

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

NPDES Permit No. CA0109045
SDRWQCB Order No. R9-2021-0011

JANUARY 2024

Environmental Monitoring and Technical Services
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
Tel (619) 758-2300 Fax (619) 758-2309



February 29, 2024

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 January 2024 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2021-0011, 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. R9-2021-0001, 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. R9-2021-0011, 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 weekly 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.

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 quarterly 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 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 chromomorphous 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 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 water-contact standards specified in the 2019 California Ocean Plan (Ocean Plan). The six standards are defined as follows:

Water-Contact Objectives

Fecal coliform:

- (1) The 30-day geometric mean (GM) of fecal coliform density not to exceed 200 CFU/100 mL, calculated based on the five most recent samples from each site
- (2) The single sample maximum (SSM) not to exceed 400 CFU/100 mL

Enterococci:

- (1) The six-week rolling GM of *Enterococci* not to exceed 30 CFU/100 mL, calculated weekly
- (2) The statistical threshold value (STV) of 110 CFU/100 mL not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner

Shellfish Harvesting Standards

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.

Total coliform:

- (1) The median total coliform density shall not exceed 70 CFU/100 mL
- (2) The STV of 230 CFU/100 mL not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner

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 2024 Quality Assurance Report, which will be completed in March 2025.

SUMMARY OF RESULTS

➤ 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.
 - Stations S4 and S10 were inaccessible on Tuesday, January 23rd, and were instead sampled on January 24th.
- During January, each of the eight shore stations located north of the border were out of compliance with the 2019 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - The 30-day running geometric mean standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, and S11.
 - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S4, S5, S6, S8, S10, S11, and S12.
 - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11, and S12.

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

- The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S6, S8, S10, S11, and S12.
 - The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
 - The STV standard for total coliforms was exceeded at stations S4, S5, S6, S8, S9, S10, S11, and S12.
- A sewage-like odor was observed at stations S4, S10, and S12 on one or more days in January.
- 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 January 2, 9, 17, 24 and 30.
 - An additional sample at I24-11 m was taken on January 18th to replace the sample taken on the 17th, which was discarded due to a lab accident.
- During January, each of the seven kelp bed stations was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
 - The 30-day running geometric mean standard for fecal coliforms was exceeded at stations I19, I24, I25, and I40.
 - The SSM standard for fecal coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
 - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, and I40.
 - The STV standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
 - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
 - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
- Water column temperatures ranged from 13.46 to 16.69°C. The difference between surface and bottom waters ranged from 0.11 to 0.78°C.
- Concentrations of chlorophyll a ranged from 0.46 to 5.04 µg/L at the kelp bed stations.
- A sewage-like odor was observed at station I40 on one or more days in January.

➤ **Offshore Water Quality Sampling**

- Quarterly sampling was not conducted during January at the offshore stations. The next quarterly sampling is scheduled for February 2024.



TABLES AND FIGURES

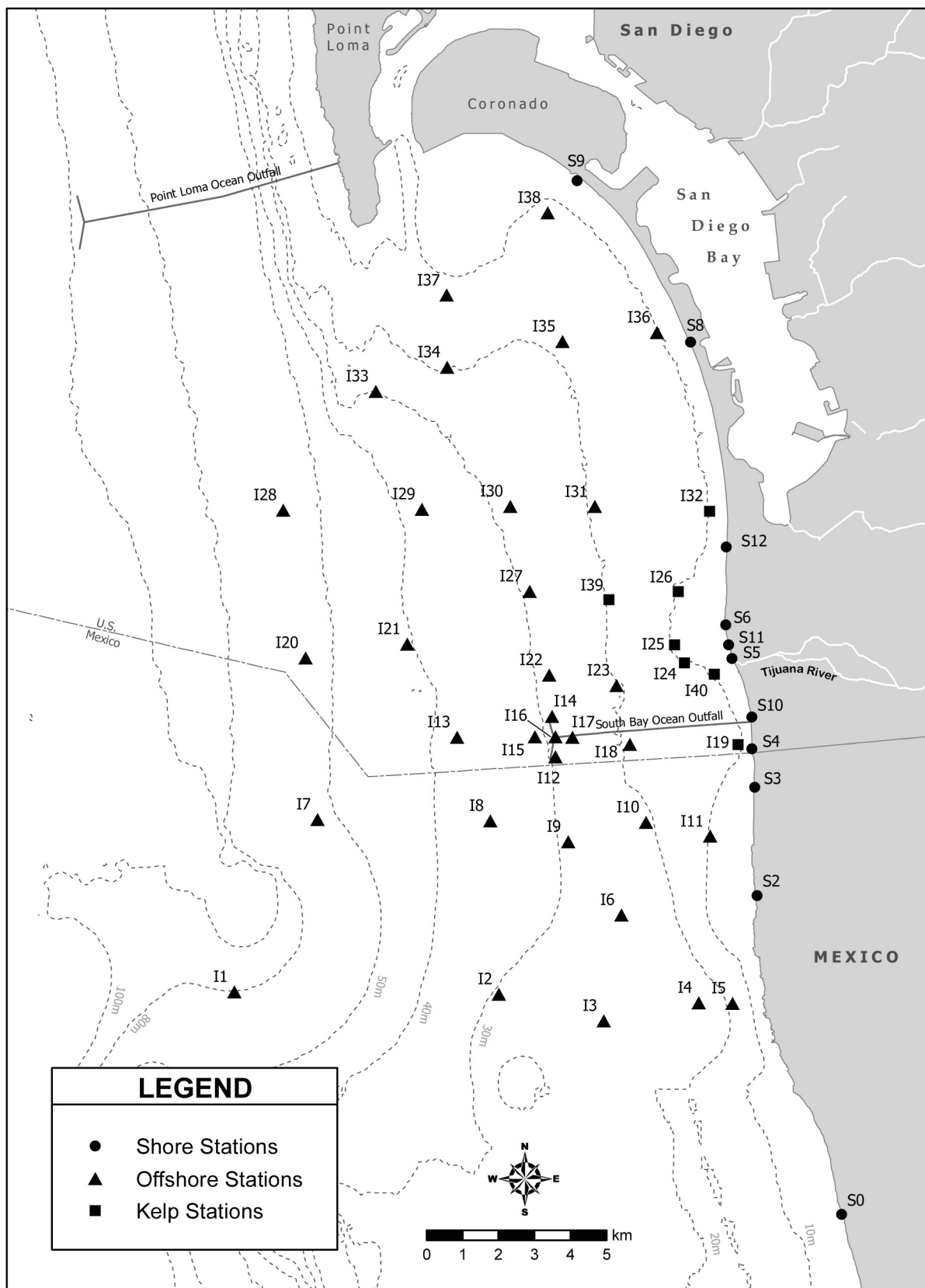


Figure 1.1 Station Map

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Shore Stations

Table 2.1

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2024	*2936	*627	*23	*2	*3	*533	*106	*11
02 Jan 2024	2532	1132	47	2	3	993	201	22
03 Jan 2024	2532	1132	47	2	3	993	201	22
04 Jan 2024	*1716	*2760	*104	*2	*3	*533	*635	*41
05 Jan 2024	*1716	*2760	*104	*2	*3	*533	*635	*41
06 Jan 2024	*1716	*2760	*104	*2	*3	*533	*635	*41
07 Jan 2024	*1716	*2760	*104	*2	*3	*533	*635	*41
08 Jan 2024	*1716	*2760	*104	*2	*3	*533	*635	*41
09 Jan 2024	1893	3704	84	2	4	694	523	22
10 Jan 2024	*2726	*2760	*180	*2	*4	*605	*447	*41
11 Jan 2024	*2726	*2760	*180	*2	*4	*605	*447	*41
12 Jan 2024	*2726	*2760	*180	*2	*4	*605	*447	*41
13 Jan 2024	*2726	*2760	*180	*2	*4	*605	*447	*41
14 Jan 2024	*2726	*2760	*180	*2	*4	*605	*447	*41
15 Jan 2024	*2726	*2760	*180	*2	*4	*605	*447	*41
16 Jan 2024	3603	2638	73	2	4	1100	240	36
17 Jan 2024	3603	2638	73	2	4	1100	240	36
18 Jan 2024	*3427	*2348	*42	*2	*4	*2520	*141	*22
19 Jan 2024	*3427	*2348	*42	*2	*4	*2520	*141	*22
20 Jan 2024	*3427	*2348	*42	*2	*4	*2520	*141	*22
21 Jan 2024	*3427	*2348	*42	*2	*4	*2520	*141	*22
22 Jan 2024	*3427	*2348	*42	*2	*4	*2520	*141	*22
23 Jan 2024	*3427	3254	129	11	7	*2520	344	74
24 Jan 2024	4120	3254	129	11	7	3055	344	74
25 Jan 2024	*4388	*7852	*167	*17	*6	*6603	*622	*111
26 Jan 2024	*4388	*7852	*167	*17	*6	*6603	*622	*111
27 Jan 2024	*4388	*7852	*167	*17	*6	*6603	*622	*111
28 Jan 2024	*4388	*7852	*167	*17	*6	*6603	*622	*111
29 Jan 2024	*4388	*7852	*167	*17	*6	*6603	*622	*111
30 Jan 2024	3168	5712	269	11	5	7441	769	136
31 Jan 2024	3168	5712	269	11	5	7441	769	136

* Geometric mean calculated using n<5

Table 2.2

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Jan 2024	E	E	E	IC	IC	E	E	E
09 Jan 2024	E	E	IC	IC	IC	E	IC	IC
16 Jan 2024	E	E	IC	IC	IC	E	IC	IC
23 Jan 2024	ns	E	E	E	IC	ns	E	E
24 Jan 2024	E	ns	ns	ns	ns	E	ns	ns
30 Jan 2024	E	E	E	IC	IC	E	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2024	648	667	18	4	3	589	96	13
02 Jan 2024	577	667	38	2	3	633	139	23
03 Jan 2024	577	667	38	2	3	633	139	23
04 Jan 2024	577	667	38	2	3	633	139	23
05 Jan 2024	577	667	38	2	3	633	139	23
06 Jan 2024	577	667	38	2	3	633	139	23
07 Jan 2024	577	667	38	2	3	633	139	23
08 Jan 2024	577	667	38	2	3	633	139	23
09 Jan 2024	1163	1196	22	2	3	954	97	15
10 Jan 2024	1163	1196	22	2	3	954	97	15
11 Jan 2024	1163	1196	22	2	3	954	97	15
12 Jan 2024	1163	1196	22	2	3	954	97	15
13 Jan 2024	1163	1196	22	2	3	954	97	15
14 Jan 2024	1163	1196	22	2	3	954	97	15
15 Jan 2024	1163	1196	22	2	3	954	97	15
16 Jan 2024	896	2203	22	2	2	954	97	24
17 Jan 2024	896	2203	22	2	2	954	97	24
18 Jan 2024	896	2203	22	2	2	954	97	24
19 Jan 2024	896	2203	22	2	2	954	97	24
20 Jan 2024	896	2203	22	2	2	954	97	24
21 Jan 2024	896	2203	22	2	2	954	97	24
22 Jan 2024	1075	1570	35	2	2	952	69	40
23 Jan 2024	1075	2203	92	9	4	952	163	104
24 Jan 2024	1462	2203	92	9	4	1315	163	104
25 Jan 2024	1462	2203	92	9	4	1315	163	104
26 Jan 2024	1462	2203	92	9	4	1315	163	104
27 Jan 2024	1462	2203	92	9	4	1315	163	104
28 Jan 2024	1462	2203	92	9	4	1315	163	104
29 Jan 2024	1462	2203	92	9	4	1315	163	104
30 Jan 2024	921	2115	116	8	4	2867	192	136
31 Jan 2024	921	2115	116	8	4	2867	192	136

* Geometric mean calculated using n<5

Table 2.4

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Jan 2024	*12000	*6900	*30	*11	*30	*6100	*4630	*20
02 Jan 2024	9000	13000	40	20	20	10000	9200	20
03 Jan 2024	9000	13000	40	20	20	10000	9200	20
04 Jan 2024	*8300	*14500	*2320	*20	*30	*6100	*9600	*310
05 Jan 2024	*8300	*14500	*2320	*20	*30	*6100	*9600	*310
06 Jan 2024	*8300	*14500	*2320	*20	*30	*6100	*9600	*310
07 Jan 2024	*8300	*14500	*2320	*20	*30	*6100	*9600	*310
08 Jan 2024	*8300	*14500	*2320	*20	*30	*6100	*9600	*310
09 Jan 2024	9000	16000	160	20	20	10000	9200	20
10 Jan 2024	*12000	*14500	*2380	*11	*20	*8600	*5600	*310
11 Jan 2024	*12000	*14500	*2380	*11	*20	*8600	*5600	*310
12 Jan 2024	*12000	*14500	*2380	*11	*20	*8600	*5600	*310
13 Jan 2024	*12000	*14500	*2380	*11	*20	*8600	*5600	*310
14 Jan 2024	*12000	*14500	*2380	*11	*20	*8600	*5600	*310
15 Jan 2024	*12000	*14500	*2380	*11	*20	*8600	*5600	*310
16 Jan 2024	15000	16000	160	2	20	15000	1200	240
17 Jan 2024	15000	16000	160	2	20	15000	1200	240
18 Jan 2024	*15000	*16000	*100	*2	*16	*15500	*630	*130
19 Jan 2024	*15000	*16000	*100	*2	*16	*15500	*630	*130
20 Jan 2024	*15000	*16000	*100	*2	*16	*15500	*630	*130
21 Jan 2024	*15000	*16000	*100	*2	*16	*15500	*630	*130
22 Jan 2024	*15000	*16000	*100	*2	*16	*15500	*630	*130
23 Jan 2024	*15000	16000	160	2	20	*15500	1200	240
24 Jan 2024	15000	16000	160	2	20	16000	1200	240
25 Jan 2024	*15500	*16000	*3580	*11	*16	*16000	*7100	*2920
26 Jan 2024	*15500	*16000	*3580	*11	*16	*16000	*7100	*2920
27 Jan 2024	*15500	*16000	*3580	*11	*16	*16000	*7100	*2920
28 Jan 2024	*15500	*16000	*3580	*11	*16	*16000	*7100	*2920
29 Jan 2024	*15500	*16000	*3580	*11	*16	*16000	*7100	*2920
30 Jan 2024	15000	16000	7000	2	12	16000	13000	4800
31 Jan 2024	15000	16000	7000	2	12	16000	13000	4800

* Median calculated using n<5

Table 2.6

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of water quality parameters at the SBOO shore stations for each sample date. Densities of fecal coliform (Fecal) and *Enterococcus* (Entero) are reported as CFU/100 mL. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero
S10	02 Jan 2024	831	>16000	>12000	>12000
S10	09 Jan 2024	810	15000	2000e	840
S10	16 Jan 2024	849	>16000	>12000	>12000
S10	24 Jan 2024	835	>16000	6600	6600
S10	30 Jan 2024	837	>16000	>12000	5800
S11	02 Jan 2024	1013	13000	2600e	480
S11	09 Jan 2024	926	1200	240e	70
S11	16 Jan 2024	1030	36e	20e	2e
S11	23 Jan 2024	1012	>16000	12000	>12000
S11	30 Jan 2024	1014	>16000	1800e	900
S12	02 Jan 2024	1056	5600	420	72
S12	09 Jan 2024	947	2e	2e	6e
S12	16 Jan 2024	1100	240e	20e	42
S12	23 Jan 2024	1038	14000	9200	12000
S12	30 Jan 2024	1041	4800	300e	360e
S4	02 Jan 2024	813	7600	1400e	600
S4	09 Jan 2024	824	15000	2800e	800
S4	16 Jan 2024	904	>16000	11000	1800e
S4	24 Jan 2024	845	>16000	8600	6800
S4	30 Jan 2024	852	12000	860	200e
S5	02 Jan 2024	949	>16000	>12000	>12000
S5	09 Jan 2024	909	>16000	>12000	>12000
S5	16 Jan 2024	1010	>16000	2200e	1800e
S5	23 Jan 2024	936	>16000	>12000	>12000
S5	30 Jan 2024	953	>16000	1600e	720
S6	02 Jan 2024	1027	7000	900	200e
S6	09 Jan 2024	936	160e	36e	12e
S6	16 Jan 2024	1041	40e	2e	2e
S6	23 Jan 2024	1023	11000	>12000	>12000
S6	30 Jan 2024	1027	>16000	1800e	740
S8	02 Jan 2024	1115	<20	<2	<2
S8	09 Jan 2024	1004	<2	<2	<2
S8	16 Jan 2024	1116	2e	<2	<2
S8	23 Jan 2024	1054	>16000	10000	8200
S8	30 Jan 2024	1105	<2	<2	2e
S9	02 Jan 2024	1132	<20	<2	<2
S9	09 Jan 2024	1021	12e	8e	2e
S9	16 Jan 2024	1133	<2	<2	<2
S9	23 Jan 2024	1112	380e	46	36e
S9	30 Jan 2024	1125	4e	<2	2e

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S0	09 Jan 2024			S0 not collected on Jan 9th
S10	23 Jan 2024			S4 and S10 were not sampled due to being inaccessible; sampled instead on Jan 24.
S4	23 Jan 2024			S4 and S10 were not sampled due to being inaccessible; sampled instead on Jan 24.

Table 2.8

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

Station	Date	Parameter	Value
S10	02 Jan 2024	Arrive Time	831
S10	02 Jan 2024	Weather	Sunny
S10	02 Jan 2024	Wind Speed (kts)	1.2
S10	02 Jan 2024	Wind Dir	W
S10	02 Jan 2024	Animal Life	
S10	02 Jan 2024	Floatables	Foam
S10	02 Jan 2024	Water Color	Green
S10	02 Jan 2024	Current Direction	S
S10	02 Jan 2024	Water Temp (C)	13
S10	02 Jan 2024	Wave Height (ft)	4
S10	02 Jan 2024	High Tide (ft)	3.69
S10	02 Jan 2024	High Tide Time	144
S10	02 Jan 2024	Low Tide (ft)	2.54
S10	02 Jan 2024	Low Tide Time	711
S10	02 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
S10	09 Jan 2024	Arrive Time	810
S10	09 Jan 2024	Weather	Hazy
S10	09 Jan 2024	Wind Speed (kts)	1.3
S10	09 Jan 2024	Wind Dir	E
S10	09 Jan 2024	Animal Life	
S10	09 Jan 2024	Floatables	None
S10	09 Jan 2024	Water Color	Green
S10	09 Jan 2024	Current Direction	S
S10	09 Jan 2024	Water Temp (C)	11
S10	09 Jan 2024	Wave Height (ft)	5
S10	09 Jan 2024	High Tide (ft)	6.04
S10	09 Jan 2024	High Tide Time	645
S10	09 Jan 2024	Low Tide (ft)	2.23
S10	09 Jan 2024	Low Tide Time	26
S10	09 Jan 2024	Comments	Water clear; Trash-2; Seagrass;Kelp;Debris
S10	16 Jan 2024	Arrive Time	849
S10	16 Jan 2024	Weather	Foggy
S10	16 Jan 2024	Wind Speed (kts)	4.8
S10	16 Jan 2024	Wind Dir	NW
S10	16 Jan 2024	Animal Life	
S10	16 Jan 2024	Floatables	None
S10	16 Jan 2024	Water Color	Green
S10	16 Jan 2024	Current Direction	S
S10	16 Jan 2024	Water Temp (C)	9
S10	16 Jan 2024	Wave Height (ft)	3
S10	16 Jan 2024	High Tide (ft)	4.45
S10	16 Jan 2024	High Tide Time	50
S10	16 Jan 2024	Low Tide (ft)	1.65
S10	16 Jan 2024	Low Tide Time	645
S10	16 Jan 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris; Sewage-like odor
S10	24 Jan 2024	Arrive Time	835
S10	24 Jan 2024	Weather	Cloudy
S10	24 Jan 2024	Wind Speed (kts)	2.3
S10	24 Jan 2024	Wind Dir	W
S10	24 Jan 2024	Animal Life	Bird-10;
S10	24 Jan 2024	Floatables	Foam
S10	24 Jan 2024	Water Color	Green

Station	Date	Parameter	Value
S10	24 Jan 2024	Current Direction	S
S10	24 Jan 2024	Water Temp (C)	13
S10	24 Jan 2024	Wave Height (ft)	5
S10	24 Jan 2024	High Tide (ft)	5.82
S10	24 Jan 2024	High Tide Time	744
S10	24 Jan 2024	Low Tide (ft)	2.03
S10	24 Jan 2024	Low Tide Time	142
S10	24 Jan 2024	Comments	Water clear; Surfer/Paddle boarder-1; Trash-3; Kelp;Sea-grass;Algae;Debris; Unaccessible on 1/23
S10	30 Jan 2024	Arrive Time	837
S10	30 Jan 2024	Weather	Hazy
S10	30 Jan 2024	Wind Speed (kts)	0.9
S10	30 Jan 2024	Wind Dir	W
S10	30 Jan 2024	Animal Life	Bird-1;
S10	30 Jan 2024	Floatables	None
S10	30 Jan 2024	Water Color	Green
S10	30 Jan 2024	Current Direction	S
S10	30 Jan 2024	Water Temp (C)	14
S10	30 Jan 2024	Wave Height (ft)	5
S10	30 Jan 2024	High Tide (ft)	4.05
S10	30 Jan 2024	High Tide Time	1058
S10	30 Jan 2024	Low Tide (ft)	1.76
S10	30 Jan 2024	Low Tide Time	522
S10	30 Jan 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S11	02 Jan 2024	Arrive Time	1013
S11	02 Jan 2024	Weather	Sunny
S11	02 Jan 2024	Wind Speed (kts)	5
S11	02 Jan 2024	Wind Dir	W
S11	02 Jan 2024	Animal Life	
S11	02 Jan 2024	Floatables	None
S11	02 Jan 2024	Water Color	Green
S11	02 Jan 2024	Current Direction	S
S11	02 Jan 2024	Water Temp (C)	13
S11	02 Jan 2024	Wave Height (ft)	3
S11	02 Jan 2024	High Tide (ft)	3.69
S11	02 Jan 2024	High Tide Time	144
S11	02 Jan 2024	Low Tide (ft)	2.54
S11	02 Jan 2024	Low Tide Time	711
S11	02 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
S11	09 Jan 2024	Arrive Time	926
S11	09 Jan 2024	Weather	Sunny
S11	09 Jan 2024	Wind Speed (kts)	5.4
S11	09 Jan 2024	Wind Dir	E
S11	09 Jan 2024	Animal Life	
S11	09 Jan 2024	Floatables	None
S11	09 Jan 2024	Water Color	Green
S11	09 Jan 2024	Current Direction	S
S11	09 Jan 2024	Water Temp (C)	12
S11	09 Jan 2024	Wave Height (ft)	6
S11	09 Jan 2024	High Tide (ft)	6.04
S11	09 Jan 2024	High Tide Time	645
S11	09 Jan 2024	Low Tide (ft)	2.23
S11	09 Jan 2024	Low Tide Time	26
S11	09 Jan 2024	Comments	Water clear; Trash-1; Kelp;Debris
S11	16 Jan 2024	Arrive Time	1030
S11	16 Jan 2024	Weather	Partly cloudy
S11	16 Jan 2024	Wind Speed (kts)	6.1

Station	Date	Parameter	Value
S11	16 Jan 2024	Wind Dir	NW
S11	16 Jan 2024	Animal Life	
S11	16 Jan 2024	Floatables	None
S11	16 Jan 2024	Water Color	Green
S11	16 Jan 2024	Current Direction	S
S11	16 Jan 2024	Water Temp (C)	12
S11	16 Jan 2024	Wave Height (ft)	4
S11	16 Jan 2024	High Tide (ft)	4.45
S11	16 Jan 2024	High Tide Time	50
S11	16 Jan 2024	Low Tide (ft)	1.65
S11	16 Jan 2024	Low Tide Time	645
S11	16 Jan 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S11	23 Jan 2024	Arrive Time	1012
S11	23 Jan 2024	Weather	Cloudy
S11	23 Jan 2024	Wind Speed (kts)	4.6
S11	23 Jan 2024	Wind Dir	W
S11	23 Jan 2024	Animal Life	
S11	23 Jan 2024	Floatables	None
S11	23 Jan 2024	Water Color	Green
S11	23 Jan 2024	Current Direction	S
S11	23 Jan 2024	Water Temp (C)	16
S11	23 Jan 2024	Wave Height (ft)	3
S11	23 Jan 2024	High Tide (ft)	5.77
S11	23 Jan 2024	High Tide Time	706
S11	23 Jan 2024	Low Tide (ft)	2.18
S11	23 Jan 2024	Low Tide Time	100
S11	23 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S11	30 Jan 2024	Arrive Time	1014
S11	30 Jan 2024	Weather	Sunny
S11	30 Jan 2024	Wind Speed (kts)	4
S11	30 Jan 2024	Wind Dir	NW
S11	30 Jan 2024	Animal Life	
S11	30 Jan 2024	Floatables	None
S11	30 Jan 2024	Water Color	Green
S11	30 Jan 2024	Current Direction	S
S11	30 Jan 2024	Water Temp (C)	15
S11	30 Jan 2024	Wave Height (ft)	6
S11	30 Jan 2024	High Tide (ft)	4.05
S11	30 Jan 2024	High Tide Time	1058
S11	30 Jan 2024	Low Tide (ft)	1.76
S11	30 Jan 2024	Low Tide Time	522
S11	30 Jan 2024	Comments	Water clear; Trash-1; Kelp;Debris
S12	02 Jan 2024	Arrive Time	1056
S12	02 Jan 2024	Weather	Sunny
S12	02 Jan 2024	Wind Speed (kts)	2.6
S12	02 Jan 2024	Wind Dir	W
S12	02 Jan 2024	Animal Life	
S12	02 Jan 2024	Floatables	None
S12	02 Jan 2024	Water Color	Green
S12	02 Jan 2024	Current Direction	S
S12	02 Jan 2024	Water Temp (C)	16
S12	02 Jan 2024	Wave Height (ft)	3
S12	02 Jan 2024	High Tide (ft)	3.69
S12	02 Jan 2024	High Tide Time	144
S12	02 Jan 2024	Low Tide (ft)	2.54
S12	02 Jan 2024	Low Tide Time	711
S12	02 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Sewage-like odor

