 Jun 2021	4	4	3	3	2	3	3
23 Jun 2021	4	4	3	3	2	3	3
24 Jun 2021	4	4	3	3	2	3	3
25 Jun 2021	4	4	3	3	2	3	3
26 Jun 2021	4	4	3	3	2	3	3
27 Jun 2021	4	4	3	3	2	3	3
28 Jun 2021	4	4	3	3	2	3	3
29 Jun 2021	4	4	3	3	2	3	3
30 Jun 2021	4	4	3	3	2	3	3

* Geometric mean calculated using n<5

Table B.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	IC	E	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data