

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

SEPTEMBER 2025

Environmental Monitoring and Technical Services
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October 31, 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 September 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 September, 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 single sample maximum (SSM) standard for fecal coliforms was exceeded at station S5.
 - The 6-week running geometric mean standard for *Enterococcus* was exceeded at station S12.
 - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S5, S11, and S12.
 - The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S8, S9, 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 S4, S5, S6, S10, S11, and S12.
- Nothing of sewage origin was observed at SBOO shore stations in September.
- 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 September 2, 8, 16, 23, and 29.
- During September, five of the seven kelp bed stations were out of compliance with the various 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, I25, and I40.
 - The STV standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, and I40.
 - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, and I40.
- Water column temperatures ranged from 14.20 to 20.95°C. The difference between surface and bottom waters ranged from 0.62 to 5.69°C.
- Concentrations of chlorophyll *a* ranged from 0.15 to 5.58 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at SBOO kelp stations in September.

➤ **Offshore Water Quality Sampling**

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



TABLES AND FIGURES

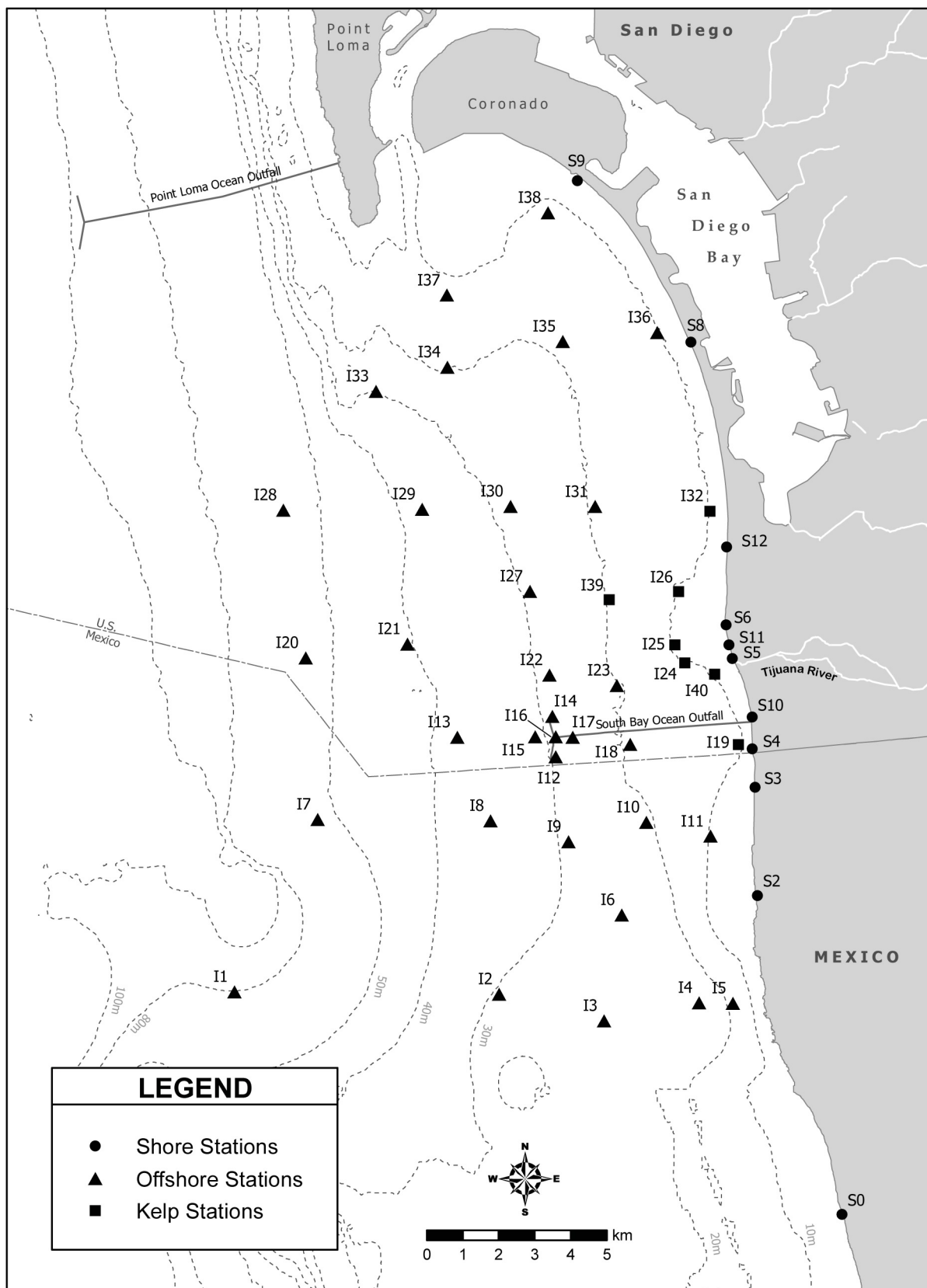


Figure 1.1 Station Map

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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 Sep 2025	3	6	11	3	5	2	6	95
02 Sep 2025	3	8	10	3	4	2	5	103
03 Sep 2025	3	8	10	3	4	2	5	103
04 Sep 2025	3	11	9	3	5	2	5	97
05 Sep 2025	3	11	9	3	5	2	5	97
06 Sep 2025	3	11	9	3	5	2	5	97
07 Sep 2025	3	11	9	3	5	2	5	97
08 Sep 2025	3	11	9	3	5	2	5	97
09 Sep 2025	3	11	9	3	5	2	5	97
10 Sep 2025	4	8	9	4	6	2	5	72
11 Sep 2025	5	7	10	5	7	2	5	55
12 Sep 2025	5	7	10	5	7	2	5	55
13 Sep 2025	5	7	10	5	7	2	5	55
14 Sep 2025	5	7	10	5	7	2	5	55
15 Sep 2025	5	7	10	5	7	2	5	55
16 Sep 2025	5	6	11	4	5	2	5	44
17 Sep 2025	5	6	11	4	5	2	5	44
18 Sep 2025	10	25	19	4	5	4	7	42
19 Sep 2025	10	25	19	4	5	4	7	42
20 Sep 2025	14	31	16	5	7	5	4	38
21 Sep 2025	14	31	16	5	7	5	4	38
22 Sep 2025	14	31	16	5	7	5	4	38
23 Sep 2025	18	27	12	4	5	5	4	28
24 Sep 2025	18	27	12	4	5	5	4	28
25 Sep 2025	18	31	11	4	4	6	4	18
26 Sep 2025	18	31	11	4	4	6	4	18
27 Sep 2025	18	31	11	4	4	6	4	18
28 Sep 2025	18	31	11	4	4	6	4	18
29 Sep 2025	18	31	11	4	4	6	4	18
30 Sep 2025	18	43	18	7	4	8	7	23

* 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 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
10 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
18 Sep 2025	IC	E	IC	IC	IC	IC	IC	IC
23 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
30 Sep 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 Sep 2025	7	8	14	4	8	3	14	29
02 Sep 2025	7	8	7	6	5	3	7	32
03 Sep 2025	7	8	7	6	5	3	7	32
04 Sep 2025	7	8	7	6	5	3	7	32
05 Sep 2025	7	8	7	6	5	3	7	32
06 Sep 2025	7	8	7	6	5	3	7	32
07 Sep 2025	7	8	7	6	5	3	7	32
08 Sep 2025	7	8	7	6	5	3	7	32
09 Sep 2025	6	7	9	7	6	2	7	56
10 Sep 2025	8	6	7	6	5	2	7	48
11 Sep 2025	8	6	7	6	5	2	7	48
12 Sep 2025	8	6	7	6	5	2	7	48
13 Sep 2025	8	6	7	6	5	2	7	48
14 Sep 2025	8	6	7	6	5	2	7	48
15 Sep 2025	8	6	7	6	5	2	7	48
16 Sep 2025	8	4	6	4	4	2	5	32
17 Sep 2025	8	4	6	4	4	2	5	32
18 Sep 2025	8	4	6	4	4	2	5	32
19 Sep 2025	8	4	6	4	4	2	5	32
20 Sep 2025	8	4	6	4	4	2	5	32
21 Sep 2025	8	4	6	4	4	2	5	32
22 Sep 2025	8	4	6	4	4	2	5	32
23 Sep 2025	7	4	4	3	3	4	10	17
24 Sep 2025	7	4	4	3	3	4	10	17
25 Sep 2025	7	4	4	3	3	4	10	17
26 Sep 2025	7	4	4	3	3	4	10	17
27 Sep 2025	7	4	4	3	3	4	10	17
28 Sep 2025	7	4	4	3	3	4	10	17
29 Sep 2025	7	4	4	3	3	4	10	17
30 Sep 2025	11	8	6	5	3	5	14	30

* 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
September	IC	E	IC	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 Sep 2025	*19	*90	*200	*50	*110	*20	*130	*3500
02 Sep 2025	20	140	60	80	20	20	60	3800
03 Sep 2025	20	140	60	80	20	20	60	3800
04 Sep 2025	*25	*160	*40	*110	*110	*20	*40	*3500
05 Sep 2025	*25	*160	*40	*110	*110	*20	*40	*3500
06 Sep 2025	*25	*160	*40	*110	*110	*20	*40	*3500
07 Sep 2025	*25	*160	*40	*110	*110	*20	*40	*3500
08 Sep 2025	*25	*160	*40	*110	*110	*20	*40	*3500
09 Sep 2025	*25	*160	*40	*110	*110	*20	*40	*3500
10 Sep 2025	30	140	60	80	20	20	20	3200
11 Sep 2025	*115	*90	*110	*60	*20	*20	*20	*1630
12 Sep 2025	*115	*90	*110	*60	*20	*20	*20	*1630
13 Sep 2025	*115	*90	*110	*60	*20	*20	*20	*1630
14 Sep 2025	*115	*90	*110	*60	*20	*20	*20	*1630
15 Sep 2025	*115	*90	*110	*60	*20	*20	*20	*1630
16 Sep 2025	30	40	20	40	20	20	20	60
17 Sep 2025	30	40	20	40	20	20	20	60
18 Sep 2025	*25	*80	*110	*60	*20	*12	*20	*1630
19 Sep 2025	*25	*80	*110	*60	*20	*12	*20	*1630
20 Sep 2025	*25	*80	*110	*60	*20	*12	*20	*1630
21 Sep 2025	*25	*80	*110	*60	*20	*12	*20	*1630
22 Sep 2025	*25	*80	*110	*60	*20	*12	*20	*1630
23 Sep 2025	20	140	200	40	20	20	20	60
24 Sep 2025	20	140	200	40	20	20	20	60
25 Sep 2025	*20	*100	*110	*30	*20	*12	*20	*40
26 Sep 2025	*20	*100	*110	*30	*20	*12	*20	*40
27 Sep 2025	*20	*100	*110	*30	*20	*12	*20	*40
28 Sep 2025	*20	*100	*110	*30	*20	*12	*20	*40
29 Sep 2025	*20	*100	*110	*30	*20	*12	*20	*40
30 Sep 2025	20	180	200	40	20	20	20	60

* 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
September	E	E	E	IC	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	02 Sep 2025	850	2200e	300e	140e
S0	10 Sep 2025	845	>16000	3800e	540
S0	17 Sep 2025	905	160e	6e	8e
S0	23 Sep 2025	900	12000	1600e	1400e
S0	30 Sep 2025	1000	160e	8e	40
S10	02 Sep 2025	1140	4e	<2	<2
S10	10 Sep 2025	1106	<20	<2	<2
S10	16 Sep 2025	1031	<2	<2	<2
S10	18 Sep 2025	925		180e	
S10	23 Sep 2025	1144	80e	6e	100
S10	30 Sep 2025	1059	480	28e	12e
S11	02 Sep 2025	1039	<20	<2	2e
S11	10 Sep 2025	1004	<20	2e	6e
S11	16 Sep 2025	916	2e	<2	<2
S11	18 Sep 2025	1033		54	
S11	23 Sep 2025	1047	<20	2e	220e
S11	30 Sep 2025	926	1300	160e	52
S12	02 Sep 2025	914	4400	160e	360e
S12	10 Sep 2025	902	60e	16e	22e
S12	16 Sep 2025	847	20e	14e	14e
S12	18 Sep 2025	1148		8e	
S12	23 Sep 2025	940	8e	6e	2e
S12	30 Sep 2025	757	520	80e	56
S2	02 Sep 2025	950	2e	<2	<2
S2	10 Sep 2025	925	2e	<2	2e
S2	17 Sep 2025	1005	580	70	<2
S2	23 Sep 2025	1000	<20	2e	2e
S2	30 Sep 2025	1100	2000e	180e	20e
S3	02 Sep 2025	925	2e	2e	<2
S3	10 Sep 2025	1010	<20	2e	18e
S3	17 Sep 2025	935	14000	3800e	<2
S3	23 Sep 2025	930	40e	<2	8e
S3	30 Sep 2025	1035	800e	200e	48
S4	02 Sep 2025	1157	20e	2e	<2
S4	10 Sep 2025	1126	<200	16e	34e
S4	16 Sep 2025	1045	<2	6e	<2
S4	18 Sep 2025	902		120e	
S4	23 Sep 2025	1159	<20	80e	10e
S4	30 Sep 2025	1119	900	20e	24e
S5	02 Sep 2025	1008	180e	42	10e
S5	10 Sep 2025	944	<20	<2	<2
S5	16 Sep 2025	934	<20	<2	2e
S5	18 Sep 2025	1050		>12000	
S5	23 Sep 2025	1028	200e	14e	4e
S5	30 Sep 2025	852	2200e	240e	140
S6	02 Sep 2025	1056	20e	6e	<2
S6	10 Sep 2025	1018	<200	8e	<2

Station	Date	Time	Total	Fecal	Enteroc
S6	16 Sep 2025	904	12e	<20	8e
S6	18 Sep 2025	1020		48	
S6	23 Sep 2025	1059	<200	4e	2e
S6	30 Sep 2025	946	720	160e	26e
S8	02 Sep 2025	855	140e	6e	16e
S8	10 Sep 2025	837	40e	18e	2e
S8	16 Sep 2025	820	<2	<2	<2
S8	18 Sep 2025	1210		<2	
S8	23 Sep 2025	919	20e	2e	<2
S8	30 Sep 2025	737	200e	100e	20e
S9	02 Sep 2025	839	20e	4e	2e
S9	10 Sep 2025	813	20e	38e	<2
S9	16 Sep 2025	802	<20	2e	2e
S9	18 Sep 2025	1227		<2	
S9	23 Sep 2025	857	<200	<2	2e
S9	30 Sep 2025	720	20e	4e	2e

ns = not sampled

ND = no data

Comments

date	station	depth	parmcode	comments
16-Sep-2025				mEI incubator temp to low on top shelf. QC ok, sample likely unaffected. (BS 9/18/2025)
16-Sep-2025				Mexico samples delivered on 9/17/2025 due to holiday.
17-Sep-2025				Mexico samples delivered on 9/17/25 due to holiday on 9/16/25. Rest of ITP SHR samples on 9/16/25.

Table 2.8

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

Station	Date	Parameter	Value
S0	02 Sep 2025	Arrive Time	850
S0	02 Sep 2025	Wind Speed (kts)	4.5
S0	02 Sep 2025	Wind Dir	NE
S0	02 Sep 2025	Animal Life	
S0	02 Sep 2025	Floatables	
S0	02 Sep 2025	Current Direction	N
S0	02 Sep 2025	Water Temp (C)	15
S0	02 Sep 2025	High Tide Time	817
S0	02 Sep 2025	Low Tide Time	106
S0	02 Sep 2025	Comments	Water turbid; Trash-0; Kelp;Algae; Person/Walker/Jogger-3; 0.5 L/s water flowing from storm drain
S0	10 Sep 2025	Arrive Time	845
S0	10 Sep 2025	Wind Speed (kts)	2
S0	10 Sep 2025	Wind Dir	N
S0	10 Sep 2025	Animal Life	Bird-5;
S0	10 Sep 2025	Floatables	
S0	10 Sep 2025	Current Direction	S
S0	10 Sep 2025	Water Temp (C)	17
S0	10 Sep 2025	High Tide Time	1112
S0	10 Sep 2025	Low Tide Time	503
S0	10 Sep 2025	Comments	Water clear; Trash-0; No flow from storm drain
S0	17 Sep 2025	Arrive Time	905
S0	17 Sep 2025	Wind Speed (kts)	1.4
S0	17 Sep 2025	Wind Dir	NE
S0	17 Sep 2025	Animal Life	Bird-10; Dog-2;
S0	17 Sep 2025	Floatables	
S0	17 Sep 2025	Current Direction	N
S0	17 Sep 2025	Water Temp (C)	16
S0	17 Sep 2025	High Tide Time	755
S0	17 Sep 2025	Low Tide Time	126
S0	17 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-2; 0.5 L/s water flowing from storm drain
S0	23 Sep 2025	Arrive Time	900
S0	23 Sep 2025	Wind Speed (kts)	1.3
S0	23 Sep 2025	Wind Dir	NE
S0	23 Sep 2025	Animal Life	Bird-10; Dog-2;
S0	23 Sep 2025	Floatables	
S0	23 Sep 2025	Current Direction	N
S0	23 Sep 2025	Water Temp (C)	15
S0	23 Sep 2025	High Tide Time	1015
S0	23 Sep 2025	Low Tide Time	411
S0	23 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-5; 0.5 L/s water flowing from storm drain
S0	30 Sep 2025	Arrive Time	1000
S0	30 Sep 2025	Wind Speed (kts)	0.9
S0	30 Sep 2025	Wind Dir	NE
S0	30 Sep 2025	Animal Life	Bird-10; Dog-2;
S0	30 Sep 2025	Floatables	
S0	30 Sep 2025	Current Direction	N
S0	30 Sep 2025	Water Temp (C)	16
S0	30 Sep 2025	High Tide Time	806
S0	30 Sep 2025	Low Tide Time	1021

Station	Date	Parameter	Value
S0	30 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-5; 0.5 L/s water flowing from storm drain
S2	02 Sep 2025	Arrive Time	950
S2	02 Sep 2025	Wind Speed (kts)	4.1
S2	02 Sep 2025	Wind Dir	NE
S2	02 Sep 2025	Animal Life	
S2	02 Sep 2025	Floatables	
S2	02 Sep 2025	Current Direction	N
S2	02 Sep 2025	Water Temp (C)	15
S2	02 Sep 2025	High Tide Time	817
S2	02 Sep 2025	Low Tide Time	106
S2	02 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No flow from storm drain
S2	10 Sep 2025	Arrive Time	925
S2	10 Sep 2025	Wind Speed (kts)	1.5
S2	10 Sep 2025	Wind Dir	NE
S2	10 Sep 2025	Animal Life	Bird-15;
S2	10 Sep 2025	Floatables	
S2	10 Sep 2025	Current Direction	S
S2	10 Sep 2025	Water Temp (C)	17
S2	10 Sep 2025	High Tide Time	1112
S2	10 Sep 2025	Low Tide Time	503
S2	10 Sep 2025	Comments	Water clear; Trash-0; Person/Walker/Jogger-5; No flow from storm drain
S2	17 Sep 2025	Arrive Time	1005
S2	17 Sep 2025	Wind Speed (kts)	1.2
S2	17 Sep 2025	Wind Dir	NE
S2	17 Sep 2025	Animal Life	Bird-20; Dog-2;
S2	17 Sep 2025	Floatables	
S2	17 Sep 2025	Current Direction	N
S2	17 Sep 2025	Water Temp (C)	16
S2	17 Sep 2025	High Tide Time	755
S2	17 Sep 2025	Low Tide Time	126
S2	17 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No flow from storm drain
S2	23 Sep 2025	Arrive Time	1000
S2	23 Sep 2025	Wind Speed (kts)	1.1
S2	23 Sep 2025	Wind Dir	NE
S2	23 Sep 2025	Animal Life	Bird-10; Dog-4;
S2	23 Sep 2025	Floatables	
S2	23 Sep 2025	Current Direction	N
S2	23 Sep 2025	Water Temp (C)	15
S2	23 Sep 2025	High Tide Time	1015
S2	23 Sep 2025	Low Tide Time	411
S2	23 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No flow from storm drain
S2	30 Sep 2025	Arrive Time	1100
S2	30 Sep 2025	Wind Speed (kts)	1.2
S2	30 Sep 2025	Wind Dir	NE
S2	30 Sep 2025	Animal Life	Bird-10; Dog-5;
S2	30 Sep 2025	Floatables	
S2	30 Sep 2025	Current Direction	N
S2	30 Sep 2025	Water Temp (C)	16
S2	30 Sep 2025	High Tide Time	806
S2	30 Sep 2025	Low Tide Time	1021

Station	Date	Parameter	Value
S2	30 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No flow from storm drain
S3	02 Sep 2025	Arrive Time	925
S3	02 Sep 2025	Wind Speed (kts)	3.7
S3	02 Sep 2025	Wind Dir	NE
S3	02 Sep 2025	Animal Life	
S3	02 Sep 2025	Floatables	
S3	02 Sep 2025	Current Direction	N
S3	02 Sep 2025	Water Temp (C)	15
S3	02 Sep 2025	High Tide Time	817
S3	02 Sep 2025	Low Tide Time	106
S3	02 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-20; No flow from storm drain
S3	10 Sep 2025	Arrive Time	1010
S3	10 Sep 2025	Wind Speed (kts)	1.3
S3	10 Sep 2025	Wind Dir	NE
S3	10 Sep 2025	Animal Life	Bird-15;
S3	10 Sep 2025	Floatables	
S3	10 Sep 2025	Current Direction	S
S3	10 Sep 2025	Water Temp (C)	18
S3	10 Sep 2025	High Tide Time	1112
S3	10 Sep 2025	Low Tide Time	503
S3	10 Sep 2025	Comments	Water clear; Trash-0; Person/Walker/Jogger-15; No flow from storm drain
S3	17 Sep 2025	Arrive Time	935
S3	17 Sep 2025	Wind Speed (kts)	1
S3	17 Sep 2025	Wind Dir	NE
S3	17 Sep 2025	Animal Life	Bird-10; Dog-4;
S3	17 Sep 2025	Floatables	
S3	17 Sep 2025	Current Direction	N
S3	17 Sep 2025	Water Temp (C)	16
S3	17 Sep 2025	High Tide Time	755
S3	17 Sep 2025	Low Tide Time	126
S3	17 Sep 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S3	23 Sep 2025	Arrive Time	930
S3	23 Sep 2025	Wind Speed (kts)	1
S3	23 Sep 2025	Wind Dir	NE
S3	23 Sep 2025	Animal Life	Bird-10; Dog-5;
S3	23 Sep 2025	Floatables	
S3	23 Sep 2025	Current Direction	N
S3	23 Sep 2025	Water Temp (C)	15
S3	23 Sep 2025	High Tide Time	1015
S3	23 Sep 2025	Low Tide Time	411
S3	23 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No flow from storm drain
S3	30 Sep 2025	Arrive Time	1035
S3	30 Sep 2025	Wind Speed (kts)	1.1
S3	30 Sep 2025	Wind Dir	NE
S3	30 Sep 2025	Animal Life	Bird-10; Dog-2;
S3	30 Sep 2025	Floatables	
S3	30 Sep 2025	Current Direction	N
S3	30 Sep 2025	Water Temp (C)	16
S3	30 Sep 2025	High Tide Time	806
S3	30 Sep 2025	Low Tide Time	1021