Station	Date	Parameter	Value
S12	09 Jan 2024	Arrive Time	947
S12	09 Jan 2024	Weather	Sunny
S12	09 Jan 2024	Wind Speed (kts)	2.6
S12	09 Jan 2024	Wind Dir	E
S12	09 Jan 2024	Animal Life	Dog-1;
S12	09 Jan 2024	Floatables	None
S12	09 Jan 2024	Water Color	Green
S12	09 Jan 2024	Current Direction	S
S12	09 Jan 2024	Water Temp (C)	12
S12	09 Jan 2024	Wave Height (ft)	5
S12	09 Jan 2024	High Tide (ft)	6.04
S12	09 Jan 2024	High Tide Time	645
S12	09 Jan 2024	Low Tide (ft)	2.23
S12	09 Jan 2024	Low Tide Time	26
S12	09 Jan 2024	Comments	Water turbid; Trash-2; Kelp; Person/Walker/Jogger-3
S12	16 Jan 2024	Arrive Time	1100
S12	16 Jan 2024	Weather	Sunny
S12	16 Jan 2024	Wind Speed (kts)	5.8
S12	16 Jan 2024	Wind Dir	W
S12	16 Jan 2024	Animal Life	
S12	16 Jan 2024	Floatables	None
S12	16 Jan 2024	Water Color	Green
S12	16 Jan 2024	Current Direction	S
S12	16 Jan 2024	Water Temp (C)	9
S12	16 Jan 2024	Wave Height (ft)	4
S12	16 Jan 2024	High Tide (ft)	4.45
S12	16 Jan 2024	High Tide Time	50
S12	16 Jan 2024	Low Tide (ft)	1.65
S12	16 Jan 2024	Low Tide Time	645
S12	16 Jan 2024	Comments	Water clear; Trash-3; Kelp; Seagrass; Debris
S12	23 Jan 2024	Arrive Time	1038
S12	23 Jan 2024	Weather	Cloudy
S12	23 Jan 2024	Wind Speed (kts)	4.5
S12	23 Jan 2024	Wind Dir	W
S12	23 Jan 2024	Animal Life	
S12	23 Jan 2024	Floatables	None; Foam
S12	23 Jan 2024	Water Color	Green
S12	23 Jan 2024	Current Direction	S
S12	23 Jan 2024	Water Temp (C)	14
S12	23 Jan 2024	Wave Height (ft)	3
S12	23 Jan 2024	High Tide (ft)	5.77
S12	23 Jan 2024	High Tide Time	706
S12	23 Jan 2024	Low Tide (ft)	2.18
S12	23 Jan 2024	Low Tide Time	100
S12	23 Jan 2024	Comments	Water clear; Trash-1
S12	30 Jan 2024	Arrive Time	1041
S12	30 Jan 2024	Weather	Sunny
S12	30 Jan 2024	Wind Speed (kts)	3.1
S12	30 Jan 2024	Wind Dir	W
S12	30 Jan 2024	Animal Life	
S12	30 Jan 2024	Floatables	None
S12	30 Jan 2024	Water Color	Green
S12	30 Jan 2024	Current Direction	S
S12	30 Jan 2024	Water Temp (C)	15
S12	30 Jan 2024	Wave Height (ft)	5
S12	30 Jan 2024	High Tide (ft)	4.05
S12	30 Jan 2024	High Tide Time	1058
S12	30 Jan 2024	Low Tide (ft)	1.76

Station	Date	Parameter	Value
S12	30 Jan 2024	Low Tide Time	522
S12	30 Jan 2024	Comments	Water clear; Trash-1; Debris
S4	02 Jan 2024	Arrive Time	813
S4	02 Jan 2024	Weather	Sunny
S4	02 Jan 2024	Wind Speed (kts)	3.1
S4	02 Jan 2024	Wind Dir	W
S4	02 Jan 2024	Animal Life	
S4	02 Jan 2024	Floatables	None
S4	02 Jan 2024	Water Color	Green
S4	02 Jan 2024	Current Direction	S
S4	02 Jan 2024	Water Temp (C)	10
S4	02 Jan 2024	Wave Height (ft)	4
S4	02 Jan 2024	High Tide (ft)	3.69
S4	02 Jan 2024	High Tide Time	144
S4	02 Jan 2024	Low Tide (ft)	2.54
S4	02 Jan 2024	Low Tide Time	711
S4	02 Jan 2024	Comments	Water clear; Trash-1; Seagrass;Kelp
S4	09 Jan 2024	Arrive Time	824
S4	09 Jan 2024	Weather	Hazy
S4	09 Jan 2024	Wind Speed (kts)	0.6
S4	09 Jan 2024	Wind Dir	E
S4	09 Jan 2024	Animal Life	
S4	09 Jan 2024	Floatables	None
S4	09 Jan 2024	Water Color	Green
S4	09 Jan 2024	Current Direction	S
S4	09 Jan 2024	Water Temp (C)	9
S4	09 Jan 2024	Wave Height (ft)	5
S4	09 Jan 2024	High Tide (ft)	6.04
S4	09 Jan 2024	High Tide Time	645
S4	09 Jan 2024	Low Tide (ft)	2.23
S4	09 Jan 2024	Low Tide Time	26
S4	09 Jan 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S4	16 Jan 2024	Arrive Time	904
S4	16 Jan 2024	Weather	Foggy
S4	16 Jan 2024	Wind Speed (kts)	5.5
S4	16 Jan 2024	Wind Dir	W
S4	16 Jan 2024	Animal Life	
S4	16 Jan 2024	Floatables	None
S4	16 Jan 2024	Water Color	Green
S4	16 Jan 2024	Current Direction	S
S4	16 Jan 2024	Water Temp (C)	11
S4	16 Jan 2024	Wave Height (ft)	4
S4	16 Jan 2024	High Tide (ft)	4.45
S4	16 Jan 2024	High Tide Time	50
S4	16 Jan 2024	Low Tide (ft)	1.65
S4	16 Jan 2024	Low Tide Time	645
S4	16 Jan 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris; Sewage-like odor
S4	24 Jan 2024	Arrive Time	845
S4	24 Jan 2024	Weather	Hazy
S4	24 Jan 2024	Wind Speed (kts)	2.7
S4	24 Jan 2024	Wind Dir	W
S4	24 Jan 2024	Animal Life	
S4	24 Jan 2024	Floatables	None
S4	24 Jan 2024	Water Color	Green
S4	24 Jan 2024	Current Direction	S
S4	24 Jan 2024	Water Temp (C)	9

Station	Date	Parameter	Value
S4	24 Jan 2024	Wave Height (ft)	6
S4	24 Jan 2024	High Tide (ft)	5.82
S4	24 Jan 2024	High Tide Time	744
S4	24 Jan 2024	Low Tide (ft)	2.03
S4	24 Jan 2024	Low Tide Time	142
S4	24 Jan 2024	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris; Unaccessible on 1/23
S4	30 Jan 2024	Arrive Time	852
S4	30 Jan 2024	Weather	Hazy
S4	30 Jan 2024	Wind Speed (kts)	1.1
S4	30 Jan 2024	Wind Dir	W
S4	30 Jan 2024	Animal Life	
S4	30 Jan 2024	Floatables	None
S4	30 Jan 2024	Water Color	Green
S4	30 Jan 2024	Current Direction	S
S4	30 Jan 2024	Water Temp (C)	13
S4	30 Jan 2024	Wave Height (ft)	5
S4	30 Jan 2024	High Tide (ft)	4.05
S4	30 Jan 2024	High Tide Time	1058
S4	30 Jan 2024	Low Tide (ft)	1.76
S4	30 Jan 2024	Low Tide Time	522
S4	30 Jan 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S5	02 Jan 2024	Arrive Time	949
S5	02 Jan 2024	Weather	Sunny
S5	02 Jan 2024	Wind Speed (kts)	4.8
S5	02 Jan 2024	Wind Dir	W
S5	02 Jan 2024	Animal Life	
S5	02 Jan 2024	Floatables	None
S5	02 Jan 2024	Water Color	Green
S5	02 Jan 2024	Current Direction	S
S5	02 Jan 2024	Water Temp (C)	14
S5	02 Jan 2024	Wave Height (ft)	4
S5	02 Jan 2024	High Tide (ft)	3.69
S5	02 Jan 2024	High Tide Time	144
S5	02 Jan 2024	Low Tide (ft)	2.54
S5	02 Jan 2024	Low Tide Time	711
S5	02 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S5	09 Jan 2024	Arrive Time	909
S5	09 Jan 2024	Weather	Sunny
S5	09 Jan 2024	Wind Speed (kts)	3.5
S5	09 Jan 2024	Wind Dir	E
S5	09 Jan 2024	Animal Life	
S5	09 Jan 2024	Floatables	None
S5	09 Jan 2024	Water Color	Green
S5	09 Jan 2024	Current Direction	S
S5	09 Jan 2024	Water Temp (C)	9
S5	09 Jan 2024	Wave Height (ft)	4
S5	09 Jan 2024	High Tide (ft)	6.04
S5	09 Jan 2024	High Tide Time	645
S5	09 Jan 2024	Low Tide (ft)	2.23
S5	09 Jan 2024	Low Tide Time	26
S5	09 Jan 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S5	16 Jan 2024	Arrive Time	1010
S5	16 Jan 2024	Weather	Partly cloudy
S5	16 Jan 2024	Wind Speed (kts)	6.2
S5	16 Jan 2024	Wind Dir	NW
S5	16 Jan 2024	Animal Life	

Station	Date	Parameter	Value
S5	16 Jan 2024	Floatables	None
S5	16 Jan 2024	Water Color	Green
S5	16 Jan 2024	Current Direction	S
S5	16 Jan 2024	Water Temp (C)	16
S5	16 Jan 2024	Wave Height (ft)	4
S5	16 Jan 2024	High Tide (ft)	4.45
S5	16 Jan 2024	High Tide Time	50
S5	16 Jan 2024	Low Tide (ft)	1.65
S5	16 Jan 2024	Low Tide Time	645
S5	16 Jan 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S5	23 Jan 2024	Arrive Time	936
S5	23 Jan 2024	Weather	Cloudy
S5	23 Jan 2024	Wind Speed (kts)	0.9
S5	23 Jan 2024	Wind Dir	W
S5	23 Jan 2024	Animal Life	
S5	23 Jan 2024	Floatables	Foam
S5	23 Jan 2024	Water Color	Brown
S5	23 Jan 2024	Current Direction	S
S5	23 Jan 2024	Water Temp (C)	13
S5	23 Jan 2024	Wave Height (ft)	2
S5	23 Jan 2024	High Tide (ft)	5.77
S5	23 Jan 2024	High Tide Time	706
S5	23 Jan 2024	Low Tide (ft)	2.18
S5	23 Jan 2024	Low Tide Time	100
S5	23 Jan 2024	Comments	Water turbid; Trash-1; Kelp;Seagrass;Debris
S5	30 Jan 2024	Arrive Time	953
S5	30 Jan 2024	Weather	Sunny
S5	30 Jan 2024	Wind Speed (kts)	3.6
S5	30 Jan 2024	Wind Dir	NW
S5	30 Jan 2024	Animal Life	
S5	30 Jan 2024	Floatables	None
S5	30 Jan 2024	Water Color	Green
S5	30 Jan 2024	Current Direction	S
S5	30 Jan 2024	Water Temp (C)	13
S5	30 Jan 2024	Wave Height (ft)	4
S5	30 Jan 2024	High Tide (ft)	4.05
S5	30 Jan 2024	High Tide Time	1058
S5	30 Jan 2024	Low Tide (ft)	1.76
S5	30 Jan 2024	Low Tide Time	522
S5	30 Jan 2024	Comments	Water clear; Trash-2; Kelp
S6	02 Jan 2024	Arrive Time	1027
S6	02 Jan 2024	Weather	Sunny
S6	02 Jan 2024	Wind Speed (kts)	3.3
S6	02 Jan 2024	Wind Dir	W
S6	02 Jan 2024	Animal Life	
S6	02 Jan 2024	Floatables	None
S6	02 Jan 2024	Water Color	Green
S6	02 Jan 2024	Current Direction	S
S6	02 Jan 2024	Water Temp (C)	16
S6	02 Jan 2024	Wave Height (ft)	5
S6	02 Jan 2024	High Tide (ft)	3.69
S6	02 Jan 2024	High Tide Time	144
S6	02 Jan 2024	Low Tide (ft)	2.54
S6	02 Jan 2024	Low Tide Time	711
S6	02 Jan 2024	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Person/Walker/Jogger-2
S6	09 Jan 2024	Arrive Time	936

Station	Date	Parameter	Value
S6	09 Jan 2024	Weather	Sunny
S6	09 Jan 2024	Wind Speed (kts)	4.7
S6	09 Jan 2024	Wind Dir	E
S6	09 Jan 2024	Animal Life	
S6	09 Jan 2024	Floatables	None
S6	09 Jan 2024	Water Color	Green
S6	09 Jan 2024	Current Direction	S
S6	09 Jan 2024	Water Temp (C)	11
S6	09 Jan 2024	Wave Height (ft)	5
S6	09 Jan 2024	High Tide (ft)	6.04
S6	09 Jan 2024	High Tide Time	645
S6	09 Jan 2024	Low Tide (ft)	2.23
S6	09 Jan 2024	Low Tide Time	26
S6	09 Jan 2024	Comments	Water clear; Trash-2; Kelp;Algae; Person/Walker/Jogger-3
S6	16 Jan 2024	Arrive Time	1041
S6	16 Jan 2024	Weather	Sunny
S6	16 Jan 2024	Wind Speed (kts)	7.8
S6	16 Jan 2024	Wind Dir	NW
S6	16 Jan 2024	Animal Life	
S6	16 Jan 2024	Floatables	None
S6	16 Jan 2024	Water Color	Green
S6	16 Jan 2024	Current Direction	S
S6	16 Jan 2024	Water Temp (C)	10
S6	16 Jan 2024	Wave Height (ft)	5
S6	16 Jan 2024	High Tide (ft)	4.45
S6	16 Jan 2024	High Tide Time	50
S6	16 Jan 2024	Low Tide (ft)	1.65
S6	16 Jan 2024	Low Tide Time	645
S6	16 Jan 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris
S6	23 Jan 2024	Arrive Time	1023
S6	23 Jan 2024	Weather	Cloudy
S6	23 Jan 2024	Wind Speed (kts)	6.5
S6	23 Jan 2024	Wind Dir	W
S6	23 Jan 2024	Animal Life	
S6	23 Jan 2024	Floatables	None
S6	23 Jan 2024	Water Color	Green
S6	23 Jan 2024	Current Direction	S
S6	23 Jan 2024	Water Temp (C)	15
S6	23 Jan 2024	Wave Height (ft)	4
S6	23 Jan 2024	High Tide (ft)	5.77
S6	23 Jan 2024	High Tide Time	706
S6	23 Jan 2024	Low Tide (ft)	2.18
S6	23 Jan 2024	Low Tide Time	100
S6	23 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
S6	30 Jan 2024	Arrive Time	1027
S6	30 Jan 2024	Weather	Sunny
S6	30 Jan 2024	Wind Speed (kts)	1.9
S6	30 Jan 2024	Wind Dir	W
S6	30 Jan 2024	Animal Life	
S6	30 Jan 2024	Floatables	None
S6	30 Jan 2024	Water Color	Green
S6	30 Jan 2024	Current Direction	S
S6	30 Jan 2024	Water Temp (C)	16
S6	30 Jan 2024	Wave Height (ft)	6
S6	30 Jan 2024	High Tide (ft)	4.05
S6	30 Jan 2024	High Tide Time	1058
S6	30 Jan 2024	Low Tide (ft)	1.76
S6	30 Jan 2024	Low Tide Time	522

Station	Date	Parameter	Value
S6	30 Jan 2024	Comments	Water clear; Surfer/Paddle boarder-3; Trash-1; Kelp;Algae; Person/Walker/Jogger-1
S8	02 Jan 2024	Arrive Time	1115
S8	02 Jan 2024	Weather	Sunny
S8	02 Jan 2024	Wind Speed (kts)	2.9
S8	02 Jan 2024	Wind Dir	W
S8	02 Jan 2024	Animal Life	
S8	02 Jan 2024	Floatables	None
S8	02 Jan 2024	Water Color	Green
S8	02 Jan 2024	Current Direction	S
S8	02 Jan 2024	Water Temp (C)	16
S8	02 Jan 2024	Wave Height (ft)	3
S8	02 Jan 2024	High Tide (ft)	3.69
S8	02 Jan 2024	High Tide Time	144
S8	02 Jan 2024	Low Tide (ft)	2.54
S8	02 Jan 2024	Low Tide Time	711
S8	02 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S8	09 Jan 2024	Arrive Time	1004
S8	09 Jan 2024	Weather	Sunny
S8	09 Jan 2024	Wind Speed (kts)	1.2
S8	09 Jan 2024	Wind Dir	E
S8	09 Jan 2024	Animal Life	
S8	09 Jan 2024	Floatables	None
S8	09 Jan 2024	Water Color	Green
S8	09 Jan 2024	Current Direction	S
S8	09 Jan 2024	Water Temp (C)	13
S8	09 Jan 2024	Wave Height (ft)	4
S8	09 Jan 2024	High Tide (ft)	6.04
S8	09 Jan 2024	High Tide Time	645
S8	09 Jan 2024	Low Tide (ft)	2.23
S8	09 Jan 2024	Low Tide Time	26
S8	09 Jan 2024	Comments	Water clear; Trash-2; Kelp
S8	16 Jan 2024	Arrive Time	1116
S8	16 Jan 2024	Weather	Sunny
S8	16 Jan 2024	Wind Speed (kts)	8.3
S8	16 Jan 2024	Wind Dir	W
S8	16 Jan 2024	Animal Life	Dolphin-3;
S8	16 Jan 2024	Floatables	None
S8	16 Jan 2024	Water Color	Green
S8	16 Jan 2024	Current Direction	S
S8	16 Jan 2024	Water Temp (C)	12
S8	16 Jan 2024	Wave Height (ft)	4
S8	16 Jan 2024	High Tide (ft)	4.45
S8	16 Jan 2024	High Tide Time	50
S8	16 Jan 2024	Low Tide (ft)	1.65
S8	16 Jan 2024	Low Tide Time	645
S8	16 Jan 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S8	23 Jan 2024	Arrive Time	1054
S8	23 Jan 2024	Weather	Cloudy
S8	23 Jan 2024	Wind Speed (kts)	5.5
S8	23 Jan 2024	Wind Dir	W
S8	23 Jan 2024	Animal Life	
S8	23 Jan 2024	Floatables	None
S8	23 Jan 2024	Water Color	Green
S8	23 Jan 2024	Current Direction	S
S8	23 Jan 2024	Water Temp (C)	17
S8	23 Jan 2024	Wave Height (ft)	2

Station	Date	Parameter	Value
S8	23 Jan 2024	High Tide (ft)	5.77
S8	23 Jan 2024	High Tide Time	706
S8	23 Jan 2024	Low Tide (ft)	2.18
S8	23 Jan 2024	Low Tide Time	100
S8	23 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S8	30 Jan 2024	Arrive Time	1105
S8	30 Jan 2024	Weather	Sunny
S8	30 Jan 2024	Wind Speed (kts)	2.1
S8	30 Jan 2024	Wind Dir	W
S8	30 Jan 2024	Animal Life	
S8	30 Jan 2024	Floatables	None
S8	30 Jan 2024	Water Color	Green
S8	30 Jan 2024	Current Direction	S
S8	30 Jan 2024	Water Temp (C)	15
S8	30 Jan 2024	Wave Height (ft)	5
S8	30 Jan 2024	High Tide (ft)	4.05
S8	30 Jan 2024	High Tide Time	1058
S8	30 Jan 2024	Low Tide (ft)	1.76
S8	30 Jan 2024	Low Tide Time	522
S8	30 Jan 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S9	02 Jan 2024	Arrive Time	1132
S9	02 Jan 2024	Weather	Sunny
S9	02 Jan 2024	Wind Speed (kts)	2.7
S9	02 Jan 2024	Wind Dir	W
S9	02 Jan 2024	Animal Life	
S9	02 Jan 2024	Floatables	None
S9	02 Jan 2024	Water Color	Green
S9	02 Jan 2024	Current Direction	S
S9	02 Jan 2024	Water Temp (C)	15
S9	02 Jan 2024	Wave Height (ft)	3
S9	02 Jan 2024	High Tide (ft)	3.69
S9	02 Jan 2024	High Tide Time	144
S9	02 Jan 2024	Low Tide (ft)	2.54
S9	02 Jan 2024	Low Tide Time	711
S9	02 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S9	09 Jan 2024	Arrive Time	1021
S9	09 Jan 2024	Weather	Sunny
S9	09 Jan 2024	Wind Speed (kts)	1.2
S9	09 Jan 2024	Wind Dir	SE
S9	09 Jan 2024	Animal Life	
S9	09 Jan 2024	Floatables	None
S9	09 Jan 2024	Water Color	Green
S9	09 Jan 2024	Current Direction	S
S9	09 Jan 2024	Water Temp (C)	12
S9	09 Jan 2024	Wave Height (ft)	4
S9	09 Jan 2024	High Tide (ft)	6.04
S9	09 Jan 2024	High Tide Time	645
S9	09 Jan 2024	Low Tide (ft)	2.23
S9	09 Jan 2024	Low Tide Time	26
S9	09 Jan 2024	Comments	Water clear; Trash-1; Kelp;Algae
S9	16 Jan 2024	Arrive Time	1133
S9	16 Jan 2024	Weather	Sunny
S9	16 Jan 2024	Wind Speed (kts)	4.6
S9	16 Jan 2024	Wind Dir	W
S9	16 Jan 2024	Animal Life	
S9	16 Jan 2024	Floatables	None

Station	Date	Parameter	Value
S9	16 Jan 2024	Water Color	Green
S9	16 Jan 2024	Current Direction	S
S9	16 Jan 2024	Water Temp (C)	10
S9	16 Jan 2024	Wave Height (ft)	4
S9	16 Jan 2024	High Tide (ft)	4.45
S9	16 Jan 2024	High Tide Time	50
S9	16 Jan 2024	Low Tide (ft)	1.65
S9	16 Jan 2024	Low Tide Time	645
S9	16 Jan 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae;Debris; -1
S9	23 Jan 2024	Arrive Time	1112
S9	23 Jan 2024	Weather	Cloudy
S9	23 Jan 2024	Wind Speed (kts)	2.6
S9	23 Jan 2024	Wind Dir	W
S9	23 Jan 2024	Animal Life	
S9	23 Jan 2024	Floatables	None
S9	23 Jan 2024	Water Color	Green
S9	23 Jan 2024	Current Direction	S
S9	23 Jan 2024	Water Temp (C)	14
S9	23 Jan 2024	Wave Height (ft)	2
S9	23 Jan 2024	High Tide (ft)	5.77
S9	23 Jan 2024	High Tide Time	706
S9	23 Jan 2024	Low Tide (ft)	2.18
S9	23 Jan 2024	Low Tide Time	100
S9	23 Jan 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S9	30 Jan 2024	Arrive Time	1125
S9	30 Jan 2024	Weather	Sunny
S9	30 Jan 2024	Wind Speed (kts)	15
S9	30 Jan 2024	Wind Dir	W
S9	30 Jan 2024	Animal Life	
S9	30 Jan 2024	Floatables	None
S9	30 Jan 2024	Water Color	Green
S9	30 Jan 2024	Current Direction	S
S9	30 Jan 2024	Water Temp (C)	15
S9	30 Jan 2024	Wave Height (ft)	5
S9	30 Jan 2024	High Tide (ft)	4.05
S9	30 Jan 2024	High Tide Time	1058
S9	30 Jan 2024	Low Tide (ft)	1.76
S9	30 Jan 2024	Low Tide Time	522
S9	30 Jan 2024	Comments	Water clear; Trash-1; Algae; Person/Walker/Jogger-2

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Kelp Stations

Table 3.1

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2024	*665	*83	*2	*4	*7	*3	*112
02 Jan 2024	756	125	7	10	9	7	197
03 Jan 2024	756	125	7	10	9	7	197
04 Jan 2024	*491	*104	*9	*14	*14	*7	*152
05 Jan 2024	*491	*104	*9	*14	*14	*7	*152
06 Jan 2024	*491	*104	*9	*14	*14	*7	*152
07 Jan 2024	*491	*104	*9	*14	*14	*7	*152
08 Jan 2024	*491	*104	*9	*14	*14	*7	*152
09 Jan 2024	564	73	7	10	9	5	281
10 Jan 2024	*734	*168	*9	*15	*14	*7	*275
11 Jan 2024	*734	*168	*9	*15	*14	*7	*275
12 Jan 2024	*734	*168	*9	*15	*14	*7	*275
13 Jan 2024	*734	*168	*9	*15	*14	*7	*275
14 Jan 2024	*734	*168	*9	*15	*14	*7	*275
15 Jan 2024	*734	*168	*9	*15	*14	*7	*275
16 Jan 2024	*734	*168	*9	*15	*14	*7	*275
17 Jan 2024	*1076	*343	*46	*8	*4	*7	*439
18 Jan 2024	*1076	240	*46	*8	*4	*7	*439
19 Jan 2024	*1076	240	*46	*8	*4	*7	*439
20 Jan 2024	*1076	240	*46	*8	*4	*7	*439
21 Jan 2024	*1076	240	*46	*8	*4	*7	*439
22 Jan 2024	*1076	240	*46	*8	*4	*7	*439
23 Jan 2024	*1076	240	*46	*8	*4	*7	*439
24 Jan 2024	1169	363	101	25	14	16	692
25 Jan 2024	*1461	412	*271	*47	*23	*26	*2776
26 Jan 2024	*1461	412	*271	*47	*23	*26	*2776
27 Jan 2024	*1461	412	*271	*47	*23	*26	*2776
28 Jan 2024	*1461	412	*271	*47	*23	*26	*2776
29 Jan 2024	*1461	412	*271	*47	*23	*26	*2776
30 Jan 2024	1153	505	399	113	42	45	2680
31 Jan 2024	1153	505	399	113	42	45	2680

