

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

OCTOBER 2025

Environmental Monitoring and Technical Services
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November 30, 2025

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 October 2025 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 chromomorphic dissolved organic matter (CDOM). Visual observations of weather and water conditions were also recorded at all stations. Seawater samples for the analysis of indicator bacteria 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 2025 Quality Assurance Report, which will be completed in March 2026.

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.
- During October, each of the eight shore stations located north of the border was out of compliance with the 2019 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - The 30-day geometric mean standard for fecal coliforms was exceeded at stations S5 and S6.
 - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S5, S6, S11, and S12.
 - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S5, S6, S11, and S12.
 - The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S8, S9, S10, S11, and S12.

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

- The STV standard for total coliforms was exceeded at stations S5, S6, S8, S10, S11, and S12.
- A sewage-like odor was detected at stations S5, S6, and S9 on one or more days in October.
- 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 October 7, 15, 21, and 27
- During October, all seven kelp bed stations were out of compliance with one or more of the 2019 Ocean Plan water contact standards on one or more days as follows:
 - The SSM standard for fecal coliforms was exceeded at stations I19, I24, I26, I32, I39, and I40.
 - The STV standard for *Enterococcus* was exceeded at stations I19 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 14.08 to 18.67°C. The difference between surface and bottom waters ranged from 0.46 to 4.52°C.
- Concentrations of chlorophyll *a* ranged from 0.27 to 4.76 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at SBOO kelp stations in October.

➤ **Offshore Water Quality Sampling**

- Quarterly sampling was not conducted during October at the offshore stations. The next quarterly sampling is scheduled for November 2025.



TABLES AND FIGURES

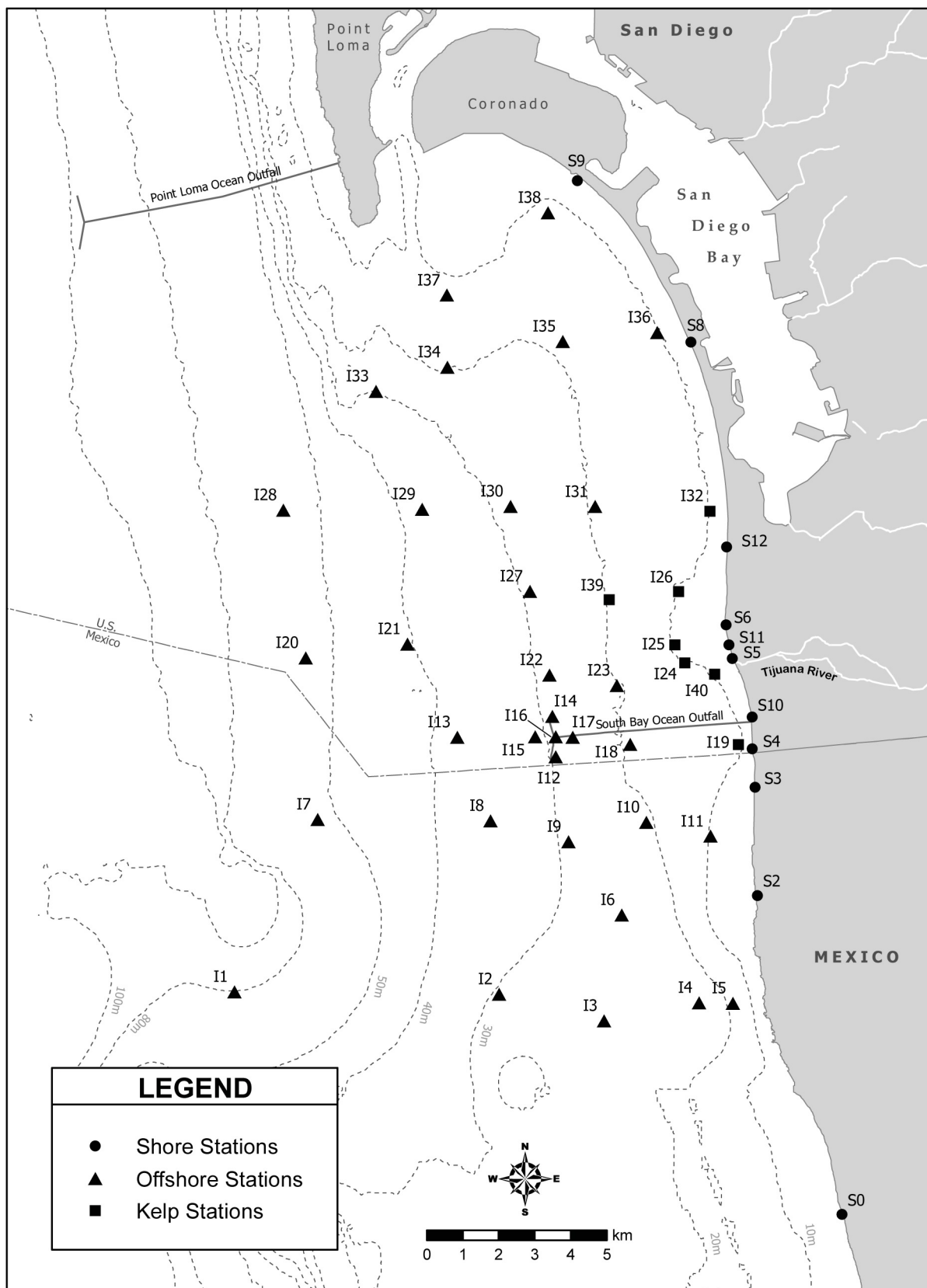


Figure 1.1 Station Map

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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 Oct 2025	18	43	18	7	4	8	7	23
02 Oct 2025	28	44	22	7	4	10	9	15
03 Oct 2025	28	44	22	7	4	10	9	15
04 Oct 2025	28	44	22	7	4	10	9	15
05 Oct 2025	28	44	22	7	4	10	9	15
06 Oct 2025	28	44	22	7	4	10	9	15
07 Oct 2025	28	34	19	6	4	13	9	22
08 Oct 2025	28	34	19	6	4	13	9	22
09 Oct 2025	28	34	19	6	4	13	9	22
10 Oct 2025	31	60	23	4	2	19	12	23
11 Oct 2025	31	60	23	4	2	19	12	23
12 Oct 2025	31	60	23	4	2	19	12	23
13 Oct 2025	31	60	23	4	2	19	12	23
14 Oct 2025	29	51	22	6	2	24	13	17
15 Oct 2025	29	51	22	6	2	24	13	17
16 Oct 2025	39	98	22	7	2	40	19	18
17 Oct 2025	39	98	22	7	2	40	19	18
18 Oct 2025	25	90	66	7	2	28	56	19
19 Oct 2025	25	90	66	7	2	28	56	19
20 Oct 2025	25	90	66	7	2	28	56	19
21 Oct 2025	19	148	138	6	3	18	92	44
22 Oct 2025	19	148	138	6	3	18	92	44
23 Oct 2025	14	238	280	7	4	23	199	66
24 Oct 2025	14	238	280	7	4	23	199	66
25 Oct 2025	14	238	280	7	4	23	199	66
26 Oct 2025	14	238	280	7	4	23	199	66
27 Oct 2025	14	238	280	7	4	23	199	66
28 Oct 2025	14	145	138	6	3	15	111	37
29 Oct 2025	14	145	138	6	3	15	111	37
30 Oct 2025	13	131	134	3	3	13	103	32
31 Oct 2025	13	131	134	3	3	13	103	32

* Geometric mean calculated using n<5

Table 2.2

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
07 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
14 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
18 Oct 2025	IC	E	E	IC	IC	IC	E	IC
21 Oct 2025	IC	E	E	IC	IC	IC	E	E
28 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Oct 2025	11	8	6	5	3	5	14	30
02 Oct 2025	11	8	6	5	3	5	14	30
03 Oct 2025	11	8	6	5	3	5	14	30
04 Oct 2025	11	8	6	5	3	5	14	30
05 Oct 2025	11	8	6	5	3	5	14	30
06 Oct 2025	11	8	6	5	3	5	14	30
07 Oct 2025	11	9	6	5	2	9	11	28
08 Oct 2025	11	9	6	5	2	9	11	28
09 Oct 2025	11	9	6	5	2	9	11	28
10 Oct 2025	11	9	6	5	2	9	11	28
11 Oct 2025	11	9	6	5	2	9	11	28
12 Oct 2025	11	9	6	5	2	9	11	28
13 Oct 2025	11	9	6	5	2	9	11	28
14 Oct 2025	20	9	9	4	2	16	14	15
15 Oct 2025	20	9	9	4	2	16	14	15
16 Oct 2025	20	9	9	4	2	16	14	15
17 Oct 2025	20	9	9	4	2	16	14	15
18 Oct 2025	20	9	9	4	2	16	14	15
19 Oct 2025	20	9	9	4	2	16	14	15
20 Oct 2025	20	9	9	4	2	16	14	15
21 Oct 2025	17	15	15	5	2	12	21	25
22 Oct 2025	15	22	21	6	2	16	26	25
23 Oct 2025	15	22	21	6	2	16	26	25
24 Oct 2025	15	22	21	6	2	16	26	25
25 Oct 2025	15	22	21	6	2	16	26	25
26 Oct 2025	15	22	21	6	2	16	26	25
27 Oct 2025	15	22	21	6	2	16	26	25
28 Oct 2025	19	29	17	6	2	20	26	18
29 Oct 2025	19	29	17	6	2	20	26	18
30 Oct 2025	19	29	17	6	2	20	26	18
31 Oct 2025	19	29	17	6	2	20	26	18

* Geometric mean calculated using $n < 5$

Table 2.4

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
October	IC	E	E	IC	IC	IC	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 Oct 2025	20	180	200	40	20	20	20	60
02 Oct 2025	*110	*110	*200	*30	*20	*50	*20	*40
03 Oct 2025	*110	*110	*200	*30	*20	*50	*20	*40
04 Oct 2025	*110	*110	*200	*30	*20	*50	*20	*40
05 Oct 2025	*110	*110	*200	*30	*20	*50	*20	*40
06 Oct 2025	*110	*110	*200	*30	*20	*50	*20	*40
07 Oct 2025	200	20	200	20	20	80	20	60
08 Oct 2025	200	20	200	20	20	80	20	60
09 Oct 2025	200	20	200	20	20	80	20	60
10 Oct 2025	*110	*110	*200	*20	*110	*140	*110	*110
11 Oct 2025	*110	*110	*200	*20	*110	*140	*110	*110
12 Oct 2025	*110	*110	*200	*20	*110	*140	*110	*110
13 Oct 2025	*110	*110	*200	*20	*110	*140	*110	*110
14 Oct 2025	200	200	200	20	20	200	200	160
15 Oct 2025	200	200	200	20	20	200	200	160
16 Oct 2025	*200	*400	*210	*110	*110	*340	*220	*180
17 Oct 2025	*200	*400	*210	*110	*110	*340	*220	*180
18 Oct 2025	*200	*400	*210	*110	*110	*340	*220	*180
19 Oct 2025	*200	*400	*210	*110	*110	*340	*220	*180
20 Oct 2025	*200	*400	*210	*110	*110	*340	*220	*180
21 Oct 2025	200	600	220	20	120	200	240	200
22 Oct 2025	200	600	220	20	120	200	240	200
23 Oct 2025	*200	*1400	*470	*110	*70	*340	*770	*360
24 Oct 2025	*200	*1400	*470	*110	*70	*340	*770	*360
25 Oct 2025	*200	*1400	*470	*110	*70	*340	*770	*360
26 Oct 2025	*200	*1400	*470	*110	*70	*340	*770	*360
27 Oct 2025	*200	*1400	*470	*110	*70	*340	*770	*360
28 Oct 2025	200	600	220	20	20	200	240	200
29 Oct 2025	200	600	220	20	20	200	240	200
30 Oct 2025	*130	*310	*210	*20	*70	*130	*220	*180
31 Oct 2025	*130	*310	*210	*20	*70	*130	*220	*180

* 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 month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
October	IC	E	E	E	IC	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
S0	07 Oct 2025	900	<200	22e	98
S0	14 Oct 2025	830	1100	120e	220e
S0	21 Oct 2025	900	1600e	620	160e
S0	28 Oct 2025	850	>16000	>12000	>12000
S10	07 Oct 2025	1045	200e	42	64
S10	14 Oct 2025	757	620	80e	60e
S10	16 Oct 2025	1115		NQNA	
S10	18 Oct 2025	959		32e	
S10	21 Oct 2025	1124	<20	<2	2e
S10	28 Oct 2025	740	60e	<2	8e
S11	07 Oct 2025	944	<200	8e	8e
S11	14 Oct 2025	911	240e	20e	8e
S11	16 Oct 2025	953		NQNA	
S11	18 Oct 2025	903		11000	
S11	21 Oct 2025	1018	8800	1100	220e
S11	28 Oct 2025	1019	<20	6e	<2
S12	07 Oct 2025	815	<200	120e	40e
S12	14 Oct 2025	1034	160e	4e	8e
S12	16 Oct 2025	801		NQNA	
S12	18 Oct 2025	721		12e	
S12	21 Oct 2025	906	12000	2800e	500
S12	28 Oct 2025	1101	<20	<2	<2
S2	07 Oct 2025	1005	400e	140e	260e
S2	14 Oct 2025	950	560	44	36e
S2	21 Oct 2025	1005	20e	26e	22e
S2	28 Oct 2025	1025	120e	24e	14e
S3	07 Oct 2025	945	600e	160e	120e
S3	14 Oct 2025	920	980	280e	54
S3	21 Oct 2025	940	<20	12e	14e
S3	28 Oct 2025	940	100e	4e	4e
S4	07 Oct 2025	1118	<200	24e	50
S4	14 Oct 2025	738	<200	20e	70
S4	16 Oct 2025	1139		NQNA	
S4	18 Oct 2025	1021		14e	
S4	21 Oct 2025	1147	4e	4e	6e
S4	28 Oct 2025	804	60e	12e	10e
S5	07 Oct 2025	912	20e	10e	22e
S5	14 Oct 2025	933	600e	22e	10e
S5	16 Oct 2025	921		NQNA	
S5	18 Oct 2025	832		8000	
S5	21 Oct 2025	955	12000	1800e	420
S5	28 Oct 2025	956	<20	12e	12e
S6	07 Oct 2025	1003	<200	10e	24e
S6	14 Oct 2025	856	220e	18e	20e
S6	16 Oct 2025	1010		NQNA	
S6	18 Oct 2025	921		11000	
S6	21 Oct 2025	1032	>16000	5400	460

Station	Date	Time	Total	Fecal	Entero
S6	28 Oct 2025	1036	20e	4e	<2
S8	07 Oct 2025	757	<20	<2	6e
S8	14 Oct 2025	1054	260e	20e	4e
S8	16 Oct 2025	742		NQNA	
S8	18 Oct 2025	703		<2	
S8	21 Oct 2025	839	<20	<2	38e
S8	28 Oct 2025	1122	<2	<2	<2
S9	07 Oct 2025	739	<200	<2	2e
S9	14 Oct 2025	1113	20e	<2	<2
S9	16 Oct 2025	720		NQNA	
S9	18 Oct 2025	644		<2	
S9	21 Oct 2025	818	120e	<20	<2
S9	28 Oct 2025	1145	2e	2e	<2

ns = not sampled

ND = no data

Comments

date	station	depth	parmcode	comments
16-Oct-2025				Not quantifiable due to questions re regarding matrix inhibition, or unusal incubation conditions. Unusual colony counts with mFC + ctrl with no growth.

Table 2.8

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

Station	Date	Parameter	Value
S0	07 Oct 2025	Arrive Time	900
S0	07 Oct 2025	Wind Speed (kts)	4.7
S0	07 Oct 2025	Wind Dir	NE
S0	07 Oct 2025	Animal Life	Seagull-20;
S0	07 Oct 2025	Floatables	
S0	07 Oct 2025	Current Direction	N
S0	07 Oct 2025	Water Temp (C)	14
S0	07 Oct 2025	High Tide Time	926
S0	07 Oct 2025	Low Tide Time	323
S0	07 Oct 2025	Comments	Water turbid; Trash-3; 1.0 L/s water flowing from storm drain
S0	14 Oct 2025	Arrive Time	830
S0	14 Oct 2025	Wind Speed (kts)	6.8
S0	14 Oct 2025	Wind Dir	SE
S0	14 Oct 2025	Animal Life	Seagull-20;
S0	14 Oct 2025	Floatables	
S0	14 Oct 2025	Current Direction	N
S0	14 Oct 2025	Water Temp (C)	13
S0	14 Oct 2025	High Tide Time	616
S0	14 Oct 2025	Low Tide Time	1055
S0	14 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; 7.0 L/s water flowing from storm drain
S0	21 Oct 2025	Arrive Time	900
S0	21 Oct 2025	Wind Speed (kts)	2.3
S0	21 Oct 2025	Wind Dir	SE
S0	21 Oct 2025	Animal Life	Dog-5; Seagull-20;
S0	21 Oct 2025	Floatables	
S0	21 Oct 2025	Current Direction	N
S0	21 Oct 2025	Water Temp (C)	14
S0	21 Oct 2025	High Tide Time	909
S0	21 Oct 2025	Low Tide Time	304
S0	21 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; 1.0 L/s water flowing from storm drain
S0	28 Oct 2025	Arrive Time	850
S0	28 Oct 2025	Wind Speed (kts)	1.9
S0	28 Oct 2025	Wind Dir	SE
S0	28 Oct 2025	Animal Life	Dog-3; Seagull-20;
S0	28 Oct 2025	Floatables	
S0	28 Oct 2025	Current Direction	S
S0	28 Oct 2025	Water Temp (C)	14
S0	28 Oct 2025	High Tide Time	1259
S0	28 Oct 2025	Low Tide Time	2213
S0	28 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; 1.0 L/s water flowing from storm drain
S2	07 Oct 2025	Arrive Time	1005
S2	07 Oct 2025	Wind Speed (kts)	2.3
S2	07 Oct 2025	Wind Dir	NE
S2	07 Oct 2025	Animal Life	Dog-2; Seagull-20;
S2	07 Oct 2025	Floatables	
S2	07 Oct 2025	Current Direction	N
S2	07 Oct 2025	Water Temp (C)	15
S2	07 Oct 2025	High Tide Time	926
S2	07 Oct 2025	Low Tide Time	323

Station	Date	Parameter	Value
S2	07 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S2	14 Oct 2025	Arrive Time	950
S2	14 Oct 2025	Wind Speed (kts)	12.1
S2	14 Oct 2025	Wind Dir	SE
S2	14 Oct 2025	Animal Life	Dog-7; Seagull-20;
S2	14 Oct 2025	Floatables	
S2	14 Oct 2025	Current Direction	N
S2	14 Oct 2025	Water Temp (C)	14
S2	14 Oct 2025	High Tide Time	616
S2	14 Oct 2025	Low Tide Time	1055
S2	14 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S2	21 Oct 2025	Arrive Time	1005
S2	21 Oct 2025	Wind Speed (kts)	2.1
S2	21 Oct 2025	Wind Dir	SE
S2	21 Oct 2025	Animal Life	Dog-6; Seagull-20;
S2	21 Oct 2025	Floatables	
S2	21 Oct 2025	Current Direction	N
S2	21 Oct 2025	Water Temp (C)	14
S2	21 Oct 2025	High Tide Time	909
S2	21 Oct 2025	Low Tide Time	304
S2	21 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S2	28 Oct 2025	Arrive Time	1025
S2	28 Oct 2025	Wind Speed (kts)	1.2
S2	28 Oct 2025	Wind Dir	SE
S2	28 Oct 2025	Animal Life	Seagull-20;
S2	28 Oct 2025	Floatables	
S2	28 Oct 2025	Current Direction	S
S2	28 Oct 2025	Water Temp (C)	15
S2	28 Oct 2025	High Tide Time	1259
S2	28 Oct 2025	Low Tide Time	2213
S2	28 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S3	07 Oct 2025	Arrive Time	945
S3	07 Oct 2025	Wind Speed (kts)	2.1
S3	07 Oct 2025	Wind Dir	NE
S3	07 Oct 2025	Animal Life	Seagull-20;
S3	07 Oct 2025	Floatables	
S3	07 Oct 2025	Current Direction	N
S3	07 Oct 2025	Water Temp (C)	15
S3	07 Oct 2025	High Tide Time	926
S3	07 Oct 2025	Low Tide Time	323
S3	07 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S3	14 Oct 2025	Arrive Time	920
S3	14 Oct 2025	Wind Speed (kts)	7.3
S3	14 Oct 2025	Wind Dir	SE
S3	14 Oct 2025	Animal Life	Dog-3; Seagull-20;
S3	14 Oct 2025	Floatables	
S3	14 Oct 2025	Current Direction	N
S3	14 Oct 2025	Water Temp (C)	14
S3	14 Oct 2025	High Tide Time	616
S3	14 Oct 2025	Low Tide Time	1055
S3	14 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S3	21 Oct 2025	Arrive Time	940
S3	21 Oct 2025	Wind Speed (kts)	1.9
S3	21 Oct 2025	Wind Dir	SE
S3	21 Oct 2025	Animal Life	Dog-2; Seagull-20;