Station	Date	Parameter	Value
S3	30 Sep 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No flow from storm drain
S4	02 Sep 2025	Arrive Time	1157
S4	02 Sep 2025	Wind Speed (kts)	5.5
S4	02 Sep 2025	Wind Dir	NW
S4	02 Sep 2025	Animal Life	
S4	02 Sep 2025	Floatables	
S4	02 Sep 2025	Current Direction	N
S4	02 Sep 2025	Water Temp (C)	18.7
S4	02 Sep 2025	High Tide Time	817
S4	02 Sep 2025	Low Tide Time	106
S4	02 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S4	10 Sep 2025	Arrive Time	1126
S4	10 Sep 2025	Wind Speed (kts)	4.6
S4	10 Sep 2025	Wind Dir	S
S4	10 Sep 2025	Animal Life	
S4	10 Sep 2025	Floatables	
S4	10 Sep 2025	Current Direction	S
S4	10 Sep 2025	Water Temp (C)	18.4
S4	10 Sep 2025	High Tide Time	1112
S4	10 Sep 2025	Low Tide Time	503
S4	10 Sep 2025	Comments	Water clear; Trash-5
S4	16 Sep 2025	Arrive Time	1045
S4	16 Sep 2025	Wind Speed (kts)	4.8
S4	16 Sep 2025	Wind Dir	NW
S4	16 Sep 2025	Animal Life	
S4	16 Sep 2025	Floatables	
S4	16 Sep 2025	Current Direction	S
S4	16 Sep 2025	Water Temp (C)	19.5
S4	16 Sep 2025	High Tide Time	728
S4	16 Sep 2025	Low Tide Time	37
S4	16 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S4	18 Sep 2025	Arrive Time	902
S4	18 Sep 2025	Wind Speed (kts)	1.7
S4	18 Sep 2025	Wind Dir	W
S4	18 Sep 2025	Animal Life	
S4	18 Sep 2025	Floatables	
S4	18 Sep 2025	Current Direction	S
S4	18 Sep 2025	Water Temp (C)	14.7
S4	18 Sep 2025	High Tide Time	821
S4	18 Sep 2025	Low Tide Time	204
S4	18 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S4	23 Sep 2025	Arrive Time	1159
S4	23 Sep 2025	Wind Speed (kts)	2.7
S4	23 Sep 2025	Wind Dir	SW
S4	23 Sep 2025	Animal Life	
S4	23 Sep 2025	Floatables	
S4	23 Sep 2025	Current Direction	S
S4	23 Sep 2025	Water Temp (C)	17.1
S4	23 Sep 2025	High Tide Time	1015
S4	23 Sep 2025	Low Tide Time	411
S4	23 Sep 2025	Comments	Water clear; Trash-3; Seagrass;Kelp;Debris
S4	30 Sep 2025	Arrive Time	1119
S4	30 Sep 2025	Wind Speed (kts)	2.7
S4	30 Sep 2025	Wind Dir	NW

Station	Date	Parameter	Value
S4	30 Sep 2025	Animal Life	
S4	30 Sep 2025	Floatables	
S4	30 Sep 2025	Current Direction	NE
S4	30 Sep 2025	Water Temp (C)	16
S4	30 Sep 2025	High Tide Time	806
S4	30 Sep 2025	Low Tide Time	1021
S4	30 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S10	02 Sep 2025	Arrive Time	1140
S10	02 Sep 2025	Wind Speed (kts)	5.9
S10	02 Sep 2025	Wind Dir	NW
S10	02 Sep 2025	Animal Life	
S10	02 Sep 2025	Floatables	
S10	02 Sep 2025	Current Direction	NE
S10	02 Sep 2025	Water Temp (C)	18.9
S10	02 Sep 2025	High Tide Time	817
S10	02 Sep 2025	Low Tide Time	106
S10	02 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S10	10 Sep 2025	Arrive Time	1106
S10	10 Sep 2025	Wind Speed (kts)	3.8
S10	10 Sep 2025	Wind Dir	S
S10	10 Sep 2025	Animal Life	
S10	10 Sep 2025	Floatables	
S10	10 Sep 2025	Current Direction	S
S10	10 Sep 2025	Water Temp (C)	18.5
S10	10 Sep 2025	High Tide Time	1112
S10	10 Sep 2025	Low Tide Time	503
S10	10 Sep 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S10	16 Sep 2025	Arrive Time	1031
S10	16 Sep 2025	Wind Speed (kts)	5.2
S10	16 Sep 2025	Wind Dir	NW
S10	16 Sep 2025	Animal Life	
S10	16 Sep 2025	Floatables	
S10	16 Sep 2025	Current Direction	S
S10	16 Sep 2025	Water Temp (C)	18.9
S10	16 Sep 2025	High Tide Time	728
S10	16 Sep 2025	Low Tide Time	37
S10	16 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S10	18 Sep 2025	Arrive Time	925
S10	18 Sep 2025	Wind Speed (kts)	1.5
S10	18 Sep 2025	Wind Dir	W
S10	18 Sep 2025	Animal Life	
S10	18 Sep 2025	Floatables	
S10	18 Sep 2025	Current Direction	S
S10	18 Sep 2025	Water Temp (C)	17.6
S10	18 Sep 2025	High Tide Time	821
S10	18 Sep 2025	Low Tide Time	204
S10	18 Sep 2025	Comments	Water clear; Trash-4; Kelp;Seagrass
S10	23 Sep 2025	Arrive Time	1144
S10	23 Sep 2025	Wind Speed (kts)	3.5
S10	23 Sep 2025	Wind Dir	SW
S10	23 Sep 2025	Animal Life	
S10	23 Sep 2025	Floatables	
S10	23 Sep 2025	Current Direction	S
S10	23 Sep 2025	Water Temp (C)	17.1
S10	23 Sep 2025	High Tide Time	1015
S10	23 Sep 2025	Low Tide Time	411

Station	Date	Parameter	Value
S10	23 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Person/Walker/Jogger-2
S10	30 Sep 2025	Arrive Time	1059
S10	30 Sep 2025	Wind Speed (kts)	3.7
S10	30 Sep 2025	Wind Dir	NW
S10	30 Sep 2025	Animal Life	
S10	30 Sep 2025	Floatables	
S10	30 Sep 2025	Current Direction	NE
S10	30 Sep 2025	Water Temp (C)	9
S10	30 Sep 2025	High Tide Time	806
S10	30 Sep 2025	Low Tide Time	1021
S10	30 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S5	02 Sep 2025	Arrive Time	1008
S5	02 Sep 2025	Wind Speed (kts)	6.6
S5	02 Sep 2025	Wind Dir	NW
S5	02 Sep 2025	Animal Life	Shark-2;
S5	02 Sep 2025	Floatables	
S5	02 Sep 2025	Current Direction	NE
S5	02 Sep 2025	Water Temp (C)	21
S5	02 Sep 2025	High Tide Time	817
S5	02 Sep 2025	Low Tide Time	106
S5	02 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S5	10 Sep 2025	Arrive Time	944
S5	10 Sep 2025	Wind Speed (kts)	3.8
S5	10 Sep 2025	Wind Dir	S
S5	10 Sep 2025	Animal Life	
S5	10 Sep 2025	Floatables	
S5	10 Sep 2025	Current Direction	S
S5	10 Sep 2025	Water Temp (C)	18.6
S5	10 Sep 2025	High Tide Time	1112
S5	10 Sep 2025	Low Tide Time	503
S5	10 Sep 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Algae;Debris
S5	16 Sep 2025	Arrive Time	934
S5	16 Sep 2025	Wind Speed (kts)	4.4
S5	16 Sep 2025	Wind Dir	S
S5	16 Sep 2025	Animal Life	
S5	16 Sep 2025	Floatables	
S5	16 Sep 2025	Current Direction	S
S5	16 Sep 2025	Water Temp (C)	21
S5	16 Sep 2025	High Tide Time	728
S5	16 Sep 2025	Low Tide Time	37
S5	16 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
S5	18 Sep 2025	Arrive Time	1050
S5	18 Sep 2025	Wind Speed (kts)	2.7
S5	18 Sep 2025	Wind Dir	S
S5	18 Sep 2025	Animal Life	
S5	18 Sep 2025	Floatables	Foam
S5	18 Sep 2025	Current Direction	S
S5	18 Sep 2025	Water Temp (C)	18.8
S5	18 Sep 2025	High Tide Time	821
S5	18 Sep 2025	Low Tide Time	204
S5	18 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S5	23 Sep 2025	Arrive Time	1028
S5	23 Sep 2025	Wind Speed (kts)	2.6

Station	Date	Parameter	Value
S5	23 Sep 2025	Wind Dir	SW
S5	23 Sep 2025	Animal Life	
S5	23 Sep 2025	Floatables	
S5	23 Sep 2025	Current Direction	S
S5	23 Sep 2025	Water Temp (C)	16.9
S5	23 Sep 2025	High Tide Time	1015
S5	23 Sep 2025	Low Tide Time	411
S5	23 Sep 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S5	30 Sep 2025	Arrive Time	852
S5	30 Sep 2025	Wind Speed (kts)	0
S5	30 Sep 2025	Wind Dir	XX
S5	30 Sep 2025	Animal Life	
S5	30 Sep 2025	Floatables	
S5	30 Sep 2025	Current Direction	NE
S5	30 Sep 2025	Water Temp (C)	13
S5	30 Sep 2025	High Tide Time	806
S5	30 Sep 2025	Low Tide Time	1021
S5	30 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S11	02 Sep 2025	Arrive Time	1039
S11	02 Sep 2025	Wind Speed (kts)	8.4
S11	02 Sep 2025	Wind Dir	NW
S11	02 Sep 2025	Animal Life	
S11	02 Sep 2025	Floatables	Foam
S11	02 Sep 2025	Current Direction	NE
S11	02 Sep 2025	Water Temp (C)	22.2
S11	02 Sep 2025	High Tide Time	817
S11	02 Sep 2025	Low Tide Time	106
S11	02 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S11	10 Sep 2025	Arrive Time	1004
S11	10 Sep 2025	Wind Speed (kts)	3.3
S11	10 Sep 2025	Wind Dir	S
S11	10 Sep 2025	Animal Life	
S11	10 Sep 2025	Floatables	
S11	10 Sep 2025	Current Direction	S
S11	10 Sep 2025	Water Temp (C)	19.2
S11	10 Sep 2025	High Tide Time	1112
S11	10 Sep 2025	Low Tide Time	503
S11	10 Sep 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris
S11	16 Sep 2025	Arrive Time	916
S11	16 Sep 2025	Wind Speed (kts)	3.6
S11	16 Sep 2025	Wind Dir	W
S11	16 Sep 2025	Animal Life	Seal/Sea Lion-1;
S11	16 Sep 2025	Floatables	
S11	16 Sep 2025	Current Direction	S
S11	16 Sep 2025	Water Temp (C)	18.1
S11	16 Sep 2025	High Tide Time	728
S11	16 Sep 2025	Low Tide Time	37
S11	16 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S11	18 Sep 2025	Arrive Time	1033
S11	18 Sep 2025	Wind Speed (kts)	1.5
S11	18 Sep 2025	Wind Dir	W
S11	18 Sep 2025	Animal Life	
S11	18 Sep 2025	Floatables	
S11	18 Sep 2025	Current Direction	S
S11	18 Sep 2025	Water Temp (C)	18.2

Station	Date	Parameter	Value
S11	18 Sep 2025	High Tide Time	821
S11	18 Sep 2025	Low Tide Time	204
S11	18 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S11	23 Sep 2025	Arrive Time	1047
S11	23 Sep 2025	Wind Speed (kts)	3.3
S11	23 Sep 2025	Wind Dir	W
S11	23 Sep 2025	Animal Life	
S11	23 Sep 2025	Floatables	
S11	23 Sep 2025	Current Direction	S
S11	23 Sep 2025	Water Temp (C)	19
S11	23 Sep 2025	High Tide Time	1015
S11	23 Sep 2025	Low Tide Time	411
S11	23 Sep 2025	Comments	Water clear; Trash-3; Seagrass;Kelp;Debris
S11	30 Sep 2025	Arrive Time	926
S11	30 Sep 2025	Wind Speed (kts)	0
S11	30 Sep 2025	Wind Dir	XX
S11	30 Sep 2025	Animal Life	
S11	30 Sep 2025	Floatables	
S11	30 Sep 2025	Current Direction	NE
S11	30 Sep 2025	Water Temp (C)	10
S11	30 Sep 2025	High Tide Time	806
S11	30 Sep 2025	Low Tide Time	1021
S11	30 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Sea-grass;Debris
S6	02 Sep 2025	Arrive Time	1056
S6	02 Sep 2025	Wind Speed (kts)	9.8
S6	02 Sep 2025	Wind Dir	NE
S6	02 Sep 2025	Animal Life	
S6	02 Sep 2025	Floatables	Foam
S6	02 Sep 2025	Current Direction	NE
S6	02 Sep 2025	Water Temp (C)	20.6
S6	02 Sep 2025	High Tide Time	817
S6	02 Sep 2025	Low Tide Time	106
S6	02 Sep 2025	Comments	Water turbid; Trash-1; Kelp;Seagrass;Algae;Debris
S6	10 Sep 2025	Arrive Time	1018
S6	10 Sep 2025	Wind Speed (kts)	3.6
S6	10 Sep 2025	Wind Dir	S
S6	10 Sep 2025	Animal Life	
S6	10 Sep 2025	Floatables	
S6	10 Sep 2025	Current Direction	S
S6	10 Sep 2025	Water Temp (C)	18.1
S6	10 Sep 2025	High Tide Time	1112
S6	10 Sep 2025	Low Tide Time	503
S6	10 Sep 2025	Comments	Water clear; Trash-4; Algae;Debris;Kelp;Seagrass
S6	16 Sep 2025	Arrive Time	904
S6	16 Sep 2025	Wind Speed (kts)	3.1
S6	16 Sep 2025	Wind Dir	W
S6	16 Sep 2025	Animal Life	
S6	16 Sep 2025	Floatables	
S6	16 Sep 2025	Current Direction	S
S6	16 Sep 2025	Water Temp (C)	19.3
S6	16 Sep 2025	High Tide Time	728
S6	16 Sep 2025	Low Tide Time	37
S6	16 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
S6	18 Sep 2025	Arrive Time	1020

Station	Date	Parameter	Value
S6	18 Sep 2025	Wind Speed (kts)	0
S6	18 Sep 2025	Wind Dir	XX
S6	18 Sep 2025	Animal Life	
S6	18 Sep 2025	Floatables	
S6	18 Sep 2025	Current Direction	S
S6	18 Sep 2025	Water Temp (C)	16.9
S6	18 Sep 2025	High Tide Time	821
S6	18 Sep 2025	Low Tide Time	204
S6	18 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
S6	23 Sep 2025	Arrive Time	1059
S6	23 Sep 2025	Wind Speed (kts)	3.4
S6	23 Sep 2025	Wind Dir	SW
S6	23 Sep 2025	Animal Life	
S6	23 Sep 2025	Floatables	
S6	23 Sep 2025	Current Direction	S
S6	23 Sep 2025	Water Temp (C)	17.3
S6	23 Sep 2025	High Tide Time	1015
S6	23 Sep 2025	Low Tide Time	411
S6	23 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
S6	30 Sep 2025	Arrive Time	946
S6	30 Sep 2025	Wind Speed (kts)	2.9
S6	30 Sep 2025	Wind Dir	NW
S6	30 Sep 2025	Animal Life	
S6	30 Sep 2025	Floatables	
S6	30 Sep 2025	Current Direction	NE
S6	30 Sep 2025	Water Temp (C)	13
S6	30 Sep 2025	High Tide Time	806
S6	30 Sep 2025	Low Tide Time	1021
S6	30 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
S12	02 Sep 2025	Arrive Time	914
S12	02 Sep 2025	Wind Speed (kts)	3.7
S12	02 Sep 2025	Wind Dir	NW
S12	02 Sep 2025	Animal Life	
S12	02 Sep 2025	Floatables	
S12	02 Sep 2025	Current Direction	NE
S12	02 Sep 2025	Water Temp (C)	19.5
S12	02 Sep 2025	High Tide Time	817
S12	02 Sep 2025	Low Tide Time	106
S12	02 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S12	10 Sep 2025	Arrive Time	902
S12	10 Sep 2025	Wind Speed (kts)	1.9
S12	10 Sep 2025	Wind Dir	S
S12	10 Sep 2025	Animal Life	
S12	10 Sep 2025	Floatables	
S12	10 Sep 2025	Current Direction	S
S12	10 Sep 2025	Water Temp (C)	18.8
S12	10 Sep 2025	High Tide Time	1112
S12	10 Sep 2025	Low Tide Time	503
S12	10 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S12	16 Sep 2025	Arrive Time	847
S12	16 Sep 2025	Wind Speed (kts)	3.7
S12	16 Sep 2025	Wind Dir	W
S12	16 Sep 2025	Animal Life	
S12	16 Sep 2025	Floatables	
S12	16 Sep 2025	Current Direction	S

Station	Date	Parameter	Value
S12	16 Sep 2025	Water Temp (C)	19.9
S12	16 Sep 2025	High Tide Time	728
S12	16 Sep 2025	Low Tide Time	37
S12	16 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S12	18 Sep 2025	Arrive Time	1148
S12	18 Sep 2025	Wind Speed (kts)	3.3
S12	18 Sep 2025	Wind Dir	SW
S12	18 Sep 2025	Animal Life	
S12	18 Sep 2025	Floatables	
S12	18 Sep 2025	Current Direction	S
S12	18 Sep 2025	Water Temp (C)	20.4
S12	18 Sep 2025	High Tide Time	821
S12	18 Sep 2025	Low Tide Time	204
S12	18 Sep 2025	Comments	Water clear; Fisherperson-1; Trash-2; Kelp;Seagrass
S12	23 Sep 2025	Arrive Time	940
S12	23 Sep 2025	Wind Speed (kts)	0.8
S12	23 Sep 2025	Wind Dir	SW
S12	23 Sep 2025	Animal Life	
S12	23 Sep 2025	Floatables	
S12	23 Sep 2025	Current Direction	S
S12	23 Sep 2025	Water Temp (C)	17.3
S12	23 Sep 2025	High Tide Time	1015
S12	23 Sep 2025	Low Tide Time	411
S12	23 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S12	30 Sep 2025	Arrive Time	757
S12	30 Sep 2025	Wind Speed (kts)	0
S12	30 Sep 2025	Wind Dir	XX
S12	30 Sep 2025	Animal Life	
S12	30 Sep 2025	Floatables	
S12	30 Sep 2025	Current Direction	NE
S12	30 Sep 2025	Water Temp (C)	13
S12	30 Sep 2025	High Tide Time	806
S12	30 Sep 2025	Low Tide Time	1021
S12	30 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S8	02 Sep 2025	Arrive Time	855
S8	02 Sep 2025	Wind Speed (kts)	3
S8	02 Sep 2025	Wind Dir	NW
S8	02 Sep 2025	Animal Life	
S8	02 Sep 2025	Floatables	
S8	02 Sep 2025	Current Direction	NE
S8	02 Sep 2025	Water Temp (C)	19.8
S8	02 Sep 2025	High Tide Time	817
S8	02 Sep 2025	Low Tide Time	106
S8	02 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S8	10 Sep 2025	Arrive Time	837
S8	10 Sep 2025	Wind Speed (kts)	3.3
S8	10 Sep 2025	Wind Dir	S
S8	10 Sep 2025	Animal Life	
S8	10 Sep 2025	Floatables	
S8	10 Sep 2025	Current Direction	S
S8	10 Sep 2025	Water Temp (C)	18.7
S8	10 Sep 2025	High Tide Time	1112
S8	10 Sep 2025	Low Tide Time	503
S8	10 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris

Station	Date	Parameter	Value
S8	16 Sep 2025	Arrive Time	820
S8	16 Sep 2025	Wind Speed (kts)	3.7
S8	16 Sep 2025	Wind Dir	W
S8	16 Sep 2025	Animal Life	
S8	16 Sep 2025	Floatables	
S8	16 Sep 2025	Current Direction	S
S8	16 Sep 2025	Water Temp (C)	17.7
S8	16 Sep 2025	High Tide Time	728
S8	16 Sep 2025	Low Tide Time	37
S8	16 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S8	18 Sep 2025	Arrive Time	1210
S8	18 Sep 2025	Wind Speed (kts)	6.6
S8	18 Sep 2025	Wind Dir	S
S8	18 Sep 2025	Animal Life	
S8	18 Sep 2025	Floatables	
S8	18 Sep 2025	Current Direction	S
S8	18 Sep 2025	Water Temp (C)	21.3
S8	18 Sep 2025	High Tide Time	821
S8	18 Sep 2025	Low Tide Time	204
S8	18 Sep 2025	Comments	Water clear; Boogie boarder/Swimmer-3; Trash-1; Kelp;Sea-grass; Person/Walker/Jogger-9
S8	23 Sep 2025	Arrive Time	919
S8	23 Sep 2025	Wind Speed (kts)	0
S8	23 Sep 2025	Wind Dir	SW
S8	23 Sep 2025	Animal Life	
S8	23 Sep 2025	Floatables	
S8	23 Sep 2025	Current Direction	S
S8	23 Sep 2025	Water Temp (C)	16.7
S8	23 Sep 2025	High Tide Time	1015
S8	23 Sep 2025	Low Tide Time	411
S8	23 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S8	30 Sep 2025	Arrive Time	737
S8	30 Sep 2025	Wind Speed (kts)	0
S8	30 Sep 2025	Wind Dir	XX
S8	30 Sep 2025	Animal Life	
S8	30 Sep 2025	Floatables	
S8	30 Sep 2025	Current Direction	NE
S8	30 Sep 2025	Water Temp (C)	14
S8	30 Sep 2025	High Tide Time	806
S8	30 Sep 2025	Low Tide Time	1021
S8	30 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S9	02 Sep 2025	Arrive Time	839
S9	02 Sep 2025	Wind Speed (kts)	1.6
S9	02 Sep 2025	Wind Dir	NW
S9	02 Sep 2025	Animal Life	
S9	02 Sep 2025	Floatables	
S9	02 Sep 2025	Current Direction	NE
S9	02 Sep 2025	Water Temp (C)	20
S9	02 Sep 2025	High Tide Time	817
S9	02 Sep 2025	Low Tide Time	106
S9	02 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Per-son/Walker/Jogger-1
S9	10 Sep 2025	Arrive Time	813
S9	10 Sep 2025	Wind Speed (kts)	2.9
S9	10 Sep 2025	Wind Dir	SW
S9	10 Sep 2025	Animal Life	Bird-1;