* Geometric mean calculated using n<5

Table 3.2

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

Date	I19	I24	I25	I26	I32	I39	I40
02 Jan 2024	E	E	E	E	IC	E	E
09 Jan 2024	E	IC	IC	IC	IC	IC	E
17 Jan 2024	E	E	E	IC	IC	IC	E
18 Jan 2024	ns	IC	ns	ns	ns	ns	ns
24 Jan 2024	E	E	E	E	E	E	E
30 Jan 2024	E	E	E	E	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Jan 2024	185	30	5	6	10	2	145
02 Jan 2024	163	65	9	11	11	4	103
03 Jan 2024	163	65	9	11	11	4	103
04 Jan 2024	163	65	9	11	11	4	103
05 Jan 2024	163	65	9	11	11	4	103
06 Jan 2024	163	65	9	11	11	4	103
07 Jan 2024	163	65	9	11	11	4	103
08 Jan 2024	163	65	9	11	11	4	103
09 Jan 2024	312	51	4	5	6	4	145
10 Jan 2024	312	51	4	5	6	4	145
11 Jan 2024	312	51	4	5	6	4	145
12 Jan 2024	312	51	4	5	6	4	145
13 Jan 2024	312	51	4	5	6	4	145
14 Jan 2024	312	51	4	5	6	4	145
15 Jan 2024	312	51	4	5	6	4	145
16 Jan 2024	210	44	5	7	7	5	150
17 Jan 2024	227	90	10	5	6	4	207
18 Jan 2024	227	75	10	5	6	4	207
19 Jan 2024	227	75	10	5	6	4	207
20 Jan 2024	227	75	10	5	6	4	207
21 Jan 2024	227	75	10	5	6	4	207
22 Jan 2024	264	136	13	7	7	5	232
23 Jan 2024	264	136	13	7	7	5	232
24 Jan 2024	337	204	30	19	19	10	383
25 Jan 2024	337	204	30	19	19	10	383
26 Jan 2024	337	204	30	19	19	10	383
27 Jan 2024	337	204	30	19	19	10	383
28 Jan 2024	337	204	30	19	19	10	383
29 Jan 2024	374	199	45	19	11	13	470
30 Jan 2024	310	187	59	32	19	17	432
31 Jan 2024	310	187	59	32	19	17	432

* Geometric mean calculated using n<5

Table 3.4

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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

Date	119		124		125		126		132		139		140	
	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m
01 Jan 2024	*3050	*2900	*830	*1775	*828	*3	*5	*14	*20	*13	*2	*2	*1500	*495
02 Jan 2024	5000	4400	1600	2400	1600	4	6	20	20	20	2	2	1800	880
03 Jan 2024	5000	4400	1600	2400	1600	2	6	6	20	20	2	2	1800	880
04 Jan 2024	*3050	*2900	*3430	*1275	*1228	4	*13	*59	*80	*29	*2	*2	*1900	*495
05 Jan 2024	*3050	*2900	*3430	*1275	*1228	4	*13	*59	*80	*29	*2	*2	*1900	*495
06 Jan 2024	*3050	*2900	*3430	*1275	*1228	4	*13	*59	*80	*29	*2	*2	*1900	*495
07 Jan 2024	*3050	*2900	*3430	*1275	*1228	4	*13	*59	*80	*29	*2	*2	*1900	*495
08 Jan 2024	*3050	*2900	*3430	*1275	*1228	4	*13	*59	*80	*29	*2	*2	*1900	*495
09 Jan 2024	5000	4400	60	150	300	2	6	8	20	20	2	2	2600	880
10 Jan 2024	5000	5500	*3430	*1275	*1350	4	*5	*57	*80	*22	*2	*2	*6300	*2155
11 Jan 2024	5000	5500	*3430	*1275	*1350	4	*5	*57	*80	*22	*2	*2	*6300	*2155
12 Jan 2024	5000	5500	*3430	*1275	*1350	4	*5	*57	*80	*22	*2	*2	*6300	*2155
13 Jan 2024	5000	5500	*3430	*1275	*1350	4	*5	*57	*80	*22	*2	*2	*6300	*2155
14 Jan 2024	5000	5500	*3430	*1275	*1350	4	*5	*57	*80	*22	*2	*2	*6300	*2155
15 Jan 2024	5000	5500	*3430	*1275	*1350	4	*5	*57	*80	*22	*2	*2	*6300	*2155
16 Jan 2024	5000	5500	*3430	*1275	*1350	4	*5	*57	*80	*22	*2	*2	*6300	*2155
17 Jan 2024	*5900	*5500	*3830	*2700	*2400	*4201	*242	*22	*3	*20	*17	*2	*13000	*2700
18 Jan 2024	*5900	*5500	*3830	*2700	*1380	*4201	*242	*11	*4	*22	*3	*2	*13000	*2700
19 Jan 2024	*5900	*5500	*3830	*2700	*1380	*4201	*242	*11	*4	*22	*3	*2	*13000	*2700
20 Jan 2024	*5900	*5500	*3830	*2700	*1380	*4201	*242	*11	*4	*22	*3	*2	*13000	*2700
21 Jan 2024	*5900	*5500	*3830	*2700	*1380	*4201	*242	*11	*4	*22	*3	*2	*13000	*2700
22 Jan 2024	*5900	*5500	*3830	*2700	*1380	*4201	*242	*11	*4	*22	*3	*2	*13000	*2700
23 Jan 2024	*5900	*5500	*3830	*2700	*1380	*4201	*242	*11	*4	*22	*3	*2	*13000	*2700
24 Jan 2024	6800	6600	7600	3000	2400	8400	480	40	20	28	2	2	16000	4200
25 Jan 2024	*8400	*7300	*11800	*2700	*1380	*8600	*940	*570	*80	*33	*141	*401	*16000	*5500
26 Jan 2024	*8400	*7300	*11800	*2700	*1380	*8600	*940	*570	*80	*33	*141	*401	*16000	*5500
27 Jan 2024	*8400	*7300	*11800	*2700	*1380	*8600	*940	*570	*80	*33	*141	*401	*16000	*5500
28 Jan 2024	*8400	*7300	*11800	*2700	*1380	*8600	*940	*570	*80	*33	*141	*401	*16000	*5500
29 Jan 2024	*8400	*7300	*11800	*2700	*1380	*8600	*940	*570	*80	*33	*141	*401	*16000	*5500
30 Jan 2024	6800	6600	15000	2400	1200	8800	1400	1100	140	38	180	800	16000	4200
31 Jan 2024	6800	6600	15000	2400	1200	8800	1400	1100	140	38	180	800	16000	2000

* Median calculated using n<5

Table 3.6

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; 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	Entero
119	02 Jan 2024	1145	2	5000	2600e	1000
119	02 Jan 2024	1145	6	6600	1100	200e
119	02 Jan 2024	1145	11	1200	100e	72
119	09 Jan 2024	1132	2	10000	1000	340e
119	09 Jan 2024	1132	6	12000	1800e	560
119	09 Jan 2024	1132	11	>16000	140e	540
119	17 Jan 2024	1024	2	6800	6400	860
119	17 Jan 2024	1024	6	3000e	280e	88
119	17 Jan 2024	1024	11	460	64	46
119	24 Jan 2024	1022	2	>16000	3600e	2200e
119	24 Jan 2024	1022	6	8000	1100	800
119	24 Jan 2024	1022	11	4400	200e	380e
119	30 Jan 2024	1035	2	600	80e	26e
119	30 Jan 2024	1035	6	4600	380e	120
119	30 Jan 2024	1035	11	8000	880	220e
124	02 Jan 2024	1204	2	7600	900	320e
124	02 Jan 2024	1204	6	2400e	760	180e
124	02 Jan 2024	1204	11	2400e	280e	120e
124	09 Jan 2024	1155	2	56	8e	4e
124	09 Jan 2024	1155	6	120e	18e	12e
124	09 Jan 2024	1155	11	300e	28e	20e
124	17 Jan 2024	1043	2	>16000	>12000	6200
124	17 Jan 2024	1043	6	3000e	340e	44
124	18 Jan 2024		11	360e	58	24e
124	24 Jan 2024	1045	2	>16000	5000	2400e
124	24 Jan 2024	1045	6	14000	1000e	1800e
124	24 Jan 2024	1045	11	>16000	2600e	2600e
124	30 Jan 2024	1053	2	15000	3800e	260e
124	30 Jan 2024	1053	6	760	160e	40e
124	30 Jan 2024	1053	11	1200	220e	78
125	02 Jan 2024	1211	2	8800	1200e	140e
125	02 Jan 2024	1211	6	1400e	620	40e
125	02 Jan 2024	1211	9	1400e	400	110
125	09 Jan 2024	1201	2	<2	<2	2e
125	09 Jan 2024	1201	6	12e	<2	<2
125	09 Jan 2024	1201	9	2e	<2	<2
125	17 Jan 2024	1054	2	8400	4000	460
125	17 Jan 2024	1054	6	600	380e	88

Station	Date	Time	Depth	Total	Fecal	Entero
I25	17 Jan 2024	1054	9	480	160e	44
I25	24 Jan 2024	1048	2	>16000	2600e	1600e
I25	24 Jan 2024	1048	6	>16000	2000e	1400e
I25	24 Jan 2024	1048	9	>16000	2600e	2600e
I25	30 Jan 2024	1101	2	>16000	5400	500
I25	30 Jan 2024	1101	6	840	110	72
I25	30 Jan 2024	1101	9	1500	120e	70
I26	02 Jan 2024	1223	2	3600e	580	140e
I26	02 Jan 2024	1223	6	660	40e	16e
I26	02 Jan 2024	1223	9	1100	480	100
I26	09 Jan 2024	1211	2	<2	<2	<2
I26	09 Jan 2024	1211	6	2e	2e	<2
I26	09 Jan 2024	1211	9	2e	4e	<2
I26	17 Jan 2024	1103	2	<20	2e	<2
I26	17 Jan 2024	1103	6	2e	<2	<2
I26	17 Jan 2024	1103	9	40e	<2	<2
I26	24 Jan 2024	1056	2	14000	3000e	2400e
I26	24 Jan 2024	1056	6	>16000	2200e	3000e
I26	24 Jan 2024	1056	9	>16000	2600e	5800
I26	30 Jan 2024	1111	2	7200	2200e	36e
I26	30 Jan 2024	1111	6	15000	4000	460
I26	30 Jan 2024	1111	9	>16000	4800	820
I32	02 Jan 2024	1235	2	260e	18e	12e
I32	02 Jan 2024	1235	6	140e	66	<2
I32	02 Jan 2024	1235	9	38e	10e	2e
I32	09 Jan 2024	1225	2	<2	<2	<2
I32	09 Jan 2024	1225	6	6e	<2	4e
I32	09 Jan 2024	1225	9	6e	<2	<2
I32	17 Jan 2024	1116	2	4e	<2	<2
I32	17 Jan 2024	1116	6	<20	<2	<2
I32	17 Jan 2024	1116	9	28e	<2	2e
I32	24 Jan 2024	1111	2	9800	2400e	2800e
I32	24 Jan 2024	1111	6	11000	1400e	2000e
I32	24 Jan 2024	1111	9	>16000	2800e	3800e
I32	30 Jan 2024	1122	2	4400	400	96
I32	30 Jan 2024	1122	6	4000	520	340e
I32	30 Jan 2024	1122	9	5200	480	520
I39	02 Jan 2024	1121	2	280e	34e	20e
I39	02 Jan 2024	1121	12	800	260e	160e
I39	02 Jan 2024	1121	18	2000e	580	240e
I39	09 Jan 2024	1110	2	<2	<2	<2
I39	09 Jan 2024	1110	12	<2	<2	<2
I39	09 Jan 2024	1110	18	6e	<2	<2
I39	17 Jan 2024	1001	2	2e	<2	<2
I39	17 Jan 2024	1001	12	2e	<2	<2
I39	17 Jan 2024	1001	18	42	<2	<2

Station	Date	Time	Depth	Total	Fecal	Enteroc
I39	24 Jan 2024	1001	2	13000	940	600
I39	24 Jan 2024	1001	12	860	120e	160e
I39	24 Jan 2024	1001	18	1000	140e	300e
I39	30 Jan 2024	1016	2	180e	6e	<2
I39	30 Jan 2024	1016	12	4400	620	90
I39	30 Jan 2024	1016	18	4600	580	100
I40	02 Jan 2024	1158	2	10000	4000	1000e
I40	02 Jan 2024	1158	6	4200	900	300e
I40	02 Jan 2024	1158	9	1000e	800	240e
I40	09 Jan 2024	1146	2	>16000	8800	5600
I40	09 Jan 2024	1146	6	6800	900	200e
I40	09 Jan 2024	1146	9	2000e	200e	92
I40	17 Jan 2024	1036	2	>16000	6400	3000e
I40	17 Jan 2024	1036	6	1200e	120e	46
I40	17 Jan 2024	1036	9	1800e	140e	80
I40	24 Jan 2024	1033	2	>16000	5600	5000
I40	24 Jan 2024	1033	6	>16000	4200	5200
I40	24 Jan 2024	1033	9	>16000	3000e	3800e
I40	30 Jan 2024	1046	2	>16000	6800	600
I40	30 Jan 2024	1046	6	1000	110	74
I40	30 Jan 2024	1046	9	3000e	80e	180e

ns = not sampled
ND = no data

Table 3.8

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

Station	Date	Parameter	Value
119	02 Jan 2024	Depth (m)	12
119	02 Jan 2024	Arrive Time	1145
119	02 Jan 2024	Depart Time	1148
119	02 Jan 2024	Air Temp (C)	15.8
119	02 Jan 2024	Weather	Clear
119	02 Jan 2024	Visibility (mi)	11
119	02 Jan 2024	Wind Speed (kts)	3.6
119	02 Jan 2024	Wind Dir	W
119	02 Jan 2024	Water Color	Brownish-Green
119	02 Jan 2024	Wave Height Low (ft)	6
119	02 Jan 2024	Wave Period (sec)	12
119	02 Jan 2024	Sea State	Light Chop
119	02 Jan 2024	High Tide (ft)	3.72
119	02 Jan 2024	High Tide Time	148
119	02 Jan 2024	Low Tide (ft)	1.02
119	02 Jan 2024	Low Tide Time	1912
119	02 Jan 2024	Comments	
119	09 Jan 2024	Depth (m)	10
119	09 Jan 2024	Arrive Time	1132
119	09 Jan 2024	Depart Time	1137
119	09 Jan 2024	Air Temp (C)	13.8
119	09 Jan 2024	Weather	Clear
119	09 Jan 2024	Visibility (mi)	10
119	09 Jan 2024	Wind Speed (kts)	7.2
119	09 Jan 2024	Wind Dir	W
119	09 Jan 2024	Water Color	Green
119	09 Jan 2024	Wave Height Low (ft)	4.9
119	09 Jan 2024	Wave Period (sec)	13
119	09 Jan 2024	Sea State	Regular Swell
119	09 Jan 2024	High Tide (ft)	6.18
119	09 Jan 2024	High Tide Time	642
119	09 Jan 2024	Low Tide (ft)	-1.22
119	09 Jan 2024	Low Tide Time	1412
119	09 Jan 2024	Comments	
119	17 Jan 2024	Depth (m)	11
119	17 Jan 2024	Arrive Time	1024
119	17 Jan 2024	Depart Time	1028
119	17 Jan 2024	Air Temp (C)	14.0
119	17 Jan 2024	Weather	Haze
119	17 Jan 2024	Visibility (mi)	7
119	17 Jan 2024	Wind Speed (kts)	4.9
119	17 Jan 2024	Wind Dir	SE
119	17 Jan 2024	Water Color	Brownish-Green
119	17 Jan 2024	Wave Height Low (ft)	4
119	17 Jan 2024	Wave Period (sec)	15
119	17 Jan 2024	Sea State	Regular Swell
119	17 Jan 2024	High Tide (ft)	4.71
119	17 Jan 2024	High Tide Time	148
119	17 Jan 2024	Low Tide (ft)	1.08
119	17 Jan 2024	Low Tide Time	1936
119	17 Jan 2024	Comments	Super glassy
119	24 Jan 2024	Depth (m)	11
119	24 Jan 2024	Arrive Time	1022

Station	Date	Parameter	Value
I19	24 Jan 2024	Depart Time	1026
I19	24 Jan 2024	Air Temp (C)	14.8
I19	24 Jan 2024	Weather	Partly Cloudy
I19	24 Jan 2024	Visibility (mi)	11
I19	24 Jan 2024	Wind Speed (kts)	14.8
I19	24 Jan 2024	Wind Dir	S
I19	24 Jan 2024	Water Color	Brownish-Green
I19	24 Jan 2024	Wave Height Low (ft)	6.2
I19	24 Jan 2024	Wave Period (sec)	17
I19	24 Jan 2024	Sea State	Confused Swell
I19	24 Jan 2024	High Tide (ft)	5.93
I19	24 Jan 2024	High Tide Time	742
I19	24 Jan 2024	Low Tide (ft)	-1.05
I19	24 Jan 2024	Low Tide Time	1500
I19	24 Jan 2024	Comments	
I19	30 Jan 2024	Depth (m)	11
I19	30 Jan 2024	Arrive Time	1035
I19	30 Jan 2024	Depart Time	1041
I19	30 Jan 2024	Air Temp (C)	18
I19	30 Jan 2024	Weather	Clear
I19	30 Jan 2024	Visibility (mi)	15
I19	30 Jan 2024	Wind Speed (kts)	0
I19	30 Jan 2024	Wind Dir	
I19	30 Jan 2024	Water Color	Blueish-Green
I19	30 Jan 2024	Wave Height Low (ft)	4
I19	30 Jan 2024	Wave Period (sec)	12
I19	30 Jan 2024	Sea State	Regular Swell
I19	30 Jan 2024	High Tide (ft)	4.11
I19	30 Jan 2024	High Tide Time	1054
I19	30 Jan 2024	Low Tide (ft)	0.67
I19	30 Jan 2024	Low Tide Time	1724
I19	30 Jan 2024	Comments	
I24	02 Jan 2024	Depth (m)	11
I24	02 Jan 2024	Arrive Time	1204
I24	02 Jan 2024	Depart Time	1209
I24	02 Jan 2024	Air Temp (C)	15.6
I24	02 Jan 2024	Weather	Clear
I24	02 Jan 2024	Visibility (mi)	11
I24	02 Jan 2024	Wind Speed (kts)	11.4
I24	02 Jan 2024	Wind Dir	W
I24	02 Jan 2024	Water Color	Brownish-Green
I24	02 Jan 2024	Wave Height Low (ft)	6
I24	02 Jan 2024	Wave Period (sec)	12
I24	02 Jan 2024	Sea State	Light Chop
I24	02 Jan 2024	High Tide (ft)	3.72
I24	02 Jan 2024	High Tide Time	148
I24	02 Jan 2024	Low Tide (ft)	1.02
I24	02 Jan 2024	Low Tide Time	1912
I24	02 Jan 2024	Comments	
I24	09 Jan 2024	Depth (m)	10
I24	09 Jan 2024	Arrive Time	1155
I24	09 Jan 2024	Depart Time	1200
I24	09 Jan 2024	Air Temp (C)	14.0
I24	09 Jan 2024	Weather	Clear
I24	09 Jan 2024	Visibility (mi)	10
I24	09 Jan 2024	Wind Speed (kts)	5.2
I24	09 Jan 2024	Wind Dir	W
I24	09 Jan 2024	Water Color	Green

Station	Date	Parameter	Value
I24	09 Jan 2024	Wave Height Low (ft)	4.9
I24	09 Jan 2024	Wave Period (sec)	13
I24	09 Jan 2024	Sea State	Regular Swell
I24	09 Jan 2024	High Tide (ft)	6.18
I24	09 Jan 2024	High Tide Time	642
I24	09 Jan 2024	Low Tide (ft)	-1.22
I24	09 Jan 2024	Low Tide Time	1412
I24	09 Jan 2024	Comments	
I24	17 Jan 2024	Depth (m)	10
I24	17 Jan 2024	Arrive Time	1043
I24	17 Jan 2024	Depart Time	1052
I24	17 Jan 2024	Air Temp (C)	14.0
I24	17 Jan 2024	Weather	Haze
I24	17 Jan 2024	Visibility (mi)	7
I24	17 Jan 2024	Wind Speed (kts)	6.7
I24	17 Jan 2024	Wind Dir	NW
I24	17 Jan 2024	Water Color	Brownish-Green
I24	17 Jan 2024	Wave Height Low (ft)	4
I24	17 Jan 2024	Wave Period (sec)	15
I24	17 Jan 2024	Sea State	Regular Swell
I24	17 Jan 2024	High Tide (ft)	4.71
I24	17 Jan 2024	High Tide Time	148
I24	17 Jan 2024	Low Tide (ft)	1.08
I24	17 Jan 2024	Low Tide Time	1936
I24	17 Jan 2024	Comments	
I24	24 Jan 2024	Depth (m)	10
I24	24 Jan 2024	Arrive Time	1045
I24	24 Jan 2024	Depart Time	1047
I24	24 Jan 2024	Air Temp (C)	15.0
I24	24 Jan 2024	Weather	Partly Cloudy
I24	24 Jan 2024	Visibility (mi)	11
I24	24 Jan 2024	Wind Speed (kts)	7.1
I24	24 Jan 2024	Wind Dir	SW
I24	24 Jan 2024	Water Color	Brownish-Green
I24	24 Jan 2024	Wave Height Low (ft)	6.2
I24	24 Jan 2024	Wave Period (sec)	17
I24	24 Jan 2024	Sea State	Confused Swell
I24	24 Jan 2024	High Tide (ft)	5.93
I24	24 Jan 2024	High Tide Time	742
I24	24 Jan 2024	Low Tide (ft)	-1.05
I24	24 Jan 2024	Low Tide Time	1500
I24	24 Jan 2024	Comments	
I24	30 Jan 2024	Depth (m)	10
I24	30 Jan 2024	Arrive Time	1053
I24	30 Jan 2024	Depart Time	1058
I24	30 Jan 2024	Air Temp (C)	18
I24	30 Jan 2024	Weather	Clear
I24	30 Jan 2024	Visibility (mi)	15
I24	30 Jan 2024	Wind Speed (kts)	3
I24	30 Jan 2024	Wind Dir	210
I24	30 Jan 2024	Water Color	Blueish-Green
I24	30 Jan 2024	Wave Height Low (ft)	4
I24	30 Jan 2024	Wave Period (sec)	12
I24	30 Jan 2024	Sea State	Regular Swell
I24	30 Jan 2024	High Tide (ft)	4.11
I24	30 Jan 2024	High Tide Time	1054
I24	30 Jan 2024	Low Tide (ft)	0.67
I24	30 Jan 2024	Low Tide Time	1724

Station	Date	Parameter	Value
I24	30 Jan 2024	Comments	
I25	02 Jan 2024	Depth (m)	10
I25	02 Jan 2024	Arrive Time	1211
I25	02 Jan 2024	Depart Time	1215
I25	02 Jan 2024	Air Temp (C)	15.6
I25	02 Jan 2024	Weather	Clear
I25	02 Jan 2024	Visibility (mi)	11
I25	02 Jan 2024	Wind Speed (kts)	10.1
I25	02 Jan 2024	Wind Dir	W
I25	02 Jan 2024	Water Color	Brownish-Green
I25	02 Jan 2024	Wave Height Low (ft)	6
I25	02 Jan 2024	Wave Period (sec)	12
I25	02 Jan 2024	Sea State	Light Chop
I25	02 Jan 2024	High Tide (ft)	3.72
I25	02 Jan 2024	High Tide Time	148
I25	02 Jan 2024	Low Tide (ft)	1.02
I25	02 Jan 2024	Low Tide Time	1912
I25	02 Jan 2024	Comments	
I25	09 Jan 2024	Depth (m)	8
I25	09 Jan 2024	Arrive Time	1201
I25	09 Jan 2024	Depart Time	1206
I25	09 Jan 2024	Air Temp (C)	14.0
I25	09 Jan 2024	Weather	Clear
I25	09 Jan 2024	Visibility (mi)	10
I25	09 Jan 2024	Wind Speed (kts)	5.3
I25	09 Jan 2024	Wind Dir	W
I25	09 Jan 2024	Water Color	Green
I25	09 Jan 2024	Wave Height Low (ft)	4.9
I25	09 Jan 2024	Wave Period (sec)	13
I25	09 Jan 2024	Sea State	Regular Swell
I25	09 Jan 2024	High Tide (ft)	6.18
I25	09 Jan 2024	High Tide Time	642
I25	09 Jan 2024	Low Tide (ft)	-1.22
I25	09 Jan 2024	Low Tide Time	1412
I25	09 Jan 2024	Comments	
I25	17 Jan 2024	Depth (m)	9
I25	17 Jan 2024	Arrive Time	1054
I25	17 Jan 2024	Depart Time	1057
I25	17 Jan 2024	Air Temp (C)	13.9
I25	17 Jan 2024	Weather	Haze
I25	17 Jan 2024	Visibility (mi)	7
I25	17 Jan 2024	Wind Speed (kts)	9.0
I25	17 Jan 2024	Wind Dir	NW
I25	17 Jan 2024	Water Color	Brownish-Green
I25	17 Jan 2024	Wave Height Low (ft)	4
I25	17 Jan 2024	Wave Period (sec)	15
I25	17 Jan 2024	Sea State	Regular Swell
I25	17 Jan 2024	High Tide (ft)	4.71
I25	17 Jan 2024	High Tide Time	148
I25	17 Jan 2024	Low Tide (ft)	1.08
I25	17 Jan 2024	Low Tide Time	1936
I25	17 Jan 2024	Comments	
I25	24 Jan 2024	Depth (m)	9
I25	24 Jan 2024	Arrive Time	1048
I25	24 Jan 2024	Depart Time	1051
I25	24 Jan 2024	Air Temp (C)	14.9
I25	24 Jan 2024	Weather	Overcast