Station	Date	Parameter	Value
S3	21 Oct 2025	Floatables	
S3	21 Oct 2025	Current Direction	N
S3	21 Oct 2025	Water Temp (C)	14
S3	21 Oct 2025	High Tide Time	909
S3	21 Oct 2025	Low Tide Time	304
S3	21 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S3	28 Oct 2025	Arrive Time	940
S3	28 Oct 2025	Wind Speed (kts)	0.9
S3	28 Oct 2025	Wind Dir	SE
S3	28 Oct 2025	Animal Life	Dog-2; Seagull-20;
S3	28 Oct 2025	Floatables	
S3	28 Oct 2025	Current Direction	S
S3	28 Oct 2025	Water Temp (C)	14
S3	28 Oct 2025	High Tide Time	1259
S3	28 Oct 2025	Low Tide Time	2213
S3	28 Oct 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S4	07 Oct 2025	Arrive Time	1118
S4	07 Oct 2025	Wind Speed (kts)	1.8
S4	07 Oct 2025	Wind Dir	SW
S4	07 Oct 2025	Animal Life	
S4	07 Oct 2025	Floatables	
S4	07 Oct 2025	Current Direction	NE
S4	07 Oct 2025	Water Temp (C)	12
S4	07 Oct 2025	High Tide Time	926
S4	07 Oct 2025	Low Tide Time	323
S4	07 Oct 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S4	14 Oct 2025	Arrive Time	738
S4	14 Oct 2025	Wind Speed (kts)	7.1
S4	14 Oct 2025	Wind Dir	SE
S4	14 Oct 2025	Animal Life	
S4	14 Oct 2025	Floatables	
S4	14 Oct 2025	Current Direction	S
S4	14 Oct 2025	Water Temp (C)	14
S4	14 Oct 2025	High Tide Time	616
S4	14 Oct 2025	Low Tide Time	1055
S4	14 Oct 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S4	16 Oct 2025	Arrive Time	1136
S4	16 Oct 2025	Wind Speed (kts)	3.8
S4	16 Oct 2025	Wind Dir	NW
S4	16 Oct 2025	Animal Life	
S4	16 Oct 2025	Floatables	Plastic wrapper
S4	16 Oct 2025	Current Direction	NE
S4	16 Oct 2025	Water Temp (C)	9
S4	16 Oct 2025	High Tide Time	717
S4	16 Oct 2025	Low Tide Time	49
S4	16 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S4	18 Oct 2025	Arrive Time	1021
S4	18 Oct 2025	Wind Speed (kts)	5.6
S4	18 Oct 2025	Wind Dir	W
S4	18 Oct 2025	Animal Life	Bird-16;
S4	18 Oct 2025	Floatables	
S4	18 Oct 2025	Current Direction	NE
S4	18 Oct 2025	Water Temp (C)	16
S4	18 Oct 2025	High Tide Time	805
S4	18 Oct 2025	Low Tide Time	155
S4	18 Oct 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris

Station	Date	Parameter	Value
S4	21 Oct 2025	Arrive Time	1147
S4	21 Oct 2025	Wind Speed (kts)	3.3
S4	21 Oct 2025	Wind Dir	SW
S4	21 Oct 2025	Animal Life	
S4	21 Oct 2025	Floatables	
S4	21 Oct 2025	Current Direction	S
S4	21 Oct 2025	Water Temp (C)	15
S4	21 Oct 2025	High Tide Time	909
S4	21 Oct 2025	Low Tide Time	304
S4	21 Oct 2025	Comments	Water clear; Trash-4; Kelp;Debris;Algae;Seagrass
S4	28 Oct 2025	Arrive Time	804
S4	28 Oct 2025	Wind Speed (kts)	0
S4	28 Oct 2025	Wind Dir	XX
S4	28 Oct 2025	Animal Life	
S4	28 Oct 2025	Floatables	
S4	28 Oct 2025	Current Direction	S
S4	28 Oct 2025	Water Temp (C)	14.2
S4	28 Oct 2025	High Tide Time	1259
S4	28 Oct 2025	Low Tide Time	2213
S4	28 Oct 2025	Comments	Water clear; Trash-5; Kelp;Seagrass
S10	07 Oct 2025	Arrive Time	1045
S10	07 Oct 2025	Wind Speed (kts)	4.8
S10	07 Oct 2025	Wind Dir	NW
S10	07 Oct 2025	Animal Life	
S10	07 Oct 2025	Floatables	
S10	07 Oct 2025	Current Direction	NE
S10	07 Oct 2025	Water Temp (C)	10
S10	07 Oct 2025	High Tide Time	926
S10	07 Oct 2025	Low Tide Time	323
S10	07 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae;Debris
S10	14 Oct 2025	Arrive Time	757
S10	14 Oct 2025	Wind Speed (kts)	9.5
S10	14 Oct 2025	Wind Dir	S
S10	14 Oct 2025	Animal Life	
S10	14 Oct 2025	Floatables	
S10	14 Oct 2025	Current Direction	S
S10	14 Oct 2025	Water Temp (C)	14
S10	14 Oct 2025	High Tide Time	616
S10	14 Oct 2025	Low Tide Time	1055
S10	14 Oct 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S10	16 Oct 2025	Arrive Time	1115
S10	16 Oct 2025	Wind Speed (kts)	4.6
S10	16 Oct 2025	Wind Dir	NW
S10	16 Oct 2025	Animal Life	
S10	16 Oct 2025	Floatables	
S10	16 Oct 2025	Current Direction	NE
S10	16 Oct 2025	Water Temp (C)	15
S10	16 Oct 2025	High Tide Time	717
S10	16 Oct 2025	Low Tide Time	49
S10	16 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S10	18 Oct 2025	Arrive Time	959
S10	18 Oct 2025	Wind Speed (kts)	7.5
S10	18 Oct 2025	Wind Dir	W
S10	18 Oct 2025	Animal Life	Bird-8;
S10	18 Oct 2025	Floatables	

Station	Date	Parameter	Value
S10	18 Oct 2025	Current Direction	NE
S10	18 Oct 2025	Water Temp (C)	20
S10	18 Oct 2025	High Tide Time	805
S10	18 Oct 2025	Low Tide Time	155
S10	18 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S10	21 Oct 2025	Arrive Time	1124
S10	21 Oct 2025	Wind Speed (kts)	4.8
S10	21 Oct 2025	Wind Dir	S
S10	21 Oct 2025	Animal Life	
S10	21 Oct 2025	Floatables	
S10	21 Oct 2025	Current Direction	S
S10	21 Oct 2025	Water Temp (C)	15
S10	21 Oct 2025	High Tide Time	909
S10	21 Oct 2025	Low Tide Time	304
S10	21 Oct 2025	Comments	Water clear; Trash-2; Seagrass;Kelp;Debris
S10	28 Oct 2025	Arrive Time	740
S10	28 Oct 2025	Wind Speed (kts)	0.7
S10	28 Oct 2025	Wind Dir	W
S10	28 Oct 2025	Animal Life	
S10	28 Oct 2025	Floatables	
S10	28 Oct 2025	Current Direction	S
S10	28 Oct 2025	Water Temp (C)	13.4
S10	28 Oct 2025	High Tide Time	1259
S10	28 Oct 2025	Low Tide Time	2213
S10	28 Oct 2025	Comments	Water clear; Trash-5; Seagrass;Kelp
S5	07 Oct 2025	Arrive Time	912
S5	07 Oct 2025	Wind Speed (kts)	0
S5	07 Oct 2025	Wind Dir	XX
S5	07 Oct 2025	Animal Life	
S5	07 Oct 2025	Floatables	
S5	07 Oct 2025	Current Direction	NE
S5	07 Oct 2025	Water Temp (C)	13
S5	07 Oct 2025	High Tide Time	926
S5	07 Oct 2025	Low Tide Time	323
S5	07 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S5	14 Oct 2025	Arrive Time	933
S5	14 Oct 2025	Wind Speed (kts)	14.3
S5	14 Oct 2025	Wind Dir	S
S5	14 Oct 2025	Animal Life	
S5	14 Oct 2025	Floatables	
S5	14 Oct 2025	Current Direction	S
S5	14 Oct 2025	Water Temp (C)	15
S5	14 Oct 2025	High Tide Time	616
S5	14 Oct 2025	Low Tide Time	1055
S5	14 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S5	16 Oct 2025	Arrive Time	921
S5	16 Oct 2025	Wind Speed (kts)	0
S5	16 Oct 2025	Wind Dir	XX
S5	16 Oct 2025	Animal Life	
S5	16 Oct 2025	Floatables	
S5	16 Oct 2025	Current Direction	NE
S5	16 Oct 2025	Water Temp (C)	17
S5	16 Oct 2025	High Tide Time	717
S5	16 Oct 2025	Low Tide Time	49
S5	16 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris

Station	Date	Parameter	Value
S5	18 Oct 2025	Arrive Time	832
S5	18 Oct 2025	Wind Speed (kts)	5.4
S5	18 Oct 2025	Wind Dir	NW
S5	18 Oct 2025	Animal Life	
S5	18 Oct 2025	Floatables	
S5	18 Oct 2025	Current Direction	NE
S5	18 Oct 2025	Water Temp (C)	10
S5	18 Oct 2025	High Tide Time	805
S5	18 Oct 2025	Low Tide Time	155
S5	18 Oct 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris; Sewage-like odor
S5	21 Oct 2025	Arrive Time	955
S5	21 Oct 2025	Wind Speed (kts)	2.7
S5	21 Oct 2025	Wind Dir	SW
S5	21 Oct 2025	Animal Life	
S5	21 Oct 2025	Floatables	Dead animals
S5	21 Oct 2025	Current Direction	S
S5	21 Oct 2025	Water Temp (C)	14
S5	21 Oct 2025	High Tide Time	909
S5	21 Oct 2025	Low Tide Time	304
S5	21 Oct 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris; Sewage-like odor
S5	28 Oct 2025	Arrive Time	956
S5	28 Oct 2025	Wind Speed (kts)	2.5
S5	28 Oct 2025	Wind Dir	W
S5	28 Oct 2025	Animal Life	
S5	28 Oct 2025	Floatables	
S5	28 Oct 2025	Current Direction	S
S5	28 Oct 2025	Water Temp (C)	15.6
S5	28 Oct 2025	High Tide Time	1259
S5	28 Oct 2025	Low Tide Time	2213
S5	28 Oct 2025	Comments	Water clear; Trash-4; Kelp;Seagrass
S11	07 Oct 2025	Arrive Time	944
S11	07 Oct 2025	Wind Speed (kts)	2
S11	07 Oct 2025	Wind Dir	SW
S11	07 Oct 2025	Animal Life	
S11	07 Oct 2025	Floatables	Foam
S11	07 Oct 2025	Current Direction	NE
S11	07 Oct 2025	Water Temp (C)	11
S11	07 Oct 2025	High Tide Time	926
S11	07 Oct 2025	Low Tide Time	323
S11	07 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S11	14 Oct 2025	Arrive Time	911
S11	14 Oct 2025	Wind Speed (kts)	15.3
S11	14 Oct 2025	Wind Dir	S
S11	14 Oct 2025	Animal Life	Dog-2;
S11	14 Oct 2025	Floatables	
S11	14 Oct 2025	Current Direction	S
S11	14 Oct 2025	Water Temp (C)	15
S11	14 Oct 2025	High Tide Time	616
S11	14 Oct 2025	Low Tide Time	1055
S11	14 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-1
S11	16 Oct 2025	Arrive Time	953
S11	16 Oct 2025	Wind Speed (kts)	1.8
S11	16 Oct 2025	Wind Dir	NW

Station	Date	Parameter	Value
S11	16 Oct 2025	Animal Life	
S11	16 Oct 2025	Floatables	
S11	16 Oct 2025	Current Direction	NE
S11	16 Oct 2025	Water Temp (C)	16
S11	16 Oct 2025	High Tide Time	717
S11	16 Oct 2025	Low Tide Time	49
S11	16 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S11	18 Oct 2025	Arrive Time	903
S11	18 Oct 2025	Wind Speed (kts)	9.7
S11	18 Oct 2025	Wind Dir	NW
S11	18 Oct 2025	Animal Life	
S11	18 Oct 2025	Floatables	
S11	18 Oct 2025	Current Direction	NE
S11	18 Oct 2025	Water Temp (C)	11
S11	18 Oct 2025	High Tide Time	805
S11	18 Oct 2025	Low Tide Time	155
S11	18 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S11	21 Oct 2025	Arrive Time	1018
S11	21 Oct 2025	Wind Speed (kts)	4.2
S11	21 Oct 2025	Wind Dir	SW
S11	21 Oct 2025	Animal Life	
S11	21 Oct 2025	Floatables	
S11	21 Oct 2025	Current Direction	S
S11	21 Oct 2025	Water Temp (C)	14
S11	21 Oct 2025	High Tide Time	909
S11	21 Oct 2025	Low Tide Time	304
S11	21 Oct 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris
S11	28 Oct 2025	Arrive Time	1019
S11	28 Oct 2025	Wind Speed (kts)	2.2
S11	28 Oct 2025	Wind Dir	W
S11	28 Oct 2025	Animal Life	
S11	28 Oct 2025	Floatables	
S11	28 Oct 2025	Current Direction	S
S11	28 Oct 2025	Water Temp (C)	15.4
S11	28 Oct 2025	High Tide Time	1259
S11	28 Oct 2025	Low Tide Time	2213
S11	28 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S6	07 Oct 2025	Arrive Time	1003
S6	07 Oct 2025	Wind Speed (kts)	0
S6	07 Oct 2025	Wind Dir	XX
S6	07 Oct 2025	Animal Life	
S6	07 Oct 2025	Floatables	
S6	07 Oct 2025	Current Direction	NE
S6	07 Oct 2025	Water Temp (C)	11
S6	07 Oct 2025	High Tide Time	926
S6	07 Oct 2025	Low Tide Time	323
S6	07 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae;Debris
S6	14 Oct 2025	Arrive Time	856
S6	14 Oct 2025	Wind Speed (kts)	7.9
S6	14 Oct 2025	Wind Dir	S
S6	14 Oct 2025	Animal Life	
S6	14 Oct 2025	Floatables	
S6	14 Oct 2025	Current Direction	S
S6	14 Oct 2025	Water Temp (C)	16

Station	Date	Parameter	Value
S6	14 Oct 2025	High Tide Time	616
S6	14 Oct 2025	Low Tide Time	1055
S6	14 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
S6	16 Oct 2025	Arrive Time	1010
S6	16 Oct 2025	Wind Speed (kts)	2.3
S6	16 Oct 2025	Wind Dir	NW
S6	16 Oct 2025	Animal Life	
S6	16 Oct 2025	Floatables	
S6	16 Oct 2025	Current Direction	NE
S6	16 Oct 2025	Water Temp (C)	16
S6	16 Oct 2025	High Tide Time	717
S6	16 Oct 2025	Low Tide Time	49
S6	16 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
S6	18 Oct 2025	Arrive Time	921
S6	18 Oct 2025	Wind Speed (kts)	9.5
S6	18 Oct 2025	Wind Dir	NW
S6	18 Oct 2025	Animal Life	
S6	18 Oct 2025	Floatables	
S6	18 Oct 2025	Current Direction	NE
S6	18 Oct 2025	Water Temp (C)	10
S6	18 Oct 2025	High Tide Time	805
S6	18 Oct 2025	Low Tide Time	155
S6	18 Oct 2025	Comments	Water clear; Fisherpersion-1; Trash-2; Kelp;Seagrass;Algae;Debris
S6	21 Oct 2025	Arrive Time	1032
S6	21 Oct 2025	Wind Speed (kts)	1.5
S6	21 Oct 2025	Wind Dir	SW
S6	21 Oct 2025	Animal Life	
S6	21 Oct 2025	Floatables	Foam
S6	21 Oct 2025	Current Direction	S
S6	21 Oct 2025	Water Temp (C)	13
S6	21 Oct 2025	High Tide Time	909
S6	21 Oct 2025	Low Tide Time	304
S6	21 Oct 2025	Comments	Water clear; Trash-2; Seagrass;Algae; Sewage-like odor
S6	28 Oct 2025	Arrive Time	1036
S6	28 Oct 2025	Wind Speed (kts)	2.6
S6	28 Oct 2025	Wind Dir	W
S6	28 Oct 2025	Animal Life	Dog-1;
S6	28 Oct 2025	Floatables	
S6	28 Oct 2025	Current Direction	S
S6	28 Oct 2025	Water Temp (C)	14.6
S6	28 Oct 2025	High Tide Time	1259
S6	28 Oct 2025	Low Tide Time	2213
S6	28 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae; Person/Walker/Jogger-1
S12	07 Oct 2025	Arrive Time	815
S12	07 Oct 2025	Wind Speed (kts)	3
S12	07 Oct 2025	Wind Dir	SW
S12	07 Oct 2025	Animal Life	
S12	07 Oct 2025	Floatables	
S12	07 Oct 2025	Current Direction	NE
S12	07 Oct 2025	Water Temp (C)	15
S12	07 Oct 2025	High Tide Time	926
S12	07 Oct 2025	Low Tide Time	323
S12	07 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1

Station	Date	Parameter	Value
S12	14 Oct 2025	Arrive Time	1034
S12	14 Oct 2025	Wind Speed (kts)	18
S12	14 Oct 2025	Wind Dir	S
S12	14 Oct 2025	Animal Life	
S12	14 Oct 2025	Floatables	
S12	14 Oct 2025	Current Direction	S
S12	14 Oct 2025	Water Temp (C)	16
S12	14 Oct 2025	High Tide Time	616
S12	14 Oct 2025	Low Tide Time	1055
S12	14 Oct 2025	Comments	Water clear; Trash-1; Seagrass;Kelp
S12	16 Oct 2025	Arrive Time	801
S12	16 Oct 2025	Wind Speed (kts)	0
S12	16 Oct 2025	Wind Dir	XX
S12	16 Oct 2025	Animal Life	
S12	16 Oct 2025	Floatables	
S12	16 Oct 2025	Current Direction	NE
S12	16 Oct 2025	Water Temp (C)	15
S12	16 Oct 2025	High Tide Time	717
S12	16 Oct 2025	Low Tide Time	49
S12	16 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S12	18 Oct 2025	Arrive Time	721
S12	18 Oct 2025	Wind Speed (kts)	1.3
S12	18 Oct 2025	Wind Dir	NW
S12	18 Oct 2025	Animal Life	
S12	18 Oct 2025	Floatables	
S12	18 Oct 2025	Current Direction	NE
S12	18 Oct 2025	Water Temp (C)	13
S12	18 Oct 2025	High Tide Time	805
S12	18 Oct 2025	Low Tide Time	155
S12	18 Oct 2025	Comments	Water turbid; Trash-2; Kelp;Seagrass;Debris
S12	21 Oct 2025	Arrive Time	906
S12	21 Oct 2025	Wind Speed (kts)	3.2
S12	21 Oct 2025	Wind Dir	W
S12	21 Oct 2025	Animal Life	
S12	21 Oct 2025	Floatables	
S12	21 Oct 2025	Current Direction	S
S12	21 Oct 2025	Water Temp (C)	16
S12	21 Oct 2025	High Tide Time	909
S12	21 Oct 2025	Low Tide Time	304
S12	21 Oct 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S12	28 Oct 2025	Arrive Time	1101
S12	28 Oct 2025	Wind Speed (kts)	2.3
S12	28 Oct 2025	Wind Dir	W
S12	28 Oct 2025	Animal Life	
S12	28 Oct 2025	Floatables	
S12	28 Oct 2025	Current Direction	S
S12	28 Oct 2025	Water Temp (C)	16
S12	28 Oct 2025	High Tide Time	1259
S12	28 Oct 2025	Low Tide Time	2213
S12	28 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S8	07 Oct 2025	Arrive Time	757
S8	07 Oct 2025	Wind Speed (kts)	2.8
S8	07 Oct 2025	Wind Dir	SW
S8	07 Oct 2025	Animal Life	