Station	Date	Parameter	Value
S9	10 Sep 2025	Floatables	
S9	10 Sep 2025	Current Direction	S
S9	10 Sep 2025	Water Temp (C)	17.4
S9	10 Sep 2025	High Tide Time	1112
S9	10 Sep 2025	Low Tide Time	503
S9	10 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-2
S9	16 Sep 2025	Arrive Time	802
S9	16 Sep 2025	Wind Speed (kts)	0
S9	16 Sep 2025	Wind Dir	XX
S9	16 Sep 2025	Animal Life	
S9	16 Sep 2025	Floatables	
S9	16 Sep 2025	Current Direction	S
S9	16 Sep 2025	Water Temp (C)	18.8
S9	16 Sep 2025	High Tide Time	728
S9	16 Sep 2025	Low Tide Time	37
S9	16 Sep 2025	Comments	Water clear; Boogie boarder/Swimmer-2; Fisherperson-1; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S9	18 Sep 2025	Arrive Time	1227
S9	18 Sep 2025	Wind Speed (kts)	1.3
S9	18 Sep 2025	Wind Dir	S
S9	18 Sep 2025	Animal Life	
S9	18 Sep 2025	Floatables	
S9	18 Sep 2025	Current Direction	S
S9	18 Sep 2025	Water Temp (C)	18.4
S9	18 Sep 2025	High Tide Time	821
S9	18 Sep 2025	Low Tide Time	204
S9	18 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
S9	23 Sep 2025	Arrive Time	857
S9	23 Sep 2025	Wind Speed (kts)	2.2
S9	23 Sep 2025	Wind Dir	W
S9	23 Sep 2025	Animal Life	Bird-2;
S9	23 Sep 2025	Floatables	
S9	23 Sep 2025	Current Direction	S
S9	23 Sep 2025	Water Temp (C)	16.1
S9	23 Sep 2025	High Tide Time	1015
S9	23 Sep 2025	Low Tide Time	411
S9	23 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S9	30 Sep 2025	Arrive Time	720
S9	30 Sep 2025	Wind Speed (kts)	0
S9	30 Sep 2025	Wind Dir	XX
S9	30 Sep 2025	Animal Life	Bird-6;
S9	30 Sep 2025	Floatables	
S9	30 Sep 2025	Current Direction	NE
S9	30 Sep 2025	Water Temp (C)	14
S9	30 Sep 2025	High Tide Time	806
S9	30 Sep 2025	Low Tide Time	1021
S9	30 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-3

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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 Sep 2025	*2	*2	*2	*2	*2	*2	*2
02 Sep 2025	2	2	2	2	3	2	2
03 Sep 2025	*2	*2	*2	*2	*3	*2	*2
04 Sep 2025	*2	*2	*2	*2	*3	*2	*2
05 Sep 2025	*2	*2	*2	*2	*3	*2	*2
06 Sep 2025	*2	*2	*2	*2	*3	*2	*2
07 Sep 2025	*2	*2	*2	*2	*3	*2	*2
08 Sep 2025	2	2	2	2	3	2	2
09 Sep 2025	2	2	2	2	3	2	2
10 Sep 2025	*2	*2	*2	*2	*3	*2	*2
11 Sep 2025	*2	*2	*2	*2	*3	*2	*2
12 Sep 2025	*2	*2	*2	*2	*3	*2	*2
13 Sep 2025	*2	*2	*2	*2	*3	*2	*2
14 Sep 2025	*2	*2	*2	*2	*3	*2	*2
15 Sep 2025	*2	*2	*2	*2	*3	*2	*2
16 Sep 2025	2	2	2	2	3	2	2
17 Sep 2025	*2	*2	*2	*2	*3	*2	*2
18 Sep 2025	*2	*2	*2	*2	*3	*2	*2
19 Sep 2025	*2	*2	*2	*2	*3	*2	*2
20 Sep 2025	*2	*2	*2	*2	*3	*2	*2
21 Sep 2025	*2	*2	*2	*2	*3	*2	*2
22 Sep 2025	*2	*2	*2	*2	*3	*2	*2
23 Sep 2025	2	2	2	2	3	2	2
24 Sep 2025	2	2	2	2	3	2	2
25 Sep 2025	*2	*2	*2	*2	*2	*2	*2
26 Sep 2025	*2	*2	*2	*2	*2	*2	*2
27 Sep 2025	*2	*2	*2	*2	*2	*2	*2
28 Sep 2025	*2	*2	*2	*2	*2	*2	*2
29 Sep 2025	7	8	7	5	3	3	8
30 Sep 2025	7	8	7	5	3	3	8

* 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 Sep 2025	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC
16 Sep 2025	IC	IC	IC	IC	IC	IC	IC
23 Sep 2025	IC	IC	IC	IC	IC	IC	IC
29 Sep 2025	E	E	E	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Sep 2025	2	2	2	2	2	3	2
02 Sep 2025	2	2	2	2	3	3	2
03 Sep 2025	2	2	2	2	3	3	2
04 Sep 2025	2	2	2	2	3	3	2
05 Sep 2025	2	2	2	2	3	3	2
06 Sep 2025	2	2	2	2	3	3	2
07 Sep 2025	2	2	2	2	3	3	2
08 Sep 2025	2	2	2	2	3	3	2
09 Sep 2025	2	2	2	2	3	3	2
10 Sep 2025	2	2	2	2	3	3	2
11 Sep 2025	2	2	2	2	3	2	2
12 Sep 2025	2	2	2	2	3	2	2
13 Sep 2025	2	2	2	2	3	2	2
14 Sep 2025	2	2	2	2	3	2	2
15 Sep 2025	2	2	2	2	3	2	2
16 Sep 2025	2	2	2	2	3	2	2
17 Sep 2025	2	2	2	2	3	2	2
18 Sep 2025	2	2	2	2	3	2	2
19 Sep 2025	2	2	2	2	3	2	2
20 Sep 2025	2	2	2	2	3	2	2
21 Sep 2025	2	2	2	2	3	2	2
22 Sep 2025	2	2	2	2	3	2	2
23 Sep 2025	2	2	2	2	3	2	2
24 Sep 2025	2	2	2	2	3	2	2
25 Sep 2025	2	2	2	2	3	2	2
26 Sep 2025	2	2	2	2	3	2	2
27 Sep 2025	2	2	2	2	3	2	2
28 Sep 2025	2	2	2	2	3	2	2
29 Sep 2025	5	6	5	4	3	3	6
30 Sep 2025	5	6	5	4	3	3	6

* 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
September	E	E	E	E	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 Sep 2025	*7	*12	*12	*2	*11	*4	*2	*2	*2	*2	*11	*13	*18	*2	*2	*2	*2	*2	*2	*2	*20	*12
02 Sep 2025	2	2	6	2	20	4	2	2	2	2	20	20	20	2	2	2	2	2	2	2	20	10
03 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*2	*3	*20	*40	*2	*2	*3	*2	*2	*2	*2	*20	*9
04 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*2	*3	*20	*40	*2	*2	*3	*2	*2	*2	*2	*20	*9
05 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*2	*3	*20	*40	*2	*2	*3	*2	*2	*2	*2	*20	*9
06 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*2	*3	*20	*40	*2	*2	*3	*2	*2	*2	*2	*20	*9
07 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*2	*3	*20	*40	*2	*2	*3	*2	*2	*2	*2	*20	*9
08 Sep 2025	2	2	4	2	2	2	2	2	2	2	20	20	20	2	2	2	2	2	2	2	20	8
09 Sep 2025	2	2	4	2	2	2	2	2	2	2	20	20	20	2	2	2	2	2	2	2	20	8
10 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*11	*11	*12	*2	*2	*3	*11	*12	*2	*2	*2	*14	*9
11 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*11	*11	*12	*2	*2	*3	*11	*12	*2	*2	*2	*14	*9
12 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*11	*11	*12	*2	*2	*3	*11	*12	*2	*2	*2	*14	*9
13 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*11	*11	*12	*2	*2	*3	*11	*12	*2	*2	*2	*14	*9
14 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*11	*11	*12	*2	*2	*3	*11	*12	*2	*2	*2	*14	*9
15 Sep 2025	*7	*12	*5	*11	*11	*3	*11	*10	*4	*11	*11	*12	*2	*2	*3	*11	*12	*2	*2	*2	*14	*9
16 Sep 2025	2	2	4	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	8	10
17 Sep 2025	*2	*2	*4	*2	*11	*2	*2	*10	*2	*2	*2	*11	*12	*2	*3	*2	*2	*2	*2	*2	*5	*13
18 Sep 2025	*2	*2	*4	*2	*11	*2	*2	*10	*2	*2	*2	*11	*12	*2	*3	*2	*2	*2	*2	*2	*5	*13
19 Sep 2025	*2	*2	*4	*2	*11	*2	*2	*10	*2	*2	*2	*11	*12	*2	*3	*2	*2	*2	*2	*2	*5	*13
20 Sep 2025	*2	*2	*4	*2	*11	*2	*2	*10	*2	*2	*2	*11	*12	*2	*3	*2	*2	*2	*2	*2	*5	*13
21 Sep 2025	*2	*2	*4	*2	*11	*2	*2	*10	*2	*2	*2	*11	*12	*2	*3	*2	*2	*2	*2	*2	*5	*13
22 Sep 2025	*2	*2	*4	*2	*11	*2	*2	*10	*2	*2	*2	*11	*12	*2	*3	*2	*2	*2	*2	*2	*5	*13
23 Sep 2025	2	2	6	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	8	10
24 Sep 2025	2	2	6	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	8	10
25 Sep 2025	*2	*2	*4	*3	*2	*2	*2	*2	*3	*2	*2	*2	*3	*2	*2	*2	*2	*2	*11	*5	*6	
26 Sep 2025	*2	*2	*4	*3	*2	*2	*2	*2	*3	*2	*2	*2	*3	*2	*2	*2	*2	*2	*11	*5	*6	
27 Sep 2025	*2	*2	*4	*3	*2	*2	*2	*2	*3	*2	*2	*2	*3	*2	*2	*2	*2	*2	*11	*5	*6	
28 Sep 2025	*2	*2	*4	*3	*2	*2	*2	*2	*3	*2	*2	*2	*3	*2	*2	*2	*2	*2	*11	*5	*6	
29 Sep 2025	2	2	6	4	2	2	2	2	4	2	2	2	4	2	2	2	2	2	20	8	10	
30 Sep 2025	2	2	6	4	2	2	2	2	4	2	2	2	4	2	2	2	2	2	20	8	10	

* 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
September	E	E	E	E	E	E	E	E	E	E	E	E	IC	IC	IC	IC	IC	IC	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	02 Sep 2025	1010	2	2e	<2	<2
I19	02 Sep 2025	1010	6	2e	<2	<2
I19	02 Sep 2025	1010	11	6e	<2	<2
I19	08 Sep 2025	1029	2	<2	<2	<2
I19	08 Sep 2025	1029	6	<2	<2	<2
I19	08 Sep 2025	1029	11	<2	<2	<2
I19	16 Sep 2025	1056	2	<2	<2	<2
I19	16 Sep 2025	1056	6	2e	2e	<2
I19	16 Sep 2025	1056	11	2e	<2	<2
I19	23 Sep 2025	1025	2	<2	<2	<2
I19	23 Sep 2025	1025	6	<20	<2	<2
I19	23 Sep 2025	1025	11	12e	<2	<2
I19	29 Sep 2025	1033	2	820	46	98
I19	29 Sep 2025	1033	6	5800	760	220e
I19	29 Sep 2025	1033	11	11000	3200e	1000
I24	02 Sep 2025	1031	2	80e	4e	14e
I24	02 Sep 2025	1031	6	<20	<2	<2
I24	02 Sep 2025	1031	11	<2	<2	<2
I24	08 Sep 2025	1051	2	2e	<2	<2
I24	08 Sep 2025	1051	6	<2	<2	<2
I24	08 Sep 2025	1051	11	<2	<2	<2
I24	16 Sep 2025	1115	2	<2	<2	<2
I24	16 Sep 2025	1115	6	<2	<2	<2
I24	16 Sep 2025	1115	11	<2	<2	<2
I24	23 Sep 2025	1043	2	4e	<2	<2
I24	23 Sep 2025	1043	6	<2	<2	2e
I24	23 Sep 2025	1043	11	<2	<2	<2
I24	29 Sep 2025	1057	2	3200e	160e	240e
I24	29 Sep 2025	1057	6	11000	1600e	820
I24	29 Sep 2025	1057	11	10000	2200e	780
I25	02 Sep 2025	1037	2	34e	<2	2e
I25	02 Sep 2025	1037	6	18e	<2	<2
I25	02 Sep 2025	1037	9	6e	<2	<2
I25	08 Sep 2025	1059	2	<2	<2	<2
I25	08 Sep 2025	1059	6	<2	<2	<2
I25	08 Sep 2025	1059	9	<2	<2	<2
I25	16 Sep 2025	1122	2	<2	<2	<2
I25	16 Sep 2025	1122	6	<2	<2	<2
I25	16 Sep 2025	1122	9	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
I25	23 Sep 2025	1050	2	<2	<2	<2
I25	23 Sep 2025	1050	6	2e	<2	<2
I25	23 Sep 2025	1050	9	4e	<2	2e
I25	29 Sep 2025	1107	2	1800e	100	200e
I25	29 Sep 2025	1107	6	7000	800	640
I25	29 Sep 2025	1107	9	10000	3200e	380e
I26	02 Sep 2025	1046	2	<2	<2	<2
I26	02 Sep 2025	1046	6	2e	<2	<2
I26	02 Sep 2025	1046	9	4e	<2	<2
I26	08 Sep 2025	1108	2	<20	2e	<2
I26	08 Sep 2025	1108	6	<2	<2	<2
I26	08 Sep 2025	1108	9	<2	<2	<2
I26	16 Sep 2025	1132	2	<2	<2	<2
I26	16 Sep 2025	1132	6	<2	<2	<2
I26	16 Sep 2025	1132	9	<2	<2	<2
I26	23 Sep 2025	1101	2	<2	<2	<2
I26	23 Sep 2025	1101	6	4e	<2	4e
I26	23 Sep 2025	1101	9	<2	2e	<2
I26	29 Sep 2025	1118	2	2400e	200e	140e
I26	29 Sep 2025	1118	6	1800e	280e	200e
I26	29 Sep 2025	1118	9	2800e	240e	120e
I32	02 Sep 2025	1059	2	120e	6e	16e
I32	02 Sep 2025	1059	6	40e	<2	4e
I32	02 Sep 2025	1059	9	60e	4e	<2
I32	08 Sep 2025	1121	2	<2	<2	<2
I32	08 Sep 2025	1121	6	<2	<2	<2
I32	08 Sep 2025	1121	9	4e	2e	<2
I32	16 Sep 2025	1146	2	<2	<2	<2
I32	16 Sep 2025	1146	6	<2	<2	<2
I32	16 Sep 2025	1146	9	<2	2e	<2
I32	23 Sep 2025	1111	2	<2	<2	<2
I32	23 Sep 2025	1111	6	2e	<2	<2
I32	23 Sep 2025	1111	9	<2	<2	<2
I32	29 Sep 2025	1129	2	12e	<2	2e
I32	29 Sep 2025	1129	6	120e	12e	18e
I32	29 Sep 2025	1129	9	60e	<2	<2
I39	02 Sep 2025	951	2	<2	<2	<2
I39	02 Sep 2025	951	12	2e	<2	<2
I39	02 Sep 2025	951	18	<2	<2	<2
I39	08 Sep 2025	1010	2	<2	<2	<2
I39	08 Sep 2025	1010	12	<2	<2	2e
I39	08 Sep 2025	1010	18	<2	<2	<2
I39	16 Sep 2025	1032	2	<2	<2	<2
I39	16 Sep 2025	1032	12	<2	<2	<2
I39	16 Sep 2025	1032	18	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Enteroc
I39	23 Sep 2025	1007	2	<2	<2	<2
I39	23 Sep 2025	1007	12	<2	<2	<2
I39	23 Sep 2025	1007	18	2e	<2	<2
I39	29 Sep 2025	1010	2	20e	6e	4e
I39	29 Sep 2025	1010	12	200e	24e	18e
I39	29 Sep 2025	1010	18	40e	8e	10e
I40	02 Sep 2025	1021	2	20e	<2	2e
I40	02 Sep 2025	1021	6	8e	<2	<2
I40	02 Sep 2025	1021	9	10e	<2	4e
I40	08 Sep 2025	1041	2	<2	<2	<2
I40	08 Sep 2025	1041	6	<2	2e	<2
I40	08 Sep 2025	1041	9	<2	<2	<2
I40	16 Sep 2025	1106	2	<2	<2	<2
I40	16 Sep 2025	1106	6	<2	<2	<2
I40	16 Sep 2025	1106	9	<20	<2	<2
I40	23 Sep 2025	1036	2	72	2e	<2
I40	23 Sep 2025	1036	6	10e	<2	<2
I40	23 Sep 2025	1036	9	2e	<2	<2
I40	29 Sep 2025	1045	2	3000e	840	400
I40	29 Sep 2025	1045	6	>16000	2400e	900
I40	29 Sep 2025	1045	9	4600	1800e	560

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	02 Sep 2025	Arrive Time	1010
I19	02 Sep 2025	Depart Time	1014
I19	02 Sep 2025	Air Temp (C)	20.8
I19	02 Sep 2025	Visibility (mi)	9
I19	02 Sep 2025	Wind Speed (kts)	9.2
I19	02 Sep 2025	Wind Dir	W
I19	02 Sep 2025	Sea State	Confused Swell
I19	02 Sep 2025	High Tide Time	1806
I19	02 Sep 2025	Low Tide Time	100
I19	02 Sep 2025	Comments	
I19	08 Sep 2025	Arrive Time	1029
I19	08 Sep 2025	Depart Time	1035
I19	08 Sep 2025	Air Temp (C)	21.3
I19	08 Sep 2025	Visibility (mi)	10
I19	08 Sep 2025	Wind Speed (kts)	1.1
I19	08 Sep 2025	Wind Dir	S
I19	08 Sep 2025	Sea State	Calm
I19	08 Sep 2025	High Tide Time	2218
I19	08 Sep 2025	Low Tide Time	400
I19	08 Sep 2025	Comments	
I19	16 Sep 2025	Arrive Time	1056
I19	16 Sep 2025	Depart Time	1059
I19	16 Sep 2025	Air Temp (C)	21.8
I19	16 Sep 2025	Visibility (mi)	8
I19	16 Sep 2025	Wind Speed (kts)	4.4
I19	16 Sep 2025	Wind Dir	N
I19	16 Sep 2025	Sea State	Calm
I19	16 Sep 2025	High Tide Time	1800
I19	16 Sep 2025	Low Tide Time	36
I19	16 Sep 2025	Comments	
I19	23 Sep 2025	Arrive Time	1025
I19	23 Sep 2025	Depart Time	1028
I19	23 Sep 2025	Air Temp (C)	18.6
I19	23 Sep 2025	Visibility (mi)	4
I19	23 Sep 2025	Wind Speed (kts)	2.3
I19	23 Sep 2025	Wind Dir	SE
I19	23 Sep 2025	Sea State	Calm
I19	23 Sep 2025	High Tide Time	1024
I19	23 Sep 2025	Low Tide Time	1642
I19	23 Sep 2025	Comments	
I19	29 Sep 2025	Arrive Time	1033
I19	29 Sep 2025	Depart Time	1038
I19	29 Sep 2025	Air Temp (C)	19.2
I19	29 Sep 2025	Visibility (mi)	10
I19	29 Sep 2025	Wind Speed (kts)	0
I19	29 Sep 2025	Wind Dir	NW
I19	29 Sep 2025	Sea State	Regular Swell
I19	29 Sep 2025	High Tide Time	1348
I19	29 Sep 2025	Low Tide Time	2312
I19	29 Sep 2025	Comments	
I40	02 Sep 2025	Arrive Time	1021

Station	Date	Parameter	Value
I40	02 Sep 2025	Depart Time	1024
I40	02 Sep 2025	Air Temp (C)	20.8
I40	02 Sep 2025	Visibility (mi)	9
I40	02 Sep 2025	Wind Speed (kts)	6.3
I40	02 Sep 2025	Wind Dir	W
I40	02 Sep 2025	Sea State	Confused Swell
I40	02 Sep 2025	High Tide Time	1806
I40	02 Sep 2025	Low Tide Time	100
I40	02 Sep 2025	Comments	
I40	08 Sep 2025	Arrive Time	1041
I40	08 Sep 2025	Depart Time	1048
I40	08 Sep 2025	Air Temp (C)	21.3
I40	08 Sep 2025	Visibility (mi)	10
I40	08 Sep 2025	Wind Speed (kts)	7
I40	08 Sep 2025	Wind Dir	W
I40	08 Sep 2025	Sea State	Calm
I40	08 Sep 2025	High Tide Time	2218
I40	08 Sep 2025	Low Tide Time	400
I40	08 Sep 2025	Comments	
I40	16 Sep 2025	Arrive Time	1106
I40	16 Sep 2025	Depart Time	1110
I40	16 Sep 2025	Air Temp (C)	20.7
I40	16 Sep 2025	Visibility (mi)	8
I40	16 Sep 2025	Wind Speed (kts)	7.2
I40	16 Sep 2025	Wind Dir	NW
I40	16 Sep 2025	Sea State	Calm
I40	16 Sep 2025	High Tide Time	1800
I40	16 Sep 2025	Low Tide Time	36
I40	16 Sep 2025	Comments	
I40	23 Sep 2025	Arrive Time	1036
I40	23 Sep 2025	Depart Time	1040
I40	23 Sep 2025	Air Temp (C)	18.8
I40	23 Sep 2025	Visibility (mi)	6
I40	23 Sep 2025	Wind Speed (kts)	11.9
I40	23 Sep 2025	Wind Dir	W
I40	23 Sep 2025	Sea State	Calm
I40	23 Sep 2025	High Tide Time	1024
I40	23 Sep 2025	Low Tide Time	1642
I40	23 Sep 2025	Comments	
I40	29 Sep 2025	Arrive Time	1045
I40	29 Sep 2025	Depart Time	1050
I40	29 Sep 2025	Air Temp (C)	19.3
I40	29 Sep 2025	Visibility (mi)	10
I40	29 Sep 2025	Wind Speed (kts)	6.1
I40	29 Sep 2025	Wind Dir	W
I40	29 Sep 2025	Sea State	Regular Swell
I40	29 Sep 2025	High Tide Time	1348
I40	29 Sep 2025	Low Tide Time	2312
I40	29 Sep 2025	Comments	
I24	02 Sep 2025	Arrive Time	1031
I24	02 Sep 2025	Depart Time	1034
I24	02 Sep 2025	Air Temp (C)	20.9
I24	02 Sep 2025	Visibility (mi)	9
I24	02 Sep 2025	Wind Speed (kts)	7.3
I24	02 Sep 2025	Wind Dir	W
I24	02 Sep 2025	Sea State	Confused Swell