Station	Date	Parameter	Value
I25	24 Jan 2024	Visibility (mi)	11
I25	24 Jan 2024	Wind Speed (kts)	5.7
I25	24 Jan 2024	Wind Dir	SW
I25	24 Jan 2024	Water Color	Brownish-Green
I25	24 Jan 2024	Wave Height Low (ft)	6.2
I25	24 Jan 2024	Wave Period (sec)	17
I25	24 Jan 2024	Sea State	Confused Swell
I25	24 Jan 2024	High Tide (ft)	5.93
I25	24 Jan 2024	High Tide Time	742
I25	24 Jan 2024	Low Tide (ft)	-1.05
I25	24 Jan 2024	Low Tide Time	1500
I25	24 Jan 2024	Comments	
I25	30 Jan 2024	Depth (m)	10
I25	30 Jan 2024	Arrive Time	1101
I25	30 Jan 2024	Depart Time	1106
I25	30 Jan 2024	Air Temp (C)	18
I25	30 Jan 2024	Weather	Clear
I25	30 Jan 2024	Visibility (mi)	15
I25	30 Jan 2024	Wind Speed (kts)	3
I25	30 Jan 2024	Wind Dir	200
I25	30 Jan 2024	Water Color	Blueish-Green
I25	30 Jan 2024	Wave Height Low (ft)	4
I25	30 Jan 2024	Wave Period (sec)	12
I25	30 Jan 2024	Sea State	Regular Swell
I25	30 Jan 2024	High Tide (ft)	4.11
I25	30 Jan 2024	High Tide Time	1054
I25	30 Jan 2024	Low Tide (ft)	0.67
I25	30 Jan 2024	Low Tide Time	1724
I25	30 Jan 2024	Comments	
I26	02 Jan 2024	Depth (m)	9
I26	02 Jan 2024	Arrive Time	1223
I26	02 Jan 2024	Depart Time	1226
I26	02 Jan 2024	Air Temp (C)	15.8
I26	02 Jan 2024	Weather	Clear
I26	02 Jan 2024	Visibility (mi)	11
I26	02 Jan 2024	Wind Speed (kts)	5.9
I26	02 Jan 2024	Wind Dir	W
I26	02 Jan 2024	Water Color	Brownish-Green
I26	02 Jan 2024	Wave Height Low (ft)	6
I26	02 Jan 2024	Wave Period (sec)	12
I26	02 Jan 2024	Sea State	Light Chop
I26	02 Jan 2024	High Tide (ft)	3.72
I26	02 Jan 2024	High Tide Time	148
I26	02 Jan 2024	Low Tide (ft)	1.02
I26	02 Jan 2024	Low Tide Time	1912
I26	02 Jan 2024	Comments	
I26	09 Jan 2024	Depth (m)	9
I26	09 Jan 2024	Arrive Time	1211
I26	09 Jan 2024	Depart Time	1215
I26	09 Jan 2024	Air Temp (C)	14.1
I26	09 Jan 2024	Weather	Clear
I26	09 Jan 2024	Visibility (mi)	10
I26	09 Jan 2024	Wind Speed (kts)	4.7
I26	09 Jan 2024	Wind Dir	W
I26	09 Jan 2024	Water Color	Green
I26	09 Jan 2024	Wave Height Low (ft)	4.9
I26	09 Jan 2024	Wave Period (sec)	13
I26	09 Jan 2024	Sea State	Regular Swell

Station	Date	Parameter	Value
I26	09 Jan 2024	High Tide (ft)	6.18
I26	09 Jan 2024	High Tide Time	642
I26	09 Jan 2024	Low Tide (ft)	-1.22
I26	09 Jan 2024	Low Tide Time	1412
I26	09 Jan 2024	Comments	
I26	17 Jan 2024	Depth (m)	9
I26	17 Jan 2024	Arrive Time	1103
I26	17 Jan 2024	Depart Time	1107
I26	17 Jan 2024	Air Temp (C)	13.8
I26	17 Jan 2024	Weather	Haze
I26	17 Jan 2024	Visibility (mi)	7
I26	17 Jan 2024	Wind Speed (kts)	8.8
I26	17 Jan 2024	Wind Dir	NW
I26	17 Jan 2024	Water Color	Brownish-Green
I26	17 Jan 2024	Wave Height Low (ft)	4
I26	17 Jan 2024	Wave Period (sec)	15
I26	17 Jan 2024	Sea State	Regular Swell
I26	17 Jan 2024	High Tide (ft)	4.71
I26	17 Jan 2024	High Tide Time	148
I26	17 Jan 2024	Low Tide (ft)	1.08
I26	17 Jan 2024	Low Tide Time	1936
I26	17 Jan 2024	Comments	
I26	24 Jan 2024	Depth (m)	10
I26	24 Jan 2024	Arrive Time	1056
I26	24 Jan 2024	Depart Time	1100
I26	24 Jan 2024	Air Temp (C)	15.0
I26	24 Jan 2024	Weather	Overcast
I26	24 Jan 2024	Visibility (mi)	11
I26	24 Jan 2024	Wind Speed (kts)	9.0
I26	24 Jan 2024	Wind Dir	SW
I26	24 Jan 2024	Water Color	Brownish-Green
I26	24 Jan 2024	Wave Height Low (ft)	6.2
I26	24 Jan 2024	Wave Period (sec)	17
I26	24 Jan 2024	Sea State	Confused Swell
I26	24 Jan 2024	High Tide (ft)	5.93
I26	24 Jan 2024	High Tide Time	742
I26	24 Jan 2024	Low Tide (ft)	-1.05
I26	24 Jan 2024	Low Tide Time	1500
I26	24 Jan 2024	Comments	
I26	30 Jan 2024	Depth (m)	10
I26	30 Jan 2024	Arrive Time	1111
I26	30 Jan 2024	Depart Time	1116
I26	30 Jan 2024	Air Temp (C)	18
I26	30 Jan 2024	Weather	Clear
I26	30 Jan 2024	Visibility (mi)	15
I26	30 Jan 2024	Wind Speed (kts)	1
I26	30 Jan 2024	Wind Dir	220
I26	30 Jan 2024	Water Color	Blueish-Green
I26	30 Jan 2024	Wave Height Low (ft)	4
I26	30 Jan 2024	Wave Period (sec)	12
I26	30 Jan 2024	Sea State	Regular Swell
I26	30 Jan 2024	High Tide (ft)	4.11
I26	30 Jan 2024	High Tide Time	1054
I26	30 Jan 2024	Low Tide (ft)	0.67
I26	30 Jan 2024	Low Tide Time	1724
I26	30 Jan 2024	Comments	
I32	02 Jan 2024	Depth (m)	10

Station	Date	Parameter	Value
I32	02 Jan 2024	Arrive Time	1235
I32	02 Jan 2024	Depart Time	1237
I32	02 Jan 2024	Air Temp (C)	15.7
I32	02 Jan 2024	Weather	Clear
I32	02 Jan 2024	Visibility (mi)	11
I32	02 Jan 2024	Wind Speed (kts)	4.4
I32	02 Jan 2024	Wind Dir	W
I32	02 Jan 2024	Water Color	Green
I32	02 Jan 2024	Wave Height Low (ft)	6
I32	02 Jan 2024	Wave Period (sec)	12
I32	02 Jan 2024	Sea State	Light Chop
I32	02 Jan 2024	High Tide (ft)	3.72
I32	02 Jan 2024	High Tide Time	148
I32	02 Jan 2024	Low Tide (ft)	1.02
I32	02 Jan 2024	Low Tide Time	1912
I32	02 Jan 2024	Comments	
I32	09 Jan 2024	Depth (m)	10
I32	09 Jan 2024	Arrive Time	1225
I32	09 Jan 2024	Depart Time	1228
I32	09 Jan 2024	Air Temp (C)	14.2
I32	09 Jan 2024	Weather	Clear
I32	09 Jan 2024	Visibility (mi)	10
I32	09 Jan 2024	Wind Speed (kts)	4.6
I32	09 Jan 2024	Wind Dir	W
I32	09 Jan 2024	Water Color	Green
I32	09 Jan 2024	Wave Height Low (ft)	4.9
I32	09 Jan 2024	Wave Period (sec)	13
I32	09 Jan 2024	Sea State	Regular Swell
I32	09 Jan 2024	High Tide (ft)	6.18
I32	09 Jan 2024	High Tide Time	642
I32	09 Jan 2024	Low Tide (ft)	-1.22
I32	09 Jan 2024	Low Tide Time	1412
I32	09 Jan 2024	Comments	
I32	17 Jan 2024	Depth (m)	10
I32	17 Jan 2024	Arrive Time	1116
I32	17 Jan 2024	Depart Time	1119
I32	17 Jan 2024	Air Temp (C)	13.8
I32	17 Jan 2024	Weather	Haze
I32	17 Jan 2024	Visibility (mi)	7
I32	17 Jan 2024	Wind Speed (kts)	9.9
I32	17 Jan 2024	Wind Dir	NW
I32	17 Jan 2024	Water Color	Brownish-Green
I32	17 Jan 2024	Wave Height Low (ft)	4
I32	17 Jan 2024	Wave Period (sec)	15
I32	17 Jan 2024	Sea State	Regular Swell
I32	17 Jan 2024	High Tide (ft)	4.71
I32	17 Jan 2024	High Tide Time	148
I32	17 Jan 2024	Low Tide (ft)	1.08
I32	17 Jan 2024	Low Tide Time	1936
I32	17 Jan 2024	Comments	
I32	24 Jan 2024	Depth (m)	10
I32	24 Jan 2024	Arrive Time	1111
I32	24 Jan 2024	Depart Time	1117
I32	24 Jan 2024	Air Temp (C)	15.1
I32	24 Jan 2024	Weather	Overcast
I32	24 Jan 2024	Visibility (mi)	11
I32	24 Jan 2024	Wind Speed (kts)	4.7
I32	24 Jan 2024	Wind Dir	W

Station	Date	Parameter	Value
I32	24 Jan 2024	Water Color	Brownish-Green
I32	24 Jan 2024	Wave Height Low (ft)	6.2
I32	24 Jan 2024	Wave Period (sec)	17
I32	24 Jan 2024	Sea State	Confused Swell
I32	24 Jan 2024	High Tide (ft)	5.93
I32	24 Jan 2024	High Tide Time	742
I32	24 Jan 2024	Low Tide (ft)	-1.05
I32	24 Jan 2024	Low Tide Time	1500
I32	24 Jan 2024	Comments	
I32	30 Jan 2024	Depth (m)	10
I32	30 Jan 2024	Arrive Time	1122
I32	30 Jan 2024	Depart Time	1134
I32	30 Jan 2024	Air Temp (C)	19
I32	30 Jan 2024	Weather	Clear
I32	30 Jan 2024	Visibility (mi)	15
I32	30 Jan 2024	Wind Speed (kts)	2
I32	30 Jan 2024	Wind Dir	230
I32	30 Jan 2024	Water Color	Blueish-Green
I32	30 Jan 2024	Wave Height Low (ft)	4
I32	30 Jan 2024	Wave Period (sec)	12
I32	30 Jan 2024	Sea State	Regular Swell
I32	30 Jan 2024	High Tide (ft)	4.11
I32	30 Jan 2024	High Tide Time	1054
I32	30 Jan 2024	Low Tide (ft)	0.67
I32	30 Jan 2024	Low Tide Time	1724
I32	30 Jan 2024	Comments	
I39	02 Jan 2024	Depth (m)	20
I39	02 Jan 2024	Arrive Time	1121
I39	02 Jan 2024	Depart Time	1125
I39	02 Jan 2024	Air Temp (C)	15.8
I39	02 Jan 2024	Weather	Clear
I39	02 Jan 2024	Visibility (mi)	11
I39	02 Jan 2024	Wind Speed (kts)	2.1
I39	02 Jan 2024	Wind Dir	N
I39	02 Jan 2024	Water Color	Greenish-Blue
I39	02 Jan 2024	Wave Height Low (ft)	6
I39	02 Jan 2024	Wave Period (sec)	12
I39	02 Jan 2024	Sea State	Light Chop
I39	02 Jan 2024	High Tide (ft)	3.72
I39	02 Jan 2024	High Tide Time	148
I39	02 Jan 2024	Low Tide (ft)	1.02
I39	02 Jan 2024	Low Tide Time	1912
I39	02 Jan 2024	Comments	
I39	09 Jan 2024	Depth (m)	18
I39	09 Jan 2024	Arrive Time	1110
I39	09 Jan 2024	Depart Time	1114
I39	09 Jan 2024	Air Temp (C)	14.1
I39	09 Jan 2024	Weather	Clear
I39	09 Jan 2024	Visibility (mi)	10
I39	09 Jan 2024	Wind Speed (kts)	1.5
I39	09 Jan 2024	Wind Dir	SW
I39	09 Jan 2024	Water Color	Greenish-Blue
I39	09 Jan 2024	Wave Height Low (ft)	4.9
I39	09 Jan 2024	Wave Period (sec)	13
I39	09 Jan 2024	Sea State	Regular Swell
I39	09 Jan 2024	High Tide (ft)	6.18
I39	09 Jan 2024	High Tide Time	642
I39	09 Jan 2024	Low Tide (ft)	-1.22

Station	Date	Parameter	Value
I39	09 Jan 2024	Low Tide Time	1412
I39	09 Jan 2024	Comments	
I39	17 Jan 2024	Depth (m)	18
I39	17 Jan 2024	Arrive Time	1001
I39	17 Jan 2024	Depart Time	1006
I39	17 Jan 2024	Air Temp (C)	13.4
I39	17 Jan 2024	Weather	Haze
I39	17 Jan 2024	Visibility (mi)	7
I39	17 Jan 2024	Wind Speed (kts)	7.3
I39	17 Jan 2024	Wind Dir	SE
I39	17 Jan 2024	Water Color	Greenish-Blue
I39	17 Jan 2024	Wave Height Low (ft)	4
I39	17 Jan 2024	Wave Period (sec)	15
I39	17 Jan 2024	Sea State	Regular Swell
I39	17 Jan 2024	High Tide (ft)	4.71
I39	17 Jan 2024	High Tide Time	148
I39	17 Jan 2024	Low Tide (ft)	1.08
I39	17 Jan 2024	Low Tide Time	1936
I39	17 Jan 2024	Comments	
I39	24 Jan 2024	Depth (m)	19
I39	24 Jan 2024	Arrive Time	1001
I39	24 Jan 2024	Depart Time	1005
I39	24 Jan 2024	Air Temp (C)	14.8
I39	24 Jan 2024	Weather	Partly Cloudy
I39	24 Jan 2024	Visibility (mi)	11
I39	24 Jan 2024	Wind Speed (kts)	7.3
I39	24 Jan 2024	Wind Dir	SW
I39	24 Jan 2024	Water Color	Brownish-Green
I39	24 Jan 2024	Wave Height Low (ft)	6.2
I39	24 Jan 2024	Wave Period (sec)	17
I39	24 Jan 2024	Sea State	Confused Swell
I39	24 Jan 2024	High Tide (ft)	5.93
I39	24 Jan 2024	High Tide Time	742
I39	24 Jan 2024	Low Tide (ft)	-1.05
I39	24 Jan 2024	Low Tide Time	1500
I39	24 Jan 2024	Comments	
I39	30 Jan 2024	Depth (m)	19
I39	30 Jan 2024	Arrive Time	1016
I39	30 Jan 2024	Depart Time	1020
I39	30 Jan 2024	Air Temp (C)	17
I39	30 Jan 2024	Weather	Clear
I39	30 Jan 2024	Visibility (mi)	15
I39	30 Jan 2024	Wind Speed (kts)	3
I39	30 Jan 2024	Wind Dir	30
I39	30 Jan 2024	Water Color	Blueish-Green
I39	30 Jan 2024	Wave Height Low (ft)	4
I39	30 Jan 2024	Wave Period (sec)	12
I39	30 Jan 2024	Sea State	Regular Swell
I39	30 Jan 2024	High Tide (ft)	4.11
I39	30 Jan 2024	High Tide Time	1054
I39	30 Jan 2024	Low Tide (ft)	0.67
I39	30 Jan 2024	Low Tide Time	1724
I39	30 Jan 2024	Comments	
I40	02 Jan 2024	Depth (m)	10
I40	02 Jan 2024	Arrive Time	1158
I40	02 Jan 2024	Depart Time	1200
I40	02 Jan 2024	Air Temp (C)	15.7

Station	Date	Parameter	Value
140	02 Jan 2024	Weather	Clear
140	02 Jan 2024	Visibility (mi)	11
140	02 Jan 2024	Wind Speed (kts)	4.1
140	02 Jan 2024	Wind Dir	W
140	02 Jan 2024	Water Color	Brownish-Green
140	02 Jan 2024	Wave Height Low (ft)	6
140	02 Jan 2024	Wave Period (sec)	12
140	02 Jan 2024	Sea State	Light Chop
140	02 Jan 2024	High Tide (ft)	3.72
140	02 Jan 2024	High Tide Time	148
140	02 Jan 2024	Low Tide (ft)	1.02
140	02 Jan 2024	Low Tide Time	1912
140	02 Jan 2024	Comments	
140	09 Jan 2024	Depth (m)	10
140	09 Jan 2024	Arrive Time	1146
140	09 Jan 2024	Depart Time	1152
140	09 Jan 2024	Air Temp (C)	13.9
140	09 Jan 2024	Weather	Clear
140	09 Jan 2024	Visibility (mi)	10
140	09 Jan 2024	Wind Speed (kts)	6.7
140	09 Jan 2024	Wind Dir	W
140	09 Jan 2024	Water Color	Green
140	09 Jan 2024	Wave Height Low (ft)	4.9
140	09 Jan 2024	Wave Period (sec)	13
140	09 Jan 2024	Sea State	Regular Swell
140	09 Jan 2024	High Tide (ft)	6.18
140	09 Jan 2024	High Tide Time	642
140	09 Jan 2024	Low Tide (ft)	-1.22
140	09 Jan 2024	Low Tide Time	1412
140	09 Jan 2024	Comments	Foul odor at station; Freshwater Lens
140	17 Jan 2024	Depth (m)	9
140	17 Jan 2024	Arrive Time	1036
140	17 Jan 2024	Depart Time	1040
140	17 Jan 2024	Air Temp (C)	14.0
140	17 Jan 2024	Weather	Haze
140	17 Jan 2024	Visibility (mi)	7
140	17 Jan 2024	Wind Speed (kts)	7.8
140	17 Jan 2024	Wind Dir	N
140	17 Jan 2024	Water Color	Brownish-Green
140	17 Jan 2024	Wave Height Low (ft)	4
140	17 Jan 2024	Wave Period (sec)	15
140	17 Jan 2024	Sea State	Regular Swell
140	17 Jan 2024	High Tide (ft)	4.71
140	17 Jan 2024	High Tide Time	148
140	17 Jan 2024	Low Tide (ft)	1.08
140	17 Jan 2024	Low Tide Time	1936
140	17 Jan 2024	Comments	
140	24 Jan 2024	Depth (m)	10
140	24 Jan 2024	Arrive Time	1033
140	24 Jan 2024	Depart Time	1038
140	24 Jan 2024	Air Temp (C)	14.8
140	24 Jan 2024	Weather	Partly Cloudy
140	24 Jan 2024	Visibility (mi)	11
140	24 Jan 2024	Wind Speed (kts)	6.4
140	24 Jan 2024	Wind Dir	W
140	24 Jan 2024	Water Color	Brownish-Green
140	24 Jan 2024	Wave Height Low (ft)	6.2
140	24 Jan 2024	Wave Period (sec)	17

Station	Date	Parameter	Value
I40	24 Jan 2024	Sea State	Confused Swell
I40	24 Jan 2024	High Tide (ft)	5.93
I40	24 Jan 2024	High Tide Time	742
I40	24 Jan 2024	Low Tide (ft)	-1.05
I40	24 Jan 2024	Low Tide Time	1500
I40	24 Jan 2024	Comments	
I40	30 Jan 2024	Depth (m)	10
I40	30 Jan 2024	Arrive Time	1046
I40	30 Jan 2024	Depart Time	1050
I40	30 Jan 2024	Air Temp (C)	18
I40	30 Jan 2024	Weather	Clear
I40	30 Jan 2024	Visibility (mi)	15
I40	30 Jan 2024	Wind Speed (kts)	2
I40	30 Jan 2024	Wind Dir	210
I40	30 Jan 2024	Water Color	Blueish-Green
I40	30 Jan 2024	Wave Height Low (ft)	4
I40	30 Jan 2024	Wave Period (sec)	12
I40	30 Jan 2024	Sea State	Regular Swell
I40	30 Jan 2024	High Tide (ft)	4.11
I40	30 Jan 2024	High Tide Time	1054
I40	30 Jan 2024	Low Tide (ft)	0.67
I40	30 Jan 2024	Low Tide Time	1724
I40	30 Jan 2024	Comments	

Comments

Station	Date	Depth	Parameter	Comments
I24	17 Jan 2024			I24-11m bottle was broken when brought to the lab. It was re-sampled on 1/18/24.