Station	Date	Parameter	Value
S8	07 Oct 2025	Floatables	
S8	07 Oct 2025	Current Direction	NE
S8	07 Oct 2025	Water Temp (C)	16
S8	07 Oct 2025	High Tide Time	926
S8	07 Oct 2025	Low Tide Time	323
S8	07 Oct 2025	Comments	Water clear; Fisherperson-1; Trash-1; Kelp;Seagrass;Debris
S8	14 Oct 2025	Arrive Time	1054
S8	14 Oct 2025	Wind Speed (kts)	19.2
S8	14 Oct 2025	Wind Dir	S
S8	14 Oct 2025	Animal Life	
S8	14 Oct 2025	Floatables	
S8	14 Oct 2025	Current Direction	S
S8	14 Oct 2025	Water Temp (C)	16
S8	14 Oct 2025	High Tide Time	616
S8	14 Oct 2025	Low Tide Time	1055
S8	14 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
S8	16 Oct 2025	Arrive Time	742
S8	16 Oct 2025	Wind Speed (kts)	1.3
S8	16 Oct 2025	Wind Dir	NW
S8	16 Oct 2025	Animal Life	
S8	16 Oct 2025	Floatables	
S8	16 Oct 2025	Current Direction	NE
S8	16 Oct 2025	Water Temp (C)	15
S8	16 Oct 2025	High Tide Time	717
S8	16 Oct 2025	Low Tide Time	49
S8	16 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S8	18 Oct 2025	Arrive Time	703
S8	18 Oct 2025	Wind Speed (kts)	0
S8	18 Oct 2025	Wind Dir	XX
S8	18 Oct 2025	Animal Life	
S8	18 Oct 2025	Floatables	
S8	18 Oct 2025	Current Direction	NE
S8	18 Oct 2025	Water Temp (C)	15
S8	18 Oct 2025	High Tide Time	805
S8	18 Oct 2025	Low Tide Time	155
S8	18 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S8	21 Oct 2025	Arrive Time	839
S8	21 Oct 2025	Wind Speed (kts)	2.3
S8	21 Oct 2025	Wind Dir	W
S8	21 Oct 2025	Animal Life	Bird-1;
S8	21 Oct 2025	Floatables	
S8	21 Oct 2025	Current Direction	S
S8	21 Oct 2025	Water Temp (C)	16
S8	21 Oct 2025	High Tide Time	909
S8	21 Oct 2025	Low Tide Time	304
S8	21 Oct 2025	Comments	Water clear; Trash-2; Seagrass;Kelp;Debris
S8	28 Oct 2025	Arrive Time	1122
S8	28 Oct 2025	Wind Speed (kts)	2.9
S8	28 Oct 2025	Wind Dir	NW
S8	28 Oct 2025	Animal Life	
S8	28 Oct 2025	Floatables	
S8	28 Oct 2025	Current Direction	S
S8	28 Oct 2025	Water Temp (C)	16.4
S8	28 Oct 2025	High Tide Time	1259
S8	28 Oct 2025	Low Tide Time	2213

Station	Date	Parameter	Value
S8	28 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S9	07 Oct 2025	Arrive Time	739
S9	07 Oct 2025	Wind Speed (kts)	0
S9	07 Oct 2025	Wind Dir	XX
S9	07 Oct 2025	Animal Life	Bird-9;
S9	07 Oct 2025	Floatables	
S9	07 Oct 2025	Current Direction	NE
S9	07 Oct 2025	Water Temp (C)	17
S9	07 Oct 2025	High Tide Time	926
S9	07 Oct 2025	Low Tide Time	323
S9	07 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S9	14 Oct 2025	Arrive Time	1113
S9	14 Oct 2025	Wind Speed (kts)	18.2
S9	14 Oct 2025	Wind Dir	SE
S9	14 Oct 2025	Animal Life	
S9	14 Oct 2025	Floatables	
S9	14 Oct 2025	Current Direction	S
S9	14 Oct 2025	Water Temp (C)	16
S9	14 Oct 2025	High Tide Time	616
S9	14 Oct 2025	Low Tide Time	1055
S9	14 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-6
S9	16 Oct 2025	Arrive Time	720
S9	16 Oct 2025	Wind Speed (kts)	0
S9	16 Oct 2025	Wind Dir	XX
S9	16 Oct 2025	Animal Life	
S9	16 Oct 2025	Floatables	
S9	16 Oct 2025	Current Direction	NE
S9	16 Oct 2025	Water Temp (C)	15
S9	16 Oct 2025	High Tide Time	717
S9	16 Oct 2025	Low Tide Time	49
S9	16 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-2
S9	18 Oct 2025	Arrive Time	644
S9	18 Oct 2025	Wind Speed (kts)	0
S9	18 Oct 2025	Wind Dir	XX
S9	18 Oct 2025	Animal Life	
S9	18 Oct 2025	Floatables	
S9	18 Oct 2025	Current Direction	NE
S9	18 Oct 2025	Water Temp (C)	13
S9	18 Oct 2025	High Tide Time	805
S9	18 Oct 2025	Low Tide Time	155
S9	18 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Sewage-like odor
S9	21 Oct 2025	Arrive Time	818
S9	21 Oct 2025	Wind Speed (kts)	2.5
S9	21 Oct 2025	Wind Dir	SW
S9	21 Oct 2025	Animal Life	
S9	21 Oct 2025	Floatables	
S9	21 Oct 2025	Current Direction	S
S9	21 Oct 2025	Water Temp (C)	16
S9	21 Oct 2025	High Tide Time	909
S9	21 Oct 2025	Low Tide Time	304
S9	21 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris

Station	Date	Parameter	Value
S9	28 Oct 2025	Arrive Time	1145
S9	28 Oct 2025	Wind Speed (kts)	0
S9	28 Oct 2025	Wind Dir	XX
S9	28 Oct 2025	Animal Life	
S9	28 Oct 2025	Floatables	
S9	28 Oct 2025	Current Direction	S
S9	28 Oct 2025	Water Temp (C)	17.5
S9	28 Oct 2025	High Tide Time	1259
S9	28 Oct 2025	Low Tide Time	2213
S9	28 Oct 2025	Comments	Water clear; Trash-1; Kelp; Seagrass

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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 Oct 2025	7	8	7	5	3	3	8
02 Oct 2025	*10	*10	*10	*7	*3	*3	*11
03 Oct 2025	*10	*10	*10	*7	*3	*3	*11
04 Oct 2025	*10	*10	*10	*7	*3	*3	*11
05 Oct 2025	*10	*10	*10	*7	*3	*3	*11
06 Oct 2025	*10	*10	*10	*7	*3	*3	*11
07 Oct 2025	7	7	7	5	3	3	8
08 Oct 2025	*10	*10	*10	*7	*3	*3	*11
09 Oct 2025	*10	*10	*10	*7	*3	*3	*11
10 Oct 2025	*10	*10	*10	*7	*3	*3	*11
11 Oct 2025	*10	*10	*10	*7	*3	*3	*11
12 Oct 2025	*10	*10	*10	*7	*3	*3	*11
13 Oct 2025	*10	*10	*10	*7	*3	*3	*11
14 Oct 2025	*10	*10	*10	*7	*3	*3	*11
15 Oct 2025	19	18	17	15	6	5	32
16 Oct 2025	*33	*30	*29	*25	*7	*6	*64
17 Oct 2025	*33	*30	*29	*25	*7	*6	*64
18 Oct 2025	*33	*30	*29	*25	*7	*6	*64
19 Oct 2025	*33	*30	*29	*25	*7	*6	*64
20 Oct 2025	*33	*30	*29	*25	*7	*6	*64
21 Oct 2025	24	26	35	40	16	19	61
22 Oct 2025	24	26	35	40	16	19	61
23 Oct 2025	*44	*50	*73	*85	*26	*34	*142
24 Oct 2025	*44	*50	*73	*85	*26	*34	*142
25 Oct 2025	*44	*50	*73	*85	*26	*34	*142
26 Oct 2025	*44	*50	*73	*85	*26	*34	*142
27 Oct 2025	42	26	35	40	16	19	61
28 Oct 2025	42	26	35	40	16	19	61
29 Oct 2025	*18	*10	*14	*26	*21	*21	*26
30 Oct 2025	*18	*10	*14	*26	*21	*21	*26
31 Oct 2025	*18	*10	*14	*26	*21	*21	*26

* Geometric mean calculated using $n < 5$

Table 3.2

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

Date	I19	I24	I25	I26	I32	I39	I40
07 Oct 2025	IC	IC	IC	IC	IC	IC	IC
15 Oct 2025	E	E	IC	E	IC	IC	E
21 Oct 2025	IC	IC	IC	E	E	E	IC
27 Oct 2025	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Oct 2025	5	6	5	4	3	3	6
02 Oct 2025	5	6	5	4	3	3	6
03 Oct 2025	5	6	5	4	3	3	6
04 Oct 2025	5	6	5	4	3	3	6
05 Oct 2025	5	6	5	4	3	3	6
06 Oct 2025	5	6	5	4	3	3	6
07 Oct 2025	5	6	5	4	3	3	5
08 Oct 2025	5	6	5	4	3	3	5
09 Oct 2025	5	6	5	4	3	3	5
10 Oct 2025	5	6	5	4	3	3	5
11 Oct 2025	5	6	5	4	3	3	5
12 Oct 2025	5	6	5	4	3	3	5
13 Oct 2025	5	6	5	4	3	3	5
14 Oct 2025	6	6	6	5	3	3	6
15 Oct 2025	11	10	9	9	5	4	14
16 Oct 2025	11	10	9	9	5	4	14
17 Oct 2025	11	10	9	9	5	4	14
18 Oct 2025	11	10	9	9	5	4	14
19 Oct 2025	11	10	9	9	5	4	14
20 Oct 2025	15	14	12	11	6	5	21
21 Oct 2025	11	11	14	13	9	9	20
22 Oct 2025	11	11	14	13	9	9	20
23 Oct 2025	11	11	14	13	9	9	20
24 Oct 2025	11	11	14	13	9	9	20
25 Oct 2025	11	11	14	13	9	9	20
26 Oct 2025	11	11	14	13	9	9	20
27 Oct 2025	8	9	10	10	7	7	14
28 Oct 2025	11	11	14	13	9	9	20
29 Oct 2025	11	11	14	13	9	9	20
30 Oct 2025	11	11	14	13	9	9	20
31 Oct 2025	11	11	14	13	9	9	20

* 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
October	E	IC	IC	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Oct 2025	2	2	6	4	2	2	2	2	4	2	2	2	2	2	4	2	2	2	20	8	10
02 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*11	*2	*2	*2	*2	*3	*2	*2	*2	*37	*6	*11
03 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*11	*3	*2	*2	*2	*3	*2	*2	*2	*37	*6	*11
04 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*11	*3	*2	*2	*2	*3	*2	*2	*2	*37	*6	*11
05 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*11	*3	*2	*2	*2	*3	*2	*2	*2	*37	*6	*11
06 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*11	*3	*2	*2	*2	*3	*2	*2	*2	*37	*6	*11
07 Oct 2025	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2
08 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*2	*3	*2	*2	*11	*21	*2	*2	*2	*46	*6	*11
09 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*2	*3	*2	*2	*11	*21	*2	*2	*2	*46	*6	*11
10 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*2	*3	*2	*2	*11	*21	*2	*2	*2	*46	*6	*11
11 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*2	*3	*2	*2	*11	*21	*2	*2	*2	*46	*6	*11
12 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*2	*3	*2	*2	*11	*21	*2	*2	*2	*46	*6	*11
13 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*2	*3	*2	*2	*11	*21	*2	*2	*2	*46	*6	*11
14 Oct 2025	*2	*11	*7	*3	*2	*2	*2	*2	*3	*2	*3	*2	*2	*11	*21	*2	*2	*2	*46	*6	*11
15 Oct 2025	2	20	12	4	2	2	2	2	4	2	4	2	2	20	40	2	2	2	72	10	20
16 Oct 2025	*51	*310	*1906	*82	*81	*1101	*61	*301	*402	*1201	*312	*331	*16	*70	*50	*2	*48	*21	*1536	*3605	*1001
17 Oct 2025	*51	*310	*1906	*82	*81	*1101	*61	*301	*402	*1201	*312	*331	*16	*70	*50	*2	*48	*21	*1536	*3605	*1001
18 Oct 2025	*51	*310	*1906	*82	*81	*1101	*61	*301	*402	*1201	*312	*331	*16	*70	*50	*2	*48	*21	*1536	*3605	*1001
19 Oct 2025	*51	*310	*1906	*82	*81	*1101	*61	*301	*402	*1201	*312	*331	*16	*70	*50	*2	*48	*21	*1536	*3605	*1001
20 Oct 2025	*51	*310	*1906	*82	*81	*1101	*61	*301	*402	*1201	*312	*331	*16	*70	*50	*2	*48	*21	*1536	*3605	*1001
21 Oct 2025	18	20	12	160	54	6	120	100	10	2400	320	28	20	120	60	2	94	12	1200	10	6
22 Oct 2025	18	20	12	160	54	6	120	100	10	2400	320	28	20	120	60	2	94	12	1200	10	6
23 Oct 2025	*59	*302	*1903	*210	*107	*1103	*960	*350	*405	*3000	*470	*344	*170	*270	*110	*11	*147	*26	*2100	*3604	*1003
24 Oct 2025	*59	*302	*1903	*210	*107	*1103	*960	*350	*405	*3000	*470	*344	*170	*270	*110	*11	*147	*26	*2100	*3604	*1003
25 Oct 2025	*59	*302	*1903	*210	*107	*1103	*960	*350	*405	*3000	*470	*344	*170	*270	*110	*11	*147	*26	*2100	*3604	*1003
26 Oct 2025	*59	*302	*1903	*210	*107	*1103	*960	*350	*405	*3000	*470	*344	*170	*270	*110	*11	*147	*26	*2100	*3604	*1003
27 Oct 2025	100	480	340	160	54	6	120	100	10	2400	320	28	20	120	60	2	94	12	1200	12	20
28 Oct 2025	100	480	340	160	54	6	120	100	10	2400	320	28	20	120	60	2	94	12	1200	12	20
29 Oct 2025	*59	*242	*173	*81	*28	*5	*62	*51	*6	*1801	*162	*15	*170	*220	*100	*2	*48	*7	*610	*10	*13
30 Oct 2025	*59	*242	*173	*81	*28	*5	*62	*51	*6	*1801	*162	*15	*170	*220	*100	*2	*48	*7	*610	*10	*13
31 Oct 2025	*59	*242	*173	*81	*28	*5	*62	*51	*6	*1801	*162	*15	*170	*220	*100	*2	*48	*7	*610	*10	*13

* 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 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
October	IC	E	E	E	IC	E	E	E	E	E	E	E	E	E	E	E	IC	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
I19	07 Oct 2025	1043	2	2e	2e	2e
I19	07 Oct 2025	1043	6	<2	<2	<2
I19	07 Oct 2025	1043	11	<2	<2	<2
I19	15 Oct 2025	1055	2	100e	6e	24e
I19	15 Oct 2025	1055	6	600e	60e	120
I19	15 Oct 2025	1055	11	3800e	620	540
I19	21 Oct 2025	1033	2	18e	14e	2e
I19	21 Oct 2025	1033	6	4e	2e	<2
I19	21 Oct 2025	1033	11	6e	<2	2e
I19	27 Oct 2025	1139	2	100e	8e	2e
I19	27 Oct 2025	1139	6	480	68	<2
I19	27 Oct 2025	1139	11	340e	32e	2e
I24	07 Oct 2025	1103	2	<2	<2	<2
I24	07 Oct 2025	1103	6	2e	<2	<2
I24	07 Oct 2025	1103	11	<2	<2	<2
I24	15 Oct 2025	1114	2	160e	8e	6e
I24	15 Oct 2025	1114	6	160e	22e	38e
I24	15 Oct 2025	1114	11	2200e	460	340e
I24	21 Oct 2025	1054	2	260e	36e	4e
I24	21 Oct 2025	1054	6	54	6e	2e
I24	21 Oct 2025	1054	11	6e	2e	2e
I24	27 Oct 2025	1200	2	2e	<2	<2
I24	27 Oct 2025	1200	6	2e	<2	<2
I24	27 Oct 2025	1200	11	4e	<2	<2
I25	07 Oct 2025	1111	2	<2	<2	<2
I25	07 Oct 2025	1111	6	2e	2e	<2
I25	07 Oct 2025	1111	9	<2	2e	<2
I25	15 Oct 2025	1120	2	120e	4e	22e
I25	15 Oct 2025	1120	6	600e	86	68
I25	15 Oct 2025	1120	9	800e	300e	180e
I25	21 Oct 2025	1101	2	2800e	220e	60
I25	21 Oct 2025	1101	6	100	14e	4e
I25	21 Oct 2025	1101	9	10e	4e	2e
I25	27 Oct 2025	1211	2	4e	<2	<2
I25	27 Oct 2025	1211	6	<2	2e	<2
I25	27 Oct 2025	1211	9	2e	<2	<2
I26	07 Oct 2025	1122	2	<2	<2	<2
I26	07 Oct 2025	1122	6	<2	<2	<2
I26	07 Oct 2025	1122	9	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
I26	15 Oct 2025	1129	2	10000	1000e	200e
I26	15 Oct 2025	1129	6	620	110	86
I26	15 Oct 2025	1129	9	660	76	74
I26	21 Oct 2025	1110	2	3600e	780	70
I26	21 Oct 2025	1110	6	320e	40	12e
I26	21 Oct 2025	1110	9	28e	4e	<2
I26	27 Oct 2025	1221	2	<2	<2	<2
I26	27 Oct 2025	1221	6	4e	<2	<2
I26	27 Oct 2025	1221	9	<2	<2	<2
I32	07 Oct 2025	1134	2	<20	<2	<2
I32	07 Oct 2025	1134	6	<20	<2	<2
I32	07 Oct 2025	1134	9	40e	4e	6e
I32	15 Oct 2025	1140	2	320e	60e	52
I32	15 Oct 2025	1140	6	420	110	110
I32	15 Oct 2025	1140	9	1800e	100e	160e
I32	21 Oct 2025	1123	2	1800e	120e	34e
I32	21 Oct 2025	1123	6	4600	960	98
I32	21 Oct 2025	1123	9	160e	32e	6e
I32	27 Oct 2025	1233	2	<2	<2	<2
I32	27 Oct 2025	1233	6	<2	<2	<2
I32	27 Oct 2025	1233	9	<2	<2	<2
I39	07 Oct 2025	1021	2	<2	<2	<2
I39	07 Oct 2025	1021	12	<2	<2	<2
I39	07 Oct 2025	1021	18	<2	2e	<2
I39	15 Oct 2025	1033	2	<2	<2	<2
I39	15 Oct 2025	1033	12	94	24e	14e
I39	15 Oct 2025	1033	18	540	66	78
I39	21 Oct 2025	1011	2	>16000	5000	640
I39	21 Oct 2025	1011	12	200e	60	12e
I39	21 Oct 2025	1011	18	12e	<2	<2
I39	27 Oct 2025	1115	2	<2	<2	<2
I39	27 Oct 2025	1115	12	<2	<2	<2
I39	27 Oct 2025	1115	18	2e	<2	<2
I40	07 Oct 2025	1056	2	<20	2e	<2
I40	07 Oct 2025	1056	6	<2	<2	<2
I40	07 Oct 2025	1056	9	2e	<2	<2
I40	15 Oct 2025	1106	2	>16000	6200	1800e
I40	15 Oct 2025	1106	6	7200	800e	480
I40	15 Oct 2025	1106	9	2000e	620	440
I40	21 Oct 2025	1026	2	1200	140e	34e
I40	21 Oct 2025	1026	6	8e	2e	<2
I40	21 Oct 2025	1026	9	6e	2e	2e
I40	27 Oct 2025	1152	2	18e	2e	<2
I40	27 Oct 2025	1152	6	12e	<2	<2
I40	27 Oct 2025	1152	9	<20	<2	<2