Station	Date	Parameter	Value
I24	02 Sep 2025	High Tide Time	1806
I24	02 Sep 2025	Low Tide Time	100
I24	02 Sep 2025	Comments	
I24	08 Sep 2025	Arrive Time	1051
I24	08 Sep 2025	Depart Time	1055
I24	08 Sep 2025	Air Temp (C)	21.3
I24	08 Sep 2025	Visibility (mi)	10
I24	08 Sep 2025	Wind Speed (kts)	3.5
I24	08 Sep 2025	Wind Dir	S
I24	08 Sep 2025	Sea State	Calm
I24	08 Sep 2025	High Tide Time	2218
I24	08 Sep 2025	Low Tide Time	400
I24	08 Sep 2025	Comments	
I24	16 Sep 2025	Arrive Time	1115
I24	16 Sep 2025	Depart Time	1119
I24	16 Sep 2025	Air Temp (C)	20.6
I24	16 Sep 2025	Visibility (mi)	8
I24	16 Sep 2025	Wind Speed (kts)	4.8
I24	16 Sep 2025	Wind Dir	NW
I24	16 Sep 2025	Sea State	Calm
I24	16 Sep 2025	High Tide Time	1800
I24	16 Sep 2025	Low Tide Time	36
I24	16 Sep 2025	Comments	
I24	23 Sep 2025	Arrive Time	1043
I24	23 Sep 2025	Depart Time	1047
I24	23 Sep 2025	Air Temp (C)	18.9
I24	23 Sep 2025	Visibility (mi)	6
I24	23 Sep 2025	Wind Speed (kts)	16.7
I24	23 Sep 2025	Wind Dir	W
I24	23 Sep 2025	Sea State	Calm
I24	23 Sep 2025	High Tide Time	1024
I24	23 Sep 2025	Low Tide Time	1642
I24	23 Sep 2025	Comments	
I24	29 Sep 2025	Arrive Time	1057
I24	29 Sep 2025	Depart Time	1103
I24	29 Sep 2025	Air Temp (C)	19.5
I24	29 Sep 2025	Visibility (mi)	10
I24	29 Sep 2025	Wind Speed (kts)	1.7
I24	29 Sep 2025	Wind Dir	N
I24	29 Sep 2025	Sea State	Regular Swell
I24	29 Sep 2025	High Tide Time	1348
I24	29 Sep 2025	Low Tide Time	2312
I24	29 Sep 2025	Comments	
I25	02 Sep 2025	Arrive Time	1037
I25	02 Sep 2025	Depart Time	1040
I25	02 Sep 2025	Air Temp (C)	20.8
I25	02 Sep 2025	Visibility (mi)	9
I25	02 Sep 2025	Wind Speed (kts)	9.3
I25	02 Sep 2025	Wind Dir	SW
I25	02 Sep 2025	Sea State	Confused Swell
I25	02 Sep 2025	High Tide Time	1806
I25	02 Sep 2025	Low Tide Time	100
I25	02 Sep 2025	Comments	
I25	08 Sep 2025	Arrive Time	1059
I25	08 Sep 2025	Depart Time	1103

Station	Date	Parameter	Value
I25	08 Sep 2025	Air Temp (C)	21.4
I25	08 Sep 2025	Visibility (mi)	10
I25	08 Sep 2025	Wind Speed (kts)	5.9
I25	08 Sep 2025	Wind Dir	W
I25	08 Sep 2025	Sea State	Calm
I25	08 Sep 2025	High Tide Time	2218
I25	08 Sep 2025	Low Tide Time	400
I25	08 Sep 2025	Comments	
I25	16 Sep 2025	Arrive Time	1122
I25	16 Sep 2025	Depart Time	1126
I25	16 Sep 2025	Air Temp (C)	20.9
I25	16 Sep 2025	Visibility (mi)	8
I25	16 Sep 2025	Wind Speed (kts)	6.5
I25	16 Sep 2025	Wind Dir	NW
I25	16 Sep 2025	Sea State	Calm
I25	16 Sep 2025	High Tide Time	1800
I25	16 Sep 2025	Low Tide Time	36
I25	16 Sep 2025	Comments	
I25	23 Sep 2025	Arrive Time	1050
I25	23 Sep 2025	Depart Time	1055
I25	23 Sep 2025	Air Temp (C)	18.8
I25	23 Sep 2025	Visibility (mi)	6
I25	23 Sep 2025	Wind Speed (kts)	14.8
I25	23 Sep 2025	Wind Dir	NW
I25	23 Sep 2025	Sea State	Calm
I25	23 Sep 2025	High Tide Time	1024
I25	23 Sep 2025	Low Tide Time	1642
I25	23 Sep 2025	Comments	
I25	29 Sep 2025	Arrive Time	1107
I25	29 Sep 2025	Depart Time	1111
I25	29 Sep 2025	Air Temp (C)	19.6
I25	29 Sep 2025	Visibility (mi)	10
I25	29 Sep 2025	Wind Speed (kts)	7.1
I25	29 Sep 2025	Wind Dir	SW
I25	29 Sep 2025	Sea State	Regular Swell
I25	29 Sep 2025	High Tide Time	1348
I25	29 Sep 2025	Low Tide Time	2312
I25	29 Sep 2025	Comments	
I39	02 Sep 2025	Arrive Time	951
I39	02 Sep 2025	Depart Time	955
I39	02 Sep 2025	Air Temp (C)	20.6
I39	02 Sep 2025	Visibility (mi)	9
I39	02 Sep 2025	Wind Speed (kts)	5.7
I39	02 Sep 2025	Wind Dir	W
I39	02 Sep 2025	Sea State	Regular Swell
I39	02 Sep 2025	High Tide Time	1806
I39	02 Sep 2025	Low Tide Time	100
I39	02 Sep 2025	Comments	
I39	08 Sep 2025	Arrive Time	1010
I39	08 Sep 2025	Depart Time	1015
I39	08 Sep 2025	Air Temp (C)	21.6
I39	08 Sep 2025	Visibility (mi)	10
I39	08 Sep 2025	Wind Speed (kts)	3.8
I39	08 Sep 2025	Wind Dir	W
I39	08 Sep 2025	Sea State	Calm
I39	08 Sep 2025	High Tide Time	2218

Station	Date	Parameter	Value
I39	08 Sep 2025	Low Tide Time	400
I39	08 Sep 2025	Comments	
I39	16 Sep 2025	Arrive Time	1032
I39	16 Sep 2025	Depart Time	1037
I39	16 Sep 2025	Air Temp (C)	21.9
I39	16 Sep 2025	Visibility (mi)	6
I39	16 Sep 2025	Wind Speed (kts)	6.3
I39	16 Sep 2025	Wind Dir	NW
I39	16 Sep 2025	Sea State	Calm
I39	16 Sep 2025	High Tide Time	1800
I39	16 Sep 2025	Low Tide Time	36
I39	16 Sep 2025	Comments	
I39	23 Sep 2025	Arrive Time	1007
I39	23 Sep 2025	Depart Time	1010
I39	23 Sep 2025	Air Temp (C)	18.4
I39	23 Sep 2025	Visibility (mi)	4
I39	23 Sep 2025	Wind Speed (kts)	0.9
I39	23 Sep 2025	Wind Dir	S
I39	23 Sep 2025	Sea State	Calm
I39	23 Sep 2025	High Tide Time	1024
I39	23 Sep 2025	Low Tide Time	1642
I39	23 Sep 2025	Comments	
I39	29 Sep 2025	Arrive Time	1010
I39	29 Sep 2025	Depart Time	1016
I39	29 Sep 2025	Air Temp (C)	19.2
I39	29 Sep 2025	Visibility (mi)	10
I39	29 Sep 2025	Wind Speed (kts)	3.7
I39	29 Sep 2025	Wind Dir	S
I39	29 Sep 2025	Sea State	Regular Swell
I39	29 Sep 2025	High Tide Time	1348
I39	29 Sep 2025	Low Tide Time	2312
I39	29 Sep 2025	Comments	
I26	02 Sep 2025	Arrive Time	1046
I26	02 Sep 2025	Depart Time	1050
I26	02 Sep 2025	Air Temp (C)	20.9
I26	02 Sep 2025	Visibility (mi)	9
I26	02 Sep 2025	Wind Speed (kts)	12.9
I26	02 Sep 2025	Wind Dir	W
I26	02 Sep 2025	Sea State	Confused Swell
I26	02 Sep 2025	High Tide Time	1806
I26	02 Sep 2025	Low Tide Time	100
I26	02 Sep 2025	Comments	
I26	08 Sep 2025	Arrive Time	1108
I26	08 Sep 2025	Depart Time	1115
I26	08 Sep 2025	Air Temp (C)	21.1
I26	08 Sep 2025	Visibility (mi)	10
I26	08 Sep 2025	Wind Speed (kts)	12.1
I26	08 Sep 2025	Wind Dir	W
I26	08 Sep 2025	Sea State	Calm
I26	08 Sep 2025	High Tide Time	2218
I26	08 Sep 2025	Low Tide Time	400
I26	08 Sep 2025	Comments	frothy seawater
I26	16 Sep 2025	Arrive Time	1132
I26	16 Sep 2025	Depart Time	1137
I26	16 Sep 2025	Air Temp (C)	20.7

Station	Date	Parameter	Value
I26	16 Sep 2025	Visibility (mi)	8
I26	16 Sep 2025	Wind Speed (kts)	5.8
I26	16 Sep 2025	Wind Dir	NW
I26	16 Sep 2025	Sea State	Calm
I26	16 Sep 2025	High Tide Time	1800
I26	16 Sep 2025	Low Tide Time	36
I26	16 Sep 2025	Comments	
I26	23 Sep 2025	Arrive Time	1101
I26	23 Sep 2025	Depart Time	1104
I26	23 Sep 2025	Air Temp (C)	18.6
I26	23 Sep 2025	Visibility (mi)	6
I26	23 Sep 2025	Wind Speed (kts)	1.2
I26	23 Sep 2025	Wind Dir	W
I26	23 Sep 2025	Sea State	Calm
I26	23 Sep 2025	High Tide Time	1024
I26	23 Sep 2025	Low Tide Time	1642
I26	23 Sep 2025	Comments	
I26	29 Sep 2025	Arrive Time	1118
I26	29 Sep 2025	Depart Time	1122
I26	29 Sep 2025	Air Temp (C)	19.5
I26	29 Sep 2025	Visibility (mi)	10
I26	29 Sep 2025	Wind Speed (kts)	1.6
I26	29 Sep 2025	Wind Dir	SW
I26	29 Sep 2025	Sea State	Regular Swell
I26	29 Sep 2025	High Tide Time	1348
I26	29 Sep 2025	Low Tide Time	2312
I26	29 Sep 2025	Comments	
I32	02 Sep 2025	Arrive Time	1059
I32	02 Sep 2025	Depart Time	1103
I32	02 Sep 2025	Air Temp (C)	21
I32	02 Sep 2025	Visibility (mi)	9
I32	02 Sep 2025	Wind Speed (kts)	6.9
I32	02 Sep 2025	Wind Dir	W
I32	02 Sep 2025	Sea State	Confused Swell
I32	02 Sep 2025	High Tide Time	1806
I32	02 Sep 2025	Low Tide Time	100
I32	02 Sep 2025	Comments	
I32	08 Sep 2025	Arrive Time	1121
I32	08 Sep 2025	Depart Time	1127
I32	08 Sep 2025	Air Temp (C)	20.9
I32	08 Sep 2025	Visibility (mi)	10
I32	08 Sep 2025	Wind Speed (kts)	11.4
I32	08 Sep 2025	Wind Dir	W
I32	08 Sep 2025	Sea State	Light Chop
I32	08 Sep 2025	High Tide Time	2218
I32	08 Sep 2025	Low Tide Time	400
I32	08 Sep 2025	Comments	
I32	16 Sep 2025	Arrive Time	1146
I32	16 Sep 2025	Depart Time	1150
I32	16 Sep 2025	Air Temp (C)	21.2
I32	16 Sep 2025	Visibility (mi)	8
I32	16 Sep 2025	Wind Speed (kts)	7.5
I32	16 Sep 2025	Wind Dir	NW
I32	16 Sep 2025	Sea State	Calm
I32	16 Sep 2025	High Tide Time	1800
I32	16 Sep 2025	Low Tide Time	36

Station	Date	Parameter	Value
I32	16 Sep 2025	Comments	
I32	23 Sep 2025	Arrive Time	1111
I32	23 Sep 2025	Depart Time	1114
I32	23 Sep 2025	Air Temp (C)	18.6
I32	23 Sep 2025	Visibility (mi)	6
I32	23 Sep 2025	Wind Speed (kts)	7.4
I32	23 Sep 2025	Wind Dir	W
I32	23 Sep 2025	Sea State	Calm
I32	23 Sep 2025	High Tide Time	1024
I32	23 Sep 2025	Low Tide Time	1642
I32	23 Sep 2025	Comments	
I32	29 Sep 2025	Arrive Time	1129
I32	29 Sep 2025	Depart Time	1138
I32	29 Sep 2025	Air Temp (C)	19.8
I32	29 Sep 2025	Visibility (mi)	10
I32	29 Sep 2025	Wind Speed (kts)	7.4
I32	29 Sep 2025	Wind Dir	SW
I32	29 Sep 2025	Sea State	Regular Swell
I32	29 Sep 2025	High Tide Time	1348
I32	29 Sep 2025	Low Tide Time	2312
I32	29 Sep 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	02 Sep 2025	1	18.85	75.42	8.8	33.27	8.1	23.7	1.79
I19	02 Sep 2025	2	18.26	76.67	8.8	33.26	8.1	23.9	1.75
I19	02 Sep 2025	3	17.09	81.34	9.0	33.28	8.1	24.2	1.70
I19	02 Sep 2025	4	16.97	82.22	9.0	33.27	8.1	24.2	1.91
I19	02 Sep 2025	5	16.85	83.93	8.8	33.27	8.1	24.2	2.13
I19	02 Sep 2025	6	16.38	84.58	8.4	33.24	8.1	24.3	2.38
I19	02 Sep 2025	7	15.43	82.84	7.9	33.24	8.0	24.5	2.16
I19	02 Sep 2025	8	15.28	79.37	7.7	33.23	8.0	24.5	2.31
I19	02 Sep 2025	9	15.26	76.80	7.6	33.23	8.0	24.6	2.38
I19	02 Sep 2025	10	15.24	76.70	7.6	33.23	8.0	24.6	2.30
I19	08 Sep 2025	1	18.58	92.36	8.9	33.35	8.1	23.9	0.29
I19	08 Sep 2025	2	18.55	92.23	8.8	33.34	8.1	23.9	0.28
I19	08 Sep 2025	3	17.73	92.24	9.0	33.30	8.1	24.0	0.30
I19	08 Sep 2025	4	16.78	92.58	9.2	33.32	8.1	24.3	0.32
I19	08 Sep 2025	5	16.34	93.76	9.3	33.32	8.1	24.4	0.44
I19	08 Sep 2025	6	16.10	93.48	9.3	33.32	8.1	24.4	0.42
I19	08 Sep 2025	7	15.97	93.93	9.3	33.31	8.1	24.5	0.42
I19	08 Sep 2025	8	15.92	94.10	9.2	33.31	8.1	24.5	0.55
I19	08 Sep 2025	9	15.88	92.75	9.1	33.31	8.1	24.5	0.77
I19	08 Sep 2025	10	15.80	91.57	9.0	33.31	8.1	24.5	1.13
I19	16 Sep 2025	1	19.54	91.33	8.3	33.32	8.1	23.6	0.55
I19	16 Sep 2025	2	19.43	91.40	8.3	33.31	8.1	23.6	0.53
I19	16 Sep 2025	3	19.06	91.04	8.2	33.30	8.1	23.7	0.64
I19	16 Sep 2025	4	18.38	89.97	8.2	33.29	8.1	23.9	0.92
I19	16 Sep 2025	5	17.30	86.41	8.4	33.27	8.1	24.1	1.05
I19	16 Sep 2025	6	16.53	84.38	8.6	33.29	8.1	24.3	1.28
I19	16 Sep 2025	7	16.12	84.04	8.5	33.28	8.0	24.4	1.66
I19	16 Sep 2025	8	15.78	79.59	8.3	33.28	8.0	24.5	3.30
I19	16 Sep 2025	9	15.63	77.50	8.3	33.28	8.0	24.5	2.68
I19	16 Sep 2025	10	15.44	80.23	8.1	33.28	8.0	24.5	2.53
I19	23 Sep 2025	1	16.04	85.12	7.8	33.27	8.0	24.4	0.66
I19	23 Sep 2025	2	15.48	85.33	7.4	33.27	8.0	24.5	0.74
I19	23 Sep 2025	3	14.93	86.26	7.2	33.29	7.9	24.7	0.94
I19	23 Sep 2025	4	14.81	86.56	7.1	33.29	7.9	24.7	1.34
I19	23 Sep 2025	5	14.71	86.61	7.0	33.29	7.9	24.7	1.55
I19	23 Sep 2025	6	14.64	87.64	6.8	33.30	7.9	24.7	1.35
I19	23 Sep 2025	7	14.61	88.79	6.7	33.31	7.9	24.8	1.36
I19	23 Sep 2025	8	14.59	89.24	6.7	33.31	7.9	24.8	1.42
I19	23 Sep 2025	9	14.56	88.33	6.6	33.31	7.9	24.8	1.35
I19	23 Sep 2025	10	14.49	87.15	6.5	33.31	7.9	24.8	1.20
I19	29 Sep 2025	1	18.50	87.52	8.8	33.25	8.1	23.8	1.16
I19	29 Sep 2025	2	18.05	87.58	8.6	33.24	8.1	23.9	1.16
I19	29 Sep 2025	3	17.73	85.11	8.4	33.23	8.0	24.0	1.37
I19	29 Sep 2025	4	17.68	79.65	8.4	33.23	8.0	24.0	1.65
I19	29 Sep 2025	5	17.63	77.73	8.3	33.22	8.0	24.0	1.94
I19	29 Sep 2025	6	17.57	76.45	8.3	33.22	8.0	24.0	2.01
I19	29 Sep 2025	7	17.44	73.73	8.2	33.22	8.0	24.0	2.10
I19	29 Sep 2025	8	17.28	70.55	8.1	33.22	8.0	24.1	1.85
I19	29 Sep 2025	9	17.22	70.76	8.1	33.23	8.0	24.1	1.65
I19	29 Sep 2025	10	17.19	69.28	8.1	33.23	8.0	24.1	1.59
I40	02 Sep 2025	1	18.77	72.74	8.5	33.25	8.1	23.7	1.82
I40	02 Sep 2025	2	18.80	73.07	8.4	33.25	8.1	23.7	1.80
I40	02 Sep 2025	3	18.07	72.71	8.6	33.22	8.1	23.9	1.93
I40	02 Sep 2025	4	16.97	76.65	8.8	33.28	8.1	24.2	1.64
I40	02 Sep 2025	5	16.69	81.31	8.4	33.25	8.1	24.2	1.71
I40	02 Sep 2025	6	16.16	84.96	7.9	33.24	8.1	24.4	1.62
I40	02 Sep 2025	7	15.65	85.21	7.7	33.24	8.0	24.5	1.42
I40	02 Sep 2025	8	15.45	76.76	7.5	33.23	8.0	24.5	1.44
I40	02 Sep 2025	9	15.42	72.30	7.4	33.23	8.0	24.5	1.70
I40	02 Sep 2025	10	15.50	69.47	7.4	33.23	8.0	24.5	1.87
I40	08 Sep 2025	1	17.48	91.49	9.2	33.34	8.1	24.1	0.47
I40	08 Sep 2025	2	17.30	92.01	9.1	33.33	8.1	24.2	0.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I40	08 Sep 2025	3	16.36	92.73	9.0	33.32	8.1	24.4	0.50
I40	08 Sep 2025	4	16.15	90.39	8.8	33.31	8.1	24.4	0.90
I40	08 Sep 2025	5	16.01	84.65	8.6	33.31	8.1	24.4	1.47
I40	08 Sep 2025	6	15.90	79.40	8.5	33.30	8.0	24.5	2.13
I40	08 Sep 2025	7	15.77	75.07	8.4	33.30	8.0	24.5	2.50
I40	08 Sep 2025	8	15.69	73.39	8.4	33.30	8.0	24.5	3.07
I40	08 Sep 2025	9	15.66	72.90	8.4	33.30	8.0	24.5	3.47
I40	08 Sep 2025	10	15.66	72.80	8.4	33.30	8.0	24.5	3.51
I40	16 Sep 2025	1	18.99	89.72	8.4	33.29	8.1	23.7	0.55
I40	16 Sep 2025	2	18.86	89.80	8.3	33.30	8.1	23.8	0.58
I40	16 Sep 2025	3	18.11	89.54	8.3	33.26	8.1	23.9	0.69
I40	16 Sep 2025	4	17.29	89.00	8.4	33.29	8.1	24.1	1.03
I40	16 Sep 2025	5	16.92	87.02	8.5	33.28	8.1	24.2	1.31
I40	16 Sep 2025	6	16.64	85.80	8.4	33.27	8.1	24.3	1.53
I40	16 Sep 2025	7	16.08	84.37	8.0	33.28	8.0	24.4	1.96
I40	16 Sep 2025	8	15.94	80.87	7.7	33.28	8.0	24.4	2.48
I40	16 Sep 2025	9	15.78	78.45	7.2	33.28	8.0	24.5	2.66
I40	16 Sep 2025	10	15.69	69.51	6.9	33.29	7.9	24.5	2.61
I40	23 Sep 2025	1	16.07	81.22	7.7	33.26	8.0	24.4	0.84
I40	23 Sep 2025	2	15.82	81.14	7.5	33.26	8.0	24.4	0.84
I40	23 Sep 2025	3	15.14	81.76	7.2	33.30	7.9	24.6	0.84
I40	23 Sep 2025	4	15.05	84.56	7.1	33.29	7.9	24.6	0.92
I40	23 Sep 2025	5	14.92	86.27	7.0	33.29	7.9	24.7	1.09
I40	23 Sep 2025	6	14.83	86.84	7.0	33.29	7.9	24.7	1.32
I40	23 Sep 2025	7	14.69	87.27	6.8	33.30	7.9	24.7	1.50
I40	23 Sep 2025	8	14.65	87.86	6.7	33.30	7.9	24.7	1.24
I40	23 Sep 2025	9	14.63	87.14	6.6	33.30	7.9	24.7	1.28
I40	23 Sep 2025	10	14.62	86.80	6.6	33.30	7.9	24.7	1.36
I40	29 Sep 2025	1	17.88	77.15	8.5	33.20	8.0	23.9	1.87
I40	29 Sep 2025	2	17.75	77.31	8.4	33.20	8.0	24.0	2.17
I40	29 Sep 2025	3	17.63	77.49	8.3	33.20	8.0	24.0	2.23
I40	29 Sep 2025	4	17.54	77.93	8.2	33.21	8.0	24.0	2.18
I40	29 Sep 2025	5	17.39	77.17	8.1	33.22	8.0	24.1	1.93
I40	29 Sep 2025	6	17.36	76.29	8.1	33.22	8.0	24.1	1.83
I40	29 Sep 2025	7	17.35	76.21	8.1	33.22	8.0	24.1	1.87
I40	29 Sep 2025	8	17.31	76.16	8.1	33.22	8.0	24.1	1.79
I40	29 Sep 2025	9	17.22	73.98	8.2	33.23	8.0	24.1	1.87
I40	29 Sep 2025	10	17.20	69.85	8.1	33.23	8.0	24.1	1.97
I24	02 Sep 2025	1	19.66	74.28	9.0	33.31	8.2	23.6	1.89
I24	02 Sep 2025	2	19.41	72.35	8.9	33.30	8.2	23.6	1.98
I24	02 Sep 2025	3	19.11	73.66	8.6	33.28	8.1	23.7	2.61
I24	02 Sep 2025	4	17.74	71.35	8.4	33.27	8.1	24.0	2.95
I24	02 Sep 2025	5	17.02	69.63	8.3	33.27	8.1	24.2	2.79
I24	02 Sep 2025	6	16.70	70.48	7.8	33.27	8.0	24.3	2.23
I24	02 Sep 2025	7	16.55	76.94	7.5	33.27	8.0	24.3	2.26
I24	02 Sep 2025	8	15.76	78.48	7.5	33.22	8.0	24.4	1.94
I24	02 Sep 2025	9	15.35	82.25	7.4	33.24	8.0	24.5	1.24
I24	02 Sep 2025	10	15.42	77.62	7.3	33.23	8.0	24.5	1.12
I24	02 Sep 2025	11	15.43	72.61	7.2	33.24	8.0	24.5	1.17
I24	08 Sep 2025	1	19.98	92.72	8.5	33.33	8.1	23.5	0.29
I24	08 Sep 2025	2	19.53	92.83	8.5	33.31	8.1	23.6	0.28
I24	08 Sep 2025	3	18.51	92.98	8.9	33.35	8.1	23.9	0.27
I24	08 Sep 2025	4	17.45	93.40	9.1	33.31	8.1	24.1	0.27
I24	08 Sep 2025	5	15.88	93.86	9.2	33.30	8.1	24.5	0.28
I24	08 Sep 2025	6	15.62	92.93	8.9	33.30	8.1	24.5	0.45
I24	08 Sep 2025	7	15.53	90.30	8.9	33.29	8.1	24.5	0.61
I24	08 Sep 2025	8	15.47	87.55	8.9	33.28	8.1	24.5	0.98
I24	08 Sep 2025	9	15.43	83.89	8.4	33.28	8.1	24.6	1.79
I24	08 Sep 2025	10	15.42	81.04	8.4	33.29	8.1	24.6	2.46
I24	08 Sep 2025	11	15.44	81.27	8.4	33.29	8.1	24.6	2.76
I24	16 Sep 2025	1	19.31	92.13	8.3	33.33	8.1	23.7	0.40
I24	16 Sep 2025	2	18.62	93.27	8.4	33.33	8.1	23.8	0.36
I24	16 Sep 2025	3	18.04	95.12	8.7	33.33	8.1	24.0	0.26
I24	16 Sep 2025	4	17.73	95.90	8.4	33.31	8.1	24.0	0.30
I24	16 Sep 2025	5	16.76	93.51	8.2	33.29	8.0	24.3	0.51
I24	16 Sep 2025	6	16.28	89.06	8.1	33.29	8.0	24.4	1.07
I24	16 Sep 2025	7	16.04	84.57	8.0	33.28	8.0	24.4	1.75
I24	16 Sep 2025	8	15.80	79.26	7.8	33.28	8.0	24.5	2.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I24	16 Sep 2025	9	15.65	76.44	7.5	33.28	8.0	24.5	3.30
I24	16 Sep 2025	10	15.68	80.12	7.4	33.29	8.0	24.5	2.33
I24	23 Sep 2025	1	16.72	87.95	8.0	33.25	8.0	24.2	0.57
I24	23 Sep 2025	2	16.23	87.94	8.0	33.26	8.0	24.4	0.58
I24	23 Sep 2025	3	15.86	86.60	7.8	33.28	8.0	24.5	0.78
I24	23 Sep 2025	4	15.76	86.76	7.6	33.28	8.0	24.5	1.03
I24	23 Sep 2025	5	15.51	86.21	7.4	33.27	8.0	24.5	1.19
I24	23 Sep 2025	6	15.03	85.80	7.0	33.28	7.9	24.6	1.87
I24	23 Sep 2025	7	14.80	84.97	6.7	33.29	7.9	24.7	2.54
I24	23 Sep 2025	8	14.70	85.22	6.7	33.28	7.9	24.7	2.39
I24	23 Sep 2025	9	14.66	86.83	6.7	33.29	7.9	24.7	2.00
I24	23 Sep 2025	10	14.69	88.19	6.6	33.29	7.9	24.7	1.70
I24	29 Sep 2025	1	18.05	83.04	6.9	33.33	8.1	24.0	0.98
I24	29 Sep 2025	2	17.85	82.82	7.7	33.40	8.1	24.1	1.22
I24	29 Sep 2025	3	17.53	81.92	8.1	33.39	8.0	24.2	1.26
I24	29 Sep 2025	4	17.41	82.08	8.1	33.34	8.0	24.1	1.52
I24	29 Sep 2025	5	17.30	82.35	8.2	33.31	8.0	24.1	1.56
I24	29 Sep 2025	6	17.11	81.34	8.2	33.30	8.0	24.2	1.62
I24	29 Sep 2025	7	16.98	79.36	8.1	33.29	8.0	24.2	1.71
I24	29 Sep 2025	8	16.85	76.32	8.0	33.28	8.0	24.2	1.77
I24	29 Sep 2025	9	16.79	66.32	7.9	33.26	8.0	24.2	1.80
I24	29 Sep 2025	10	16.79	54.27	7.5	33.27	8.0	24.2	1.82
I25	02 Sep 2025	1	19.71	74.64	9.2	33.32	8.2	23.6	2.07
I25	02 Sep 2025	2	19.82	75.43	9.1	33.32	8.2	23.5	2.08
I25	02 Sep 2025	3	19.15	75.66	9.2	33.30	8.2	23.7	2.53
I25	02 Sep 2025	4	18.15	72.88	8.8	33.27	8.2	23.9	2.79
I25	02 Sep 2025	5	16.60	70.59	8.1	33.28	8.1	24.3	3.45
I25	02 Sep 2025	6	16.66	79.08	7.9	33.26	8.0	24.3	2.68
I25	02 Sep 2025	7	16.43	82.76	7.7	33.27	8.0	24.3	1.98
I25	02 Sep 2025	8	16.43	82.82	7.7	33.27	8.0	24.3	1.75
I25	02 Sep 2025	9	16.47	82.64	7.6	33.28	8.0	24.3	1.71
I25	08 Sep 2025	1	20.57	93.92	8.6	33.35	8.1	23.4	0.32
I25	08 Sep 2025	2	20.50	94.02	8.6	33.34	8.1	23.4	0.32
I25	08 Sep 2025	3	20.27	93.88	8.5	33.34	8.1	23.4	0.36
I25	08 Sep 2025	4	19.50	93.63	8.6	33.33	8.1	23.6	0.38
I25	08 Sep 2025	5	18.47	93.26	8.8	33.34	8.1	23.9	0.36
I25	08 Sep 2025	6	16.75	93.21	9.2	33.35	8.1	24.3	0.33
I25	08 Sep 2025	7	15.86	92.45	9.1	33.30	8.1	24.5	0.38
I25	08 Sep 2025	8	15.55	87.12	8.6	33.29	8.1	24.5	0.98
I25	08 Sep 2025	9	15.80	84.15	8.6	33.29	8.1	24.5	1.45
I25	16 Sep 2025	1	19.35	93.70	8.3	33.34	8.1	23.7	0.33
I25	16 Sep 2025	2	19.48	93.07	8.2	33.34	8.1	23.6	0.33
I25	16 Sep 2025	3	18.75	93.25	8.4	33.32	8.1	23.8	0.31
I25	16 Sep 2025	4	17.98	94.38	8.7	33.35	8.1	24.0	0.20
I25	16 Sep 2025	5	17.74	95.60	8.7	33.32	8.1	24.1	0.18
I25	16 Sep 2025	6	17.14	96.54	8.6	33.31	8.1	24.2	0.22
I25	16 Sep 2025	7	16.84	95.59	8.5	33.30	8.1	24.2	0.39
I25	16 Sep 2025	8	16.25	92.37	7.9	33.29	8.0	24.4	0.75
I25	16 Sep 2025	9	16.19	86.92	7.5	33.29	8.0	24.4	0.99
I25	23 Sep 2025	1	16.10	85.07	8.1	33.28	8.0	24.4	0.88
I25	23 Sep 2025	2	15.78	85.18	7.9	33.27	8.0	24.5	0.90
I25	23 Sep 2025	3	15.15	84.29	7.6	33.27	8.0	24.6	1.31
I25	23 Sep 2025	4	14.83	80.02	7.2	33.30	7.9	24.7	2.03
I25	23 Sep 2025	5	14.71	82.16	7.0	33.29	7.9	24.7	1.85
I25	23 Sep 2025	6	14.65	84.49	6.9	33.29	7.9	24.7	1.56
I25	23 Sep 2025	7	14.51	87.17	6.8	33.29	7.9	24.8	1.34
I25	23 Sep 2025	8	14.50	89.35	6.8	33.29	7.9	24.8	1.22
I25	23 Sep 2025	9	14.50	90.23	6.7	33.29	7.9	24.8	1.23
I25	29 Sep 2025	1	17.62	83.11	8.5	33.23	8.1	24.0	1.07
I25	29 Sep 2025	2	17.91	86.00	8.6	33.23	8.1	23.9	1.03
I25	29 Sep 2025	3	17.68	85.67	8.4	33.23	8.1	24.0	0.97
I25	29 Sep 2025	4	17.20	83.47	8.3	33.24	8.0	24.1	1.32
I25	29 Sep 2025	5	17.19	79.69	8.2	33.23	8.0	24.1	1.50
I25	29 Sep 2025	6	17.03	76.85	8.2	33.24	8.0	24.2	1.59
I25	29 Sep 2025	7	16.94	75.90	8.2	33.24	8.0	24.2	1.78
I25	29 Sep 2025	8	16.93	72.99	8.3	33.24	8.0	24.2	1.76
I25	29 Sep 2025	9	16.94	71.67	8.1	33.24	8.0	24.2	1.69