Table 3.9

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 (s-t)	Chlor (µg/L)
I19	02 Jan 2024	1	16.37	44.59	8.4	33.17	8.1	24.3	2.03
I19	02 Jan 2024	2	16.35	44.19	8.4	33.17	8.1	24.3	2.40
I19	02 Jan 2024	3	16.33	44.37	8.4	33.19	8.1	24.3	2.75
I19	02 Jan 2024	4	16.31	45.85	8.4	33.20	8.1	24.3	3.42
I19	02 Jan 2024	5	16.31	48.58	8.3	33.20	8.1	24.3	3.82
I19	02 Jan 2024	6	16.31	50.27	8.3	33.20	8.1	24.3	3.95
I19	02 Jan 2024	7	16.32	51.48	8.3	33.22	8.1	24.3	3.73
I19	02 Jan 2024	8	16.31	53.31	8.2	33.22	8.1	24.3	3.39
I19	02 Jan 2024	9	16.27	54.62	8.1	33.23	8.1	24.3	2.87
I19	02 Jan 2024	10	16.26	54.86	8.1	33.22	8.1	24.3	2.44
I19	09 Jan 2024	1	14.22	34.02	8.3	33.23	8.0	24.8	0.88
I19	09 Jan 2024	2	14.18	33.68	8.3	33.23	8.0	24.8	0.99
I19	09 Jan 2024	3	14.09	32.62	8.2	33.24	8.0	24.8	1.14
I19	09 Jan 2024	4	14.06	30.56	8.2	33.23	8.0	24.8	1.21
I19	09 Jan 2024	5	14.05	27.70	8.1	33.23	8.0	24.8	1.22
I19	09 Jan 2024	6	14.04	26.72	8.1	33.23	8.0	24.8	1.21
I19	09 Jan 2024	7	14.03	26.33	8.1	33.23	8.0	24.8	1.22
I19	09 Jan 2024	8	14.03	25.07	8.1	33.23	8.0	24.8	1.22
I19	09 Jan 2024	9	14.02	24.40	8.0	33.23	8.0	24.8	1.25
I19	09 Jan 2024	10	14.01	25.33	7.8	33.23	8.0	24.8	1.17
I19	17 Jan 2024	1	14.46	56.58	8.1	33.11	8.0	24.6	1.88
I19	17 Jan 2024	2	14.39	56.18	8.1	33.15	8.0	24.7	2.21
I19	17 Jan 2024	3	14.38	56.81	8.1	33.16	8.0	24.7	3.01
I19	17 Jan 2024	4	14.38	59.38	8.1	33.17	8.0	24.7	3.33
I19	17 Jan 2024	5	14.39	65.65	8.3	33.17	8.1	24.7	3.39
I19	17 Jan 2024	6	14.39	71.60	8.3	33.18	8.1	24.7	3.16
I19	17 Jan 2024	7	14.36	81.26	8.0	33.19	8.1	24.7	2.76
I19	17 Jan 2024	8	14.32	84.69	7.7	33.20	8.1	24.7	2.79
I19	17 Jan 2024	9	14.28	83.74	7.1	33.20	8.0	24.7	2.43
I19	17 Jan 2024	10	14.27	75.10	6.7	33.21	8.0	24.7	2.38
I19	24 Jan 2024	1	15.50	25.18	8.5	32.93	8.1	24.3	1.85
I19	24 Jan 2024	2	15.51	24.48	8.5	33.00	8.1	24.3	1.79
I19	24 Jan 2024	3	15.50	24.15	8.5	33.00	8.1	24.3	1.88
I19	24 Jan 2024	4	15.47	25.15	8.4	33.03	8.1	24.4	2.00
I19	24 Jan 2024	5	15.46	34.00	8.4	33.03	8.1	24.4	2.18
I19	24 Jan 2024	6	15.44	40.70	8.3	33.07	8.1	24.4	2.23
I19	24 Jan 2024	7	15.39	49.93	8.3	33.17	8.1	24.5	2.24
I19	24 Jan 2024	8	15.39	68.32	8.3	33.18	8.1	24.5	2.10
I19	24 Jan 2024	9	15.39	79.47	8.3	33.18	8.1	24.5	2.05
I19	24 Jan 2024	10	15.39	80.33	8.3	33.18	8.1	24.5	2.05
I19	30 Jan 2024	1	15.67	72.34	9.0	33.25	8.1	24.5	1.56
I19	30 Jan 2024	2	15.50	71.83	9.0	33.24	8.1	24.5	1.93
I19	30 Jan 2024	3	15.41	70.24	8.9	33.23	8.1	24.5	2.72
I19	30 Jan 2024	4	15.36	63.32	8.9	33.22	8.1	24.5	3.88
I19	30 Jan 2024	5	15.33	61.95	8.8	33.21	8.1	24.5	4.21
I19	30 Jan 2024	6	15.21	60.35	8.7	33.18	8.1	24.5	4.36
I19	30 Jan 2024	7	15.19	56.91	8.7	33.18	8.1	24.5	4.21
I19	30 Jan 2024	8	15.21	53.17	8.7	33.19	8.1	24.5	4.02
I19	30 Jan 2024	9	15.22	53.56	8.7	33.20	8.1	24.5	3.78
I19	30 Jan 2024	10	15.22	53.95	8.7	33.20	8.1	24.5	3.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I24	02 Jan 2024	1	16.58	56.26	8.6	32.97	8.1	24.1	1.50
I24	02 Jan 2024	2	16.45	65.02	8.6	33.15	8.2	24.2	1.70
I24	02 Jan 2024	3	16.38	67.32	8.5	33.22	8.2	24.3	1.91
I24	02 Jan 2024	4	16.35	72.03	8.4	33.22	8.1	24.3	2.10
I24	02 Jan 2024	5	16.35	73.14	8.3	33.23	8.1	24.3	2.25
I24	02 Jan 2024	6	16.34	71.70	8.1	33.23	8.1	24.3	2.12
I24	02 Jan 2024	7	16.33	68.99	7.9	33.23	8.1	24.3	1.73
I24	02 Jan 2024	8	16.33	61.23	7.9	33.23	8.1	24.3	1.81
I24	02 Jan 2024	9	16.32	54.15	7.7	33.24	8.1	24.3	1.69
I24	09 Jan 2024	1	14.39	63.96	7.5	33.27	8.0	24.8	0.61
I24	09 Jan 2024	2	14.38	63.12	7.5	33.27	8.0	24.8	0.67
I24	09 Jan 2024	3	14.27	62.03	7.5	33.28	8.0	24.8	0.89
I24	09 Jan 2024	4	14.22	57.59	7.5	33.27	8.0	24.8	1.25
I24	09 Jan 2024	5	14.22	53.33	7.6	33.27	8.0	24.8	1.41
I24	09 Jan 2024	6	14.19	50.57	7.6	33.27	8.0	24.8	1.37
I24	09 Jan 2024	7	14.18	46.30	7.6	33.27	8.0	24.8	1.45
I24	09 Jan 2024	8	14.18	45.00	7.6	33.27	8.0	24.8	1.38
I24	09 Jan 2024	9	14.18	43.43	7.6	33.27	8.0	24.8	1.38
I24	09 Jan 2024	10	14.18	43.09	7.6	33.27	8.0	24.8	1.37
I24	17 Jan 2024	1	14.63	57.31	8.5	32.93	8.1	24.5	2.44
I24	17 Jan 2024	2	14.66	57.84	8.5	32.91	8.1	24.4	2.59
I24	17 Jan 2024	3	14.64	58.36	8.5	33.08	8.1	24.6	3.10
I24	17 Jan 2024	4	14.60	60.00	8.3	33.19	8.1	24.7	3.42
I24	17 Jan 2024	5	14.46	68.49	7.7	33.21	8.1	24.7	2.90
I24	17 Jan 2024	6	14.42	76.27	7.3	33.21	8.0	24.7	2.39
I24	17 Jan 2024	7	14.38	73.80	7.0	33.20	8.0	24.7	2.27
I24	17 Jan 2024	8	14.32	64.42	6.7	33.20	8.0	24.7	2.21
I24	17 Jan 2024	9	14.31	53.10	6.6	33.20	8.0	24.7	2.14
I24	17 Jan 2024	10	14.32	52.59	6.6	33.20	8.0	24.7	2.18
I24	24 Jan 2024	1	15.37	14.27	8.2	32.88	8.1	24.3	1.40
I24	24 Jan 2024	2	15.36	14.40	8.2	32.89	8.1	24.3	1.52
I24	24 Jan 2024	3	15.24	13.05	8.1	32.98	8.1	24.4	1.64
I24	24 Jan 2024	4	15.28	15.68	8.1	33.09	8.1	24.4	1.79
I24	24 Jan 2024	5	15.24	32.30	8.1	33.17	8.1	24.5	1.85
I24	24 Jan 2024	6	15.22	39.10	8.0	33.18	8.1	24.5	1.66
I24	24 Jan 2024	7	15.21	36.44	8.0	33.18	8.1	24.5	1.62
I24	24 Jan 2024	8	15.20	34.33	8.0	33.19	8.1	24.5	1.59
I24	24 Jan 2024	9	15.19	20.05	7.9	33.19	8.1	24.5	1.58
I24	24 Jan 2024	10	15.19	11.44	7.8	33.19	8.1	24.5	1.62
I24	30 Jan 2024	1	15.41	63.51	8.6	33.05	8.1	24.4	1.26
I24	30 Jan 2024	2	15.22	63.71	8.7	33.12	8.1	24.5	1.63
I24	30 Jan 2024	3	15.14	66.10	8.6	33.18	8.1	24.5	2.69
I24	30 Jan 2024	4	15.12	71.64	8.6	33.18	8.1	24.5	3.18
I24	30 Jan 2024	5	15.08	74.64	8.3	33.18	8.1	24.6	3.17
I24	30 Jan 2024	6	15.01	75.56	8.0	33.21	8.1	24.6	2.90
I24	30 Jan 2024	7	14.98	76.78	7.8	33.22	8.1	24.6	2.59
I24	30 Jan 2024	8	14.92	75.80	7.6	33.24	8.0	24.6	2.39
I24	30 Jan 2024	9	14.91	55.46	7.5	33.24	8.0	24.6	2.12
I24	30 Jan 2024	10	14.91	41.44	7.5	33.24	8.0	24.6	2.00
I25	02 Jan 2024	1	16.44	67.83	8.6	33.16	8.2	24.2	2.62
I25	02 Jan 2024	2	16.41	67.65	8.5	33.19	8.2	24.3	2.52
I25	02 Jan 2024	3	16.37	69.93	8.3	33.22	8.1	24.3	2.42
I25	02 Jan 2024	4	16.35	71.67	8.2	33.23	8.1	24.3	2.36
I25	02 Jan 2024	5	16.33	70.43	8.0	33.23	8.1	24.3	2.26
I25	02 Jan 2024	6	16.32	66.25	8.0	33.23	8.1	24.3	2.17
I25	02 Jan 2024	7	16.32	64.15	7.9	33.23	8.1	24.3	2.04

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I25	02 Jan 2024	8	16.32	62.82	7.9	33.23	8.1	24.3	1.97
I25	02 Jan 2024	9	16.32	61.04	7.8	33.23	8.1	24.3	1.85
I25	09 Jan 2024	1	14.31	67.42	7.5	33.26	8.0	24.8	0.58
I25	09 Jan 2024	2	14.27	68.09	7.4	33.26	8.0	24.8	0.63
I25	09 Jan 2024	3	14.19	68.01	7.4	33.27	8.0	24.8	0.76
I25	09 Jan 2024	4	14.15	66.02	7.4	33.27	8.0	24.8	1.04
I25	09 Jan 2024	5	14.14	64.97	7.4	33.27	8.0	24.8	1.27
I25	09 Jan 2024	6	14.13	62.96	7.4	33.27	8.0	24.8	1.31
I25	09 Jan 2024	7	14.13	62.43	7.4	33.27	8.0	24.8	1.29
I25	09 Jan 2024	8	14.13	61.70	7.4	33.27	8.0	24.8	1.27
I25	17 Jan 2024	1	14.71	67.71	8.7	33.11	8.1	24.6	2.34
I25	17 Jan 2024	2	14.70	68.24	8.7	33.13	8.1	24.6	2.78
I25	17 Jan 2024	3	14.70	68.98	8.7	33.13	8.1	24.6	3.35
I25	17 Jan 2024	4	14.61	69.16	8.7	33.18	8.1	24.7	4.21
I25	17 Jan 2024	5	14.51	68.93	8.6	33.20	8.1	24.7	4.98
I25	17 Jan 2024	6	14.42	71.08	8.4	33.22	8.1	24.7	4.07
I25	17 Jan 2024	7	14.39	76.63	8.4	33.22	8.1	24.7	3.27
I25	17 Jan 2024	8	14.38	79.19	8.2	33.22	8.1	24.7	2.72
I25	17 Jan 2024	9	14.39	80.96	8.2	33.22	8.1	24.7	2.36
I25	24 Jan 2024	1	15.39	21.77	8.2	32.85	8.1	24.2	1.58
I25	24 Jan 2024	2	15.39	20.77	8.2	32.86	8.1	24.2	1.73
I25	24 Jan 2024	3	15.30	25.69	8.2	33.10	8.1	24.4	1.86
I25	24 Jan 2024	4	15.25	37.22	8.0	33.16	8.1	24.5	1.82
I25	24 Jan 2024	5	15.22	37.50	8.0	33.17	8.1	24.5	1.74
I25	24 Jan 2024	6	15.20	33.89	7.9	33.18	8.1	24.5	1.70
I25	24 Jan 2024	7	15.19	22.06	7.9	33.18	8.1	24.5	1.55
I25	24 Jan 2024	8	15.19	18.19	7.8	33.19	8.1	24.5	1.49
I25	24 Jan 2024	9	15.19	13.97	7.8	33.19	8.1	24.5	1.56
I25	30 Jan 2024	1	15.25	61.87	8.9	33.06	8.1	24.4	2.09
I25	30 Jan 2024	2	15.14	60.84	8.9	33.15	8.1	24.5	3.19
I25	30 Jan 2024	3	15.10	65.85	8.6	33.17	8.1	24.5	3.27
I25	30 Jan 2024	4	15.04	72.19	8.2	33.19	8.1	24.6	3.13
I25	30 Jan 2024	5	15.00	76.16	7.9	33.21	8.1	24.6	2.67
I25	30 Jan 2024	6	14.95	75.45	7.7	33.22	8.1	24.6	2.35
I25	30 Jan 2024	7	14.91	67.73	7.6	33.23	8.0	24.6	2.11
I25	30 Jan 2024	8	14.90	56.80	7.5	33.23	8.0	24.6	1.92
I25	30 Jan 2024	9	14.89	45.37	7.4	33.23	8.0	24.6	1.72
I26	02 Jan 2024	1	16.56	72.64	8.2	33.21	8.1	24.2	0.92
I26	02 Jan 2024	2	16.52	72.34	8.1	33.22	8.1	24.3	1.02
I26	02 Jan 2024	3	16.39	71.71	8.0	33.23	8.1	24.3	1.48
I26	02 Jan 2024	4	16.32	66.94	7.9	33.23	8.1	24.3	2.21
I26	02 Jan 2024	5	16.27	64.45	7.7	33.23	8.1	24.3	2.15
I26	02 Jan 2024	6	16.26	61.98	7.7	33.23	8.1	24.3	1.97
I26	02 Jan 2024	7	16.23	60.04	7.7	33.23	8.1	24.3	1.86
I26	02 Jan 2024	8	16.21	59.45	7.7	33.23	8.1	24.3	1.90
I26	02 Jan 2024	9	16.20	60.07	7.8	33.23	8.1	24.3	1.98
I26	09 Jan 2024	1	14.39	75.98	7.6	33.26	8.0	24.8	0.53
I26	09 Jan 2024	2	14.25	75.03	7.6	33.26	8.0	24.8	0.69
I26	09 Jan 2024	3	14.19	73.53	7.4	33.26	8.0	24.8	0.75
I26	09 Jan 2024	4	13.96	73.57	7.1	33.25	8.0	24.8	0.68
I26	09 Jan 2024	5	13.84	73.00	6.8	33.24	8.0	24.9	0.63
I26	09 Jan 2024	6	13.82	70.88	6.8	33.24	8.0	24.9	0.60
I26	09 Jan 2024	7	13.69	69.85	6.7	33.25	8.0	24.9	0.61
I26	09 Jan 2024	8	13.65	64.14	6.6	33.25	8.0	24.9	0.62
I26	09 Jan 2024	9	13.66	64.65	6.6	33.25	8.0	24.9	0.60

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I26	17 Jan 2024	1	14.54	77.29	8.9	33.22	8.1	24.7	2.24
I26	17 Jan 2024	2	14.50	76.60	9.0	33.22	8.1	24.7	2.82
I26	17 Jan 2024	3	14.47	77.05	9.0	33.22	8.1	24.7	3.98
I26	17 Jan 2024	4	14.44	77.83	9.0	33.22	8.1	24.7	4.71
I26	17 Jan 2024	5	14.43	79.12	8.9	33.22	8.1	24.7	5.04
I26	17 Jan 2024	6	14.41	79.88	8.8	33.22	8.1	24.7	4.71
I26	17 Jan 2024	7	14.39	81.81	8.6	33.22	8.1	24.7	4.12
I26	17 Jan 2024	8	14.38	82.73	8.4	33.22	8.1	24.7	3.40
I26	17 Jan 2024	9	14.38	82.74	8.3	33.22	8.1	24.7	2.54
I26	24 Jan 2024	1	15.47	26.18	8.3	32.46	8.1	23.9	1.31
I26	24 Jan 2024	2	15.46	27.30	8.3	32.52	8.1	24.0	1.65
I26	24 Jan 2024	3	15.36	23.78	8.2	32.81	8.1	24.2	2.03
I26	24 Jan 2024	4	15.25	24.29	8.0	33.10	8.1	24.5	1.84
I26	24 Jan 2024	5	15.23	34.24	7.9	33.13	8.1	24.5	1.66
I26	24 Jan 2024	6	15.22	33.00	7.8	33.13	8.1	24.5	1.49
I26	24 Jan 2024	7	15.17	30.78	7.5	33.13	8.1	24.5	1.36
I26	24 Jan 2024	8	15.13	16.25	7.4	33.15	8.1	24.5	1.40
I26	24 Jan 2024	9	15.17	9.26	7.5	33.14	8.1	24.5	1.35
I26	30 Jan 2024	1	15.59	53.73	8.2	33.05	8.1	24.3	0.79
I26	30 Jan 2024	2	15.23	49.75	8.3	33.07	8.1	24.4	1.14
I26	30 Jan 2024	3	15.23	47.40	8.4	33.08	8.1	24.4	1.88
I26	30 Jan 2024	4	15.21	46.19	8.6	33.13	8.1	24.5	3.26
I26	30 Jan 2024	5	15.15	51.35	8.6	33.15	8.1	24.5	4.09
I26	30 Jan 2024	6	15.03	56.43	8.3	33.16	8.1	24.5	3.49
I26	30 Jan 2024	7	14.99	51.57	8.2	33.15	8.1	24.6	2.89
I26	30 Jan 2024	8	14.96	48.80	8.2	33.15	8.0	24.6	2.52
I26	30 Jan 2024	9	14.95	47.00	8.1	33.15	8.0	24.6	2.15
I32	02 Jan 2024	1	16.64	80.99	8.1	33.25	8.1	24.3	0.64
I32	02 Jan 2024	2	16.48	80.90	8.2	33.25	8.1	24.3	0.89
I32	02 Jan 2024	3	16.41	78.66	8.1	33.24	8.1	24.3	1.28
I32	02 Jan 2024	4	16.37	77.85	8.1	33.24	8.1	24.3	1.44
I32	02 Jan 2024	5	16.37	77.62	8.1	33.24	8.1	24.3	1.81
I32	02 Jan 2024	6	16.37	76.83	8.1	33.24	8.1	24.3	2.12
I32	02 Jan 2024	7	16.34	76.33	8.1	33.25	8.1	24.3	2.37
I32	02 Jan 2024	8	16.31	77.02	8.1	33.25	8.1	24.3	2.61
I32	02 Jan 2024	9	16.30	76.71	8.2	33.25	8.1	24.3	2.91
I32	02 Jan 2024	10	16.26	76.41	8.3	33.26	8.1	24.3	2.90
I32	09 Jan 2024	1	14.35	62.83	7.8	33.27	8.0	24.8	1.14
I32	09 Jan 2024	2	14.33	62.22	7.8	33.27	8.0	24.8	1.25
I32	09 Jan 2024	3	14.31	61.71	7.8	33.28	8.0	24.8	1.38
I32	09 Jan 2024	4	14.06	61.87	7.8	33.29	8.0	24.9	2.48
I32	09 Jan 2024	5	13.91	55.31	7.5	33.28	8.0	24.9	2.74
I32	09 Jan 2024	6	13.74	48.38	7.1	33.27	8.0	24.9	2.09
I32	09 Jan 2024	7	13.69	39.41	6.9	33.25	8.0	24.9	1.56
I32	09 Jan 2024	8	13.73	38.42	7.3	33.26	8.0	24.9	1.21
I32	09 Jan 2024	9	13.75	41.84	7.7	33.27	8.0	24.9	1.13
I32	09 Jan 2024	10	13.77	41.66	7.8	33.27	8.0	24.9	1.12
I32	17 Jan 2024	1	14.54	75.73	8.7	33.23	8.1	24.7	2.33
I32	17 Jan 2024	2	14.55	75.18	8.6	33.23	8.1	24.7	2.39
I32	17 Jan 2024	3	14.54	75.18	8.7	33.23	8.1	24.7	2.60
I32	17 Jan 2024	4	14.45	75.19	8.8	33.23	8.1	24.7	3.28
I32	17 Jan 2024	5	14.42	76.12	8.8	33.23	8.1	24.7	3.97
I32	17 Jan 2024	6	14.40	78.36	8.7	33.23	8.1	24.7	4.04
I32	17 Jan 2024	7	14.38	80.38	8.6	33.23	8.1	24.7	3.92
I32	17 Jan 2024	8	14.38	81.81	8.6	33.23	8.1	24.7	3.73

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I32	17 Jan 2024	9	14.38	82.72	8.5	33.23	8.1	24.7	3.74
I32	17 Jan 2024	10	14.30	79.54	7.9	33.25	8.1	24.8	3.33
I32	24 Jan 2024	1	15.49	32.69	8.6	32.50	8.1	23.9	2.26
I32	24 Jan 2024	2	15.40	32.38	8.6	32.57	8.1	24.0	2.59
I32	24 Jan 2024	3	15.28	32.43	8.5	32.67	8.1	24.1	2.49
I32	24 Jan 2024	4	15.32	31.84	8.4	32.74	8.1	24.2	2.27
I32	24 Jan 2024	5	15.25	33.65	8.1	32.94	8.1	24.3	2.03
I32	24 Jan 2024	6	15.12	45.77	7.9	33.05	8.1	24.4	1.75
I32	24 Jan 2024	7	15.06	50.32	7.7	33.10	8.1	24.5	1.56
I32	24 Jan 2024	8	15.06	42.23	7.6	33.12	8.1	24.5	1.56
I32	24 Jan 2024	9	15.06	36.75	7.5	33.12	8.1	24.5	1.65
I32	24 Jan 2024	10	15.06	11.88	7.5	33.13	8.1	24.5	1.78
I32	30 Jan 2024	1	15.41	49.14	8.8	33.18	8.1	24.5	1.58
I32	30 Jan 2024	2	15.31	46.30	8.7	33.19	8.1	24.5	1.72
I32	30 Jan 2024	3	15.20	44.02	8.5	33.19	8.1	24.5	2.40
I32	30 Jan 2024	4	15.15	45.08	8.3	33.20	8.1	24.5	2.92
I32	30 Jan 2024	5	15.09	46.44	8.1	33.20	8.1	24.6	3.10
I32	30 Jan 2024	6	15.08	49.63	8.1	33.20	8.1	24.6	3.11
I32	30 Jan 2024	7	15.00	51.38	7.7	33.21	8.0	24.6	2.95
I32	30 Jan 2024	8	14.97	51.21	7.3	33.22	8.0	24.6	2.76
I32	30 Jan 2024	9	14.91	50.71	7.1	33.24	8.0	24.6	2.46
I32	30 Jan 2024	10	14.89	35.23	6.8	33.25	8.0	24.6	2.31
I39	02 Jan 2024	1	16.69	92.73	8.1	33.27	8.1	24.3	0.46
I39	02 Jan 2024	2	16.64	92.71	8.1	33.27	8.1	24.3	0.46
I39	02 Jan 2024	3	16.62	90.88	8.1	33.27	8.1	24.3	0.51
I39	02 Jan 2024	4	16.62	92.34	8.1	33.27	8.1	24.3	0.56
I39	02 Jan 2024	5	16.61	92.39	8.1	33.27	8.1	24.3	0.61
I39	02 Jan 2024	6	16.61	92.44	8.1	33.27	8.1	24.3	0.63
I39	02 Jan 2024	7	16.60	92.43	8.1	33.27	8.1	24.3	0.70
I39	02 Jan 2024	8	16.60	92.51	8.2	33.27	8.1	24.3	0.81
I39	02 Jan 2024	9	16.60	92.57	8.1	33.27	8.1	24.3	0.88
I39	02 Jan 2024	10	16.60	92.63	8.1	33.27	8.1	24.3	0.95
I39	02 Jan 2024	11	16.58	92.64	8.1	33.27	8.1	24.3	1.00
I39	02 Jan 2024	12	16.55	92.33	8.0	33.27	8.1	24.3	1.10
I39	02 Jan 2024	13	16.53	90.49	8.0	33.27	8.1	24.3	1.22
I39	02 Jan 2024	14	16.52	88.95	7.9	33.27	8.1	24.3	1.24
I39	02 Jan 2024	15	16.51	87.50	7.9	33.26	8.1	24.3	1.28
I39	02 Jan 2024	16	16.47	86.80	7.8	33.26	8.1	24.3	1.23
I39	02 Jan 2024	17	16.46	85.08	7.8	33.26	8.1	24.3	1.22
I39	02 Jan 2024	18	16.47	83.17	7.8	33.26	8.1	24.3	1.20
I39	09 Jan 2024	1	14.20	81.60	7.5	33.25	8.0	24.8	0.56
I39	09 Jan 2024	2	14.21	81.44	7.5	33.26	8.0	24.8	0.53
I39	09 Jan 2024	3	14.13	80.96	7.5	33.26	8.0	24.8	0.57
I39	09 Jan 2024	4	14.10	81.20	7.4	33.25	8.0	24.8	0.63
I39	09 Jan 2024	5	14.08	82.11	7.4	33.25	8.0	24.8	0.71
I39	09 Jan 2024	6	14.07	82.74	7.4	33.25	8.0	24.8	0.80
I39	09 Jan 2024	7	14.05	82.99	7.4	33.25	8.0	24.8	0.88
I39	09 Jan 2024	8	14.03	83.66	7.4	33.25	8.0	24.8	0.94
I39	09 Jan 2024	9	14.03	84.22	7.4	33.25	8.0	24.8	1.00
I39	09 Jan 2024	10	14.02	84.63	7.4	33.25	8.0	24.8	1.06
I39	09 Jan 2024	11	14.01	84.95	7.4	33.25	8.0	24.8	1.07
I39	09 Jan 2024	12	14.00	85.22	7.4	33.25	8.0	24.8	1.00
I39	09 Jan 2024	13	13.98	85.59	7.3	33.24	8.0	24.8	0.92
I39	09 Jan 2024	14	13.96	86.07	7.2	33.24	8.0	24.8	0.89
I39	09 Jan 2024	15	13.87	86.64	7.0	33.25	8.0	24.9	0.79
I39	09 Jan 2024	16	13.55	86.84	6.7	33.27	8.0	24.9	0.67
I39	09 Jan 2024	17	13.46	84.52	6.5	33.26	8.0	25.0	0.55