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
I19	07 Oct 2025	Arrive Time	1043
I19	07 Oct 2025	Depart Time	1047
I19	07 Oct 2025	Air Temp (C)	20.3
I19	07 Oct 2025	Visibility (mi)	10
I19	07 Oct 2025	Wind Speed (kts)	3
I19	07 Oct 2025	Wind Dir	SE
I19	07 Oct 2025	Sea State	Calm
I19	07 Oct 2025	High Tide Time	936
I19	07 Oct 2025	Low Tide Time	1600
I19	07 Oct 2025	Comments	
I19	15 Oct 2025	Arrive Time	1055
I19	15 Oct 2025	Depart Time	1059
I19	15 Oct 2025	Air Temp (C)	19.1
I19	15 Oct 2025	Visibility (mi)	10
I19	15 Oct 2025	Wind Speed (kts)	3.9
I19	15 Oct 2025	Wind Dir	SW
I19	15 Oct 2025	Sea State	Regular Swell
I19	15 Oct 2025	High Tide Time	1754
I19	15 Oct 2025	Low Tide Time	6
I19	15 Oct 2025	Comments	
I19	21 Oct 2025	Arrive Time	1033
I19	21 Oct 2025	Depart Time	1038
I19	21 Oct 2025	Air Temp (C)	18.3
I19	21 Oct 2025	Visibility (mi)	7
I19	21 Oct 2025	Wind Speed (kts)	3.4
I19	21 Oct 2025	Wind Dir	S
I19	21 Oct 2025	Sea State	Light Chop
I19	21 Oct 2025	High Tide Time	912
I19	21 Oct 2025	Low Tide Time	1554
I19	21 Oct 2025	Comments	
I19	27 Oct 2025	Arrive Time	1139
I19	27 Oct 2025	Depart Time	1145
I19	27 Oct 2025	Air Temp (C)	19.6
I19	27 Oct 2025	Visibility (mi)	9
I19	27 Oct 2025	Wind Speed (kts)	3.3
I19	27 Oct 2025	Wind Dir	NW
I19	27 Oct 2025	Sea State	Wind Ripples
I19	27 Oct 2025	High Tide Time	1200
I19	27 Oct 2025	Low Tide Time	2048
I19	27 Oct 2025	Comments	
I40	07 Oct 2025	Arrive Time	1056
I40	07 Oct 2025	Depart Time	1059
I40	07 Oct 2025	Air Temp (C)	20.1
I40	07 Oct 2025	Visibility (mi)	10
I40	07 Oct 2025	Wind Speed (kts)	6.2
I40	07 Oct 2025	Wind Dir	N
I40	07 Oct 2025	Sea State	Calm
I40	07 Oct 2025	High Tide Time	936
I40	07 Oct 2025	Low Tide Time	1600
I40	07 Oct 2025	Comments	Many pelicans
I40	15 Oct 2025	Arrive Time	1106

Station	Date	Parameter	Value
I40	15 Oct 2025	Depart Time	1111
I40	15 Oct 2025	Air Temp (C)	19.3
I40	15 Oct 2025	Visibility (mi)	10
I40	15 Oct 2025	Wind Speed (kts)	3
I40	15 Oct 2025	Wind Dir	SW
I40	15 Oct 2025	Sea State	Regular Swell
I40	15 Oct 2025	High Tide Time	1754
I40	15 Oct 2025	Low Tide Time	6
I40	15 Oct 2025	Comments	brown closeby towards inshore
I40	21 Oct 2025	Arrive Time	1046
I40	21 Oct 2025	Depart Time	1049
I40	21 Oct 2025	Air Temp (C)	17.5
I40	21 Oct 2025	Visibility (mi)	7
I40	21 Oct 2025	Wind Speed (kts)	1.6
I40	21 Oct 2025	Wind Dir	NW
I40	21 Oct 2025	Sea State	Light Chop
I40	21 Oct 2025	High Tide Time	912
I40	21 Oct 2025	Low Tide Time	1554
I40	21 Oct 2025	Comments	
I40	27 Oct 2025	Arrive Time	1152
I40	27 Oct 2025	Depart Time	1158
I40	27 Oct 2025	Air Temp (C)	18.9
I40	27 Oct 2025	Visibility (mi)	9
I40	27 Oct 2025	Wind Speed (kts)	4.8
I40	27 Oct 2025	Wind Dir	NW
I40	27 Oct 2025	Sea State	Wind Ripples
I40	27 Oct 2025	High Tide Time	1200
I40	27 Oct 2025	Low Tide Time	2048
I40	27 Oct 2025	Comments	
I24	07 Oct 2025	Arrive Time	1103
I24	07 Oct 2025	Depart Time	1108
I24	07 Oct 2025	Air Temp (C)	21
I24	07 Oct 2025	Visibility (mi)	10
I24	07 Oct 2025	Wind Speed (kts)	6.4
I24	07 Oct 2025	Wind Dir	N
I24	07 Oct 2025	Sea State	Calm
I24	07 Oct 2025	High Tide Time	936
I24	07 Oct 2025	Low Tide Time	1600
I24	07 Oct 2025	Comments	
I24	15 Oct 2025	Arrive Time	1114
I24	15 Oct 2025	Depart Time	1120
I24	15 Oct 2025	Air Temp (C)	20.3
I24	15 Oct 2025	Visibility (mi)	10
I24	15 Oct 2025	Wind Speed (kts)	2.6
I24	15 Oct 2025	Wind Dir	SW
I24	15 Oct 2025	Sea State	Regular Swell
I24	15 Oct 2025	High Tide Time	1754
I24	15 Oct 2025	Low Tide Time	6
I24	15 Oct 2025	Comments	
I24	21 Oct 2025	Arrive Time	1054
I24	21 Oct 2025	Depart Time	1057
I24	21 Oct 2025	Air Temp (C)	17.6
I24	21 Oct 2025	Visibility (mi)	7
I24	21 Oct 2025	Wind Speed (kts)	4.9
I24	21 Oct 2025	Wind Dir	NW
I24	21 Oct 2025	Sea State	Light Chop

Station	Date	Parameter	Value
I24	21 Oct 2025	High Tide Time	912
I24	21 Oct 2025	Low Tide Time	1554
I24	21 Oct 2025	Comments	
I24	27 Oct 2025	Arrive Time	1200
I24	27 Oct 2025	Depart Time	1208
I24	27 Oct 2025	Air Temp (C)	18.7
I24	27 Oct 2025	Visibility (mi)	9
I24	27 Oct 2025	Wind Speed (kts)	5.7
I24	27 Oct 2025	Wind Dir	NW
I24	27 Oct 2025	Sea State	Regular Swell
I24	27 Oct 2025	High Tide Time	1200
I24	27 Oct 2025	Low Tide Time	2048
I24	27 Oct 2025	Comments	Bottom depth nis 3 misfired, recollected with second cast
I25	07 Oct 2025	Arrive Time	1111
I25	07 Oct 2025	Depart Time	1115
I25	07 Oct 2025	Air Temp (C)	20.3
I25	07 Oct 2025	Visibility (mi)	10
I25	07 Oct 2025	Wind Speed (kts)	8.7
I25	07 Oct 2025	Wind Dir	N
I25	07 Oct 2025	Sea State	Calm
I25	07 Oct 2025	High Tide Time	936
I25	07 Oct 2025	Low Tide Time	1600
I25	07 Oct 2025	Comments	
I25	15 Oct 2025	Arrive Time	1120
I25	15 Oct 2025	Depart Time	1126
I25	15 Oct 2025	Air Temp (C)	20.3
I25	15 Oct 2025	Visibility (mi)	10
I25	15 Oct 2025	Wind Speed (kts)	3.9
I25	15 Oct 2025	Wind Dir	SW
I25	15 Oct 2025	Sea State	Regular Swell
I25	15 Oct 2025	High Tide Time	1754
I25	15 Oct 2025	Low Tide Time	6
I25	15 Oct 2025	Comments	
I25	21 Oct 2025	Arrive Time	1101
I25	21 Oct 2025	Depart Time	1105
I25	21 Oct 2025	Air Temp (C)	17.6
I25	21 Oct 2025	Visibility (mi)	7
I25	21 Oct 2025	Wind Speed (kts)	8.2
I25	21 Oct 2025	Wind Dir	NW
I25	21 Oct 2025	Sea State	Light Chop
I25	21 Oct 2025	High Tide Time	912
I25	21 Oct 2025	Low Tide Time	1554
I25	21 Oct 2025	Comments	
I25	27 Oct 2025	Arrive Time	1211
I25	27 Oct 2025	Depart Time	1216
I25	27 Oct 2025	Air Temp (C)	18.9
I25	27 Oct 2025	Visibility (mi)	9
I25	27 Oct 2025	Wind Speed (kts)	4.6
I25	27 Oct 2025	Wind Dir	NW
I25	27 Oct 2025	Sea State	Regular Swell
I25	27 Oct 2025	High Tide Time	1200
I25	27 Oct 2025	Low Tide Time	2048
I25	27 Oct 2025	Comments	
I39	07 Oct 2025	Arrive Time	1021
I39	07 Oct 2025	Depart Time	1026

Station	Date	Parameter	Value
I39	07 Oct 2025	Air Temp (C)	20
I39	07 Oct 2025	Visibility (mi)	10
I39	07 Oct 2025	Wind Speed (kts)	0.8
I39	07 Oct 2025	Wind Dir	E
I39	07 Oct 2025	Sea State	Calm
I39	07 Oct 2025	High Tide Time	936
I39	07 Oct 2025	Low Tide Time	1600
I39	07 Oct 2025	Comments	
I39	15 Oct 2025	Arrive Time	1033
I39	15 Oct 2025	Depart Time	1037
I39	15 Oct 2025	Air Temp (C)	20
I39	15 Oct 2025	Visibility (mi)	10
I39	15 Oct 2025	Wind Speed (kts)	3.4
I39	15 Oct 2025	Wind Dir	S
I39	15 Oct 2025	Sea State	Regular Swell
I39	15 Oct 2025	High Tide Time	1754
I39	15 Oct 2025	Low Tide Time	6
I39	15 Oct 2025	Comments	light rain during transit
I39	21 Oct 2025	Arrive Time	1011
I39	21 Oct 2025	Depart Time	1015
I39	21 Oct 2025	Air Temp (C)	18.9
I39	21 Oct 2025	Visibility (mi)	7
I39	21 Oct 2025	Wind Speed (kts)	2.6
I39	21 Oct 2025	Wind Dir	N
I39	21 Oct 2025	Sea State	Light Chop
I39	21 Oct 2025	High Tide Time	912
I39	21 Oct 2025	Low Tide Time	1554
I39	21 Oct 2025	Comments	
I39	27 Oct 2025	Arrive Time	1115
I39	27 Oct 2025	Depart Time	1138
I39	27 Oct 2025	Air Temp (C)	19.6
I39	27 Oct 2025	Visibility (mi)	9
I39	27 Oct 2025	Wind Speed (kts)	3.9
I39	27 Oct 2025	Wind Dir	NW
I39	27 Oct 2025	Sea State	Wind Ripples
I39	27 Oct 2025	High Tide Time	1200
I39	27 Oct 2025	Low Tide Time	2048
I39	27 Oct 2025	Comments	
I26	07 Oct 2025	Arrive Time	1122
I26	07 Oct 2025	Depart Time	1125
I26	07 Oct 2025	Air Temp (C)	20.1
I26	07 Oct 2025	Visibility (mi)	10
I26	07 Oct 2025	Wind Speed (kts)	5.6
I26	07 Oct 2025	Wind Dir	N
I26	07 Oct 2025	Sea State	Calm
I26	07 Oct 2025	High Tide Time	936
I26	07 Oct 2025	Low Tide Time	1600
I26	07 Oct 2025	Comments	
I26	15 Oct 2025	Arrive Time	1129
I26	15 Oct 2025	Depart Time	1133
I26	15 Oct 2025	Air Temp (C)	19.9
I26	15 Oct 2025	Visibility (mi)	10
I26	15 Oct 2025	Wind Speed (kts)	2.9
I26	15 Oct 2025	Wind Dir	SW
I26	15 Oct 2025	Sea State	Regular Swell
I26	15 Oct 2025	High Tide Time	1754

Station	Date	Parameter	Value
I26	15 Oct 2025	Low Tide Time	6
I26	15 Oct 2025	Comments	
I26	21 Oct 2025	Arrive Time	1110
I26	21 Oct 2025	Depart Time	1114
I26	21 Oct 2025	Air Temp (C)	16.5
I26	21 Oct 2025	Visibility (mi)	7
I26	21 Oct 2025	Wind Speed (kts)	8
I26	21 Oct 2025	Wind Dir	NW
I26	21 Oct 2025	Sea State	Light Chop
I26	21 Oct 2025	High Tide Time	912
I26	21 Oct 2025	Low Tide Time	1554
I26	21 Oct 2025	Comments	
I26	27 Oct 2025	Arrive Time	1221
I26	27 Oct 2025	Depart Time	1225
I26	27 Oct 2025	Air Temp (C)	19.6
I26	27 Oct 2025	Visibility (mi)	9
I26	27 Oct 2025	Wind Speed (kts)	5.4
I26	27 Oct 2025	Wind Dir	NW
I26	27 Oct 2025	Sea State	Regular Swell
I26	27 Oct 2025	High Tide Time	1200
I26	27 Oct 2025	Low Tide Time	2048
I26	27 Oct 2025	Comments	
I32	07 Oct 2025	Arrive Time	1134
I32	07 Oct 2025	Depart Time	1138
I32	07 Oct 2025	Air Temp (C)	20.7
I32	07 Oct 2025	Visibility (mi)	10
I32	07 Oct 2025	Wind Speed (kts)	3.5
I32	07 Oct 2025	Wind Dir	NW
I32	07 Oct 2025	Sea State	Calm
I32	07 Oct 2025	High Tide Time	936
I32	07 Oct 2025	Low Tide Time	1600
I32	07 Oct 2025	Comments	
I32	15 Oct 2025	Arrive Time	1140
I32	15 Oct 2025	Depart Time	1146
I32	15 Oct 2025	Air Temp (C)	18.9
I32	15 Oct 2025	Visibility (mi)	10
I32	15 Oct 2025	Wind Speed (kts)	3.5
I32	15 Oct 2025	Wind Dir	SW
I32	15 Oct 2025	Sea State	Regular Swell
I32	15 Oct 2025	High Tide Time	1754
I32	15 Oct 2025	Low Tide Time	6
I32	15 Oct 2025	Comments	
I32	21 Oct 2025	Arrive Time	1123
I32	21 Oct 2025	Depart Time	1126
I32	21 Oct 2025	Air Temp (C)	17.5
I32	21 Oct 2025	Visibility (mi)	7
I32	21 Oct 2025	Wind Speed (kts)	4.8
I32	21 Oct 2025	Wind Dir	NW
I32	21 Oct 2025	Sea State	Light Chop
I32	21 Oct 2025	High Tide Time	912
I32	21 Oct 2025	Low Tide Time	1554
I32	21 Oct 2025	Comments	
I32	27 Oct 2025	Arrive Time	1233
I32	27 Oct 2025	Depart Time	1243
I32	27 Oct 2025	Air Temp (C)	19.3

Station	Date	Parameter	Value
I32	27 Oct 2025	Visibility (mi)	9
I32	27 Oct 2025	Wind Speed (kts)	4.5
I32	27 Oct 2025	Wind Dir	NW
I32	27 Oct 2025	Sea State	Regular Swell
I32	27 Oct 2025	High Tide Time	1200
I32	27 Oct 2025	Low Tide Time	2048
I32	27 Oct 2025	Comments	

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	07 Oct 2025	1	18.08	81.75	8.0	33.30	8.0	24.0	0.88
I19	07 Oct 2025	2	18.02	81.67	8.0	33.29	8.0	24.0	0.93
I19	07 Oct 2025	3	17.19	81.52	8.2	33.27	8.0	24.1	1.00
I19	07 Oct 2025	4	16.02	84.23	8.6	33.28	8.0	24.4	1.10
I19	07 Oct 2025	5	15.81	86.96	8.6	33.27	8.0	24.5	1.22
I19	07 Oct 2025	6	15.57	88.75	8.5	33.26	8.0	24.5	1.33
I19	07 Oct 2025	7	15.40	89.42	8.2	33.27	8.0	24.5	1.52
I19	07 Oct 2025	8	15.18	88.96	7.7	33.28	8.0	24.6	2.02
I19	07 Oct 2025	9	15.14	85.9	7.4	33.28	7.9	24.6	2.76
I19	07 Oct 2025	10	15.09	83.69	7.0	33.28	7.9	24.6	3.22
I19	15 Oct 2025	1	17.96	93.39	8.1	33.24	8.1	23.9	0.34
I19	15 Oct 2025	2	17.92	93.34	8.1	33.24	8.1	23.9	0.31
I19	15 Oct 2025	3	17.79	93.38	8.1	33.24	8.1	24.0	0.32
I19	15 Oct 2025	4	17.70	92.91	8.1	33.22	8.1	24.0	0.39
I19	15 Oct 2025	5	17.67	90.55	8.1	33.22	8.1	24.0	0.50
I19	15 Oct 2025	6	17.66	88.48	8.1	33.21	8.1	24.0	0.58
I19	15 Oct 2025	7	17.63	87.33	8.1	33.20	8.1	24.0	0.70
I19	15 Oct 2025	8	17.62	86.04	8.1	33.20	8.1	24.0	0.87
I19	15 Oct 2025	9	17.60	85.34	8.1	33.20	8.1	24.0	0.96
I19	15 Oct 2025	10	17.50	84.33	8.1	33.19	8.1	24.0	1.02
I19	21 Oct 2025	1	17.11	86.04	8.4	33.27	8.1	24.2	0.83
I19	21 Oct 2025	2	17.10	85.85	8.4	33.27	8.1	24.2	0.84
I19	21 Oct 2025	3	16.99	85.36	8.3	33.27	8.0	24.2	0.99
I19	21 Oct 2025	4	16.63	84.59	8.3	33.27	8.0	24.3	1.72
I19	21 Oct 2025	5	16.27	81.37	8.2	33.28	8.0	24.4	2.47
I19	21 Oct 2025	6	16.05	80.85	8.0	33.28	8.0	24.4	2.63
I19	21 Oct 2025	7	15.92	81.83	7.8	33.29	8.0	24.4	2.95
I19	21 Oct 2025	8	15.92	81.27	7.6	33.29	8.0	24.4	2.87
I19	21 Oct 2025	9	15.91	80.39	7.6	33.28	8.0	24.4	2.95
I19	21 Oct 2025	10	15.90	79.18	7.5	33.28	8.0	24.4	2.87
I19	27 Oct 2025	1	17.07	74.26	8.2	33.29	8.0	24.2	1.43
I19	27 Oct 2025	2	17.02	74.33	8.0	33.28	8.0	24.2	1.37
I19	27 Oct 2025	3	16.55	74.01	8.0	33.29	8.0	24.3	1.45
I19	27 Oct 2025	4	16.42	70.11	8.0	33.30	8.0	24.3	2.47
I19	27 Oct 2025	5	16.28	70.38	8.0	33.28	8.0	24.4	3.18
I19	27 Oct 2025	6	16.08	72.93	7.9	33.29	8.0	24.4	3.17
I19	27 Oct 2025	7	15.96	73.17	7.9	33.29	8.0	24.4	2.73
I19	27 Oct 2025	8	15.76	74.76	7.9	33.29	8.0	24.5	2.78
I19	27 Oct 2025	9	15.28	78.25	7.7	33.30	8.0	24.6	2.78
I19	27 Oct 2025	10	15.11	80.46	7.5	33.30	8.0	24.6	2.50
I40	07 Oct 2025	1	18.37	84.56	8.4	33.29	8.1	23.9	1.31
I40	07 Oct 2025	2	18.33	84.65	8.3	33.29	8.1	23.9	1.34
I40	07 Oct 2025	3	18.27	83.86	8.2	33.29	8.1	23.9	1.69
I40	07 Oct 2025	4	18.10	83.16	8.0	33.28	8.1	23.9	1.87
I40	07 Oct 2025	5	17.32	82.1	8.0	33.29	8.0	24.1	2.19
I40	07 Oct 2025	6	16.81	81.66	7.8	33.27	8.0	24.2	2.61
I40	07 Oct 2025	7	16.12	81.26	7.6	33.28	8.0	24.4	2.89
I40	07 Oct 2025	8	15.48	80.09	7.4	33.28	8.0	24.5	3.19
I40	07 Oct 2025	9	15.01	80.38	7.2	33.28	8.0	24.6	2.61
I40	07 Oct 2025	10	14.94	82.15	7.0	33.28	7.9	24.7	2.51
I40	15 Oct 2025	1	17.86	82.38	8.1	33.09	8.1	23.8	0.40
I40	15 Oct 2025	2	17.85	82.19	8.1	33.13	8.1	23.9	0.38
I40	15 Oct 2025	3	17.80	86.49	8.1	33.23	8.1	24.0	0.36
I40	15 Oct 2025	4	17.65	90.68	8.1	33.23	8.1	24.0	0.45
I40	15 Oct 2025	5	17.56	91.68	8.2	33.23	8.1	24.0	0.55
I40	15 Oct 2025	6	17.52	91.89	8.1	33.23	8.1	24.0	0.64
I40	15 Oct 2025	7	17.32	91.49	8.1	33.22	8.1	24.1	0.86
I40	15 Oct 2025	8	17.24	85.6	8.1	33.21	8.1	24.1	1.42
I40	15 Oct 2025	9	17.23	81.19	8.1	33.21	8.1	24.1	1.71
I40	15 Oct 2025	10	17.17	78.13	8.0	33.21	8.1	24.1	1.89
I40	21 Oct 2025	1	17.24	86.71	8.4	33.26	8.1	24.1	0.90
I40	21 Oct 2025	2	17.18	86.55	8.4	33.27	8.1	24.1	0.89