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	02 Sep 2025	1	19.76	86.74	9.2	33.38	8.2	23.6	0.71
I39	02 Sep 2025	2	19.72	87.04	9.2	33.38	8.2	23.6	0.71
I39	02 Sep 2025	3	18.56	86.70	9.2	33.32	8.2	23.8	0.93
I39	02 Sep 2025	4	17.11	85.92	9.3	33.30	8.1	24.2	1.14
I39	02 Sep 2025	5	16.43	85.75	8.9	33.27	8.1	24.3	1.39
I39	02 Sep 2025	6	16.13	85.00	8.4	33.27	8.1	24.4	1.95
I39	02 Sep 2025	7	16.08	84.92	8.2	33.26	8.0	24.4	2.58
I39	02 Sep 2025	8	15.98	84.75	8.2	33.26	8.0	24.4	2.69
I39	02 Sep 2025	9	15.90	85.08	8.0	33.25	8.0	24.4	3.03
I39	02 Sep 2025	10	15.76	84.97	7.9	33.26	8.0	24.5	3.24
I39	02 Sep 2025	11	15.73	85.24	7.7	33.27	8.0	24.5	3.33
I39	02 Sep 2025	12	15.71	86.12	7.6	33.27	8.0	24.5	3.24
I39	02 Sep 2025	13	15.68	86.46	7.5	33.27	8.0	24.5	2.95
I39	02 Sep 2025	14	15.60	86.66	7.4	33.27	8.0	24.5	2.65
I39	02 Sep 2025	15	15.53	86.63	7.3	33.27	8.0	24.5	2.05
I39	02 Sep 2025	16	14.91	86.10	7.0	33.27	8.0	24.7	1.82
I39	02 Sep 2025	17	14.43	84.20	7.0	33.27	7.9	24.8	1.10
I39	02 Sep 2025	18	14.25	85.90	6.9	33.29	7.9	24.8	0.63
I39	08 Sep 2025	1	20.95	97.45	8.5	33.43	8.1	23.3	0.16
I39	08 Sep 2025	2	20.88	97.38	8.5	33.42	8.1	23.3	0.15
I39	08 Sep 2025	3	20.39	97.33	8.5	33.41	8.1	23.4	0.15
I39	08 Sep 2025	4	19.66	97.14	8.7	33.38	8.1	23.6	0.15
I39	08 Sep 2025	5	19.30	96.99	8.9	33.39	8.1	23.7	0.16
I39	08 Sep 2025	6	19.21	97.12	9.0	33.38	8.1	23.7	0.19
I39	08 Sep 2025	7	19.12	97.00	9.1	33.38	8.1	23.8	0.21
I39	08 Sep 2025	8	18.99	97.13	9.2	33.38	8.1	23.8	0.23
I39	08 Sep 2025	9	18.82	97.16	9.2	33.37	8.1	23.8	0.25
I39	08 Sep 2025	10	18.60	97.11	9.2	33.36	8.1	23.9	0.27
I39	08 Sep 2025	11	18.34	97.06	9.3	33.36	8.1	23.9	0.30
I39	08 Sep 2025	12	18.13	97.01	9.3	33.35	8.1	24.0	0.35
I39	08 Sep 2025	13	17.86	96.68	9.1	33.33	8.1	24.0	0.41
I39	08 Sep 2025	14	17.04	96.07	9.0	33.30	8.1	24.2	0.49
I39	08 Sep 2025	15	15.95	95.10	8.9	33.32	8.1	24.5	0.81
I39	08 Sep 2025	16	15.41	93.30	8.7	33.31	8.1	24.6	1.20
I39	08 Sep 2025	17	15.28	89.87	8.6	33.30	8.1	24.6	1.47
I39	08 Sep 2025	18	15.26	88.14	8.6	33.30	8.1	24.6	1.67
I39	16 Sep 2025	1	18.54	96.80	8.7	33.34	8.1	23.9	0.17
I39	16 Sep 2025	2	18.50	97.07	8.6	33.34	8.1	23.9	0.16
I39	16 Sep 2025	3	18.01	97.09	8.8	33.34	8.1	24.0	0.17
I39	16 Sep 2025	4	17.71	96.58	8.9	33.33	8.1	24.1	0.21
I39	16 Sep 2025	5	17.11	96.19	9.0	33.30	8.1	24.2	0.24
I39	16 Sep 2025	6	16.85	95.54	9.2	33.30	8.1	24.2	0.32
I39	16 Sep 2025	7	16.55	94.80	9.2	33.28	8.1	24.3	0.38
I39	16 Sep 2025	8	16.18	93.28	9.2	33.28	8.1	24.4	0.65
I39	16 Sep 2025	9	15.82	90.25	8.9	33.28	8.1	24.5	1.07
I39	16 Sep 2025	10	15.18	86.75	8.1	33.30	8.0	24.6	1.55
I39	16 Sep 2025	11	14.97	85.15	7.7	33.31	8.0	24.7	2.20
I39	16 Sep 2025	12	14.65	84.25	7.5	33.30	8.0	24.7	2.88
I39	16 Sep 2025	13	14.56	85.20	7.4	33.30	8.0	24.8	3.06
I39	16 Sep 2025	14	14.55	85.88	7.3	33.30	7.9	24.8	2.96
I39	16 Sep 2025	15	14.54	86.42	7.2	33.30	7.9	24.8	2.85
I39	16 Sep 2025	16	14.55	86.51	7.2	33.30	7.9	24.8	2.77
I39	16 Sep 2025	17	14.54	86.49	7.2	33.30	7.9	24.8	2.76
I39	16 Sep 2025	18	14.54	86.28	7.2	33.30	7.9	24.8	2.72
I39	23 Sep 2025	1	16.97	90.33	8.4	33.28	8.0	24.2	0.72
I39	23 Sep 2025	2	16.77	90.29	8.4	33.29	8.0	24.3	0.71
I39	23 Sep 2025	3	16.57	89.37	8.4	33.29	8.0	24.3	0.84
I39	23 Sep 2025	4	16.35	89.17	8.5	33.28	8.0	24.3	0.88
I39	23 Sep 2025	5	16.21	90.20	8.6	33.29	8.0	24.4	0.97
I39	23 Sep 2025	6	16.16	90.99	8.6	33.29	8.0	24.4	1.14
I39	23 Sep 2025	7	16.04	91.14	8.5	33.29	8.0	24.4	1.46
I39	23 Sep 2025	8	15.98	91.08	8.5	33.29	8.0	24.4	1.75
I39	23 Sep 2025	9	15.97	90.56	8.5	33.29	8.0	24.4	1.93
I39	23 Sep 2025	10	15.94	90.36	8.4	33.29	8.0	24.4	2.05
I39	23 Sep 2025	11	15.90	90.45	8.4	33.29	8.0	24.5	2.19
I39	23 Sep 2025	12	15.79	90.44	8.3	33.29	8.0	24.5	2.23
I39	23 Sep 2025	13	15.64	90.25	8.2	33.29	8.0	24.5	2.35
I39	23 Sep 2025	14	15.48	89.75	8.0	33.29	8.0	24.6	2.32
I39	23 Sep 2025	15	15.28	89.60	7.8	33.29	8.0	24.6	2.36
I39	23 Sep 2025	16	15.00	89.64	7.6	33.30	8.0	24.7	2.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	23 Sep 2025	17	14.58	89.66	7.2	33.30	7.9	24.8	2.24
I39	23 Sep 2025	18	14.20	90.24	6.8	33.33	7.9	24.9	1.30
I39	29 Sep 2025	1	17.91	87.46	9.2	33.20	8.1	23.9	1.67
I39	29 Sep 2025	2	17.28	87.71	9.3	33.24	8.1	24.1	1.61
I39	29 Sep 2025	3	16.74	87.70	9.1	33.26	8.1	24.2	1.60
I39	29 Sep 2025	4	16.67	86.83	8.7	33.25	8.0	24.2	1.80
I39	29 Sep 2025	5	16.65	85.95	8.6	33.25	8.0	24.3	2.01
I39	29 Sep 2025	6	16.61	85.17	8.5	33.25	8.0	24.3	2.14
I39	29 Sep 2025	7	16.57	84.58	8.3	33.25	8.0	24.3	2.18
I39	29 Sep 2025	8	16.51	83.58	8.2	33.25	8.0	24.3	2.23
I39	29 Sep 2025	9	16.41	82.23	8.1	33.25	8.0	24.3	2.22
I39	29 Sep 2025	10	16.24	80.64	8.0	33.26	8.0	24.4	2.22
I39	29 Sep 2025	11	15.98	80.34	8.1	33.27	8.0	24.4	2.18
I39	29 Sep 2025	12	15.78	80.92	8.1	33.27	8.0	24.5	2.33
I39	29 Sep 2025	13	15.75	82.11	8.1	33.27	8.0	24.5	2.37
I39	29 Sep 2025	14	15.71	82.38	7.9	33.27	8.0	24.5	2.32
I39	29 Sep 2025	15	15.62	81.19	7.8	33.27	8.0	24.5	2.26
I39	29 Sep 2025	16	15.59	79.27	7.7	33.27	8.0	24.5	2.21
I39	29 Sep 2025	17	15.52	78.39	7.6	33.27	8.0	24.5	2.17
I39	29 Sep 2025	18	15.17	77.97	7.4	33.28	7.9	24.6	2.13
I26	02 Sep 2025	1	20.10	77.16	9.2	33.33	8.2	23.5	1.42
I26	02 Sep 2025	2	19.86	77.13	9.1	33.31	8.2	23.5	1.55
I26	02 Sep 2025	3	18.45	75.10	9.1	33.27	8.2	23.8	2.02
I26	02 Sep 2025	4	17.13	72.42	8.8	33.30	8.1	24.2	2.78
I26	02 Sep 2025	5	16.71	79.20	8.2	33.27	8.1	24.3	2.71
I26	02 Sep 2025	6	16.16	79.34	7.8	33.27	8.0	24.4	2.94
I26	02 Sep 2025	7	16.18	80.55	7.6	33.27	8.0	24.4	2.56
I26	02 Sep 2025	8	16.14	82.20	7.7	33.27	8.0	24.4	2.62
I26	02 Sep 2025	9	16.13	82.34	7.5	33.27	8.0	24.4	2.32
I26	08 Sep 2025	1	20.11	88.75	8.4	33.30	8.1	23.4	0.57
I26	08 Sep 2025	2	19.98	88.79	8.3	33.27	8.1	23.5	0.57
I26	08 Sep 2025	3	19.06	88.49	8.6	33.31	8.1	23.7	0.58
I26	08 Sep 2025	4	18.58	86.95	8.8	33.34	8.1	23.9	0.48
I26	08 Sep 2025	5	17.92	89.15	8.9	33.31	8.1	24.0	0.50
I26	08 Sep 2025	6	16.78	91.84	8.8	33.32	8.1	24.3	0.65
I26	08 Sep 2025	7	16.53	91.14	8.6	33.30	8.1	24.3	0.89
I26	08 Sep 2025	8	16.44	87.90	8.6	33.30	8.1	24.3	0.97
I26	08 Sep 2025	9	16.41	86.96	8.4	33.29	8.1	24.3	1.09
I26	16 Sep 2025	1	19.40	92.68	8.3	33.34	8.1	23.7	0.34
I26	16 Sep 2025	2	19.42	92.33	8.1	33.33	8.1	23.6	0.35
I26	16 Sep 2025	3	18.07	92.46	8.6	33.35	8.1	24.0	0.28
I26	16 Sep 2025	4	17.65	94.21	8.8	33.34	8.1	24.1	0.21
I26	16 Sep 2025	5	17.35	96.05	8.8	33.32	8.1	24.1	0.20
I26	16 Sep 2025	6	17.05	96.27	8.8	33.30	8.1	24.2	0.22
I26	16 Sep 2025	7	16.72	95.59	8.9	33.30	8.1	24.3	0.30
I26	16 Sep 2025	8	16.58	93.99	8.6	33.29	8.1	24.3	0.40
I26	16 Sep 2025	9	15.73	90.34	8.2	33.30	8.0	24.5	0.61
I26	23 Sep 2025	1	16.11	85.19	8.7	33.28	8.0	24.4	0.83
I26	23 Sep 2025	2	15.50	84.76	8.4	33.28	8.0	24.5	1.00
I26	23 Sep 2025	3	15.05	83.24	7.8	33.28	8.0	24.6	1.93
I26	23 Sep 2025	4	14.64	78.34	7.4	33.30	7.9	24.7	2.91
I26	23 Sep 2025	5	14.50	79.31	7.1	33.30	7.9	24.8	1.64
I26	23 Sep 2025	6	14.48	87.13	6.9	33.30	7.9	24.8	1.14
I26	23 Sep 2025	7	14.47	89.97	6.9	33.30	7.9	24.8	1.15
I26	23 Sep 2025	8	14.47	90.53	6.9	33.30	7.9	24.8	1.19
I26	23 Sep 2025	9	14.46	90.69	6.9	33.30	7.9	24.8	1.26
I26	29 Sep 2025	1	17.74	83.68	8.4	33.21	8.0	24.0	0.89
I26	29 Sep 2025	2	17.49	83.06	8.4	33.22	8.0	24.0	0.88
I26	29 Sep 2025	3	17.38	79.03	8.3	33.22	8.0	24.1	1.24
I26	29 Sep 2025	4	17.36	75.07	8.3	33.22	8.0	24.1	1.67
I26	29 Sep 2025	5	17.33	73.17	8.3	33.22	8.0	24.1	2.06
I26	29 Sep 2025	6	17.30	69.16	8.2	33.22	8.0	24.1	2.36
I26	29 Sep 2025	7	17.29	67.32	8.2	33.22	8.0	24.1	2.41
I26	29 Sep 2025	8	17.23	64.48	8.1	33.23	8.0	24.1	2.23
I26	29 Sep 2025	9	17.12	62.40	7.8	33.24	8.0	24.1	2.16
I32	02 Sep 2025	1	19.53	67.61	8.6	33.28	8.1	23.6	2.27
I32	02 Sep 2025	2	19.47	67.48	8.4	33.27	8.1	23.6	2.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I32	02 Sep 2025	3	18.18	66.81	8.3	33.26	8.1	23.9	3.81
I32	02 Sep 2025	4	17.30	62.55	8.2	33.29	8.1	24.1	5.27
I32	02 Sep 2025	5	16.62	66.26	7.3	33.31	8.0	24.3	5.58
I32	02 Sep 2025	6	16.33	68.39	6.8	33.31	8.0	24.4	3.70
I32	02 Sep 2025	7	16.31	71.00	6.8	33.30	8.0	24.4	3.48
I32	02 Sep 2025	8	16.16	71.68	6.7	33.31	8.0	24.4	2.89
I32	02 Sep 2025	9	16.16	71.76	6.7	33.31	8.0	24.4	2.39
I32	02 Sep 2025	10	16.17	71.55	6.7	33.31	8.0	24.4	2.31
I32	08 Sep 2025	1	19.36	86.80	8.5	33.32	8.1	23.6	0.37
I32	08 Sep 2025	2	18.96	85.35	8.4	33.31	8.1	23.7	0.39
I32	08 Sep 2025	3	18.11	84.96	8.7	33.30	8.1	23.9	0.49
I32	08 Sep 2025	4	17.16	85.70	9.1	33.33	8.1	24.2	0.56
I32	08 Sep 2025	5	16.72	87.87	9.2	33.32	8.1	24.3	0.54
I32	08 Sep 2025	6	16.47	91.20	9.1	33.31	8.1	24.3	0.66
I32	08 Sep 2025	7	16.40	90.98	9.0	33.31	8.1	24.4	0.96
I32	08 Sep 2025	8	16.37	89.34	8.8	33.30	8.1	24.4	1.28
I32	08 Sep 2025	9	16.34	87.71	8.7	33.30	8.1	24.4	1.59
I32	08 Sep 2025	10	16.31	86.83	8.7	33.30	8.1	24.4	1.96
I32	16 Sep 2025	1	19.47	83.61	8.1	33.32	8.1	23.6	0.70
I32	16 Sep 2025	2	19.40	83.50	8.1	33.32	8.1	23.6	0.75
I32	16 Sep 2025	3	19.33	83.01	7.9	33.32	8.1	23.7	1.00
I32	16 Sep 2025	4	18.62	81.27	8.0	33.30	8.1	23.8	1.17
I32	16 Sep 2025	5	17.68	79.70	8.3	33.32	8.1	24.1	1.30
I32	16 Sep 2025	6	17.41	84.53	8.4	33.30	8.1	24.1	1.06
I32	16 Sep 2025	7	16.92	86.72	8.3	33.30	8.1	24.2	1.20
I32	16 Sep 2025	8	16.66	84.58	8.2	33.29	8.0	24.3	1.82
I32	16 Sep 2025	9	16.46	80.64	8.2	33.29	8.0	24.3	2.76
I32	16 Sep 2025	10	16.35	78.27	8.1	33.29	8.0	24.4	2.89
I32	23 Sep 2025	1	16.65	78.72	8.2	33.25	8.0	24.3	1.14
I32	23 Sep 2025	2	16.13	79.39	8.1	33.27	8.0	24.4	1.53
I32	23 Sep 2025	3	16.03	79.68	7.8	33.26	8.0	24.4	1.88
I32	23 Sep 2025	4	15.10	79.32	7.5	33.26	8.0	24.6	2.32
I32	23 Sep 2025	5	14.76	78.07	7.1	33.28	7.9	24.7	4.24
I32	23 Sep 2025	6	14.70	76.77	6.9	33.28	7.9	24.7	3.70
I32	23 Sep 2025	7	14.67	82.92	6.8	33.28	7.9	24.7	2.68
I32	23 Sep 2025	8	14.66	86.63	6.8	33.28	7.9	24.7	2.25
I32	23 Sep 2025	9	14.66	87.84	6.8	33.28	7.9	24.7	2.00
I32	23 Sep 2025	10	14.66	87.92	6.7	33.28	7.9	24.7	1.89
I32	29 Sep 2025	1	18.23	74.79	8.5	33.23	8.1	23.9	1.65
I32	29 Sep 2025	2	18.39	76.26	8.4	33.23	8.1	23.8	1.23
I32	29 Sep 2025	3	18.13	76.62	8.4	33.23	8.1	23.9	1.66
I32	29 Sep 2025	4	17.91	74.31	8.3	33.23	8.0	23.9	2.44
I32	29 Sep 2025	5	17.63	73.59	8.4	33.26	8.0	24.0	2.98
I32	29 Sep 2025	6	17.43	77.96	8.6	33.26	8.1	24.1	3.08
I32	29 Sep 2025	7	17.16	82.97	8.6	33.26	8.1	24.1	2.72
I32	29 Sep 2025	8	17.07	85.77	8.5	33.26	8.0	24.2	2.49
I32	29 Sep 2025	9	17.03	85.53	8.5	33.26	8.0	24.2	2.63
I32	29 Sep 2025	10	16.96	80.33	8.5	33.26	8.0	24.2	2.69