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	09 Jan 2024	18	13.46	81.58	6.5	33.26	7.9	25.0	0.49
I39	17 Jan 2024	1	14.42	87.41	8.5	33.22	8.1	24.7	1.93
I39	17 Jan 2024	2	14.40	87.23	8.5	33.22	8.1	24.7	1.99
I39	17 Jan 2024	3	14.39	87.36	8.4	33.22	8.1	24.7	2.08
I39	17 Jan 2024	4	14.37	87.63	8.4	33.22	8.1	24.7	2.58
I39	17 Jan 2024	5	14.36	87.92	8.4	33.22	8.1	24.7	2.92
I39	17 Jan 2024	6	14.35	87.95	8.3	33.22	8.1	24.7	3.14
I39	17 Jan 2024	7	14.34	88.09	8.3	33.21	8.1	24.7	3.27
I39	17 Jan 2024	8	14.33	88.54	8.3	33.22	8.1	24.7	3.18
I39	17 Jan 2024	9	14.33	89.28	8.3	33.22	8.1	24.7	3.19
I39	17 Jan 2024	10	14.32	89.40	8.2	33.21	8.1	24.7	3.19
I39	17 Jan 2024	11	14.31	89.57	8.2	33.21	8.1	24.7	3.34
I39	17 Jan 2024	12	14.31	90.25	8.2	33.21	8.1	24.7	2.99
I39	17 Jan 2024	13	14.27	90.98	8.0	33.20	8.1	24.7	2.76
I39	17 Jan 2024	14	14.08	91.84	7.6	33.19	8.1	24.8	2.36
I39	17 Jan 2024	15	13.89	93.48	7.4	33.22	8.0	24.8	1.63
I39	17 Jan 2024	16	13.85	93.85	7.2	33.22	8.0	24.8	1.39
I39	17 Jan 2024	17	13.68	91.11	7.1	33.23	8.0	24.9	1.16
I39	17 Jan 2024	18	13.64	90.38	7.0	33.24	8.0	24.9	1.03
I39	24 Jan 2024	1	15.38	83.82	8.5	33.11	8.1	24.4	1.90
I39	24 Jan 2024	2	15.36	81.49	8.5	33.14	8.1	24.5	1.89
I39	24 Jan 2024	3	15.36	81.61	8.5	33.14	8.1	24.5	1.99
I39	24 Jan 2024	4	15.34	82.01	8.4	33.20	8.1	24.5	2.00
I39	24 Jan 2024	5	15.33	85.67	8.4	33.20	8.1	24.5	2.25
I39	24 Jan 2024	6	15.31	90.85	8.4	33.20	8.1	24.5	2.24
I39	24 Jan 2024	7	15.25	91.92	8.4	33.20	8.1	24.5	2.14
I39	24 Jan 2024	8	15.21	90.95	8.3	33.20	8.1	24.5	2.23
I39	24 Jan 2024	9	15.17	88.71	8.2	33.19	8.1	24.5	2.09
I39	24 Jan 2024	10	15.17	83.93	8.2	33.19	8.1	24.5	2.06
I39	24 Jan 2024	11	15.17	78.52	8.2	33.19	8.1	24.5	2.01
I39	24 Jan 2024	12	15.17	77.55	8.1	33.19	8.1	24.5	2.06
I39	24 Jan 2024	13	15.16	76.51	8.1	33.19	8.1	24.5	1.98
I39	24 Jan 2024	14	15.16	75.18	8.1	33.19	8.1	24.5	2.02
I39	24 Jan 2024	15	15.16	74.77	8.1	33.19	8.1	24.5	1.95
I39	24 Jan 2024	16	15.16	74.22	8.1	33.19	8.1	24.5	1.88
I39	24 Jan 2024	17	15.16	74.02	8.1	33.19	8.1	24.5	1.92
I39	24 Jan 2024	18	15.16	73.22	8.1	33.19	8.1	24.5	1.86
I39	30 Jan 2024	1	15.39	79.52	9.0	33.14	8.1	24.5	1.39
I39	30 Jan 2024	2	15.34	79.39	9.0	33.14	8.1	24.5	1.60
I39	30 Jan 2024	3	15.29	78.20	9.0	33.14	8.1	24.5	2.30
I39	30 Jan 2024	4	15.26	77.89	9.0	33.14	8.1	24.5	3.15
I39	30 Jan 2024	5	15.25	76.94	9.0	33.14	8.1	24.5	3.98
I39	30 Jan 2024	6	15.24	76.32	8.9	33.14	8.1	24.5	4.52
I39	30 Jan 2024	7	15.22	75.03	8.9	33.14	8.1	24.5	4.57
I39	30 Jan 2024	8	15.21	74.36	8.8	33.14	8.1	24.5	4.55
I39	30 Jan 2024	9	15.19	74.18	8.8	33.14	8.1	24.5	4.71
I39	30 Jan 2024	10	15.16	73.96	8.7	33.14	8.1	24.5	4.78
I39	30 Jan 2024	11	15.15	73.59	8.7	33.14	8.1	24.5	4.78
I39	30 Jan 2024	12	15.14	73.35	8.7	33.14	8.1	24.5	4.90
I39	30 Jan 2024	13	15.11	73.29	8.7	33.14	8.1	24.5	4.93
I39	30 Jan 2024	14	15.08	73.50	8.6	33.14	8.1	24.5	4.75
I39	30 Jan 2024	15	15.03	74.10	8.3	33.16	8.1	24.5	3.73
I39	30 Jan 2024	16	14.94	74.02	8.0	33.19	8.1	24.6	2.82
I39	30 Jan 2024	17	14.86	70.15	7.7	33.22	8.0	24.6	2.23
I39	30 Jan 2024	18	14.83	63.84	7.6	33.23	8.0	24.6	1.89
I40	02 Jan 2024	1	16.36	59.69	8.5	33.12	8.1	24.2	1.69
I40	02 Jan 2024	2	16.32	59.53	8.5	33.15	8.1	24.3	2.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I40	02 Jan 2024	3	16.33	61.09	8.4	33.19	8.1	24.3	3.04
I40	02 Jan 2024	4	16.36	65.97	8.4	33.21	8.1	24.3	3.43
I40	02 Jan 2024	5	16.34	71.21	8.3	33.22	8.1	24.3	3.67
I40	02 Jan 2024	6	16.32	72.10	8.2	33.22	8.1	24.3	3.19
I40	02 Jan 2024	7	16.32	72.65	8.1	33.22	8.1	24.3	2.66
I40	02 Jan 2024	8	16.31	72.94	8.0	33.22	8.1	24.3	2.50
I40	02 Jan 2024	9	16.29	70.40	7.9	33.22	8.1	24.3	2.26
I40	02 Jan 2024	10	16.23	67.28	7.9	33.21	8.1	24.3	2.06
I40	09 Jan 2024	1	14.65	32.17	7.9	32.71	8.0	24.3	0.67
I40	09 Jan 2024	2	14.51	32.99	7.8	33.10	8.0	24.6	0.76
I40	09 Jan 2024	3	14.35	38.41	7.7	33.26	8.0	24.8	1.13
I40	09 Jan 2024	4	14.26	42.19	7.9	33.26	8.0	24.8	1.52
I40	09 Jan 2024	5	14.23	43.20	8.0	33.26	8.0	24.8	1.65
I40	09 Jan 2024	6	14.15	42.25	8.1	33.27	8.0	24.8	1.69
I40	09 Jan 2024	7	14.06	39.77	8.2	33.28	8.0	24.8	1.61
I40	09 Jan 2024	8	14.05	35.05	8.2	33.28	8.0	24.8	1.59
I40	09 Jan 2024	9	14.05	29.49	8.2	33.27	8.0	24.8	1.50
I40	09 Jan 2024	10	14.05	27.95	8.1	33.27	8.0	24.8	1.53
I40	17 Jan 2024	1	14.72	57.20	8.4	33.00	8.1	24.5	2.09
I40	17 Jan 2024	2	14.68	59.05	8.4	33.07	8.1	24.6	2.11
I40	17 Jan 2024	3	14.59	61.59	8.4	33.19	8.1	24.7	2.60
I40	17 Jan 2024	4	14.52	69.78	8.3	33.19	8.1	24.7	3.52
I40	17 Jan 2024	5	14.45	73.89	8.0	33.19	8.1	24.7	3.96
I40	17 Jan 2024	6	14.39	74.85	7.7	33.19	8.1	24.7	3.74
I40	17 Jan 2024	7	14.30	71.31	7.2	33.20	8.0	24.7	3.47
I40	17 Jan 2024	8	14.28	69.11	6.9	33.21	8.0	24.7	3.05
I40	17 Jan 2024	9	14.28	59.02	6.8	33.20	8.0	24.7	2.88
I40	17 Jan 2024	10	14.29	49.08	6.7	33.20	8.0	24.7	2.81
I40	24 Jan 2024	1	15.41	9.01	8.3	32.87	8.1	24.2	1.53
I40	24 Jan 2024	2	15.35	7.23	8.2	32.97	8.1	24.3	1.50
I40	24 Jan 2024	3	15.32	5.19	8.1	33.01	8.1	24.4	1.50
I40	24 Jan 2024	4	15.31	5.06	8.1	33.01	8.1	24.4	1.51
I40	24 Jan 2024	5	15.23	5.26	8.0	33.02	8.1	24.4	1.48
I40	24 Jan 2024	6	15.21	5.40	8.0	33.04	8.1	24.4	1.45
I40	24 Jan 2024	7	15.22	6.82	8.0	33.06	8.1	24.4	1.45
I40	24 Jan 2024	8	15.25	11.28	8.0	33.15	8.1	24.5	1.50
I40	24 Jan 2024	9	15.24	22.32	7.8	33.16	8.1	24.5	1.46
I40	24 Jan 2024	10	15.22	23.68	7.7	33.17	8.1	24.5	1.49
I40	30 Jan 2024	1	15.38	56.81	8.6	33.05	8.1	24.4	1.32
I40	30 Jan 2024	2	15.29	56.84	8.7	33.10	8.1	24.4	1.44
I40	30 Jan 2024	3	15.18	54.69	8.5	33.20	8.1	24.5	2.73
I40	30 Jan 2024	4	15.14	52.92	8.3	33.21	8.1	24.6	3.09
I40	30 Jan 2024	5	15.11	56.22	8.2	33.21	8.1	24.6	2.92
I40	30 Jan 2024	6	15.08	67.69	8.2	33.21	8.1	24.6	2.93
I40	30 Jan 2024	7	15.06	69.08	8.1	33.20	8.1	24.6	2.82
I40	30 Jan 2024	8	15.03	65.81	8.0	33.20	8.0	24.6	2.84
I40	30 Jan 2024	9	15.02	59.08	8.0	33.20	8.0	24.6	2.76
I40	30 Jan 2024	10	14.97	47.57	7.8	33.21	8.0	24.6	2.56