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I40	21 Oct 2025	3	17.04	86.41	8.5	33.27	8.1	24.2	1.21
I40	21 Oct 2025	4	16.67	85.5	8.5	33.28	8.1	24.3	1.57
I40	21 Oct 2025	5	16.50	86.77	8.4	33.27	8.0	24.3	1.64
I40	21 Oct 2025	6	16.09	88.41	8.3	33.28	8.0	24.4	2.10
I40	21 Oct 2025	7	15.99	87.64	8.2	33.29	8.0	24.4	2.81
I40	21 Oct 2025	8	15.97	82.77	8.1	33.28	8.0	24.4	3.27
I40	21 Oct 2025	9	15.93	81.05	8.0	33.28	8.0	24.4	3.43
I40	21 Oct 2025	10	15.88	76.38	7.9	33.28	8.0	24.5	3.53
I40	27 Oct 2025	1	17.38	83.26	8.4	33.28	8.1	24.1	1.12
I40	27 Oct 2025	2	17.35	81.21	8.3	33.28	8.1	24.1	1.06
I40	27 Oct 2025	3	16.82	83.02	8.2	33.28	8.0	24.2	1.12
I40	27 Oct 2025	4	16.37	81.12	8.2	33.30	8.0	24.4	1.62
I40	27 Oct 2025	5	16.07	76.61	8.0	33.29	8.0	24.4	2.16
I40	27 Oct 2025	6	15.62	80.74	7.7	33.29	8.0	24.5	2.79
I40	27 Oct 2025	7	15.29	78.8	7.2	33.28	8.0	24.6	3.39
I40	27 Oct 2025	8	14.84	70.41	6.5	33.29	7.9	24.7	3.18
I40	27 Oct 2025	9	14.75	56.54	6.1	33.29	7.9	24.7	3.23
I40	27 Oct 2025	10	14.72	49.83	5.9	33.29	7.9	24.7	3.14
I24	07 Oct 2025	1	18.67	86.88	8.3	33.30	8.1	23.8	0.81
I24	07 Oct 2025	2	18.61	86.92	8.3	33.30	8.1	23.8	0.82
I24	07 Oct 2025	3	18.53	86.93	8.3	33.30	8.1	23.8	0.94
I24	07 Oct 2025	4	18.41	86.94	8.3	33.30	8.1	23.9	1.19
I24	07 Oct 2025	5	18.23	86.72	8.3	33.30	8.1	23.9	1.34
I24	07 Oct 2025	6	17.96	86.39	8.1	33.29	8.1	24.0	1.48
I24	07 Oct 2025	7	17.31	85.67	7.8	33.27	8.0	24.1	1.75
I24	07 Oct 2025	8	16.25	84.13	7.6	33.27	8.0	24.4	1.94
I24	07 Oct 2025	9	15.62	83.62	7.5	33.28	8.0	24.5	1.73
I24	07 Oct 2025	10	15.22	86.41	7.2	33.28	8.0	24.6	1.50
I24	07 Oct 2025	11	15.06	85.71	6.7	33.28	7.9	24.6	1.32
I24	15 Oct 2025	1	17.72	94.03	8.1	33.24	8.1	24.0	0.29
I24	15 Oct 2025	2	17.71	94.04	8.1	33.24	8.1	24.0	0.27
I24	15 Oct 2025	3	17.54	94	8.1	33.25	8.1	24.0	0.30
I24	15 Oct 2025	4	17.47	94.07	8.1	33.26	8.1	24.1	0.36
I24	15 Oct 2025	5	17.41	94.33	8.1	33.26	8.1	24.1	0.42
I24	15 Oct 2025	6	17.20	94.4	8.2	33.25	8.1	24.1	0.53
I24	15 Oct 2025	7	17.12	92.34	8.2	33.24	8.1	24.1	0.76
I24	15 Oct 2025	8	17.07	88.12	8.1	33.23	8.1	24.1	0.99
I24	15 Oct 2025	9	17.00	81.19	8.1	33.21	8.1	24.1	1.31
I24	15 Oct 2025	10	16.99	75.07	8.1	33.21	8.1	24.1	1.69
I24	21 Oct 2025	1	17.00	90.58	8.7	33.27	8.1	24.2	0.85
I24	21 Oct 2025	2	16.98	90.51	8.7	33.27	8.1	24.2	0.81
I24	21 Oct 2025	3	16.99	90.49	8.7	33.27	8.1	24.2	0.81
I24	21 Oct 2025	4	16.96	90.54	8.6	33.27	8.1	24.2	0.89
I24	21 Oct 2025	5	16.62	90.36	8.6	33.27	8.1	24.3	1.02
I24	21 Oct 2025	6	16.35	90.86	8.5	33.27	8.1	24.3	1.33
I24	21 Oct 2025	7	15.92	90.76	8.4	33.29	8.0	24.4	1.86
I24	21 Oct 2025	8	15.74	90.08	8.2	33.28	8.0	24.5	3.04
I24	21 Oct 2025	9	15.53	88.42	7.9	33.29	8.0	24.5	3.88
I24	21 Oct 2025	10	15.44	83.75	7.4	33.29	8.0	24.6	4.24
I24	21 Oct 2025	11	15.41	78.41	7.3	33.30	8.0	24.6	3.32
I24	27 Oct 2025	1	17.41	82.64	8.4	33.27	8.1	24.1	1.09
I24	27 Oct 2025	2	17.15	82.57	8.4	33.28	8.1	24.2	1.09
I24	27 Oct 2025	3	16.38	83.79	8.4	33.30	8.1	24.4	1.02
I24	27 Oct 2025	4	16.05	86.38	8.2	33.29	8.0	24.4	1.21
I24	27 Oct 2025	5	15.50	85.13	8.0	33.29	8.0	24.5	2.35
I24	27 Oct 2025	6	15.32	79.15	7.7	33.29	8.0	24.6	4.64
I24	27 Oct 2025	7	15.05	77.23	7.3	33.28	8.0	24.6	4.76
I24	27 Oct 2025	8	14.74	72.05	6.6	33.28	7.9	24.7	4.15
I24	27 Oct 2025	9	14.53	67.88	6.1	33.30	7.9	24.8	2.80
I24	27 Oct 2025	10	14.53	66.27	6.0	33.30	7.9	24.8	2.14
I25	07 Oct 2025	1	18.39	87.48	8.3	33.30	8.1	23.9	0.97
I25	07 Oct 2025	2	18.47	87.2	8.3	33.30	8.1	23.9	0.99
I25	07 Oct 2025	3	18.27	86.86	8.2	33.29	8.1	23.9	1.07
I25	07 Oct 2025	4	17.73	86.87	8.3	33.32	8.0	24.1	1.36
I25	07 Oct 2025	5	17.54	88.02	8.3	33.31	8.0	24.1	1.75
I25	07 Oct 2025	6	17.42	87.69	8.1	33.29	8.0	24.1	1.77
I25	07 Oct 2025	7	17.09	86.43	7.8	33.28	8.0	24.2	1.86
I25	07 Oct 2025	8	16.17	85.35	7.4	33.26	8.0	24.4	2.06

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I25	07 Oct 2025	9	15.21	84.24	7.4	33.29	8.0	24.6	1.66
I25	15 Oct 2025	1	17.69	93.31	8.1	33.24	8.1	24.0	0.34
I25	15 Oct 2025	2	17.60	93.41	8.1	33.24	8.1	24.0	0.31
I25	15 Oct 2025	3	17.47	93.46	8.1	33.26	8.1	24.1	0.33
I25	15 Oct 2025	4	17.38	94.12	8.1	33.26	8.1	24.1	0.37
I25	15 Oct 2025	5	17.24	94.24	8.2	33.26	8.1	24.1	0.50
I25	15 Oct 2025	6	17.06	90.89	8.1	33.23	8.1	24.1	0.62
I25	15 Oct 2025	7	17.00	86.1	8.1	33.22	8.1	24.2	0.92
I25	15 Oct 2025	8	16.99	82.67	8.1	33.22	8.1	24.2	1.12
I25	15 Oct 2025	9	16.98	79.9	8.1	33.22	8.1	24.2	1.31
I25	21 Oct 2025	1	17.03	90.55	8.7	33.27	8.1	24.2	0.80
I25	21 Oct 2025	2	17.06	90.54	8.7	33.26	8.1	24.2	0.76
I25	21 Oct 2025	3	17.02	90.6	8.7	33.27	8.1	24.2	0.87
I25	21 Oct 2025	4	16.94	90.51	8.6	33.27	8.1	24.2	1.01
I25	21 Oct 2025	5	16.63	90.54	8.6	33.27	8.1	24.3	1.03
I25	21 Oct 2025	6	16.18	90.93	8.5	33.28	8.0	24.4	1.32
I25	21 Oct 2025	7	15.89	90.2	8.2	33.29	8.0	24.5	2.10
I25	21 Oct 2025	8	15.71	85.44	7.8	33.29	8.0	24.5	3.02
I25	21 Oct 2025	9	15.72	80.83	7.6	33.29	8.0	24.5	2.58
I25	27 Oct 2025	1	17.39	82.78	8.3	33.29	8.0	24.1	0.97
I25	27 Oct 2025	2	17.27	82.72	8.2	33.28	8.0	24.1	0.96
I25	27 Oct 2025	3	16.06	82.68	8.2	33.29	8.0	24.4	0.97
I25	27 Oct 2025	4	15.65	84.61	8.0	33.30	8.0	24.5	1.37
I25	27 Oct 2025	5	15.35	84.38	7.7	33.29	8.0	24.6	2.36
I25	27 Oct 2025	6	15.00	80.84	7.3	33.29	8.0	24.7	3.78
I25	27 Oct 2025	7	14.81	79.06	6.9	33.28	7.9	24.7	3.24
I25	27 Oct 2025	8	14.71	75.22	6.6	33.29	7.9	24.7	2.91
I25	27 Oct 2025	9	14.74	68.64	6.5	33.29	7.9	24.7	1.95
I39	07 Oct 2025	1	18.61	90.93	8.5	33.31	8.1	23.8	0.90
I39	07 Oct 2025	2	18.64	90.8	8.4	33.30	8.1	23.8	0.93
I39	07 Oct 2025	3	18.20	90.92	8.3	33.31	8.1	23.9	1.19
I39	07 Oct 2025	4	17.79	90.48	8.0	33.31	8.0	24.0	1.38
I39	07 Oct 2025	5	16.86	89.48	7.8	33.31	8.0	24.3	1.67
I39	07 Oct 2025	6	16.40	88.24	7.9	33.31	8.0	24.4	2.20
I39	07 Oct 2025	7	16.24	87.44	7.9	33.30	8.0	24.4	2.44
I39	07 Oct 2025	8	16.07	86.76	7.9	33.29	8.0	24.4	2.74
I39	07 Oct 2025	9	15.96	86.31	7.8	33.29	8.0	24.4	2.78
I39	07 Oct 2025	10	15.77	86.2	7.8	33.29	8.0	24.5	2.77
I39	07 Oct 2025	11	15.54	87.33	7.9	33.29	8.0	24.5	2.53
I39	07 Oct 2025	12	15.41	88.26	7.9	33.28	8.0	24.6	2.36
I39	07 Oct 2025	13	15.17	88.9	7.9	33.28	8.0	24.6	2.31
I39	07 Oct 2025	14	14.97	89.61	7.8	33.27	8.0	24.6	2.39
I39	07 Oct 2025	15	14.33	90.03	7.4	33.28	8.0	24.8	2.19
I39	07 Oct 2025	16	14.14	91.49	7.2	33.29	7.9	24.8	1.59
I39	07 Oct 2025	17	14.12	92.08	7.1	33.29	7.9	24.8	1.21
I39	07 Oct 2025	18	14.12	92.24	7.0	33.28	7.9	24.8	1.21
I39	15 Oct 2025	1	17.50	95.34	8.1	33.28	8.1	24.1	0.34
I39	15 Oct 2025	2	17.45	95.22	8.1	33.28	8.1	24.1	0.36
I39	15 Oct 2025	3	17.35	95.17	8.2	33.28	8.1	24.1	0.38
I39	15 Oct 2025	4	17.31	95.15	8.2	33.28	8.1	24.1	0.42
I39	15 Oct 2025	5	17.28	94.92	8.2	33.27	8.1	24.1	0.47
I39	15 Oct 2025	6	17.21	94.72	8.2	33.27	8.1	24.1	0.50
I39	15 Oct 2025	7	17.13	94.48	8.2	33.27	8.1	24.2	0.56
I39	15 Oct 2025	8	17.05	94.19	8.2	33.27	8.1	24.2	0.65
I39	15 Oct 2025	9	17.02	93.43	8.2	33.27	8.1	24.2	0.78
I39	15 Oct 2025	10	17.00	92.59	8.2	33.26	8.1	24.2	0.97
I39	15 Oct 2025	11	16.99	91.92	8.2	33.26	8.1	24.2	1.13
I39	15 Oct 2025	12	16.98	91.34	8.1	33.26	8.1	24.2	1.27
I39	15 Oct 2025	13	16.94	90.81	8.1	33.26	8.1	24.2	1.44
I39	15 Oct 2025	14	16.89	89.77	8.1	33.26	8.1	24.2	1.58
I39	15 Oct 2025	15	16.85	88.66	8.1	33.26	8.0	24.2	1.57
I39	15 Oct 2025	16	16.83	88.02	8.1	33.26	8.0	24.2	1.56
I39	15 Oct 2025	17	16.81	87.72	8.1	33.26	8.0	24.2	1.41
I39	15 Oct 2025	18	16.81	87.83	8.1	33.26	8.0	24.2	1.33
I39	21 Oct 2025	1	17.15	81.08	8.3	33.13	8.0	24.0	1.75
I39	21 Oct 2025	2	17.13	81.19	8.3	33.13	8.0	24.1	1.78
I39	21 Oct 2025	3	17.12	80.93	8.4	33.14	8.0	24.1	2.23
I39	21 Oct 2025	4	17.12	80.59	8.4	33.15	8.0	24.1	2.80