NA = not available

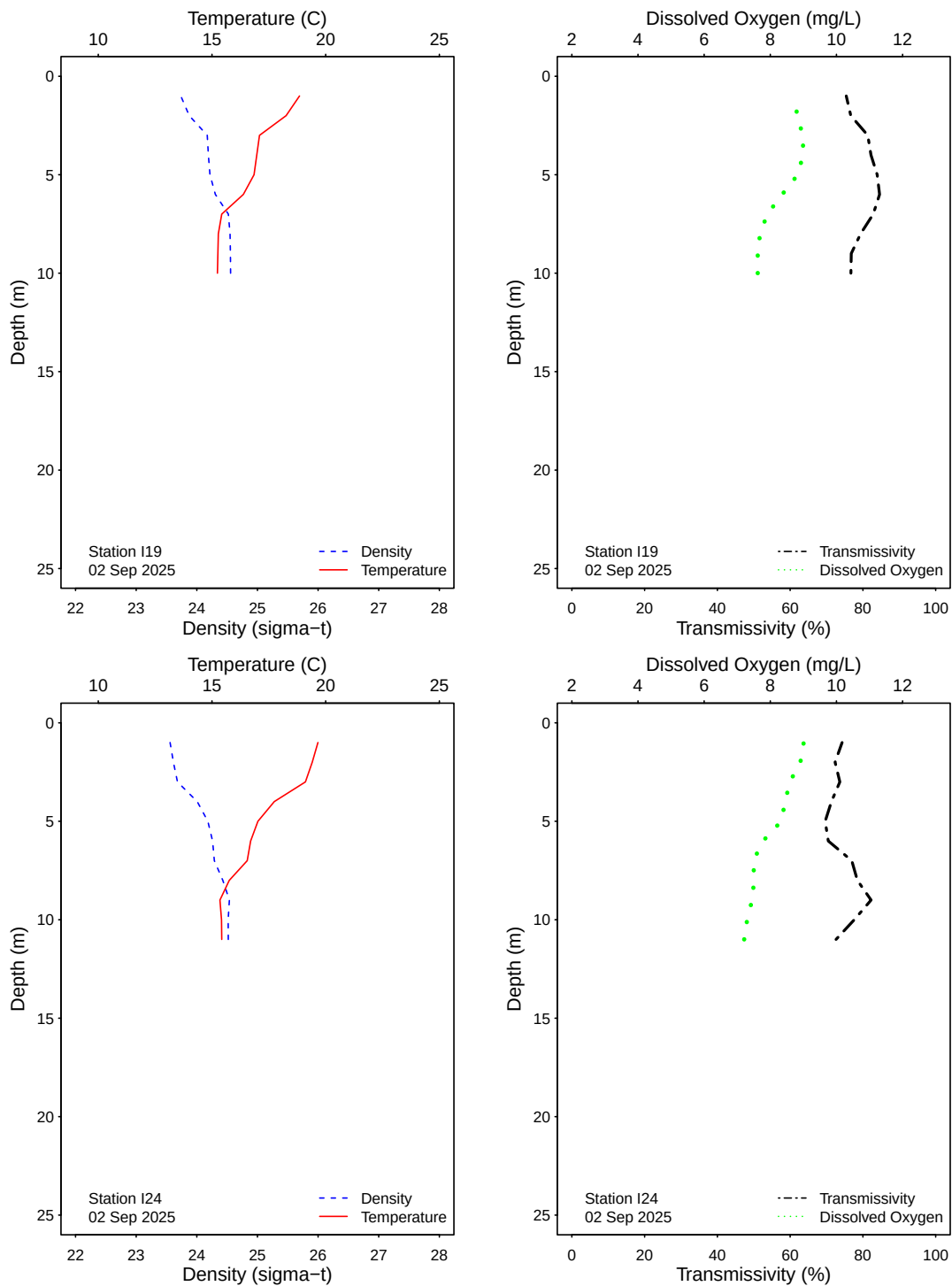


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

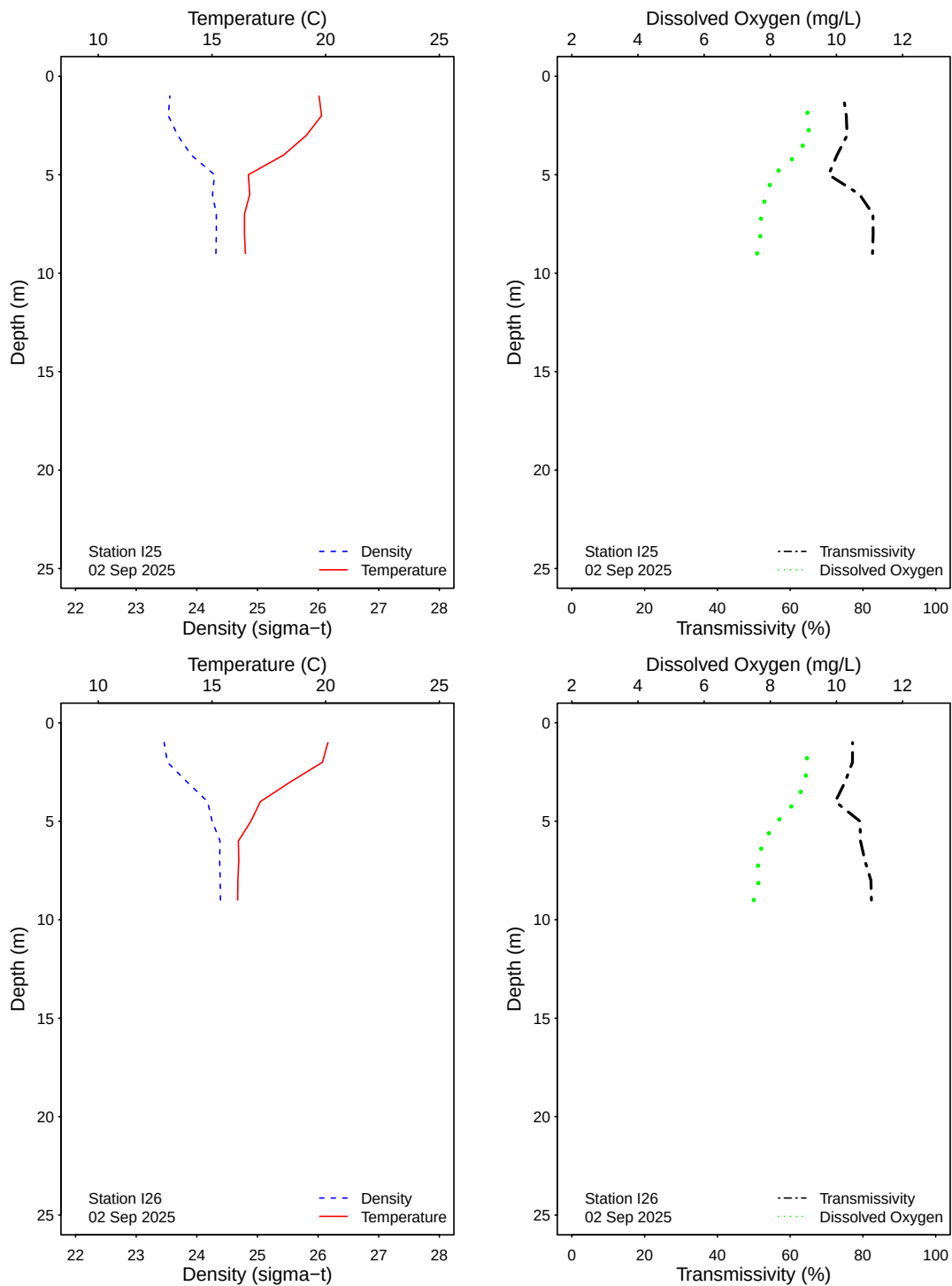


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

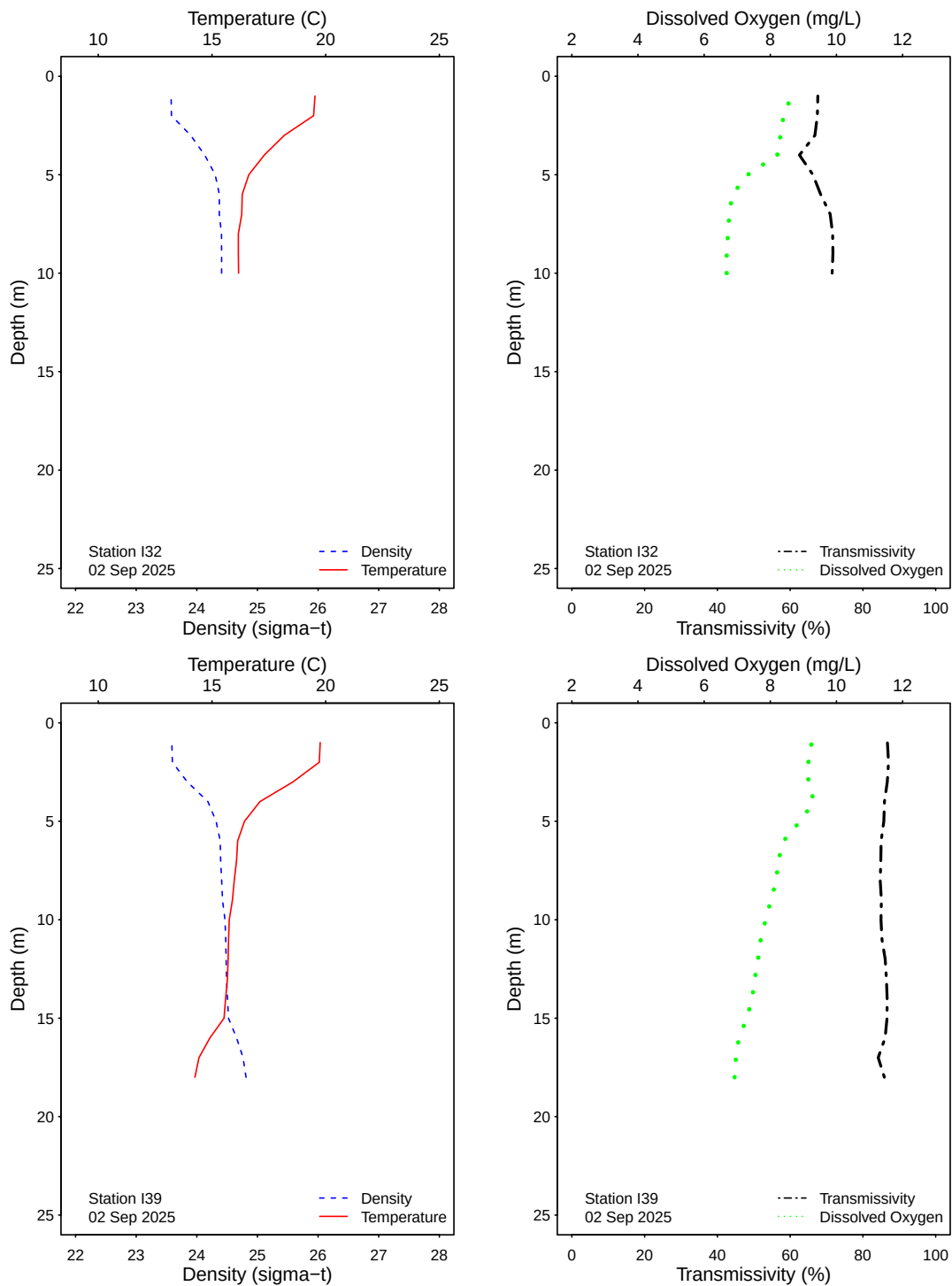


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

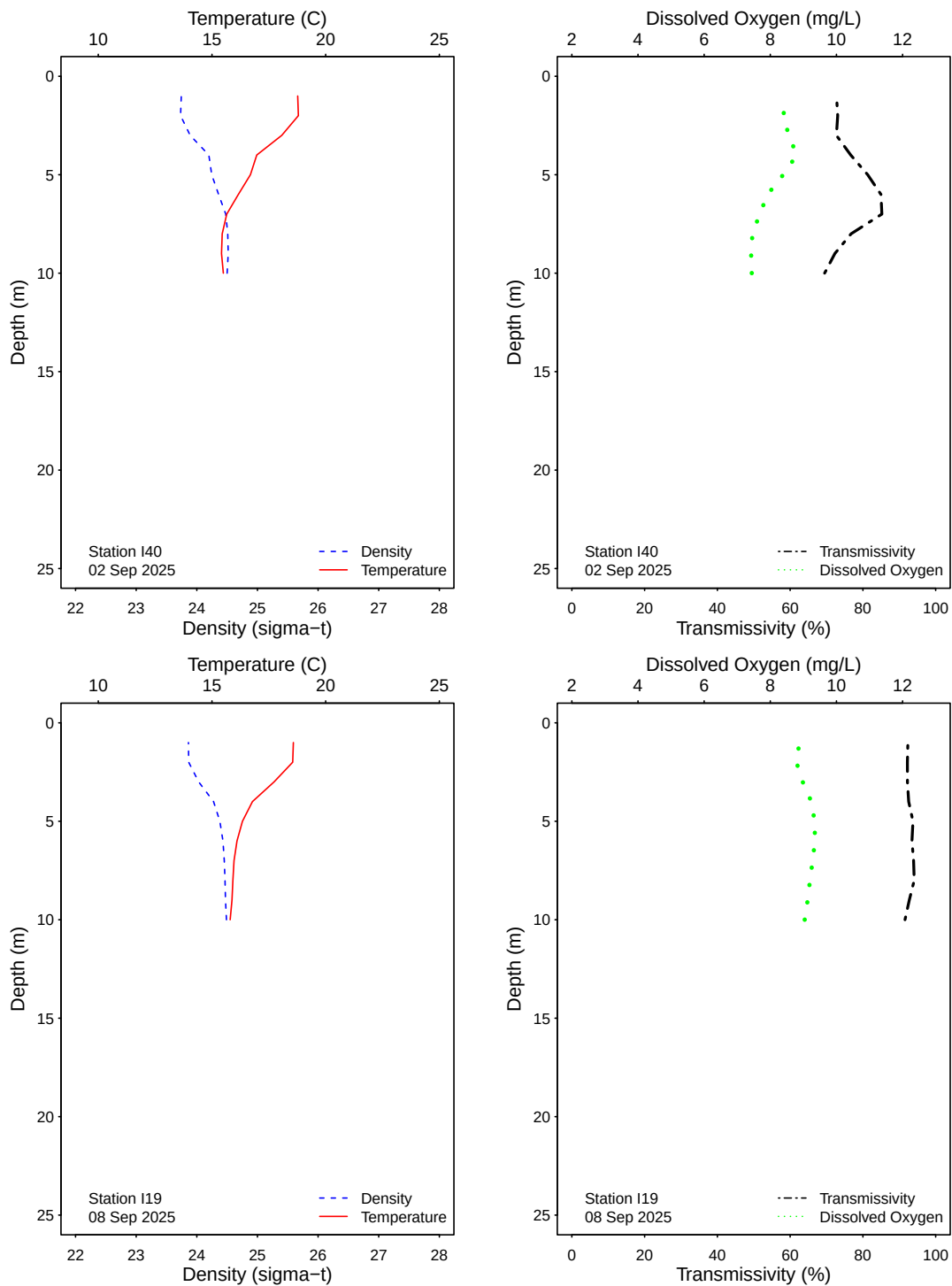


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

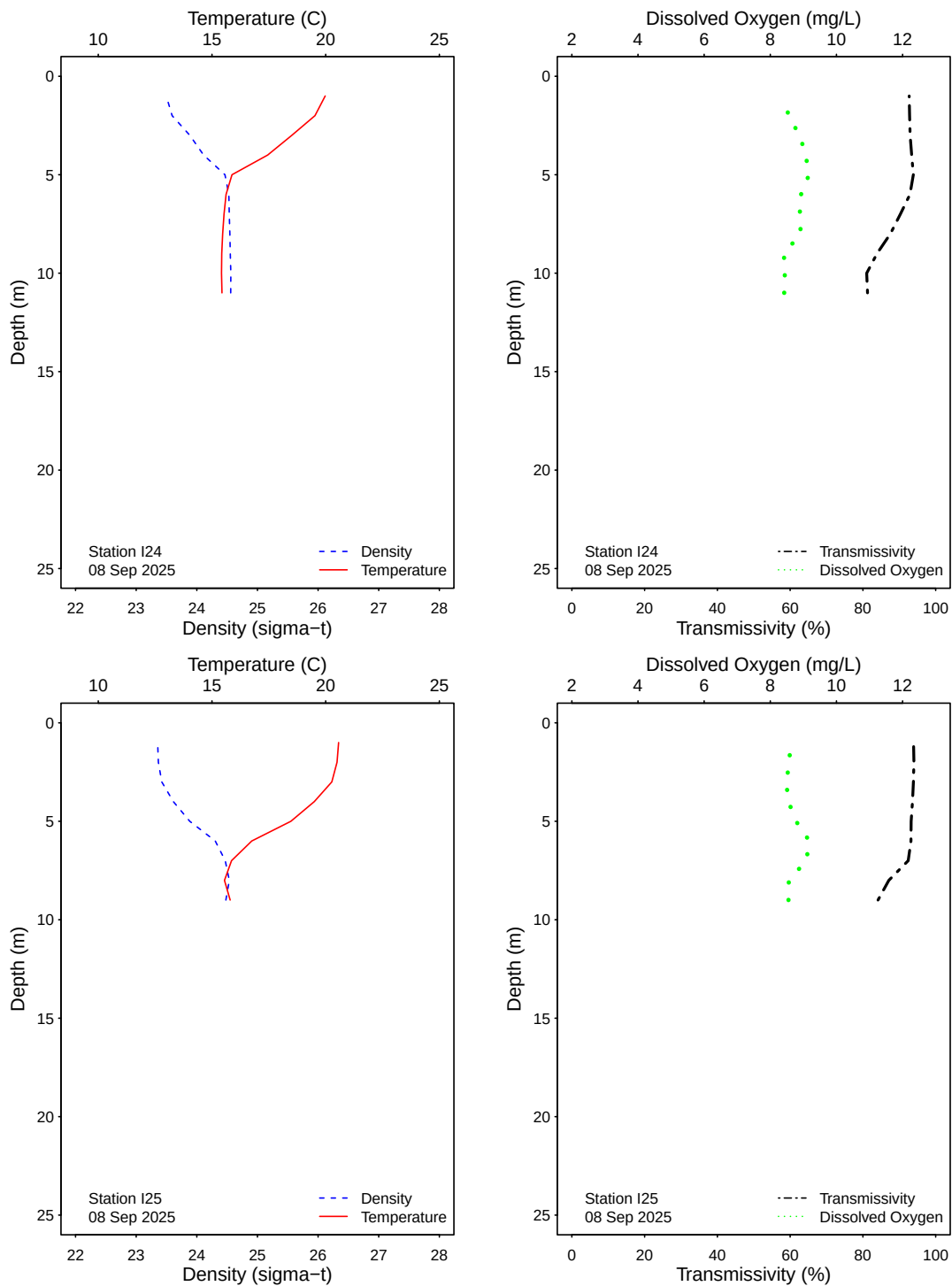


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

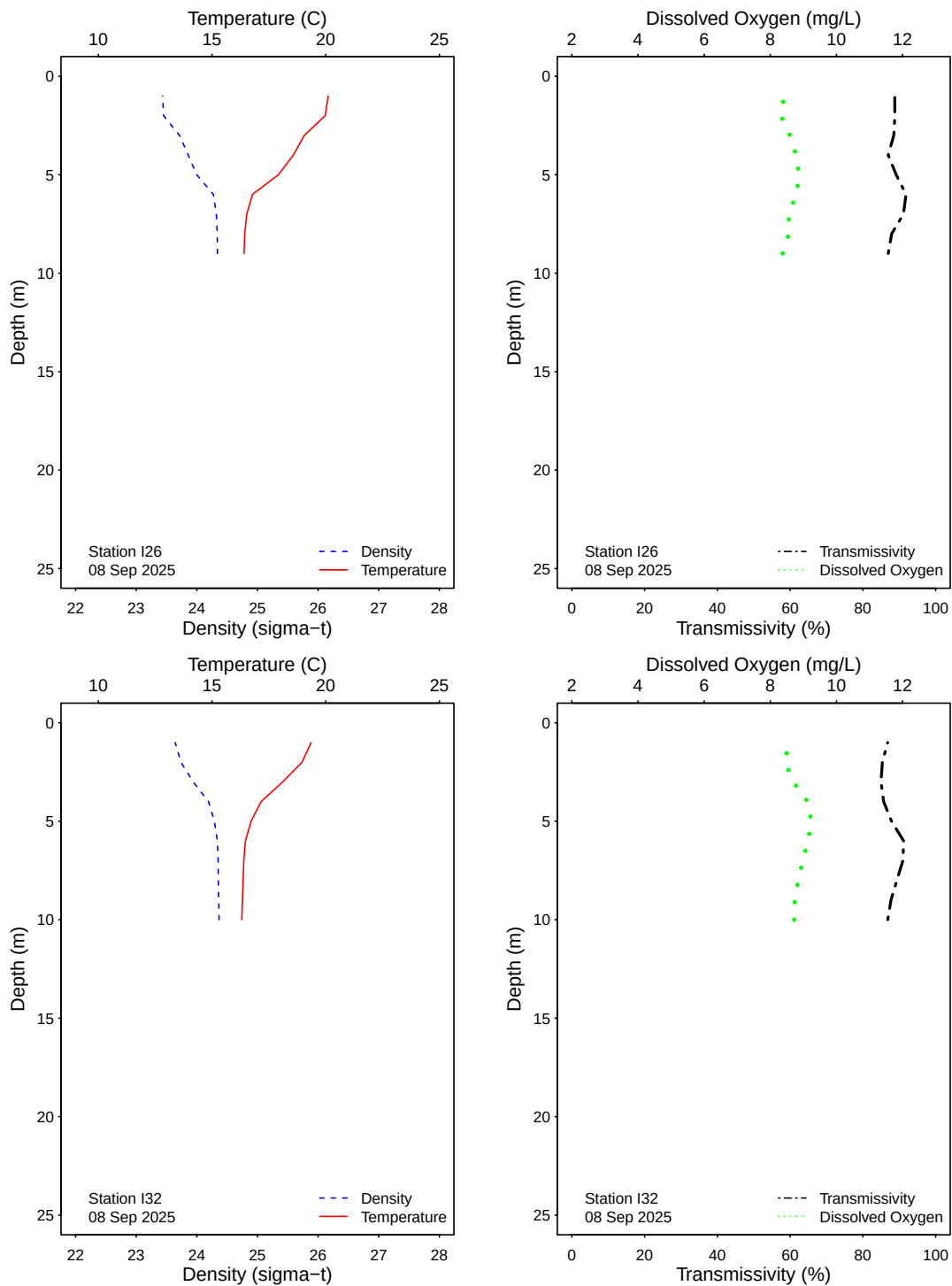