NA = not available

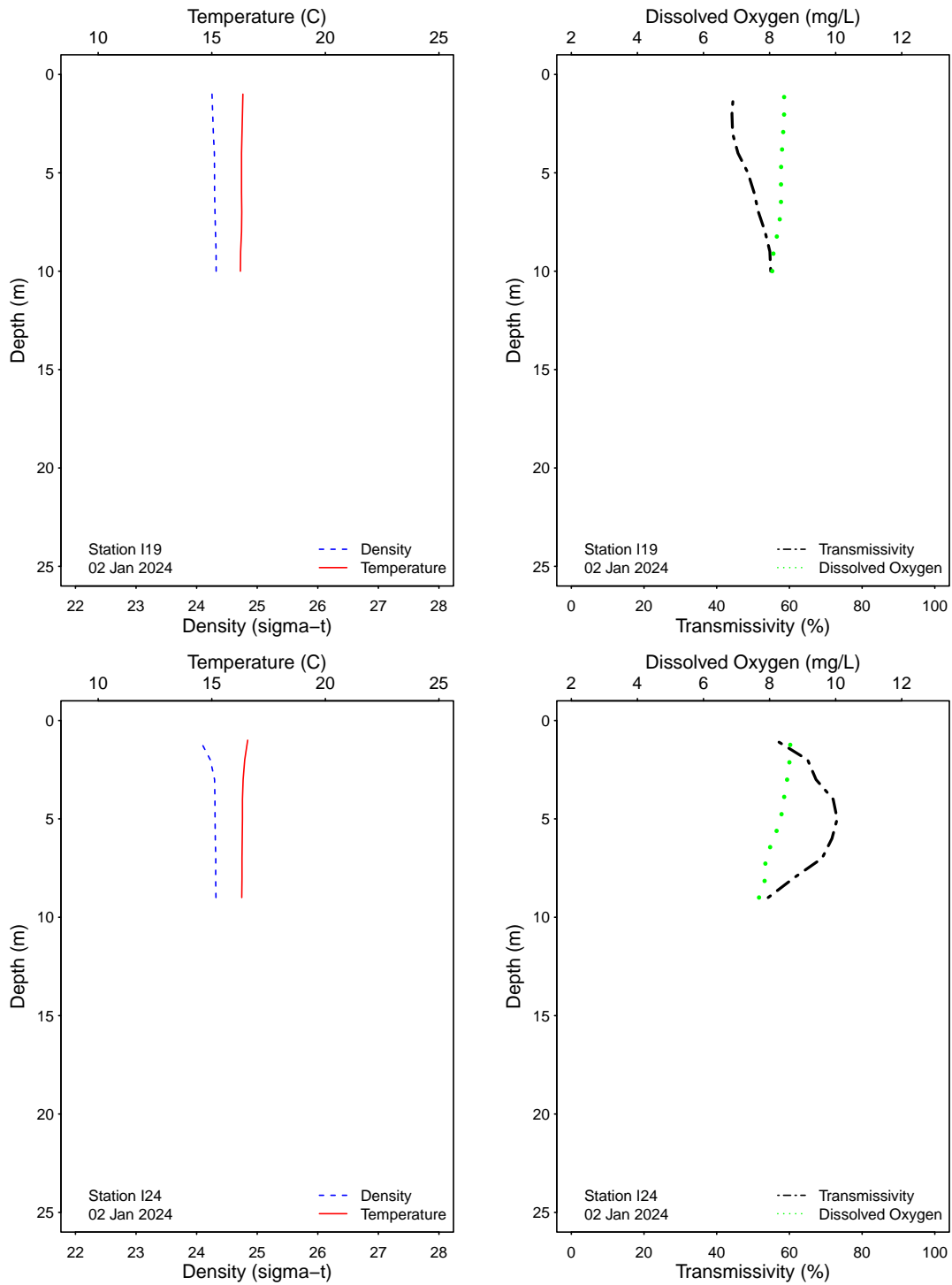


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

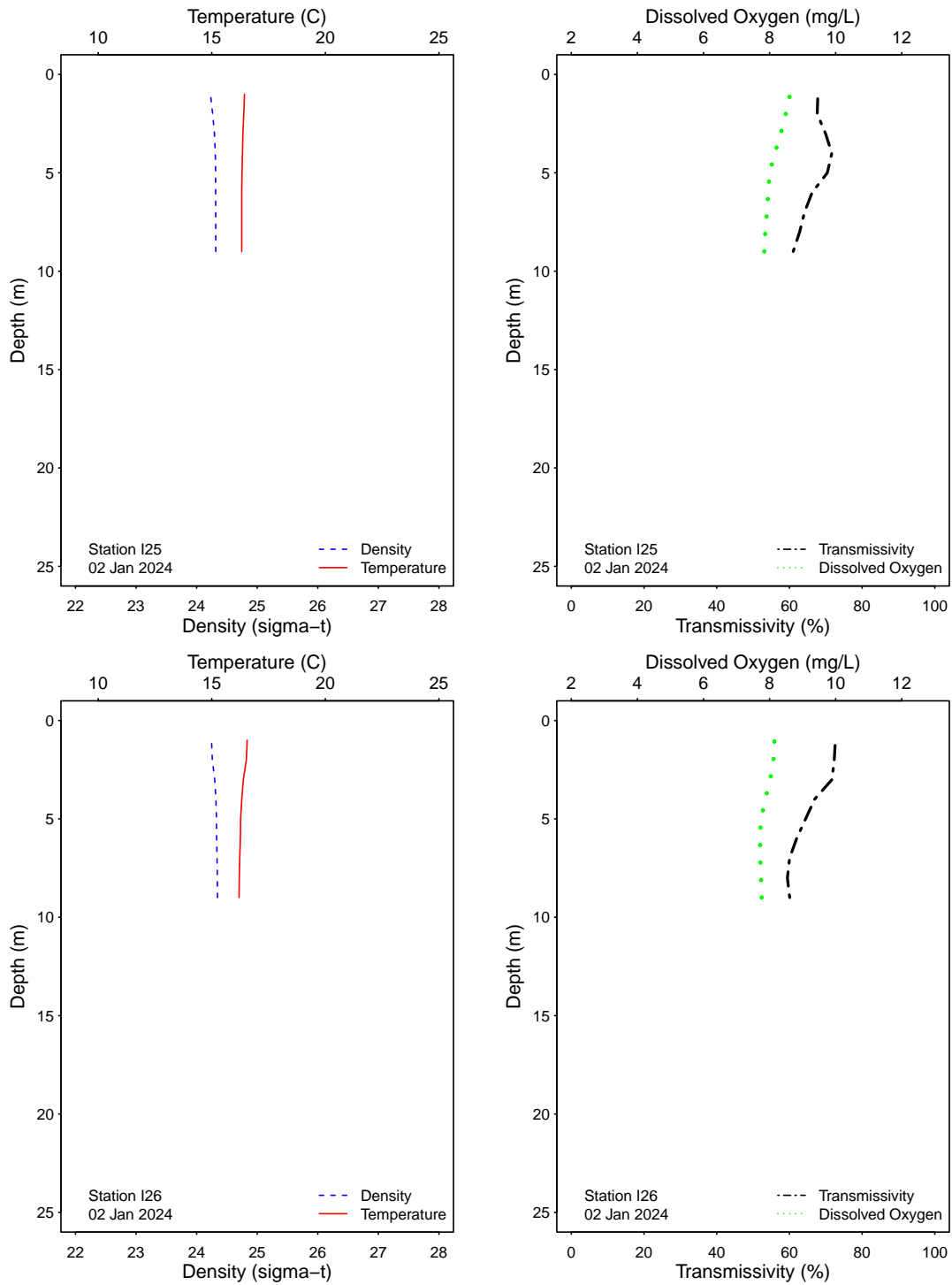


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

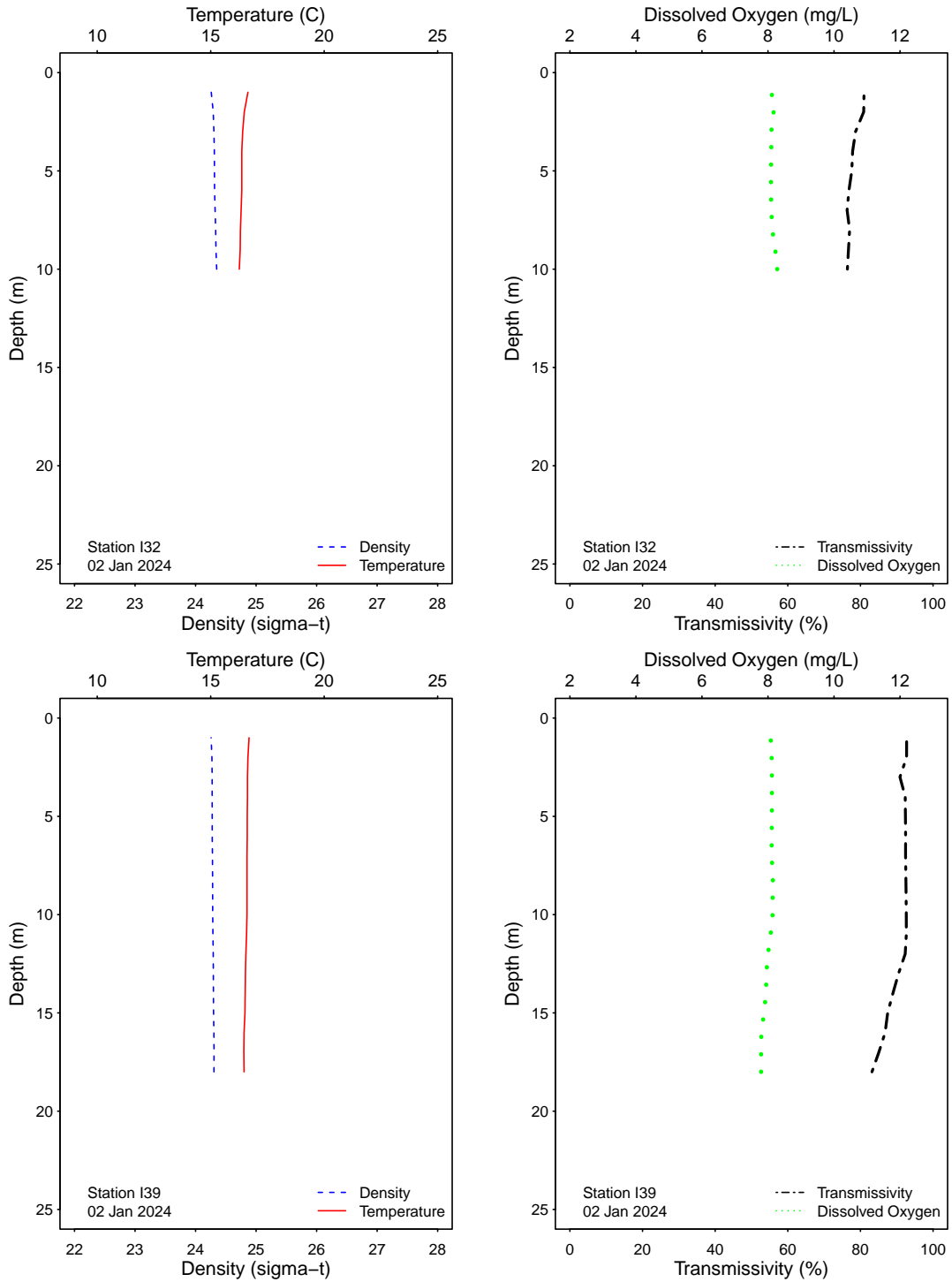


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

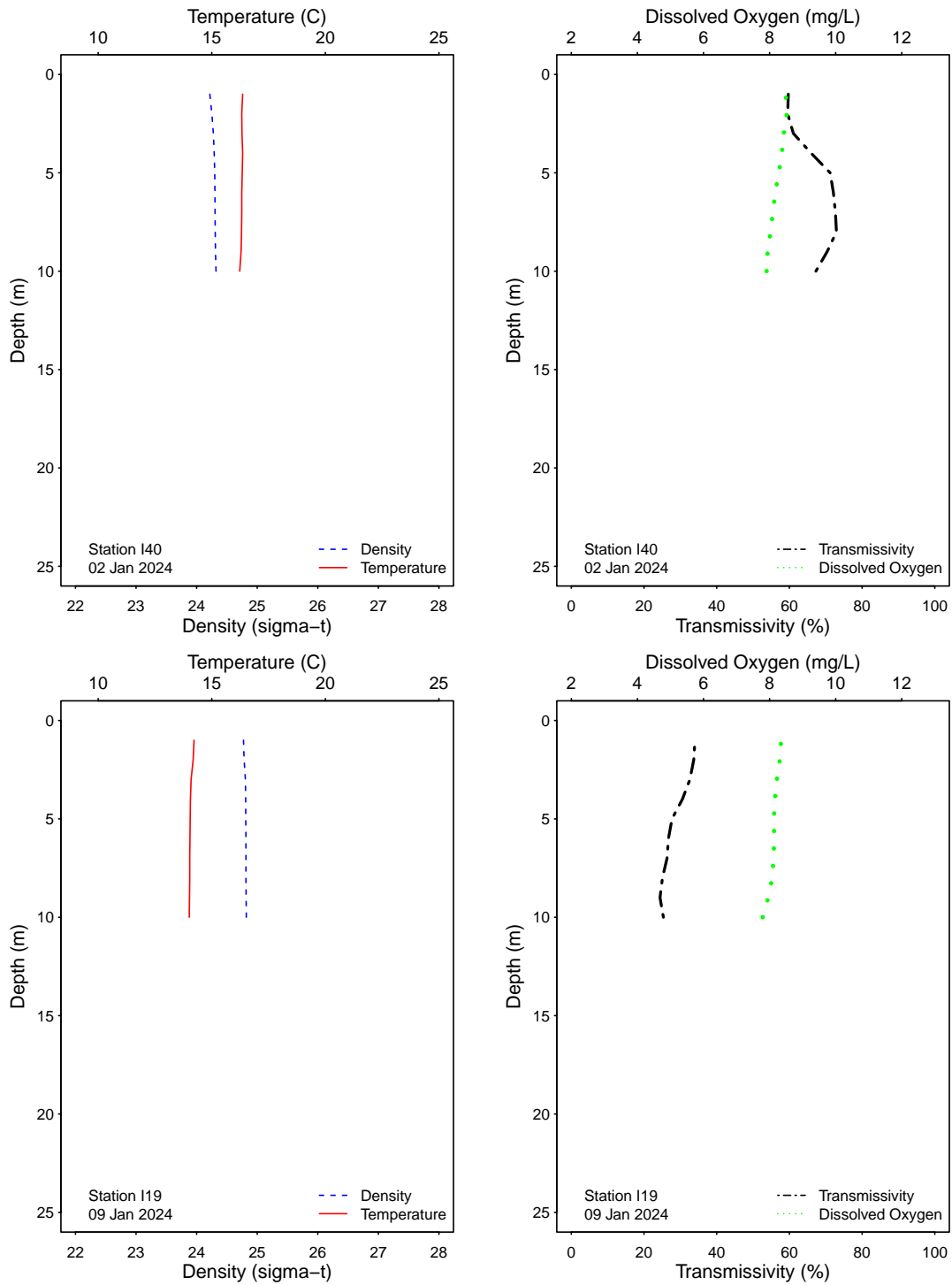


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

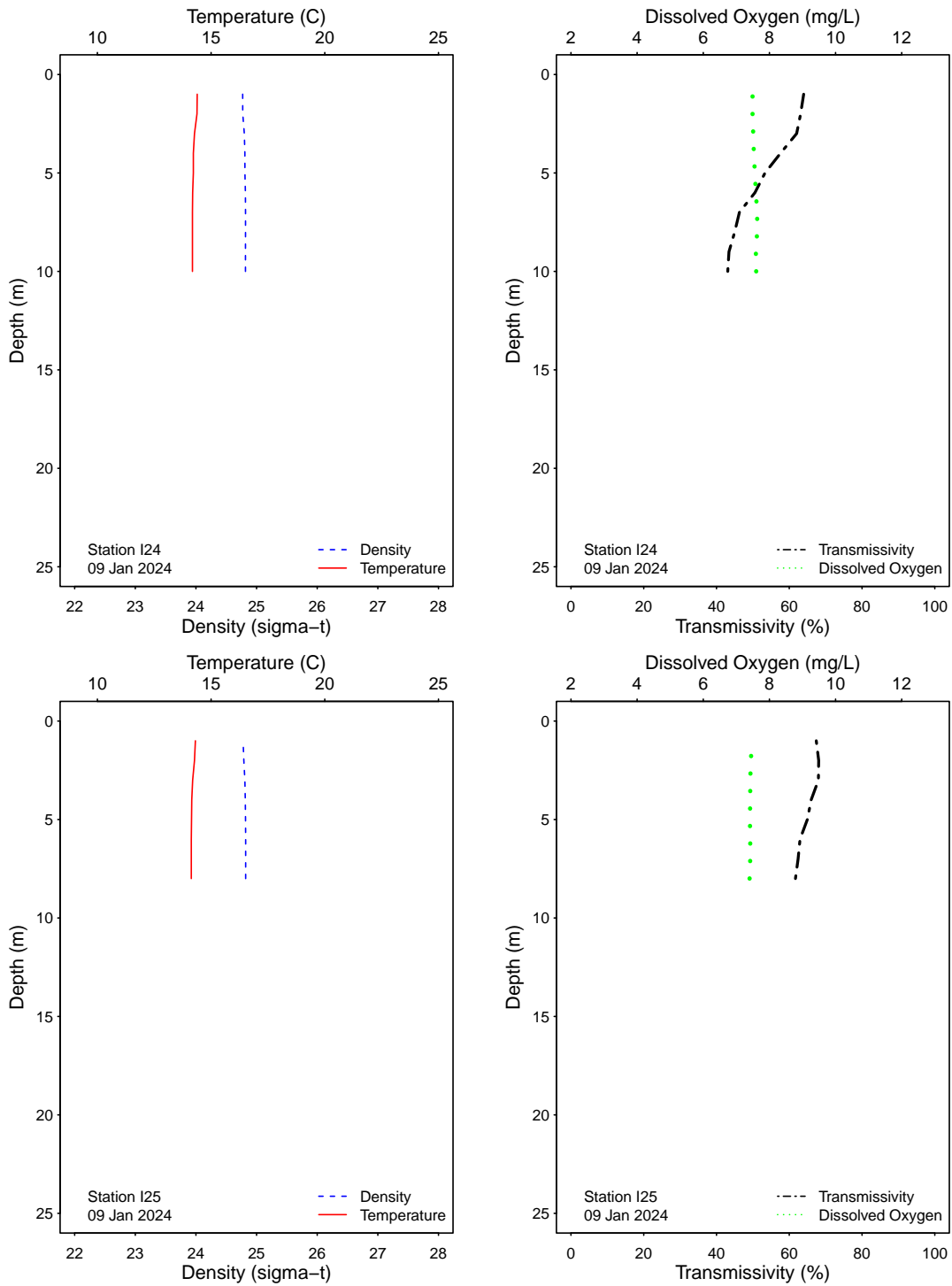


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

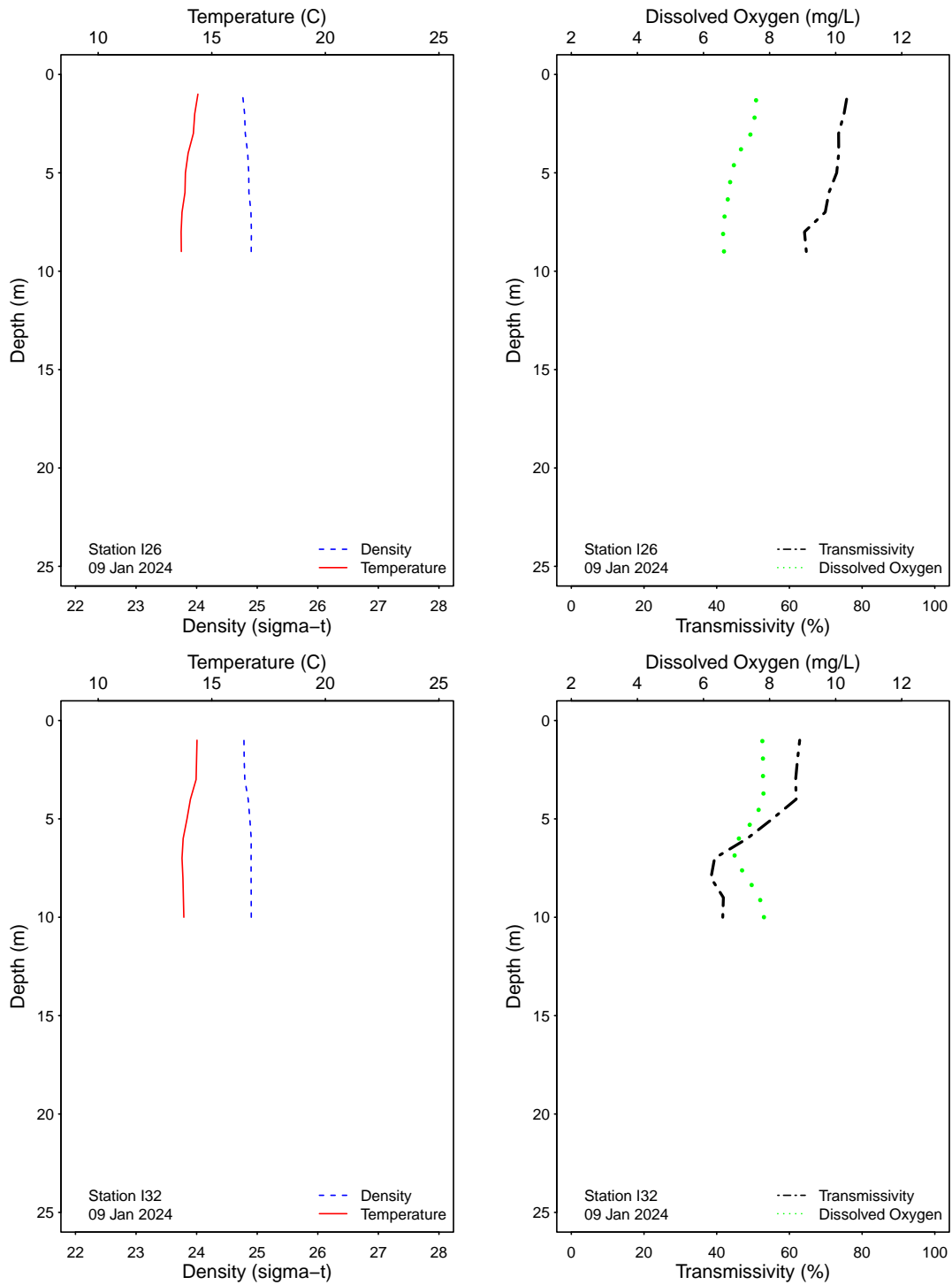


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

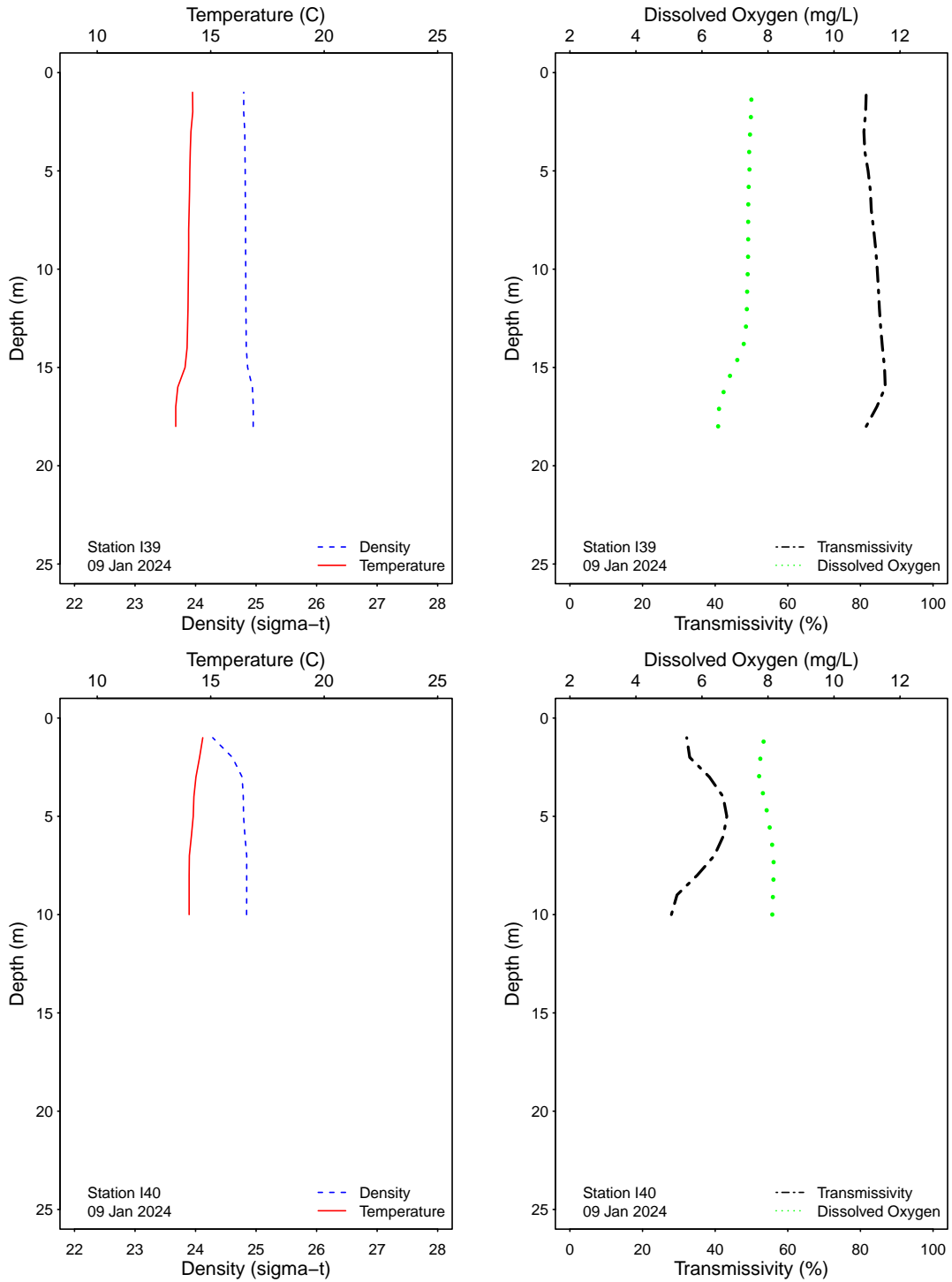


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

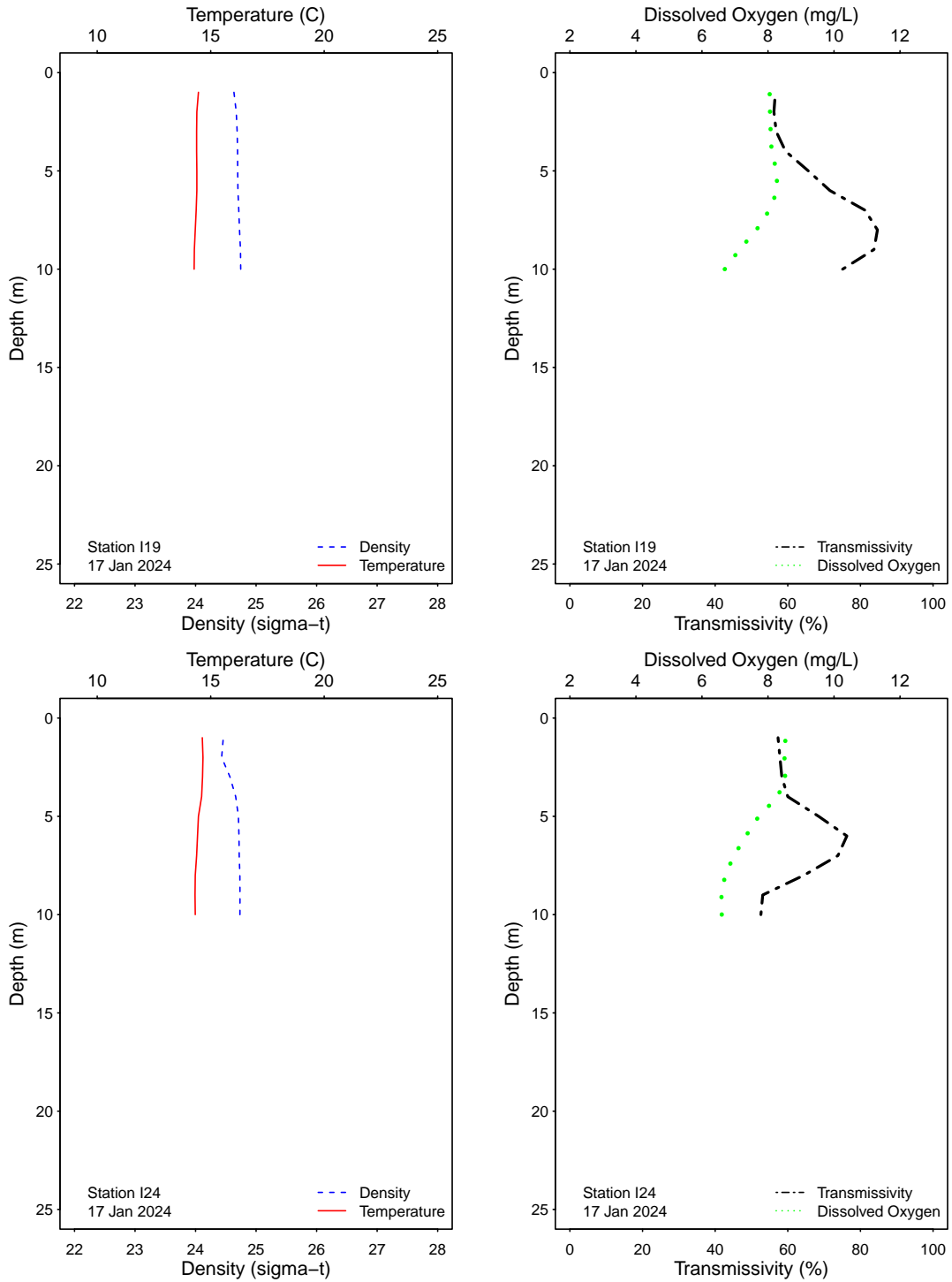


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

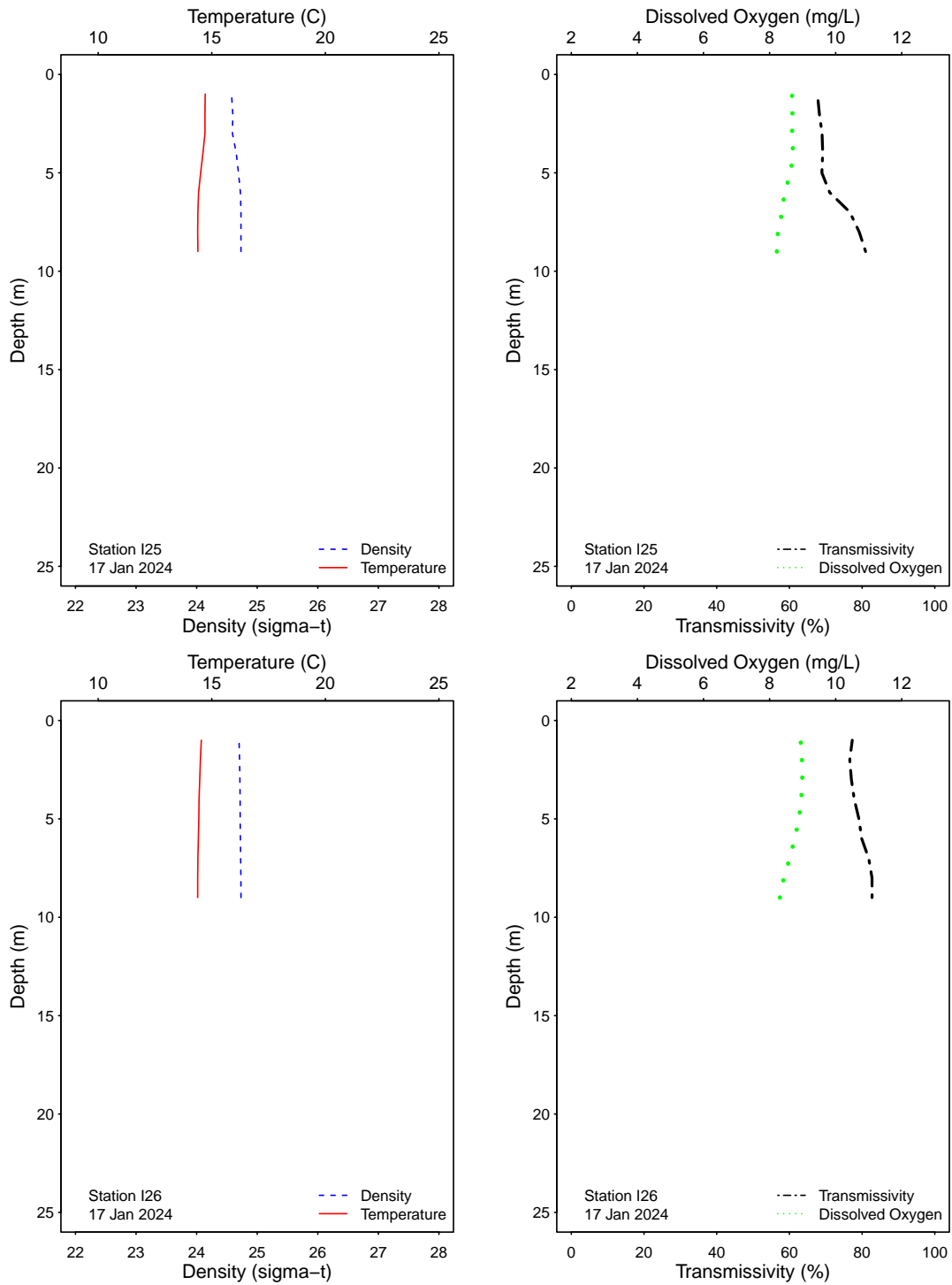


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

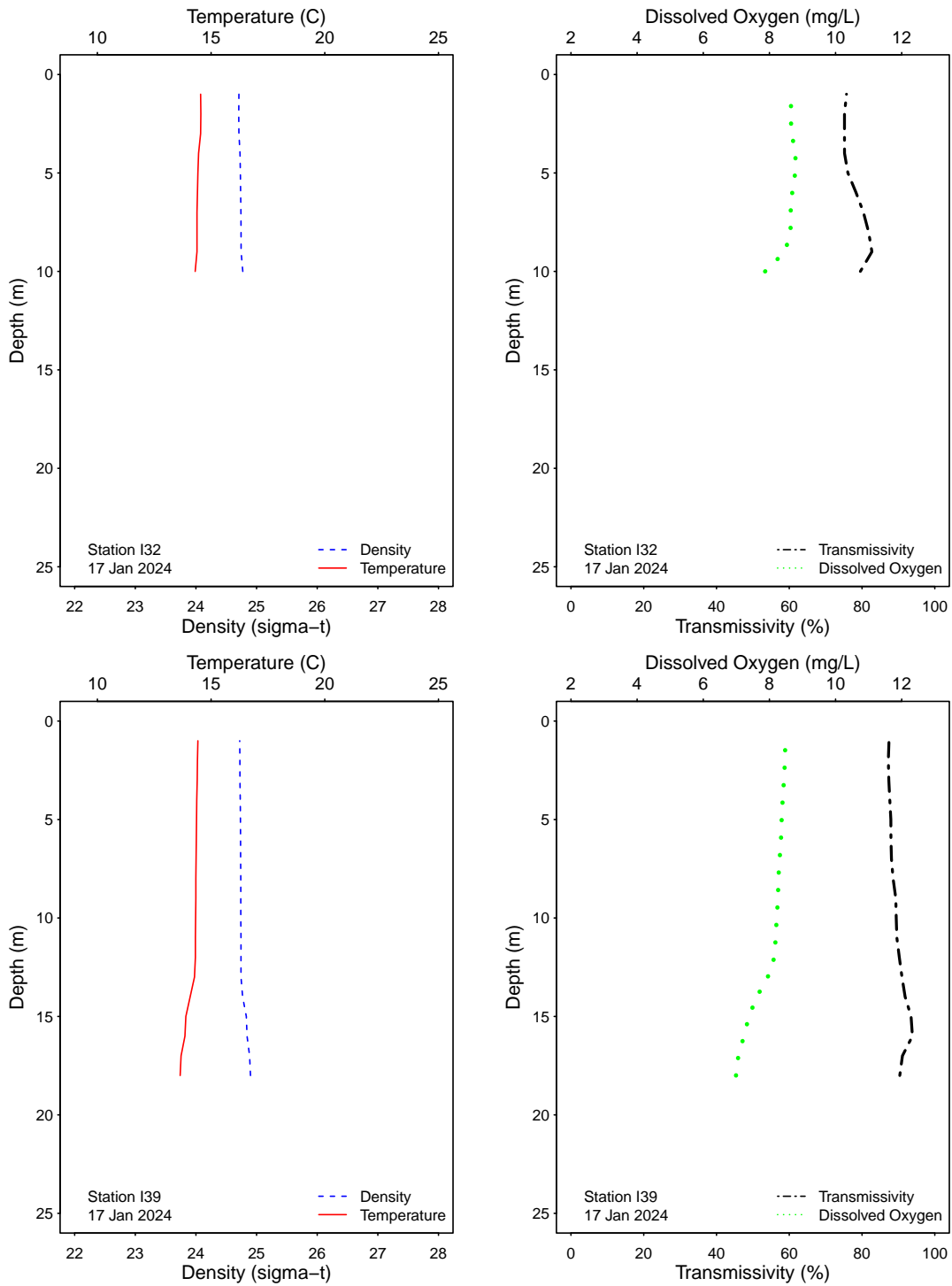


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

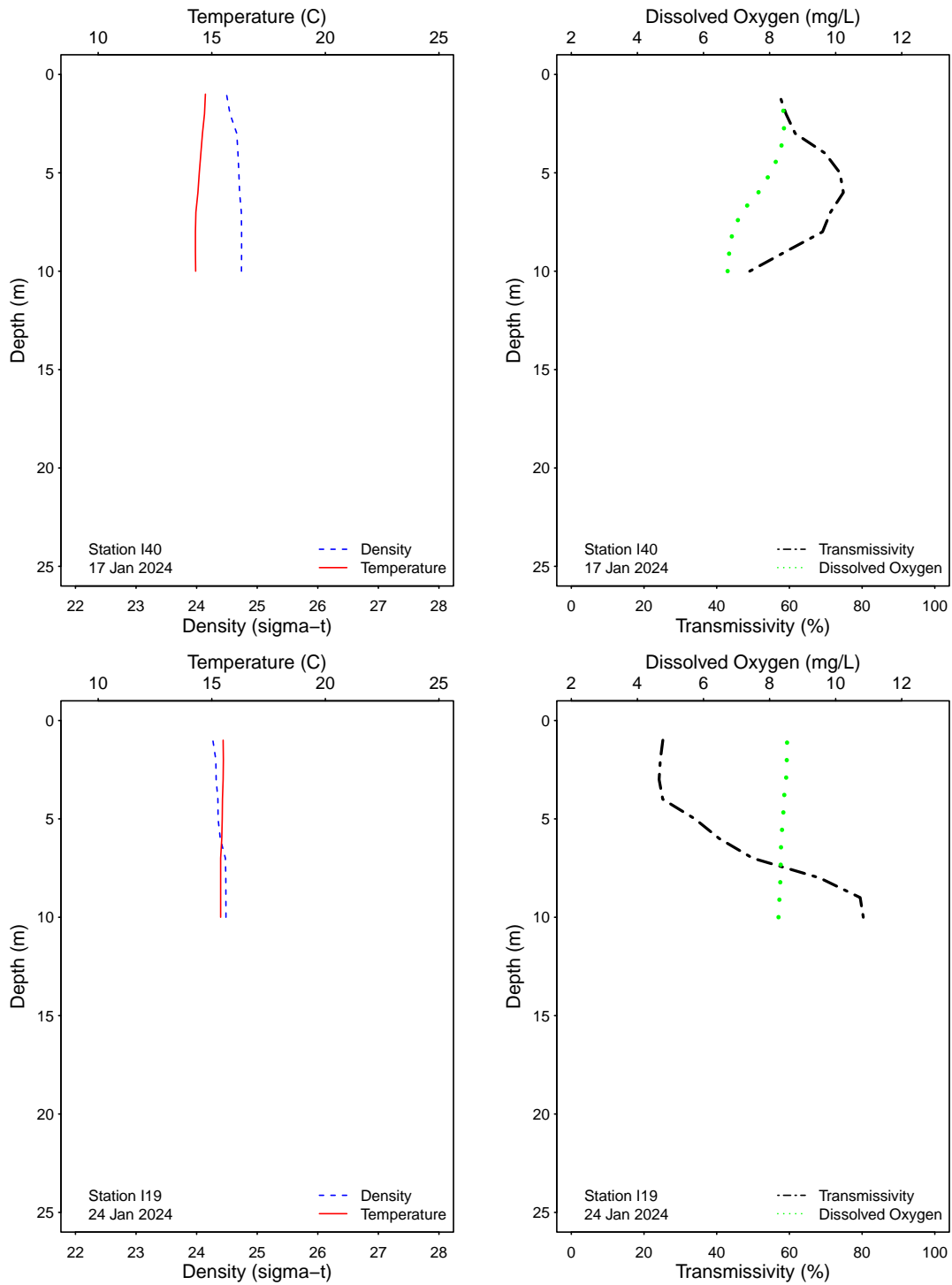


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

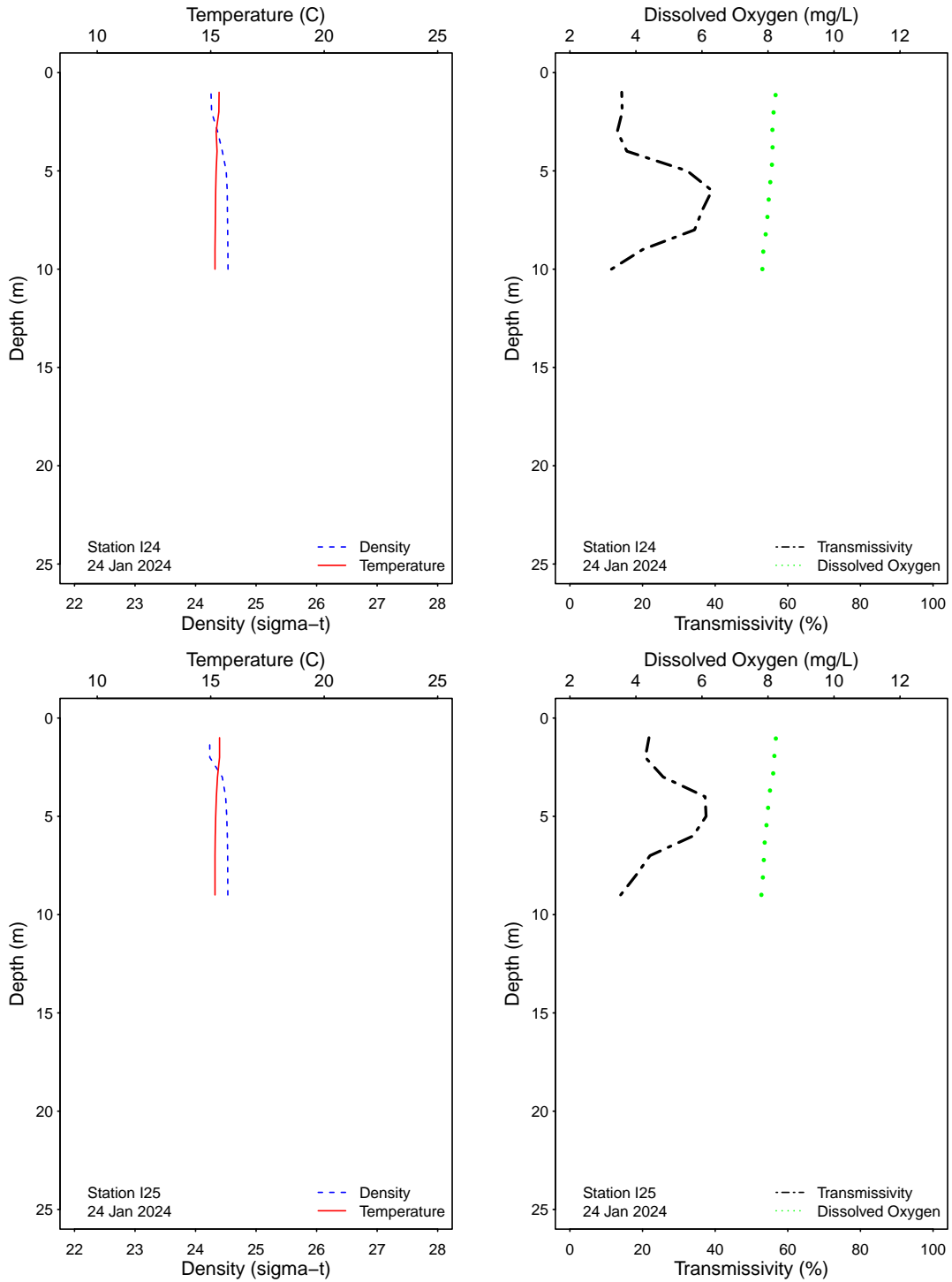


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

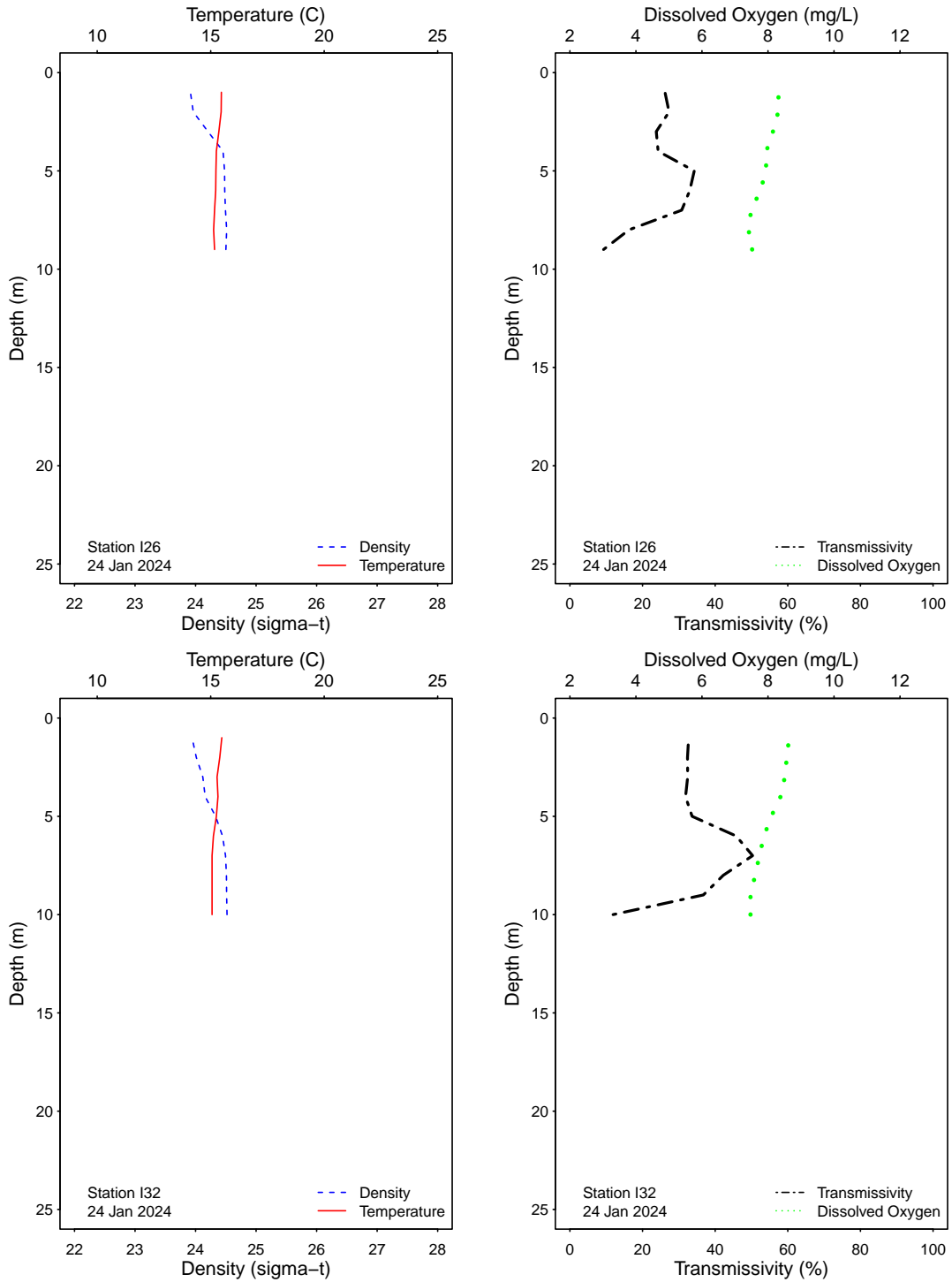


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

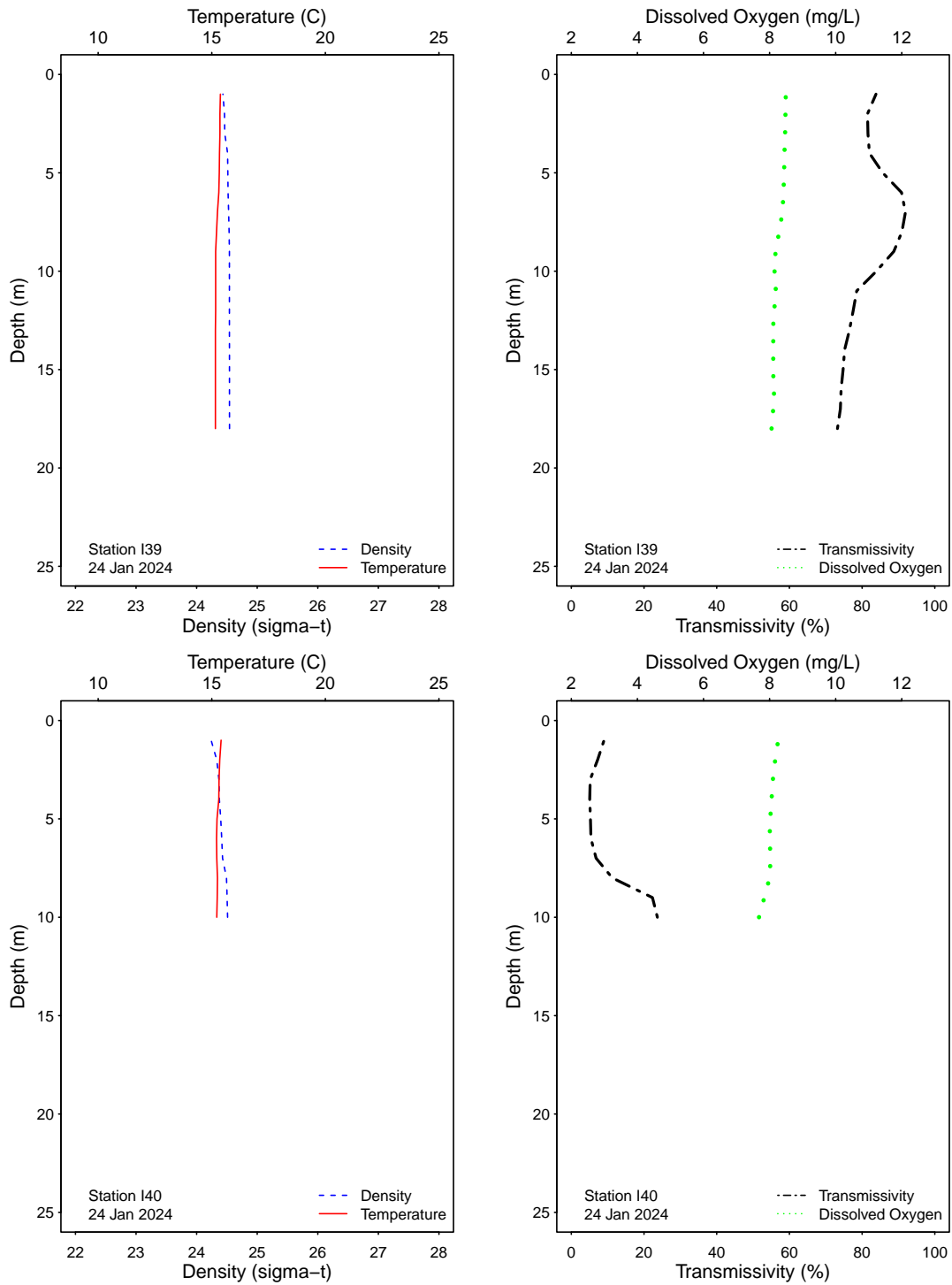


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

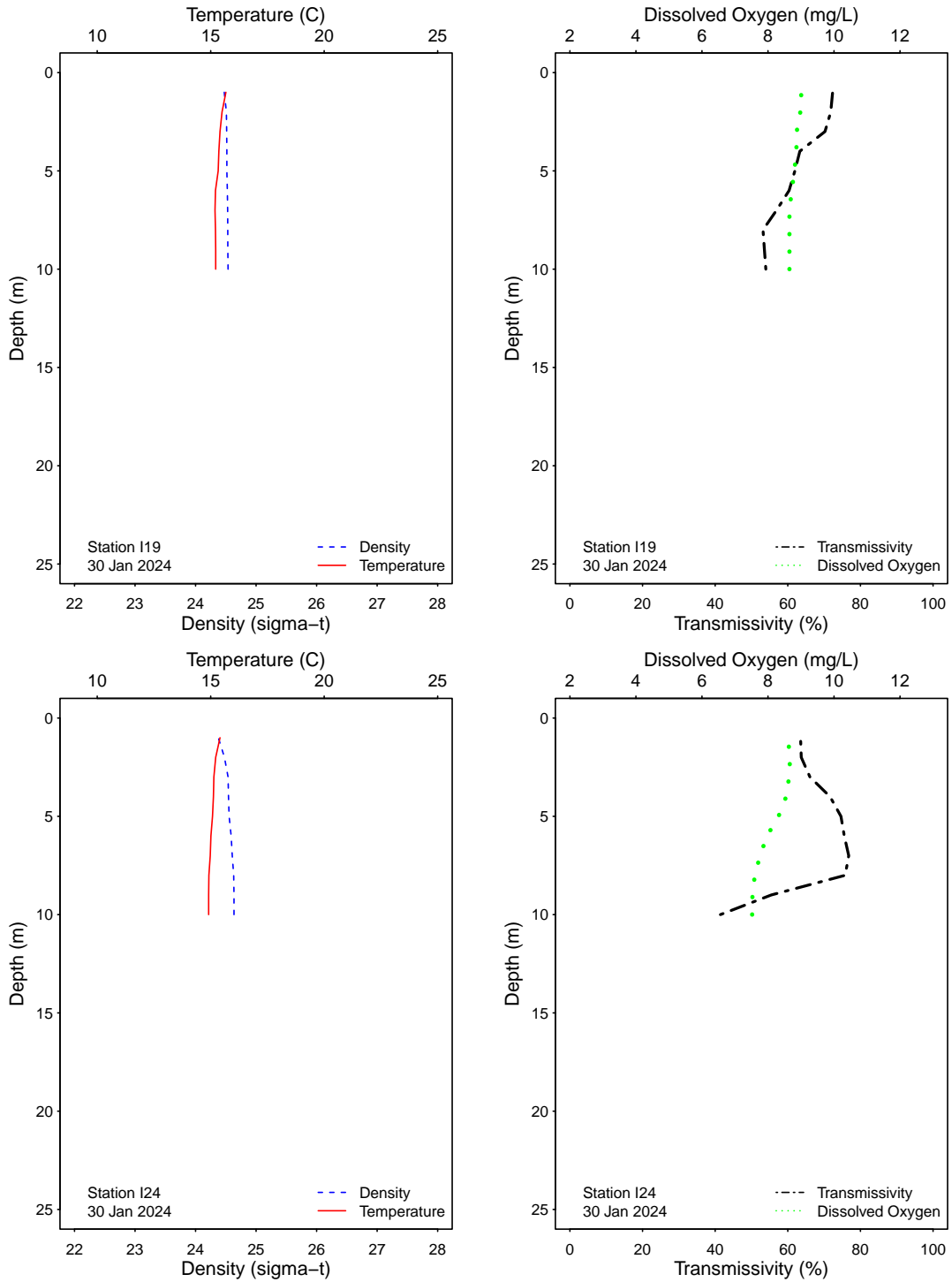


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

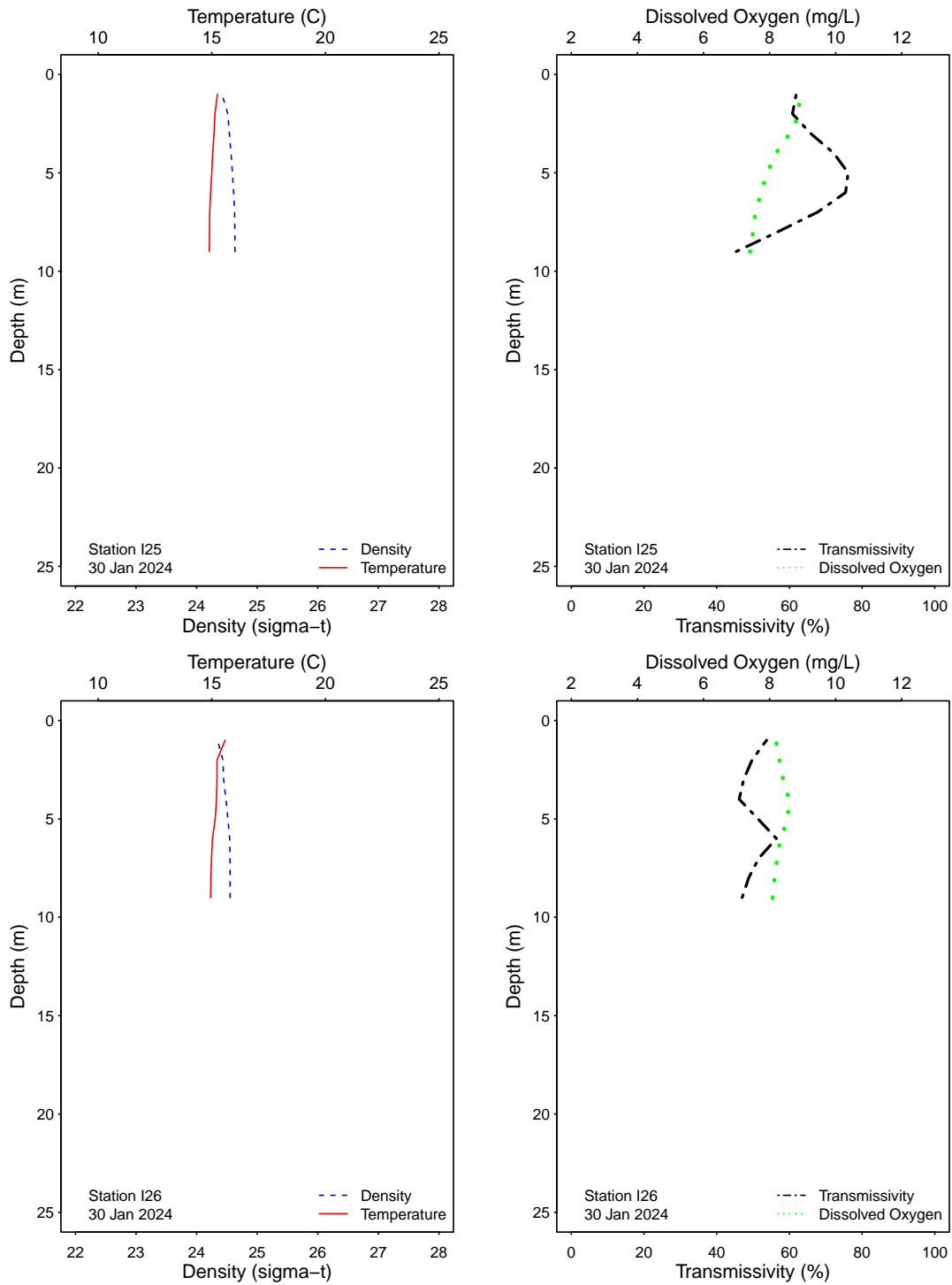


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

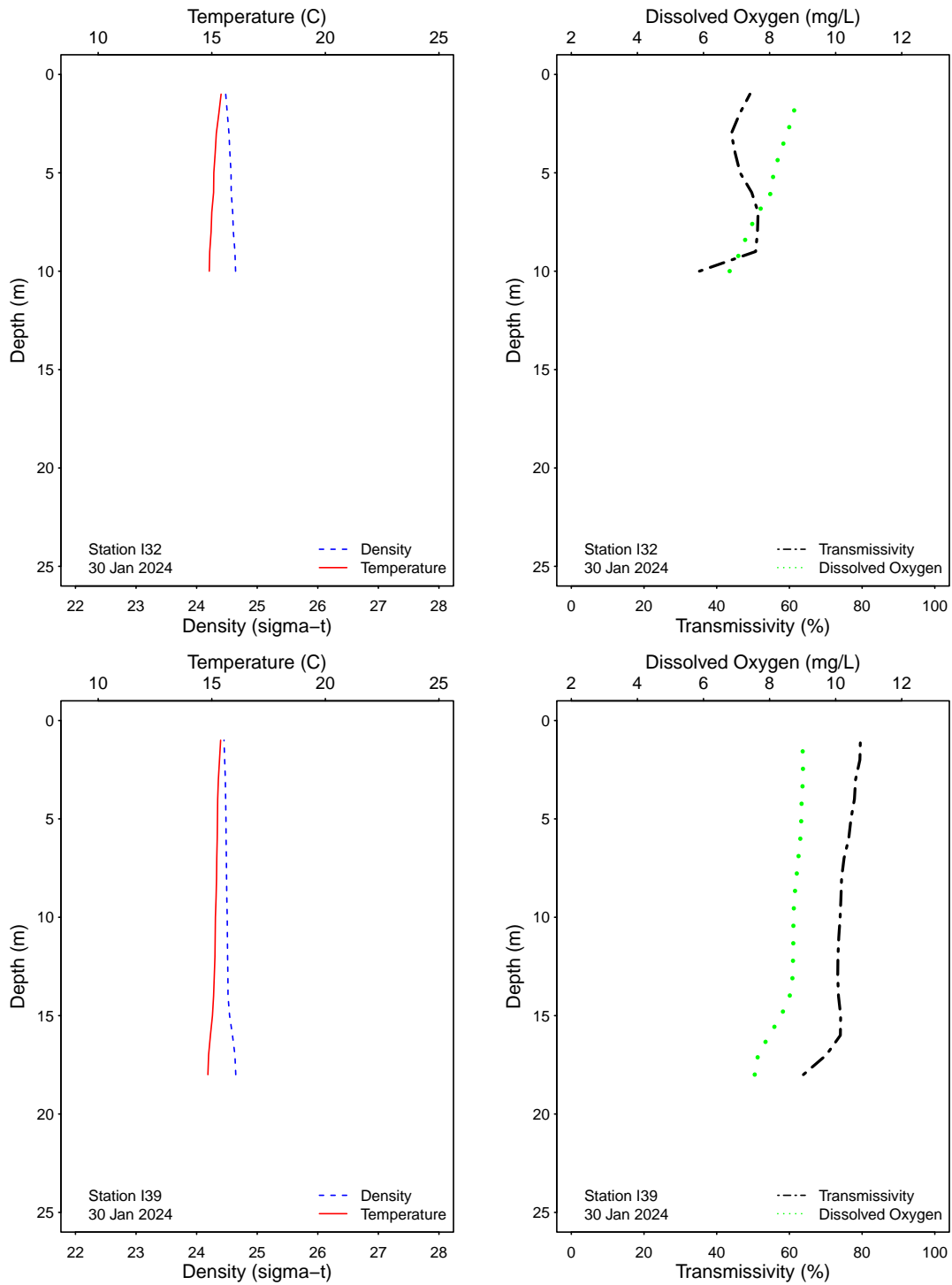