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	21 Oct 2025	5	17.14	80.56	8.4	33.16	8.0	24.1	3.17
I39	21 Oct 2025	6	17.15	80.65	8.4	33.16	8.0	24.1	3.34
I39	21 Oct 2025	7	17.23	80.7	8.4	33.19	8.0	24.1	3.35
I39	21 Oct 2025	8	17.26	81.09	8.3	33.20	8.0	24.1	3.45
I39	21 Oct 2025	9	16.95	81.45	8.3	33.22	8.0	24.2	3.19
I39	21 Oct 2025	10	16.42	82.79	8.2	33.26	8.0	24.3	2.81
I39	21 Oct 2025	11	15.93	85.26	8.0	33.28	8.0	24.4	2.85
I39	21 Oct 2025	12	15.46	84.62	7.6	33.30	8.0	24.6	3.56
I39	21 Oct 2025	13	15.23	82.36	7.4	33.30	8.0	24.6	4.24
I39	21 Oct 2025	14	15.11	81.83	7.3	33.30	8.0	24.6	3.87
I39	21 Oct 2025	15	15.03	84.48	7.2	33.30	8.0	24.7	2.67
I39	21 Oct 2025	16	14.95	88.42	7.1	33.30	7.9	24.7	2.41
I39	21 Oct 2025	17	14.77	88.49	7.1	33.31	7.9	24.7	2.11
I39	21 Oct 2025	18	14.66	89.69	7.0	33.31	7.9	24.7	1.65
I39	27 Oct 2025	1	17.53	88.06	8.4	33.30	8.1	24.1	0.77
I39	27 Oct 2025	2	17.37	87.67	8.4	33.29	8.1	24.1	0.76
I39	27 Oct 2025	3	16.89	88.27	8.3	33.29	8.0	24.2	0.78
I39	27 Oct 2025	4	16.53	89.35	8.3	33.30	8.0	24.3	0.78
I39	27 Oct 2025	5	16.46	90.68	8.3	33.30	8.0	24.3	0.91
I39	27 Oct 2025	6	16.36	91.19	8.2	33.30	8.0	24.4	1.06
I39	27 Oct 2025	7	15.96	90.9	8.0	33.29	8.0	24.4	1.29
I39	27 Oct 2025	8	15.31	90.44	7.8	33.28	8.0	24.6	1.71
I39	27 Oct 2025	9	14.57	89.27	7.5	33.31	8.0	24.8	1.66
I39	27 Oct 2025	10	14.36	91.33	7.3	33.30	7.9	24.8	1.10
I39	27 Oct 2025	11	14.20	95.69	7.1	33.30	7.9	24.8	0.86
I39	27 Oct 2025	12	14.24	96.66	7.1	33.30	7.9	24.8	0.90
I39	27 Oct 2025	13	14.15	96.8	7.0	33.30	7.9	24.8	0.84
I39	27 Oct 2025	14	14.12	96.94	7.0	33.30	7.9	24.9	0.92
I39	27 Oct 2025	15	14.12	96.81	7.0	33.31	7.9	24.9	0.94
I39	27 Oct 2025	16	14.12	96.61	7.0	33.31	7.9	24.9	0.99
I39	27 Oct 2025	17	14.12	96.53	7.0	33.31	7.9	24.9	1.09
I39	27 Oct 2025	18	14.08	96.48	6.8	33.32	7.9	24.9	1.11
I26	07 Oct 2025	1	18.47	89.42	8.5	33.30	8.1	23.9	0.66
I26	07 Oct 2025	2	18.40	89.5	8.5	33.30	8.1	23.9	0.61
I26	07 Oct 2025	3	18.32	89.03	8.5	33.31	8.1	23.9	0.66
I26	07 Oct 2025	4	18.09	89	8.4	33.30	8.1	23.9	0.73
I26	07 Oct 2025	5	17.35	89.51	8.4	33.31	8.0	24.1	0.98
I26	07 Oct 2025	6	17.29	88.69	8.4	33.30	8.0	24.1	1.22
I26	07 Oct 2025	7	17.04	88.54	8.4	33.30	8.0	24.2	1.39
I26	07 Oct 2025	8	16.78	88.37	8.2	33.29	8.0	24.3	1.58
I26	07 Oct 2025	9	16.14	87.98	7.9	33.26	8.0	24.4	1.77
I26	15 Oct 2025	1	17.75	80.61	8.1	32.78	8.1	23.6	0.54
I26	15 Oct 2025	2	17.48	NA	8.1	33.22	8.1	24.0	0.49
I26	15 Oct 2025	3	17.35	NA	8.1	33.24	8.1	24.1	0.53
I26	15 Oct 2025	4	17.11	85.35	8.1	33.23	8.1	24.1	0.83
I26	15 Oct 2025	5	17.03	87.74	8.1	33.23	8.1	24.1	1.17
I26	15 Oct 2025	6	16.79	86.4	8.0	33.23	8.0	24.2	1.32
I26	15 Oct 2025	7	16.52	84.29	8.0	33.22	8.0	24.3	1.60
I26	15 Oct 2025	8	16.47	79.31	8.0	33.22	8.0	24.3	1.95
I26	15 Oct 2025	9	16.44	76.24	8.0	33.22	8.0	24.3	1.97
I26	21 Oct 2025	1	17.48	83.03	8.1	33.23	8.0	24.0	1.07
I26	21 Oct 2025	2	17.40	83.13	8.1	33.23	8.0	24.1	1.11
I26	21 Oct 2025	3	17.10	82.88	8.3	33.25	8.0	24.1	1.34
I26	21 Oct 2025	4	16.81	82.56	8.5	33.26	8.0	24.2	1.52
I26	21 Oct 2025	5	16.63	83	8.5	33.27	8.0	24.3	1.41
I26	21 Oct 2025	6	16.47	86.16	8.3	33.27	8.0	24.3	1.34
I26	21 Oct 2025	7	16.15	88.63	7.9	33.27	8.0	24.4	1.59
I26	21 Oct 2025	8	15.85	88.22	7.5	33.29	8.0	24.5	2.11
I26	21 Oct 2025	9	15.63	85.2	7.5	33.28	8.0	24.5	2.38
I26	27 Oct 2025	1	16.97	72.29	8.4	33.26	8.0	24.2	1.23
I26	27 Oct 2025	2	16.94	75.54	8.4	33.29	8.0	24.2	1.06
I26	27 Oct 2025	3	16.50	80.07	8.3	33.30	8.0	24.3	1.27
I26	27 Oct 2025	4	16.30	78.97	8.0	33.30	8.0	24.4	1.83
I26	27 Oct 2025	5	15.89	76.97	7.8	33.29	8.0	24.5	2.59
I26	27 Oct 2025	6	15.41	74.62	7.6	33.30	8.0	24.6	3.10
I26	27 Oct 2025	7	14.97	79.83	7.2	33.30	8.0	24.7	3.51
I26	27 Oct 2025	8	14.70	81.96	7.0	33.31	7.9	24.7	2.72
I26	27 Oct 2025	9	14.65	82	6.8	33.31	7.9	24.7	1.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I32	07 Oct 2025	1	18.55	87.23	8.4	33.30	8.1	23.8	0.76
I32	07 Oct 2025	2	18.33	84.28	8.3	33.30	8.1	23.9	0.73
I32	07 Oct 2025	3	17.98	81.11	8.4	33.30	8.1	24.0	0.72
I32	07 Oct 2025	4	17.85	86.98	8.3	33.29	8.1	24.0	0.92
I32	07 Oct 2025	5	17.67	85.67	8.1	33.29	8.0	24.0	1.60
I32	07 Oct 2025	6	17.53	81.46	8.1	33.28	8.0	24.1	2.26
I32	07 Oct 2025	7	17.43	77.37	8.0	33.28	8.0	24.1	2.61
I32	07 Oct 2025	8	17.38	75.14	8.0	33.28	8.0	24.1	2.68
I32	07 Oct 2025	9	17.32	74.37	7.9	33.27	8.0	24.1	2.74
I32	07 Oct 2025	10	16.72	73.87	7.7	33.25	8.0	24.2	2.42
I32	15 Oct 2025	1	16.70	76.98	8.3	33.16	8.0	24.2	0.87
I32	15 Oct 2025	2	16.59	77	8.2	33.15	8.0	24.2	0.93
I32	15 Oct 2025	3	16.37	76.32	8.3	33.17	8.0	24.3	1.35
I32	15 Oct 2025	4	16.33	75.23	8.3	33.17	8.0	24.3	2.26
I32	15 Oct 2025	5	16.26	75.69	8.3	33.16	8.0	24.3	2.80
I32	15 Oct 2025	6	16.33	73.77	8.2	33.19	8.0	24.3	3.62
I32	15 Oct 2025	7	16.35	75.8	8.2	33.20	8.0	24.3	2.91
I32	15 Oct 2025	8	16.33	78.85	8.2	33.20	8.0	24.3	2.81
I32	15 Oct 2025	9	16.25	79.72	8.2	33.18	8.0	24.3	2.42
I32	15 Oct 2025	10	16.20	75.05	8.2	33.18	8.0	24.3	2.32
I32	21 Oct 2025	1	17.32	80.75	8.3	33.22	8.0	24.1	2.01
I32	21 Oct 2025	2	17.30	80.5	8.3	33.22	8.0	24.1	2.04
I32	21 Oct 2025	3	17.06	79.74	8.3	33.20	8.0	24.1	2.55
I32	21 Oct 2025	4	16.98	77.67	8.3	33.20	8.0	24.1	3.18
I32	21 Oct 2025	5	16.81	76.57	8.0	33.23	8.0	24.2	3.30
I32	21 Oct 2025	6	16.38	75.38	7.8	33.26	8.0	24.3	3.15
I32	21 Oct 2025	7	16.05	74.97	7.8	33.29	8.0	24.4	2.95
I32	21 Oct 2025	8	15.81	80.36	7.6	33.29	8.0	24.5	2.77
I32	21 Oct 2025	9	15.61	82.16	7.4	33.28	8.0	24.5	2.63
I32	21 Oct 2025	10	15.43	81.36	7.3	33.30	8.0	24.6	2.17
I32	27 Oct 2025	1	16.99	75.36	8.3	33.30	8.0	24.2	1.17
I32	27 Oct 2025	2	16.97	75.15	8.3	33.30	8.0	24.2	1.26
I32	27 Oct 2025	3	16.83	75.05	8.2	33.29	8.0	24.2	1.43
I32	27 Oct 2025	4	16.24	74.94	8.3	33.30	8.0	24.4	2.06
I32	27 Oct 2025	5	15.66	74.13	8.0	33.30	8.0	24.5	3.07
I32	27 Oct 2025	6	15.20	71.57	7.6	33.31	8.0	24.6	3.32
I32	27 Oct 2025	7	15.04	67.78	7.3	33.31	8.0	24.7	3.05
I32	27 Oct 2025	8	14.84	71.6	7.2	33.31	8.0	24.7	2.71
I32	27 Oct 2025	9	14.69	77.97	7.0	33.31	7.9	24.7	2.63
I32	27 Oct 2025	10	14.55	78.9	6.8	33.31	7.9	24.8	2.42