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

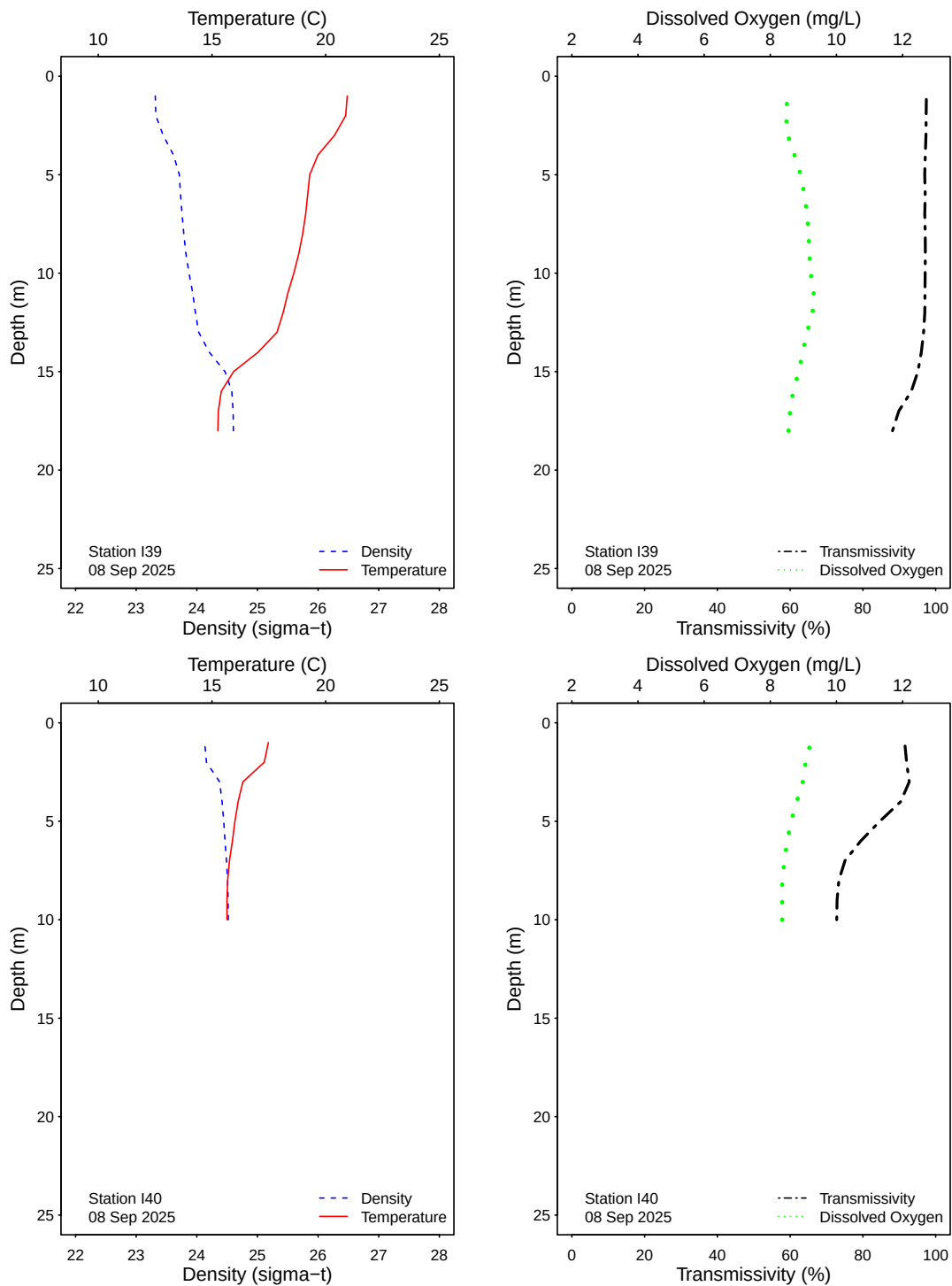


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

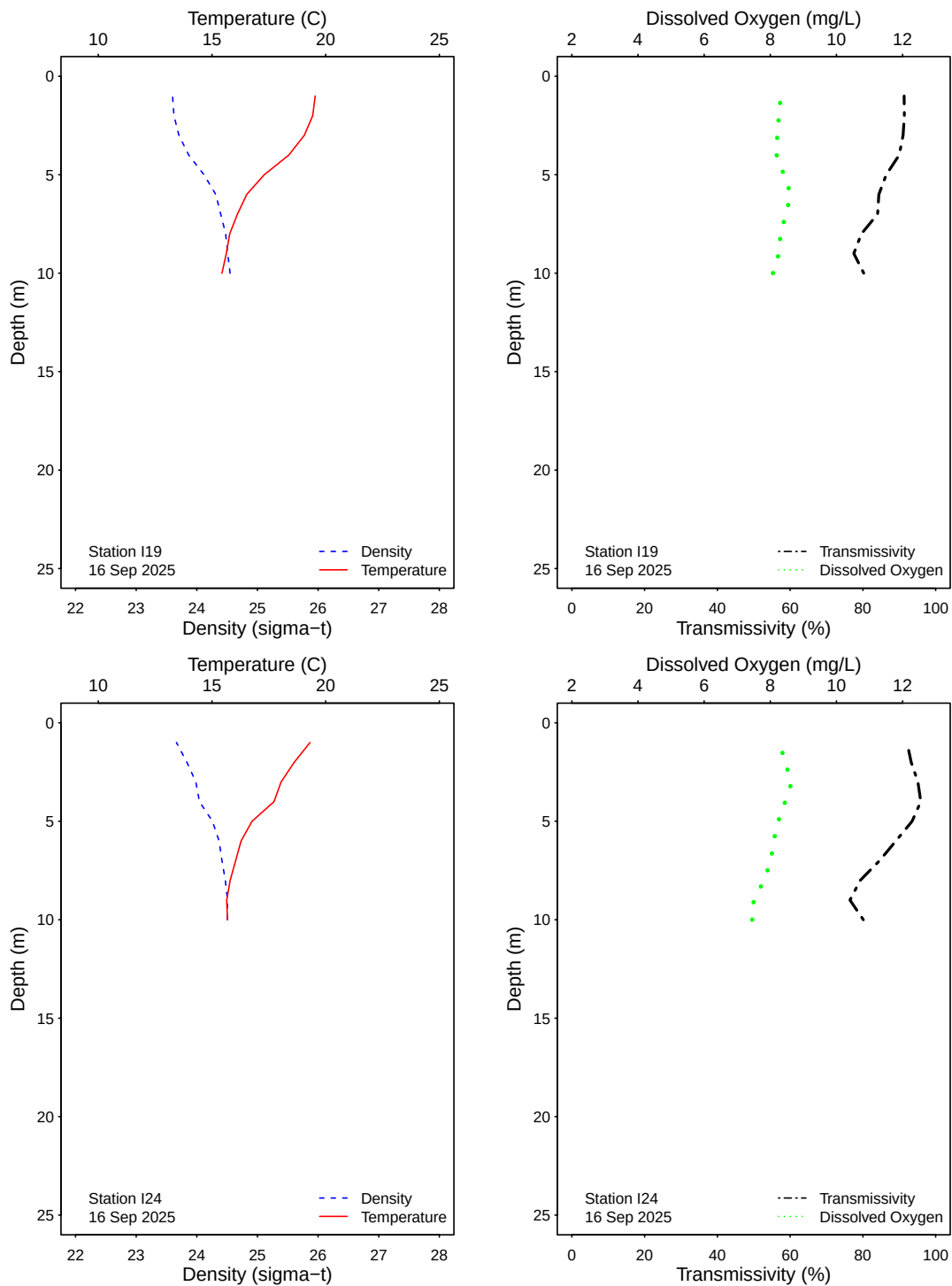


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

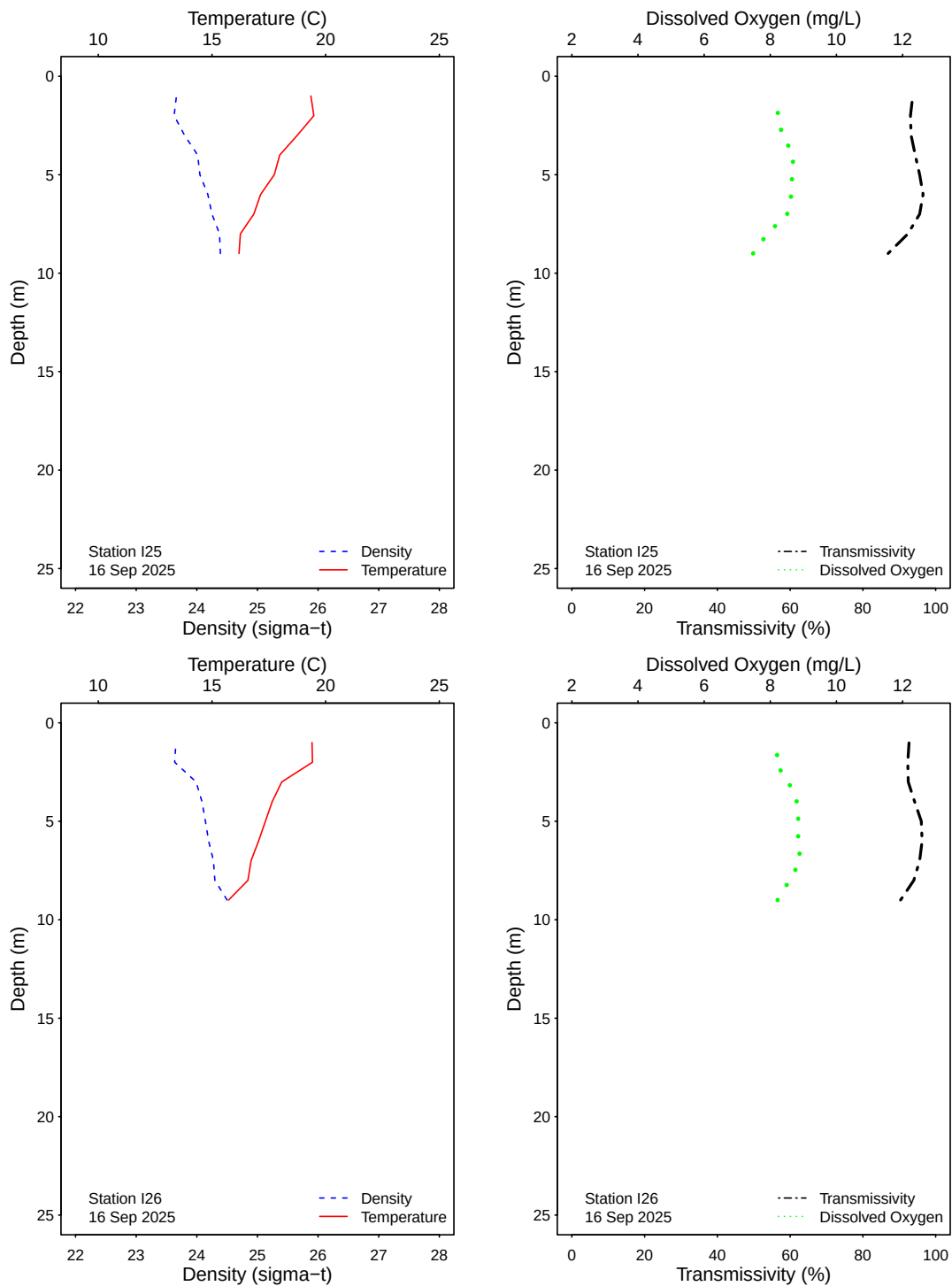


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

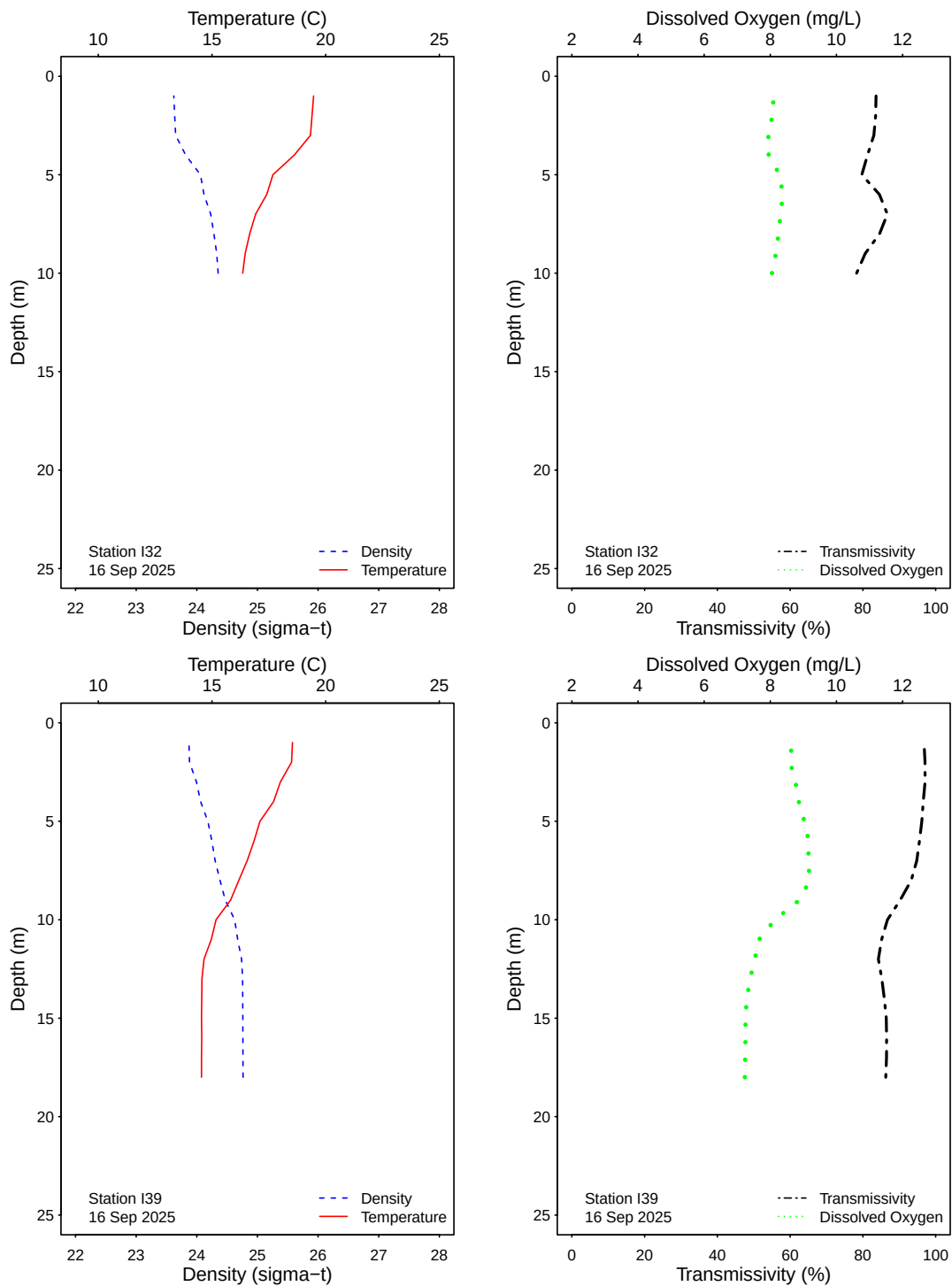


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

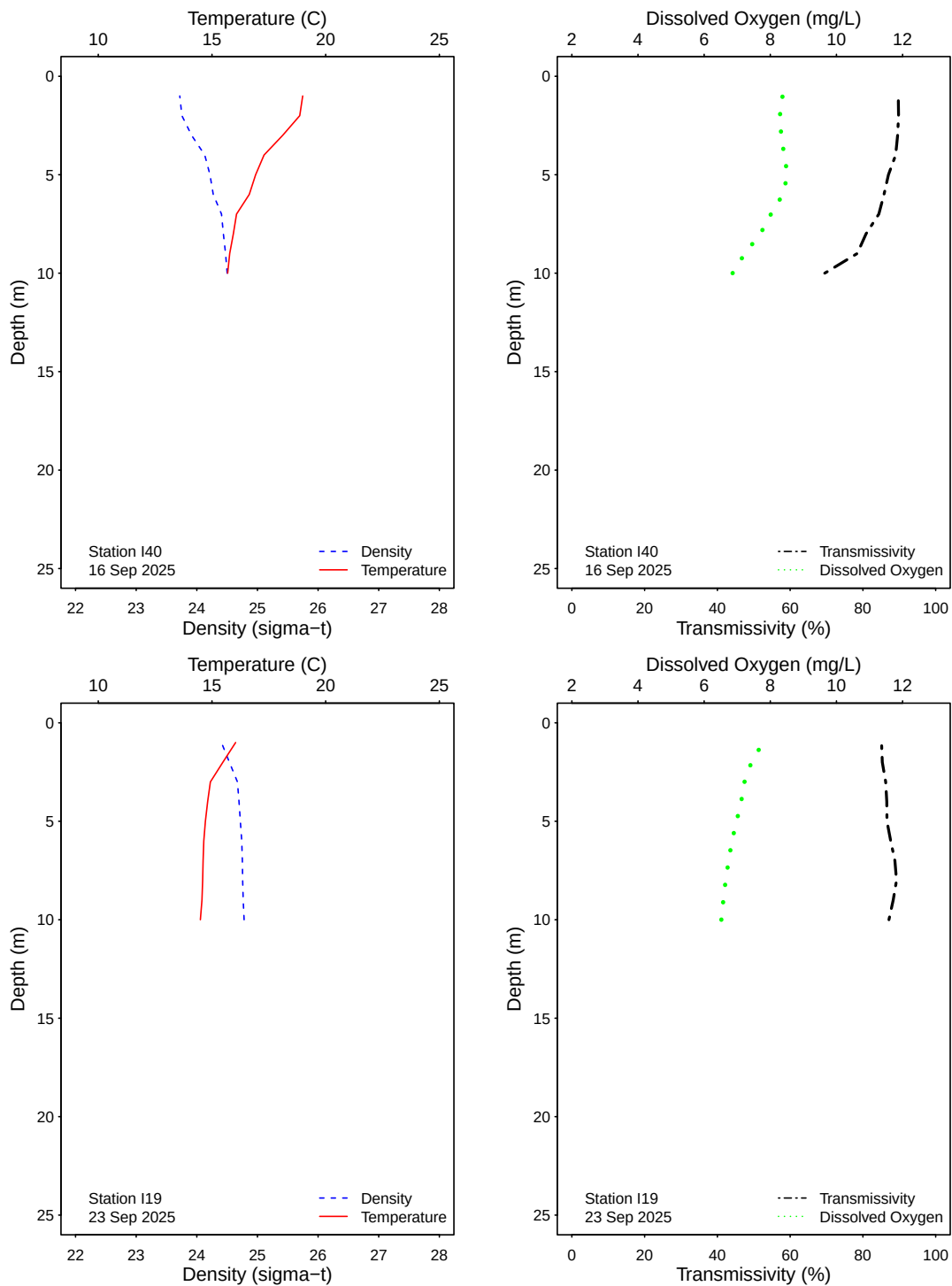


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

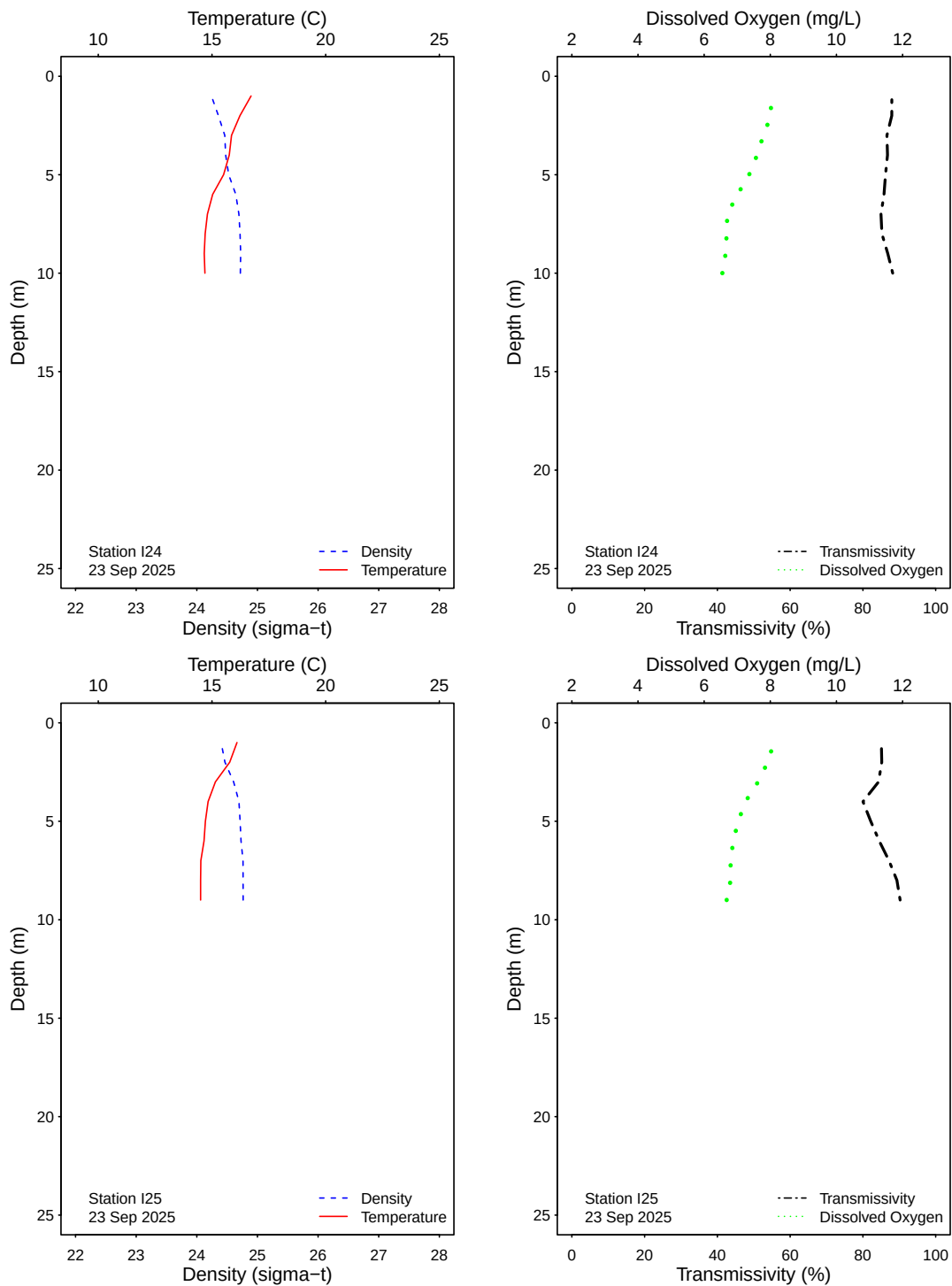