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

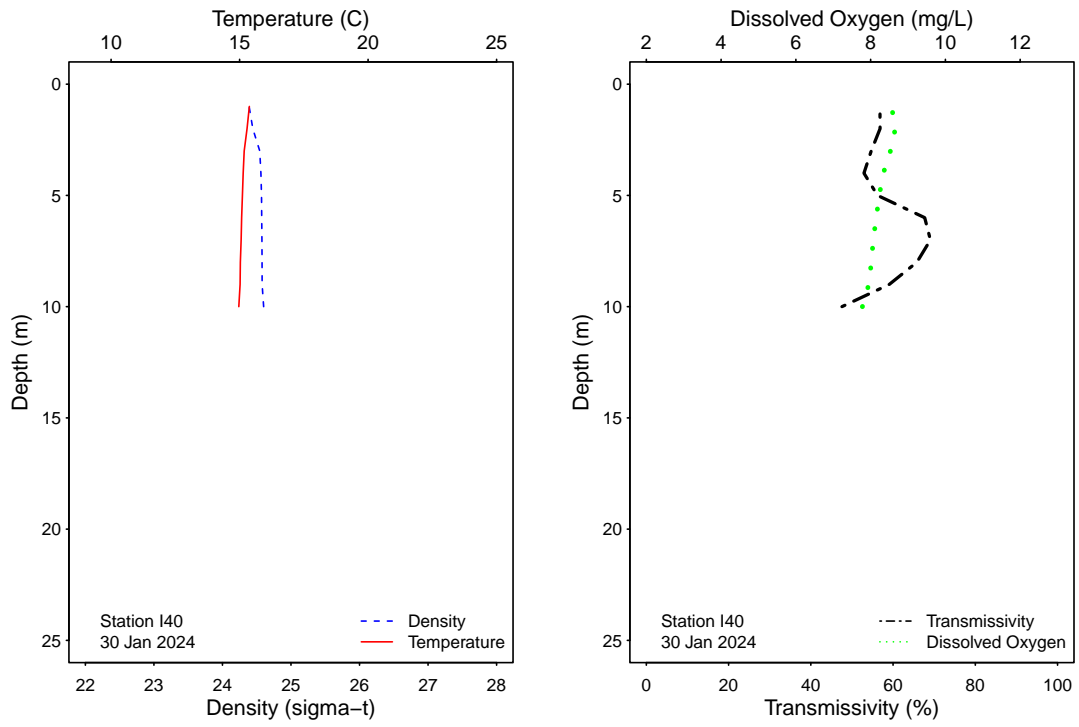


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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* (Entero) are reported as CFU/100 mL.

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
I19	02 Jan 2024	6	KA,KT,JF/KA	LAB DUPLICATE	6800	960	180
I19	09 Jan 2024	6	JF,BS,KT/KT	LAB DUPLICATE	8600	1200	520
I19	17 Jan 2024	6	JF,KA,KT/JF	LAB DUPLICATE	3000	280	82
I19	24 Jan 2024	6	JF,KT,KA/KA	LAB DUPLICATE	11000	1600	680
I19	30 Jan 2024	6	JF,KT,KA/KA	LAB DUPLICATE	3400	300	84
I40	02 Jan 2024	6	KA,KT,JF/KA	LAB DUPLICATE	2800	960	160
I40	09 Jan 2024	6	JF,BS,KT/KT	LAB DUPLICATE	6000	760	300
I40	17 Jan 2024	6	JF,KA,KT/JF	LAB DUPLICATE	1600	140	68
I40	24 Jan 2024	6	JF,KT,KA/KA	LAB DUPLICATE	16000	5200	4200
I40	30 Jan 2024	6	JF,KT,KA/KA	LAB DUPLICATE	1100	120	100
S12	02 Jan 2024		KA,KT/JF	FIELD DUPLICATE	3000	440	86
S12	02 Jan 2024		KA,KT/JF	LAB DUPLICATE	4200	420	68
S12	09 Jan 2024		KT,JF/KT	FIELD DUPLICATE	4	2	6
S12	09 Jan 2024		KT,JF/KT	LAB DUPLICATE	2	2	6
S12	16 Jan 2024		JF,KA,KT/KA	FIELD DUPLICATE	200	16	200
S12	16 Jan 2024		JF,KA,KT/KA	LAB DUPLICATE	160	14	44
S12	23 Jan 2024		KA,JF/KT	LAB DUPLICATE	16000	7600	11000
S12	23 Jan 2024		KA,JF/KT	FIELD DUPLICATE	16000	9600	12000
S12	30 Jan 2024		KA,JF/KT	LAB DUPLICATE	4600	ns	220
S12	30 Jan 2024		KA,JF/KA	LAB DUPLICATE	ns	340	ns
S12	30 Jan 2024		KA,JF/KT	FIELD DUPLICATE	5000	ns	340
S12	30 Jan 2024		KA,JF/KA	FIELD DUPLICATE	ns	360	ns

ns = not sampled

ND = no data

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