NA = not available

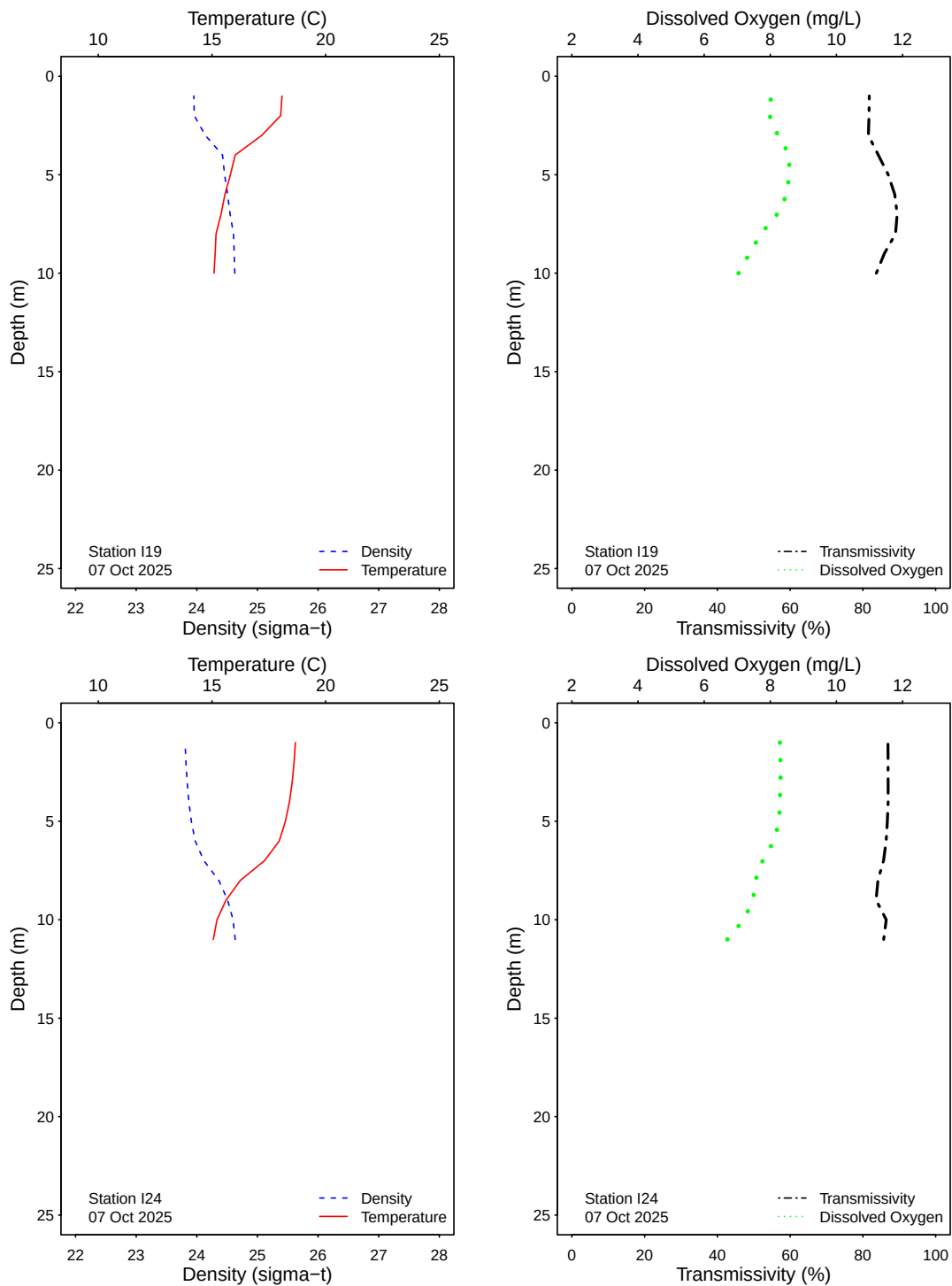


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

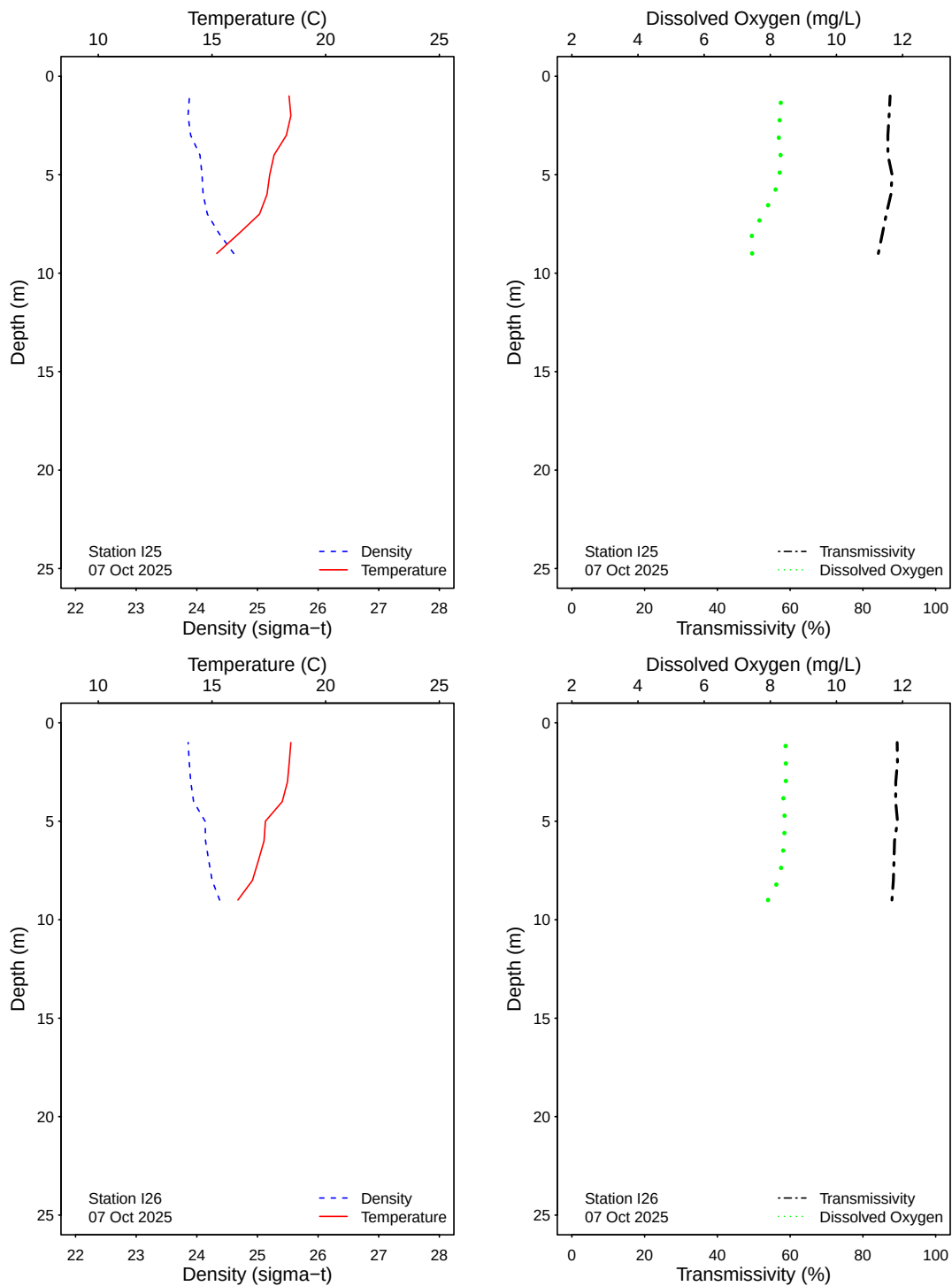


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

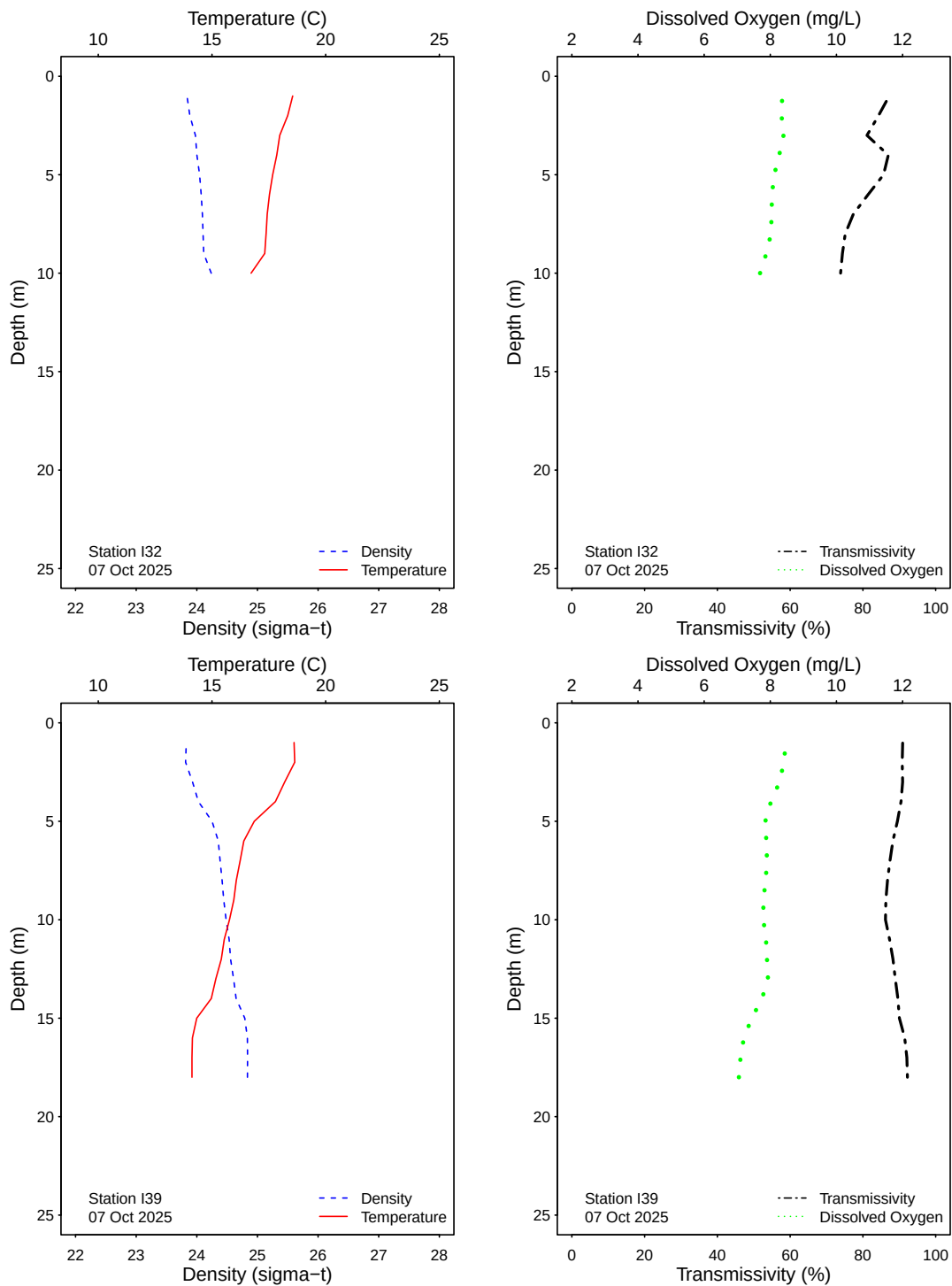


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

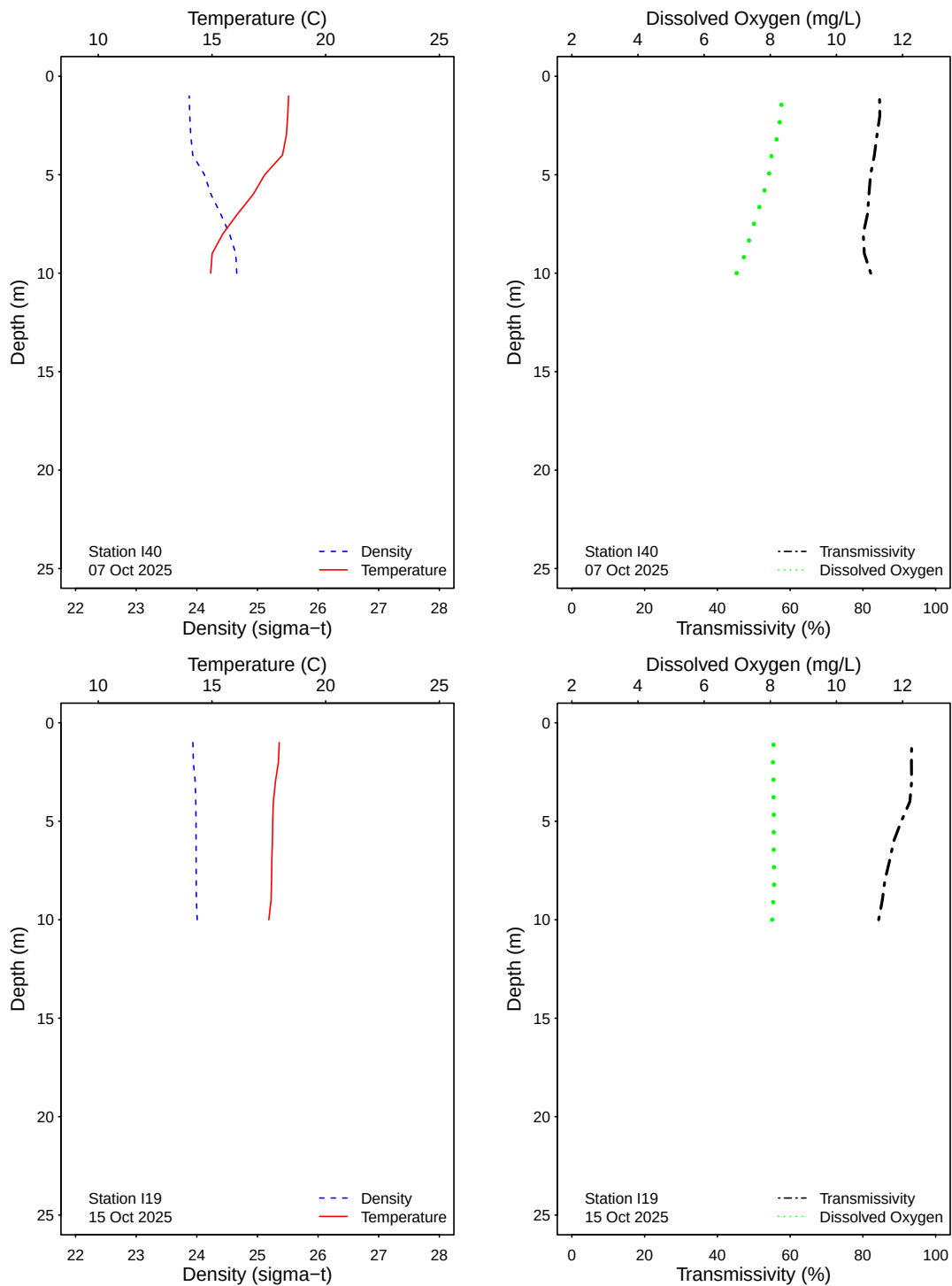


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

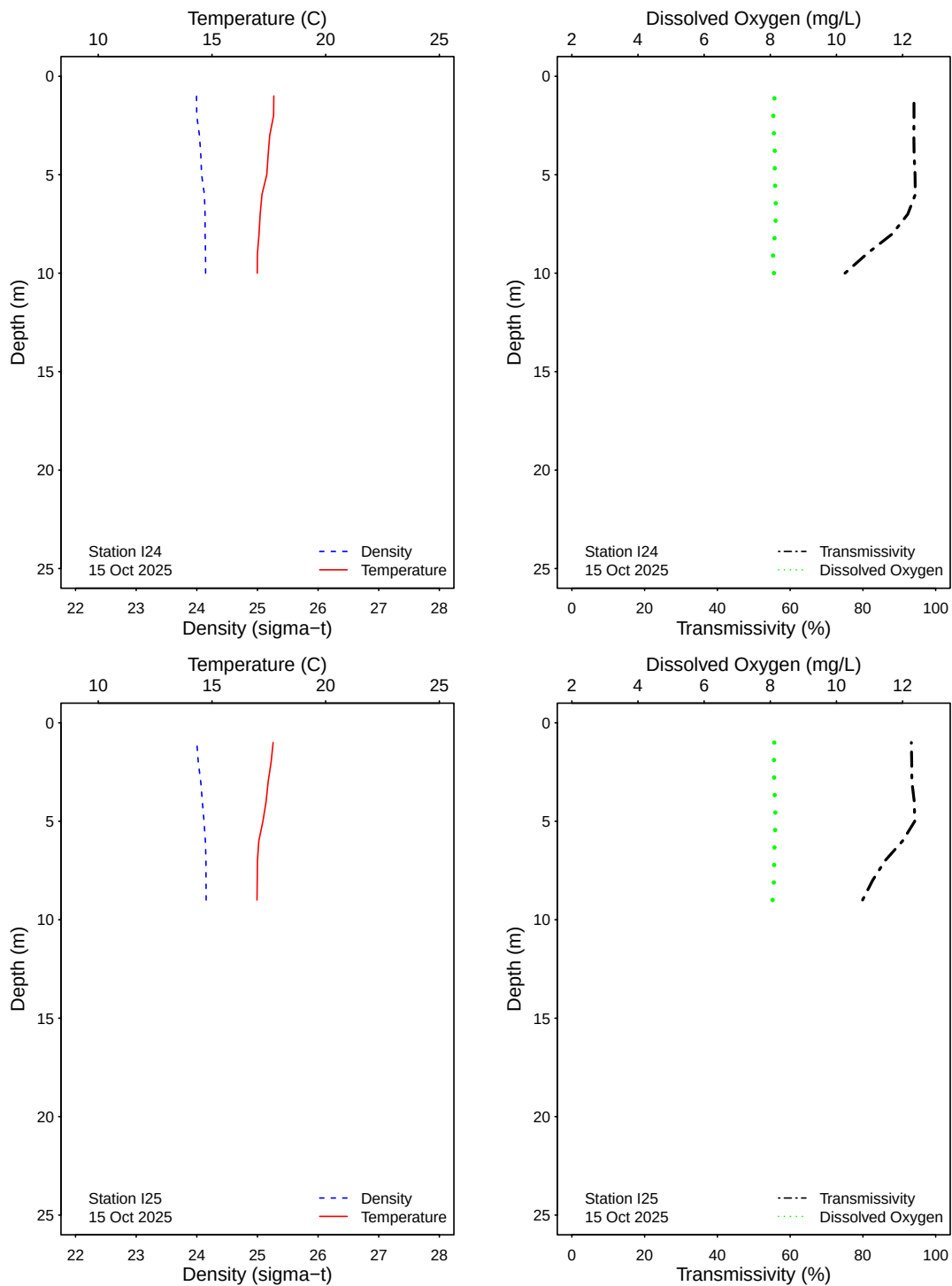


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

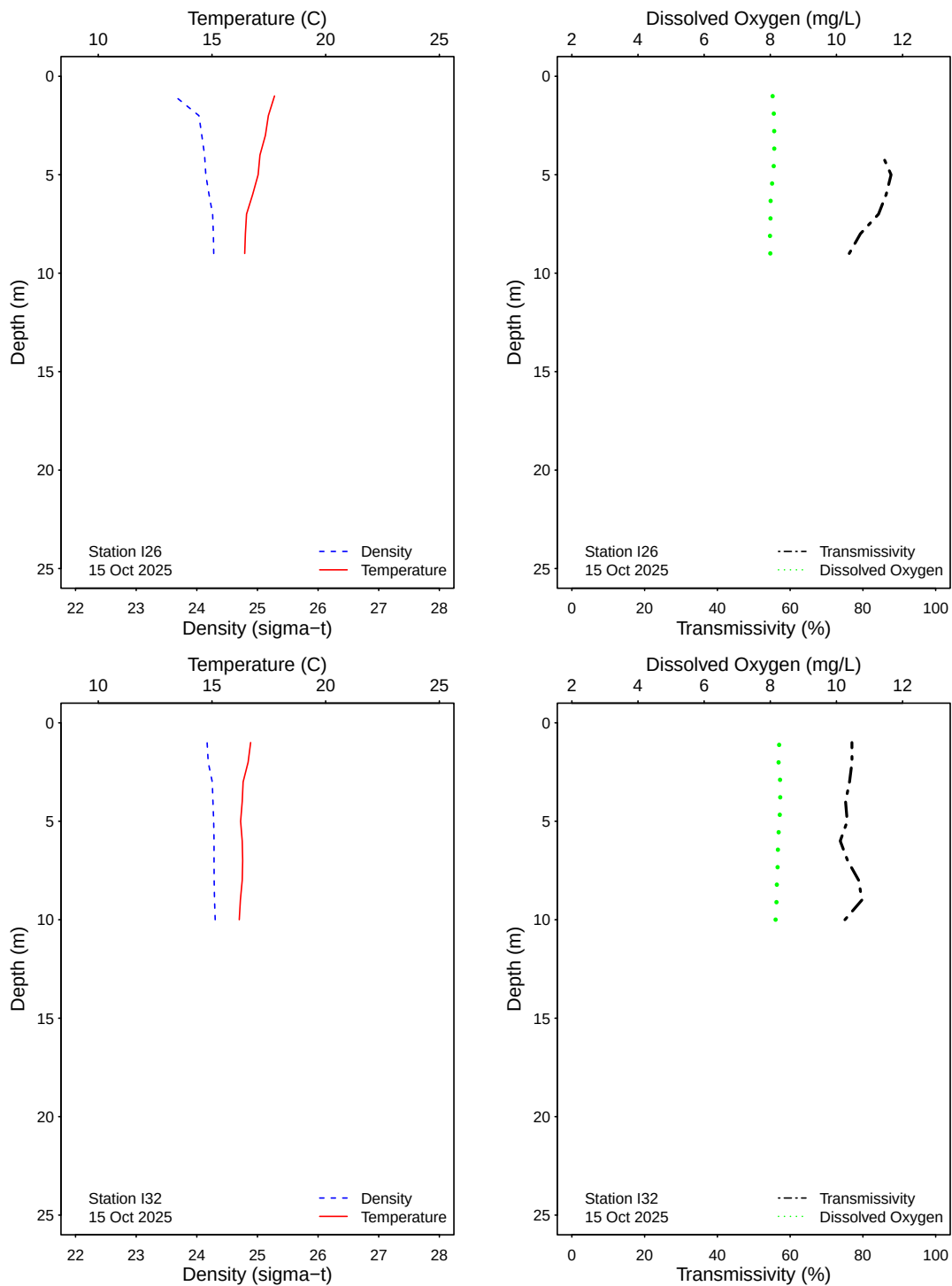


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

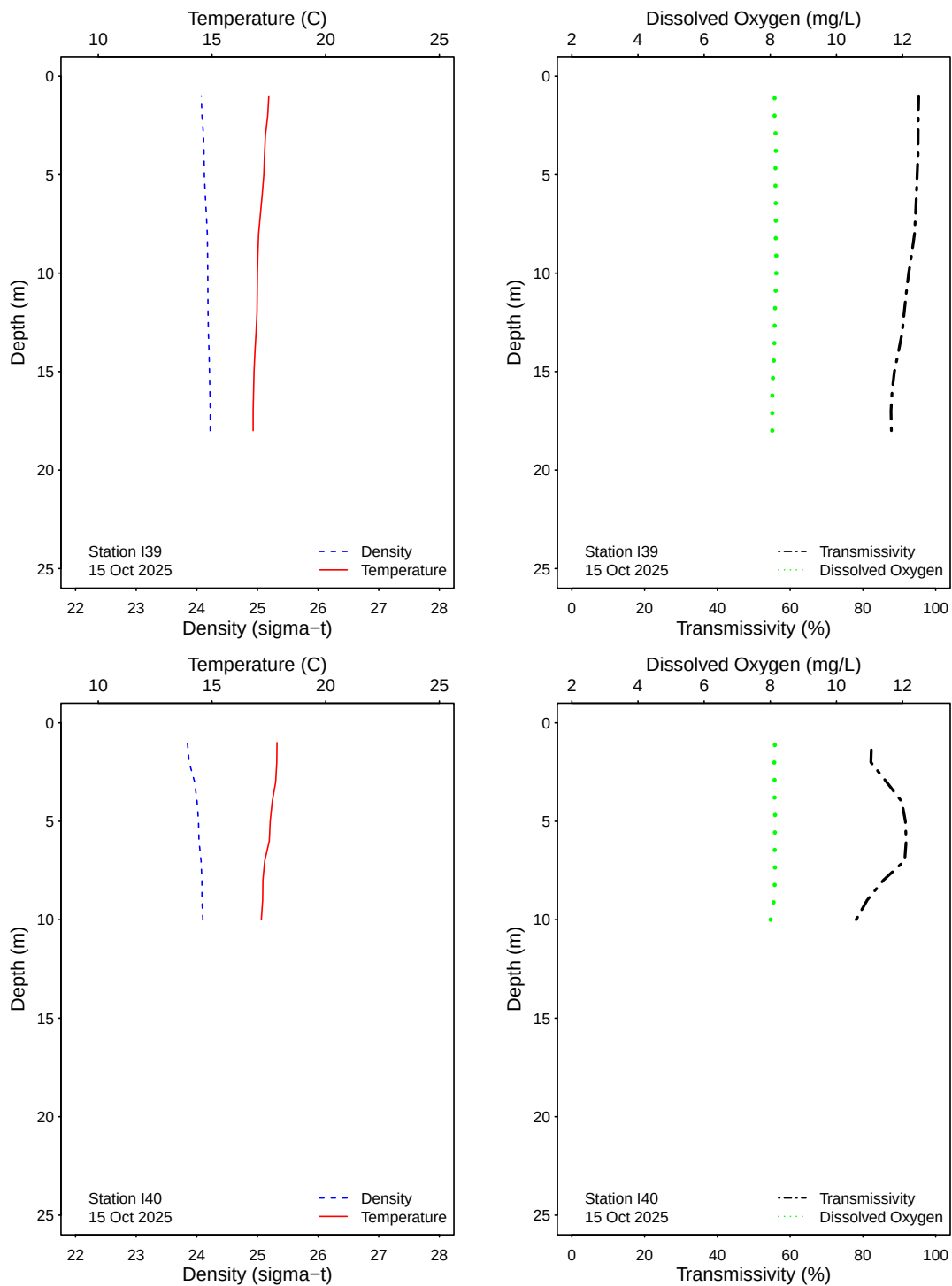


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

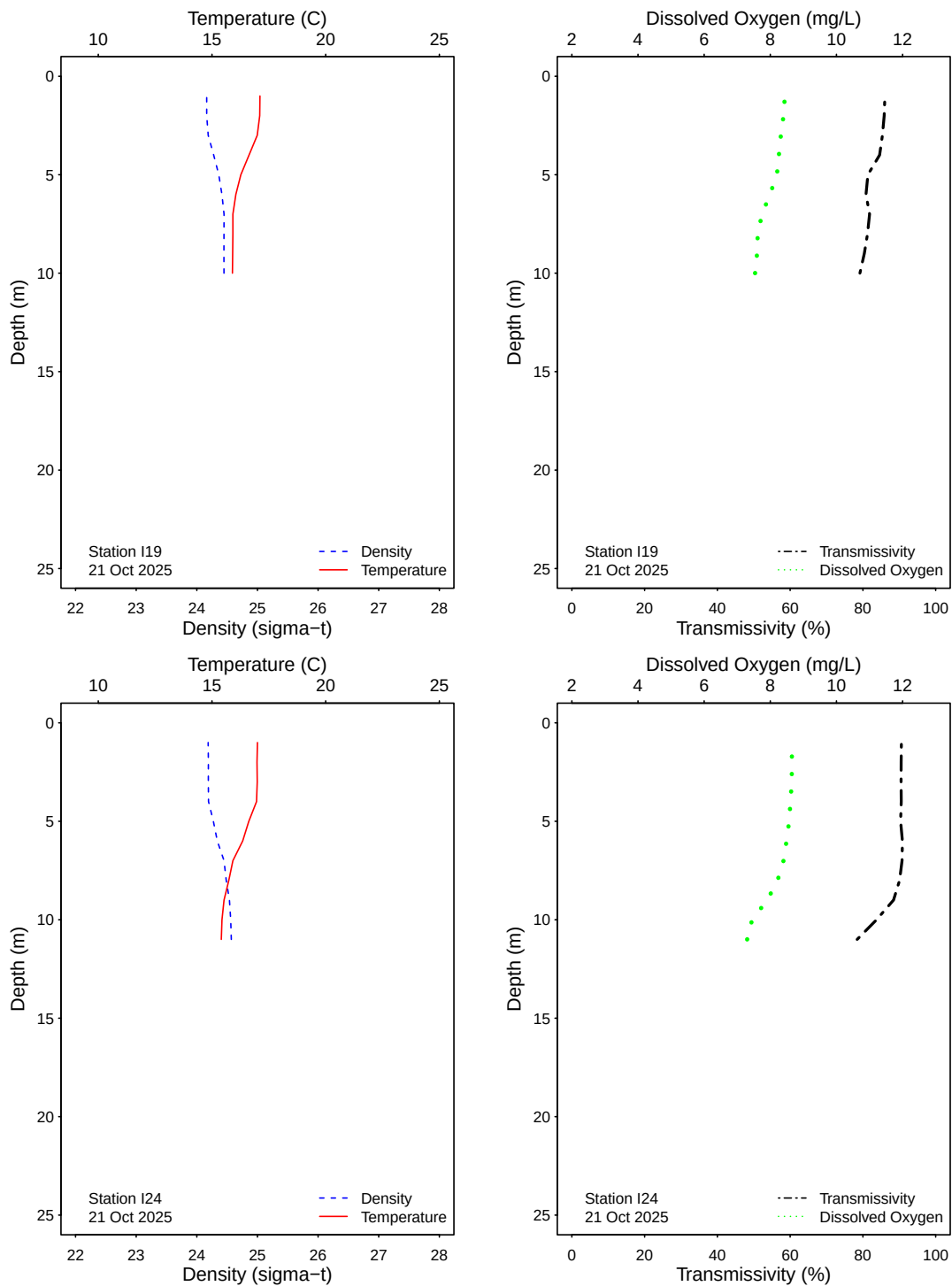


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

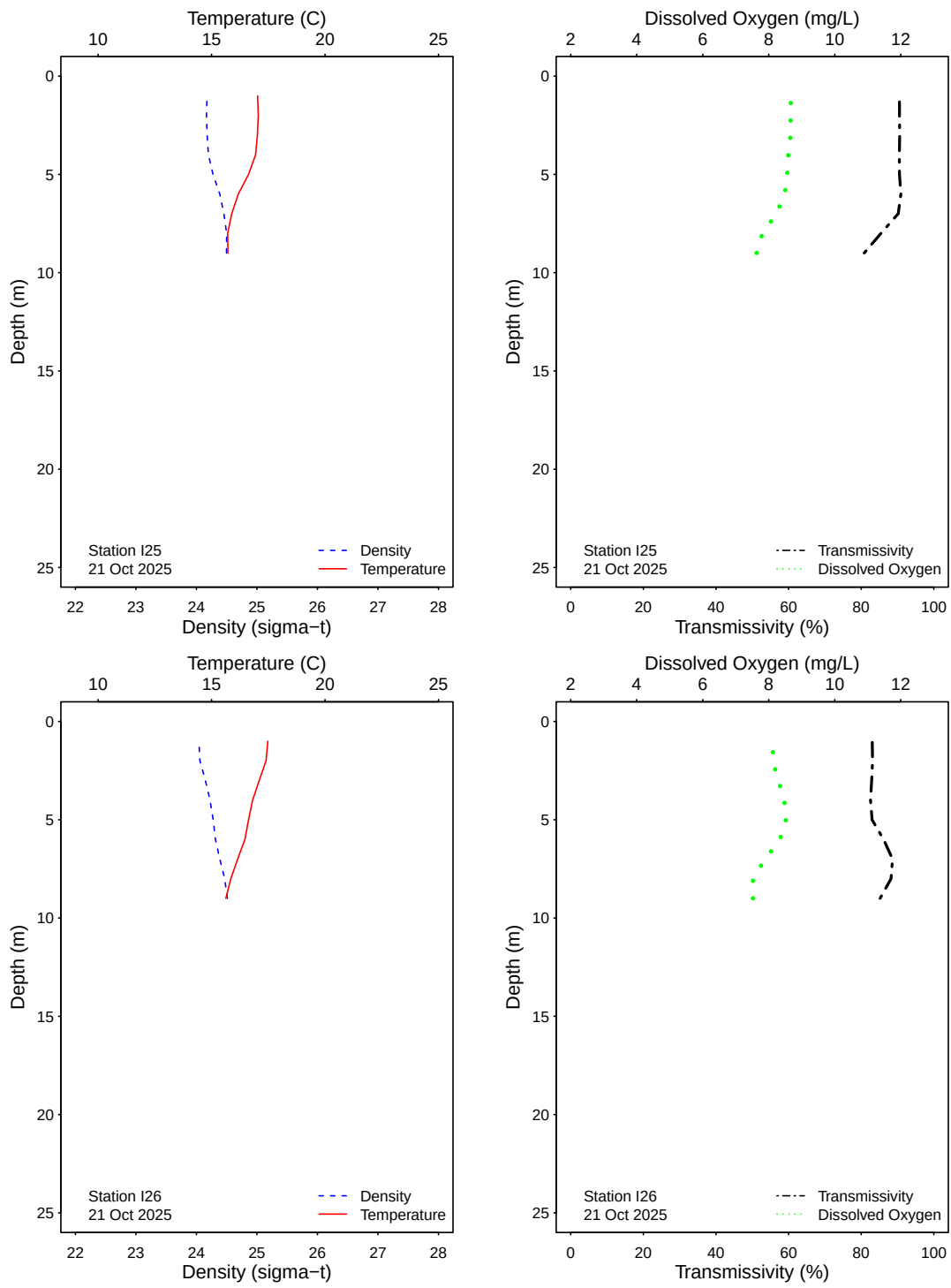


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

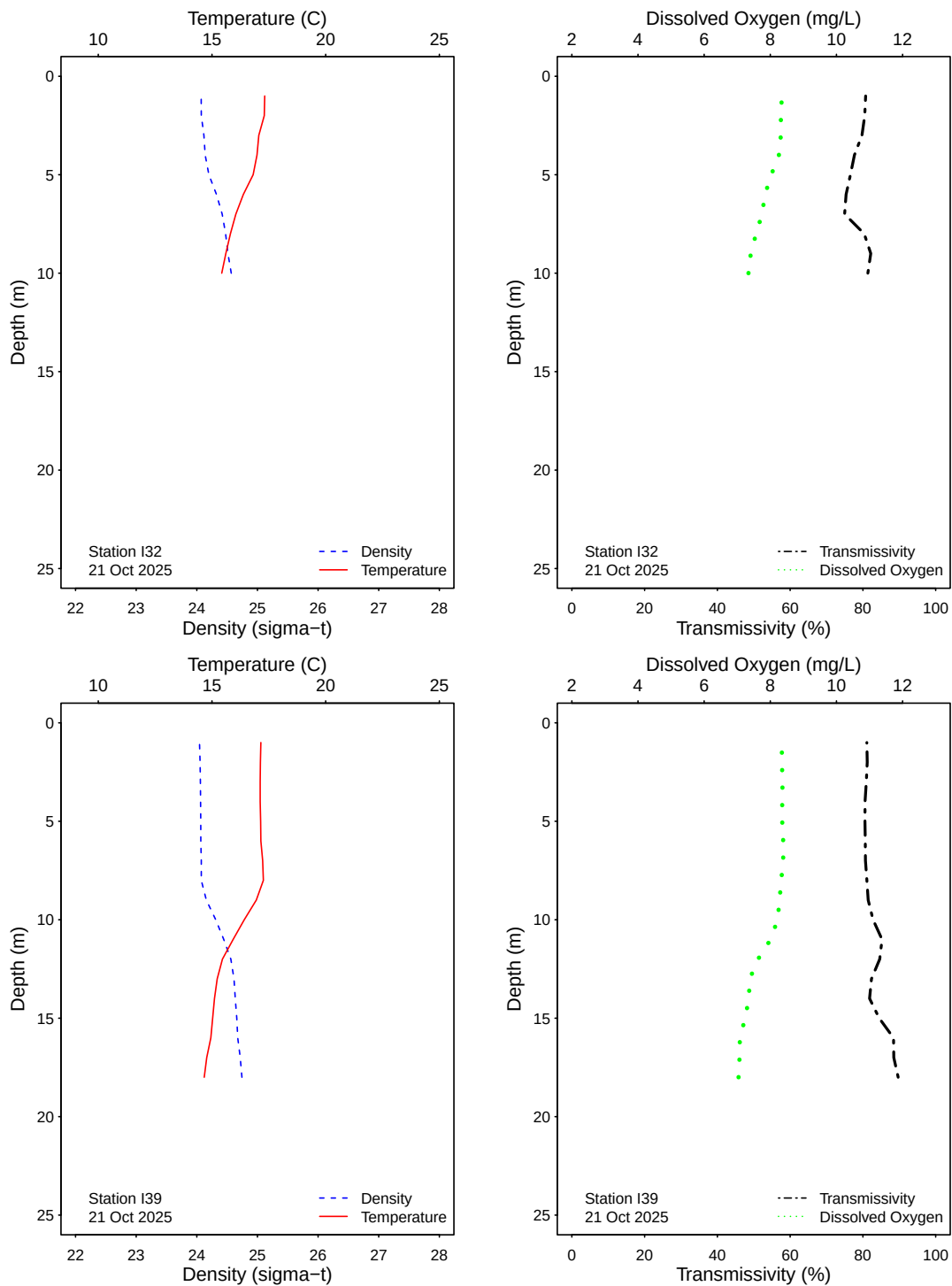


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

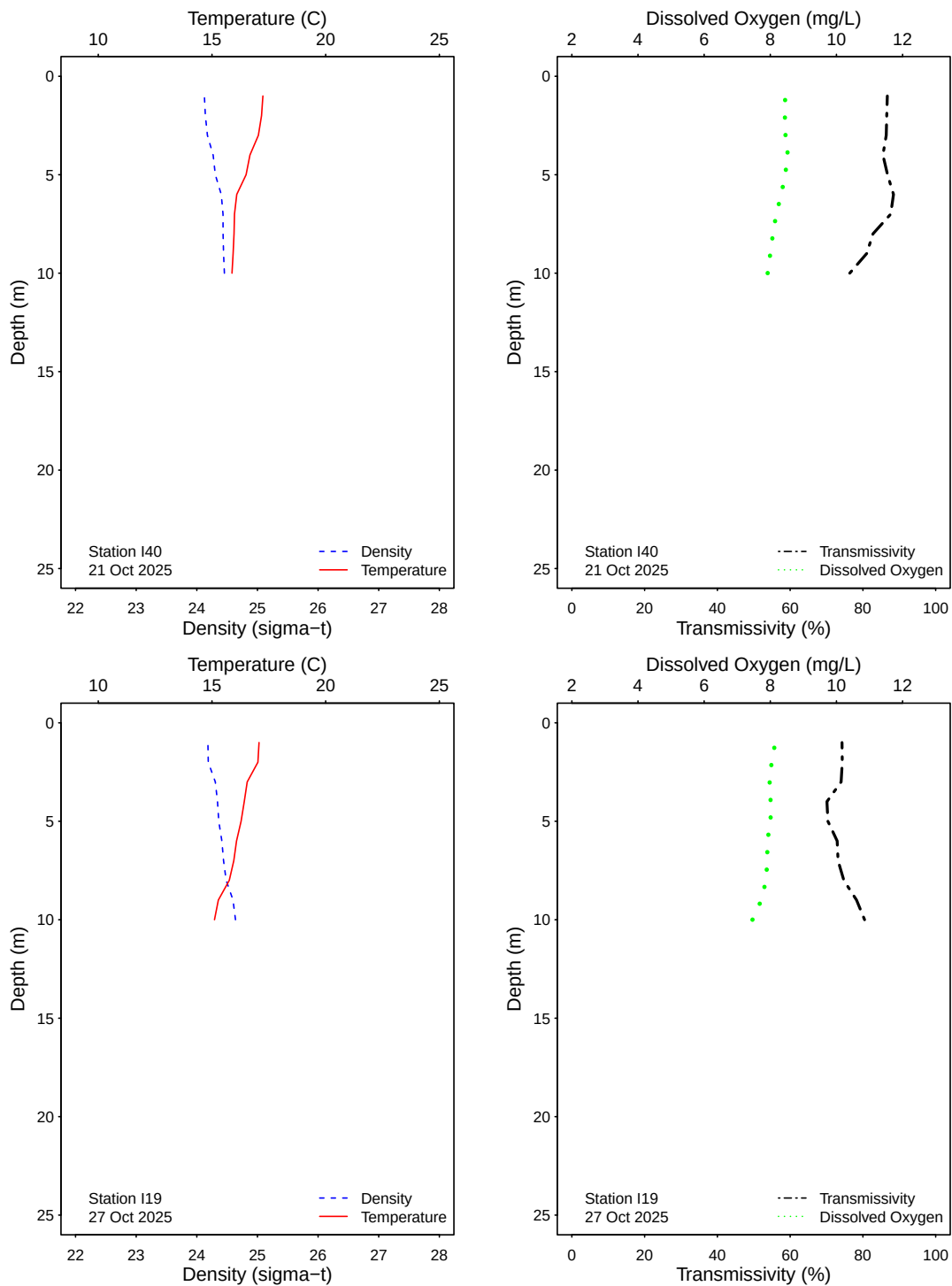


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

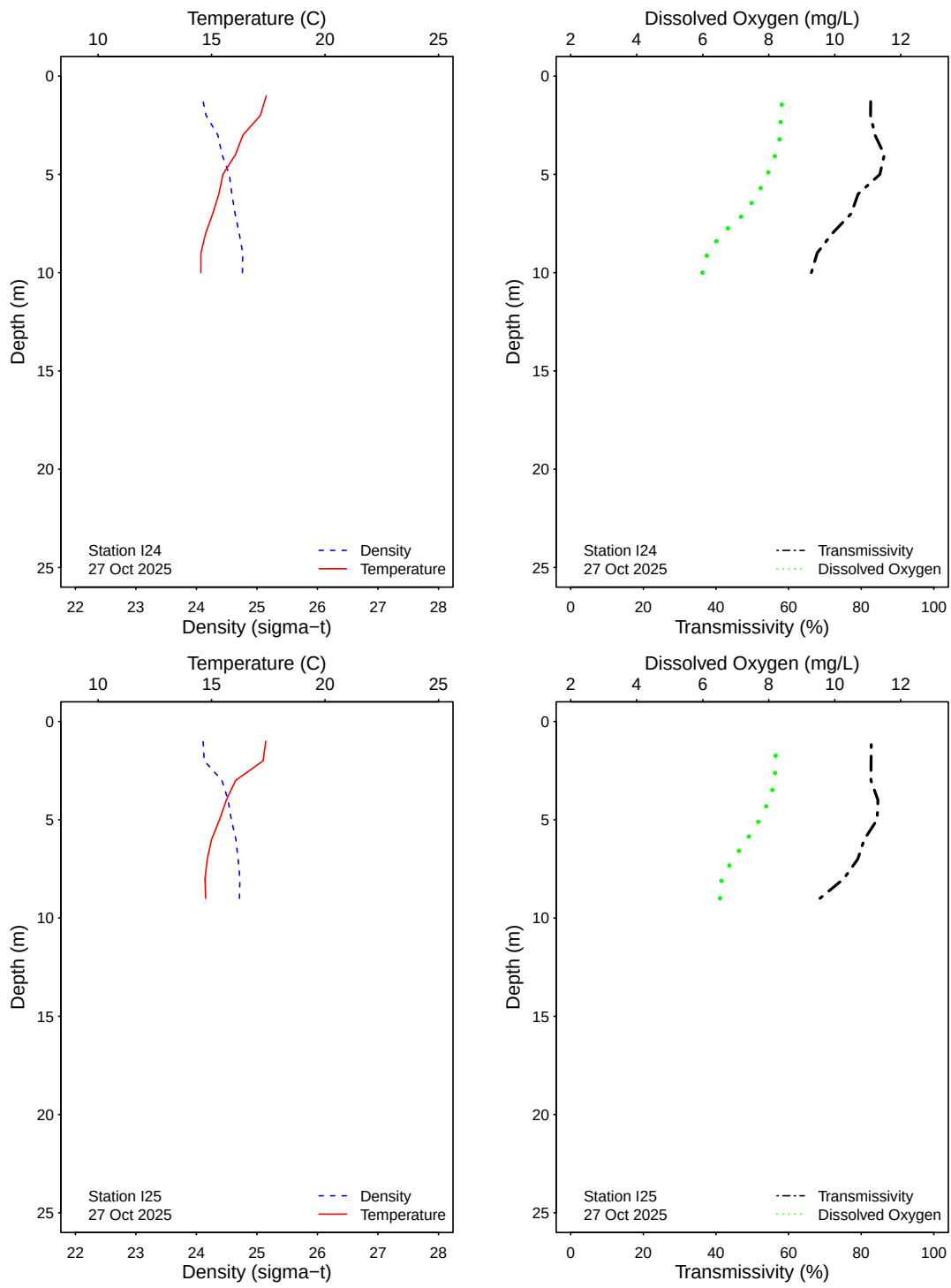


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

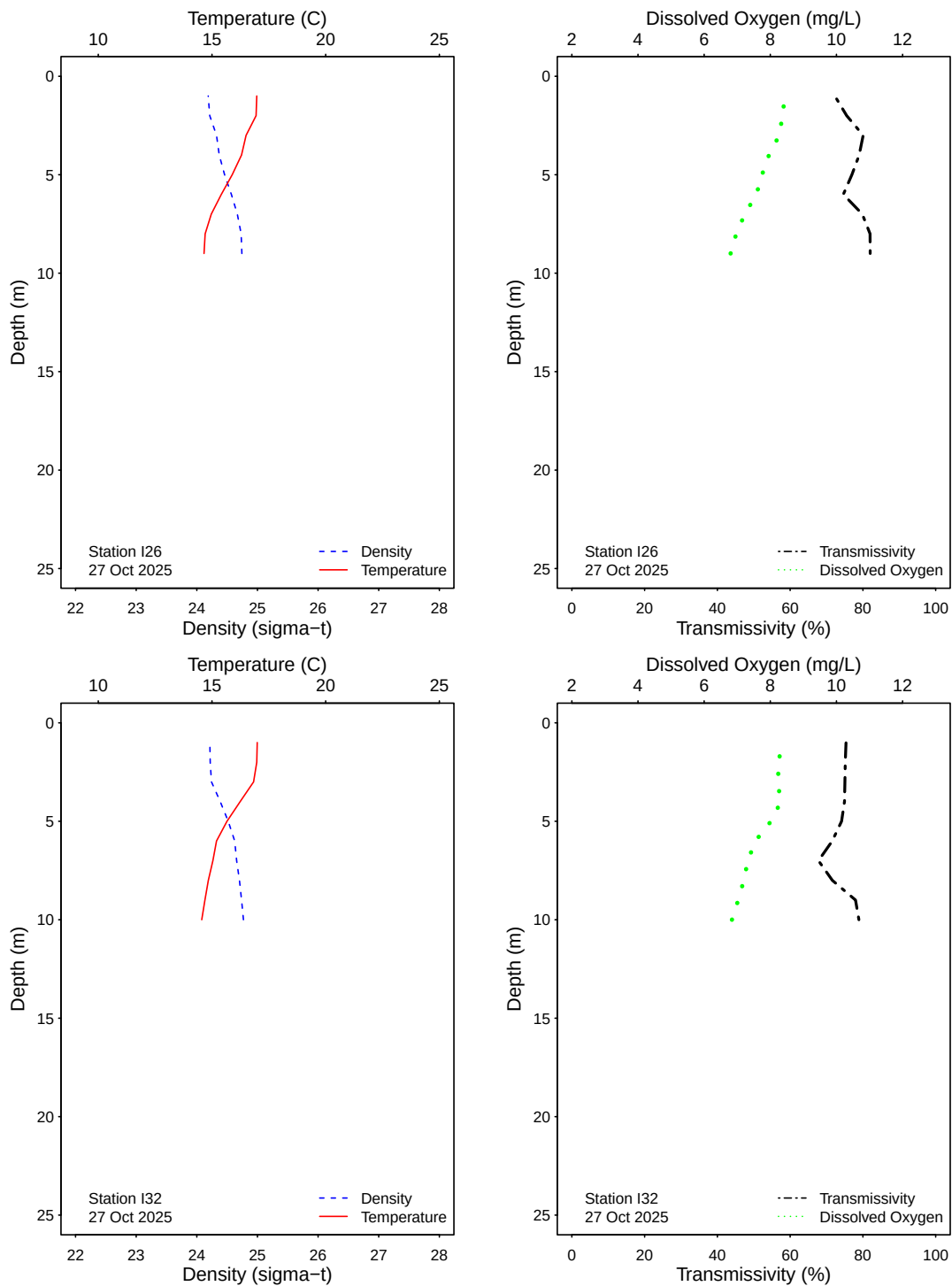


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

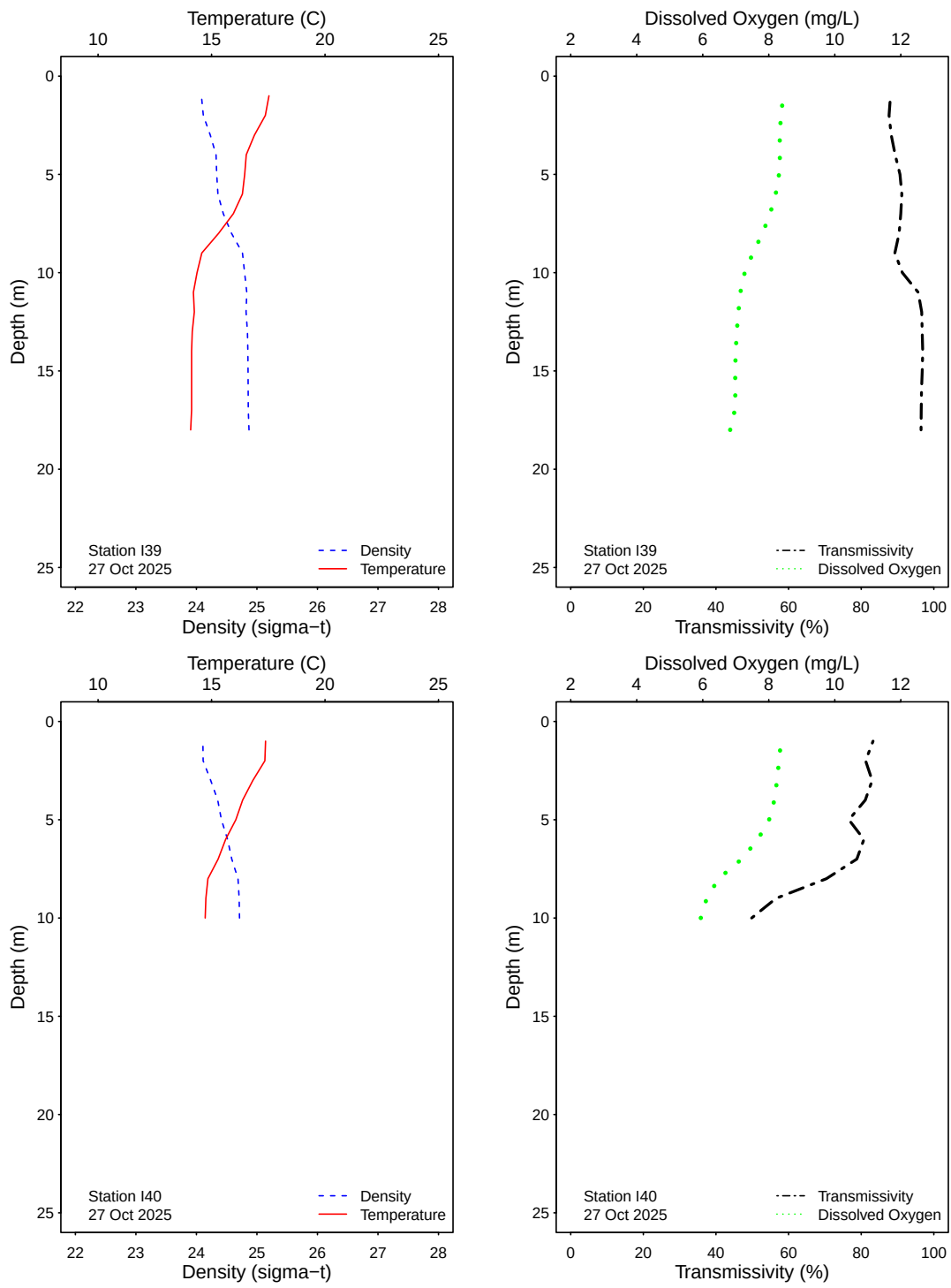


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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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	07 Oct 2025	6	JF	LAB DUPLICATE	2	2	2
I19	15 Oct 2025	6	WT	LAB DUPLICATE	1000	160	110
I19	21 Oct 2025	6	WT	LAB DUPLICATE	2	2	2
I19	27 Oct 2025	6	SS	LAB DUPLICATE	640	64	8
I40	07 Oct 2025	6	JF	LAB DUPLICATE	2	2	2
I40	15 Oct 2025	6	WT	LAB DUPLICATE	8600	640	500
I40	21 Oct 2025	6	WT	LAB DUPLICATE	20	6	2
I40	27 Oct 2025	6	SS	LAB DUPLICATE	8	2	2
S12	07 Oct 2025		KT	FIELD DUPLICATE	400	94	68
S12	07 Oct 2025		KT	LAB DUPLICATE	800	60	80
S12	14 Oct 2025		WT	FIELD DUPLICATE	60	4	6
S12	14 Oct 2025		WT	LAB DUPLICATE	100	6	6
S12	16 Oct 2025		NCD	FIELD DUPLICATE	ns	ns	ns
S12	16 Oct 2025		NCD	LAB DUPLICATE	ns	ns	ns
S12	18 Oct 2025		KT	FIELD DUPLICATE	ns	18	ns
S12	18 Oct 2025		KT	LAB DUPLICATE	ns	22	ns
S12	21 Oct 2025		ADG	FIELD DUPLICATE	12000	3200	540
S12	21 Oct 2025		ADG	LAB DUPLICATE	13000	4800	520
S12	28 Oct 2025		WT	FIELD DUPLICATE	200	2	2
S12	28 Oct 2025		WT	LAB DUPLICATE	20	2	2

ns = not sampled

ND = no data

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