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

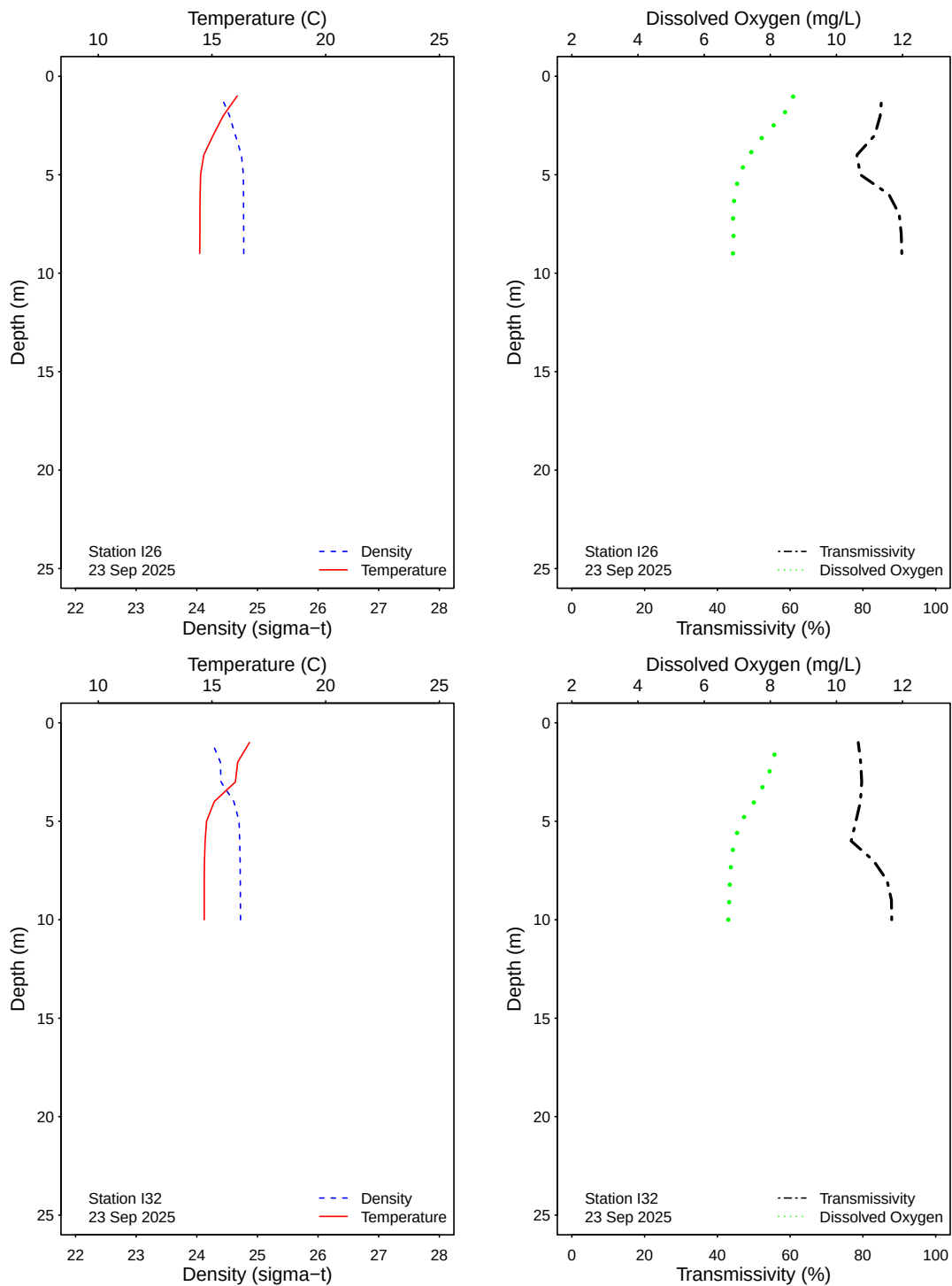


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

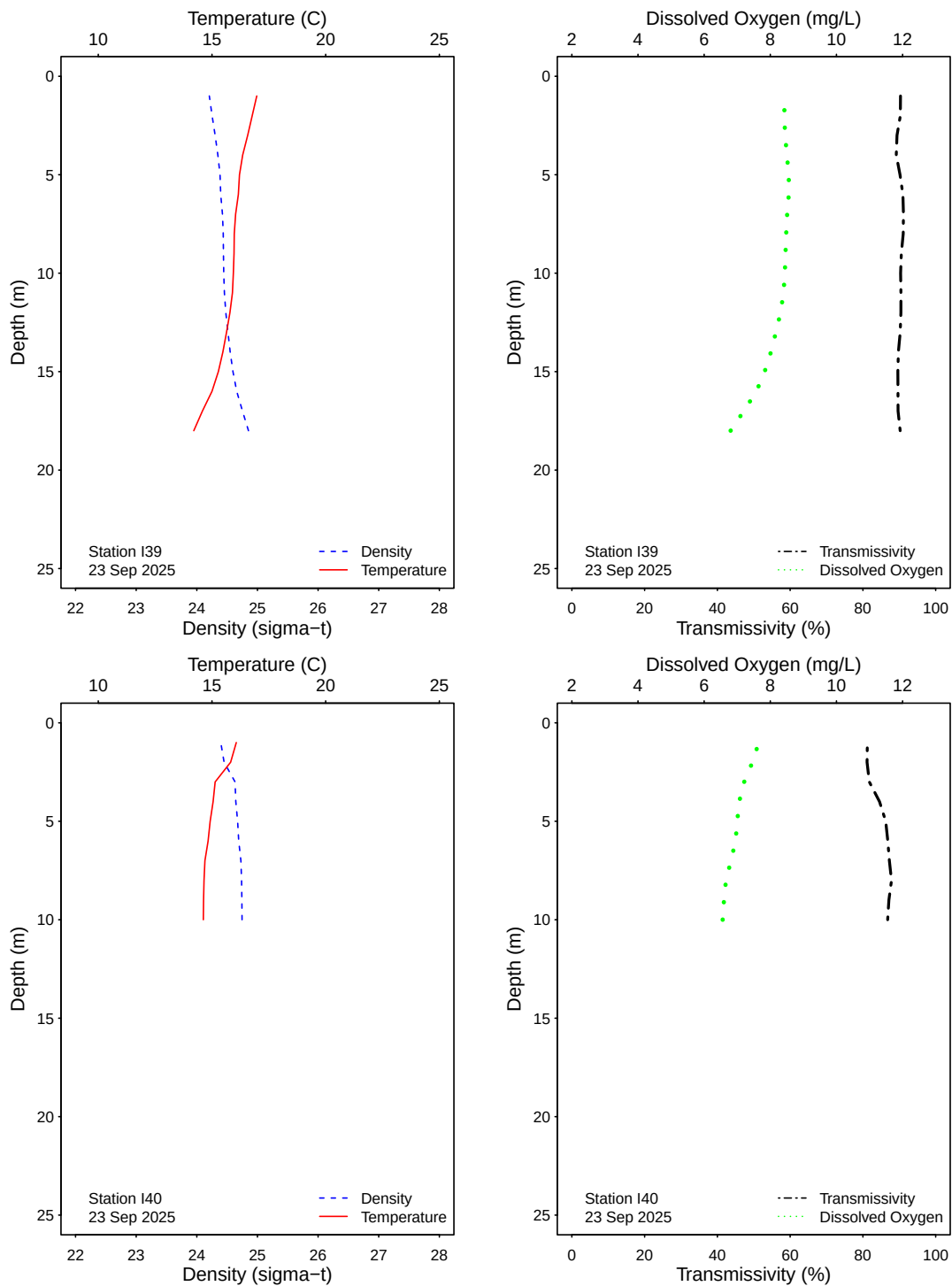


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

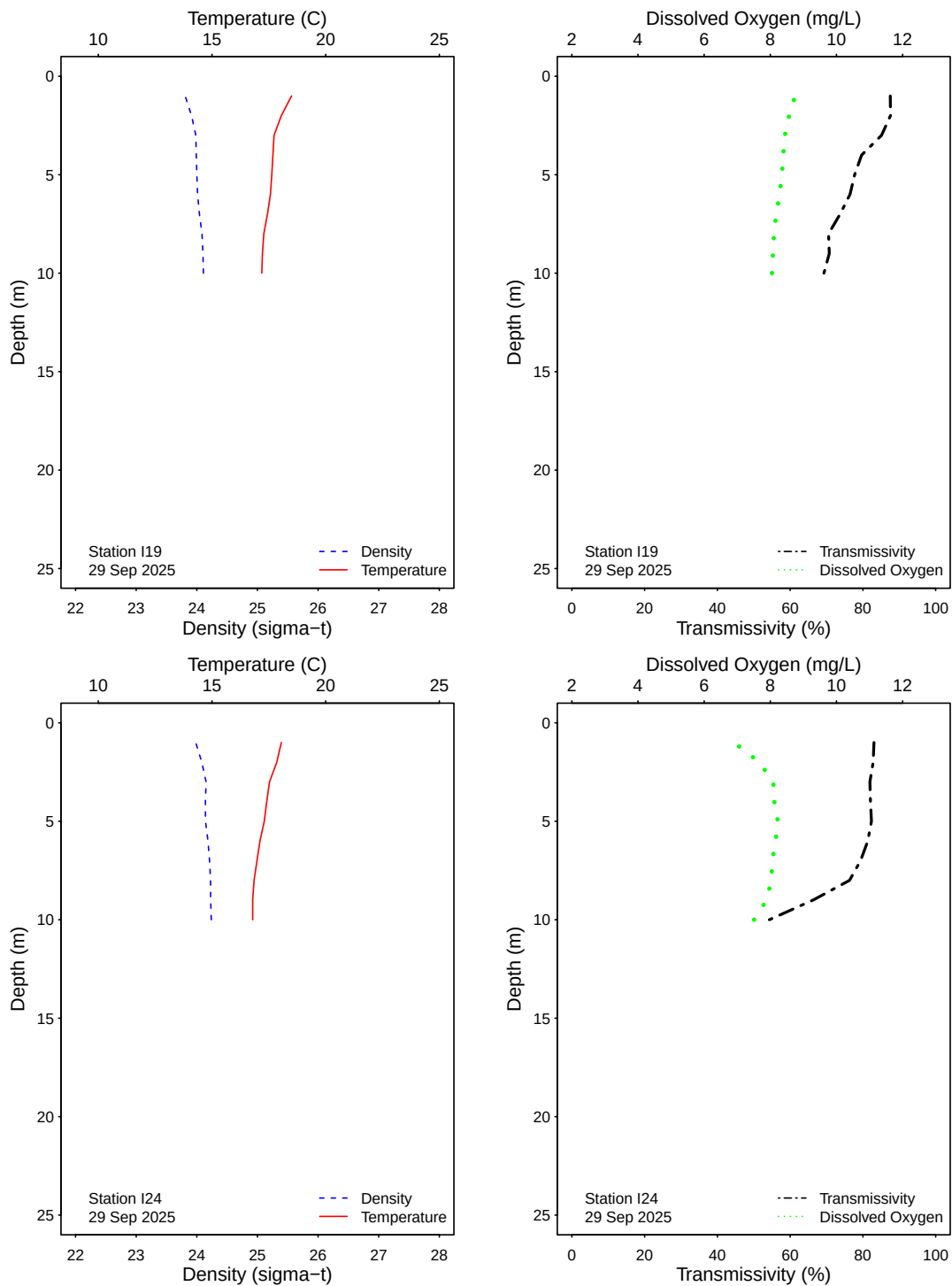


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

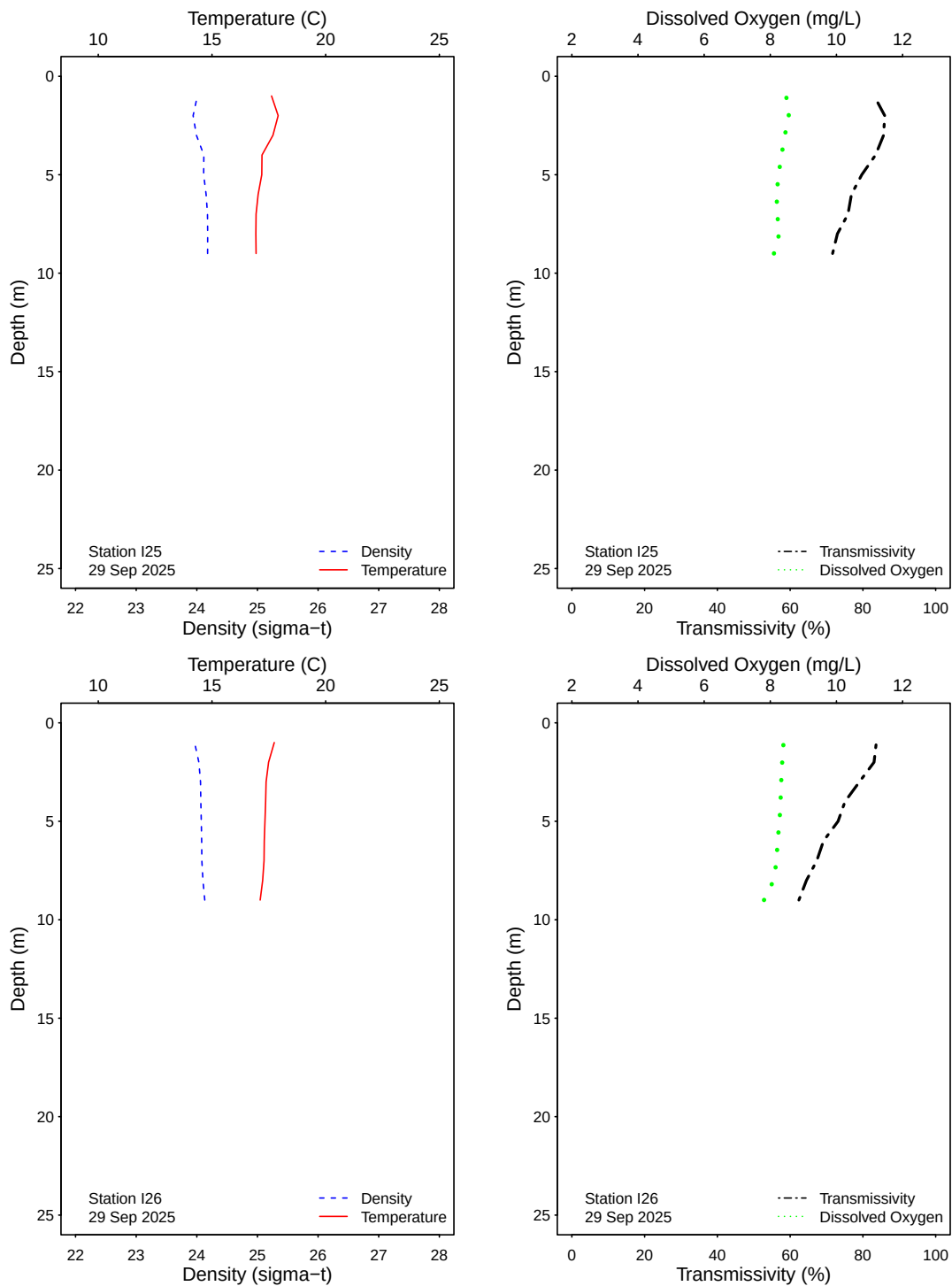


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

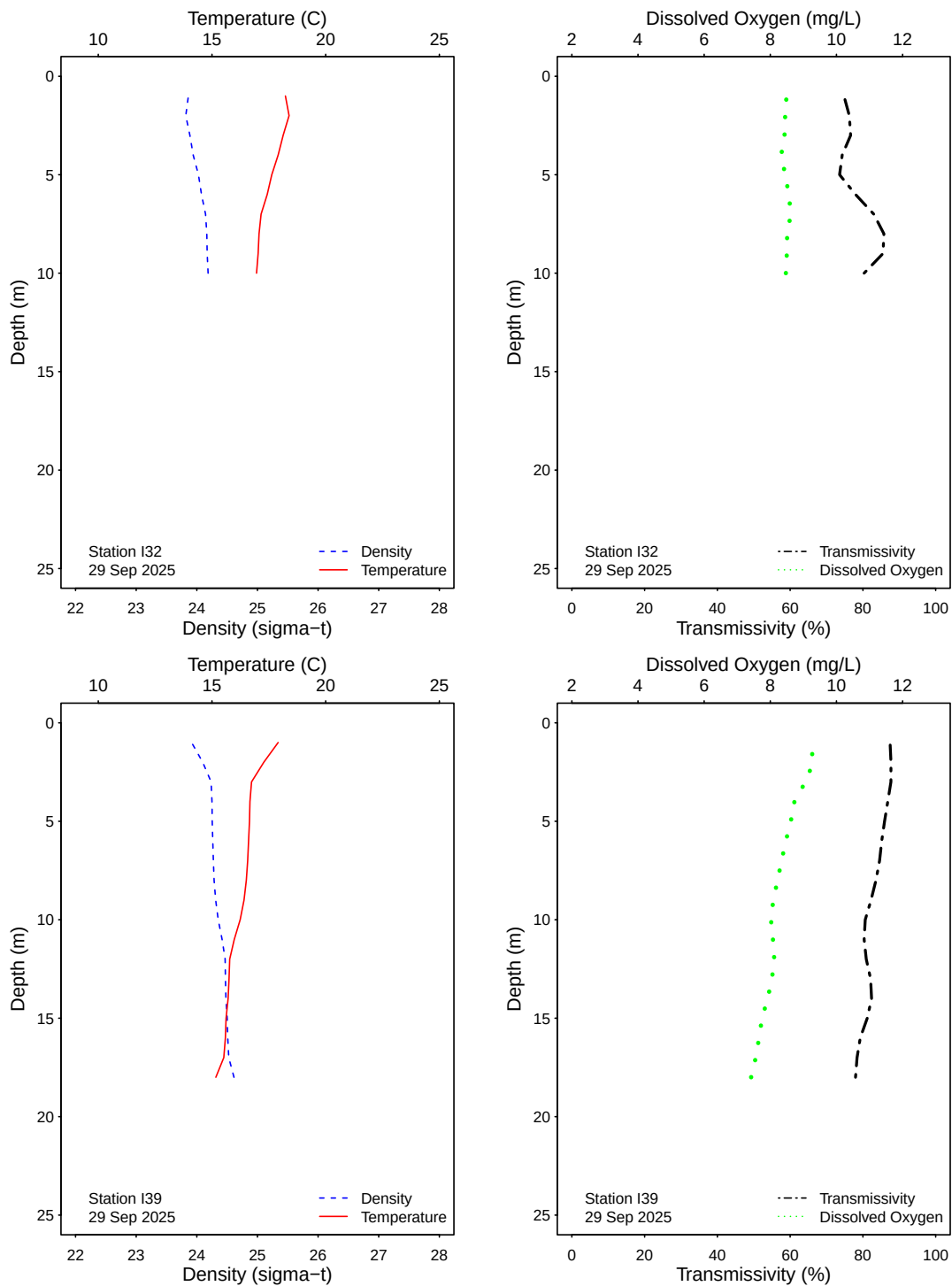


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

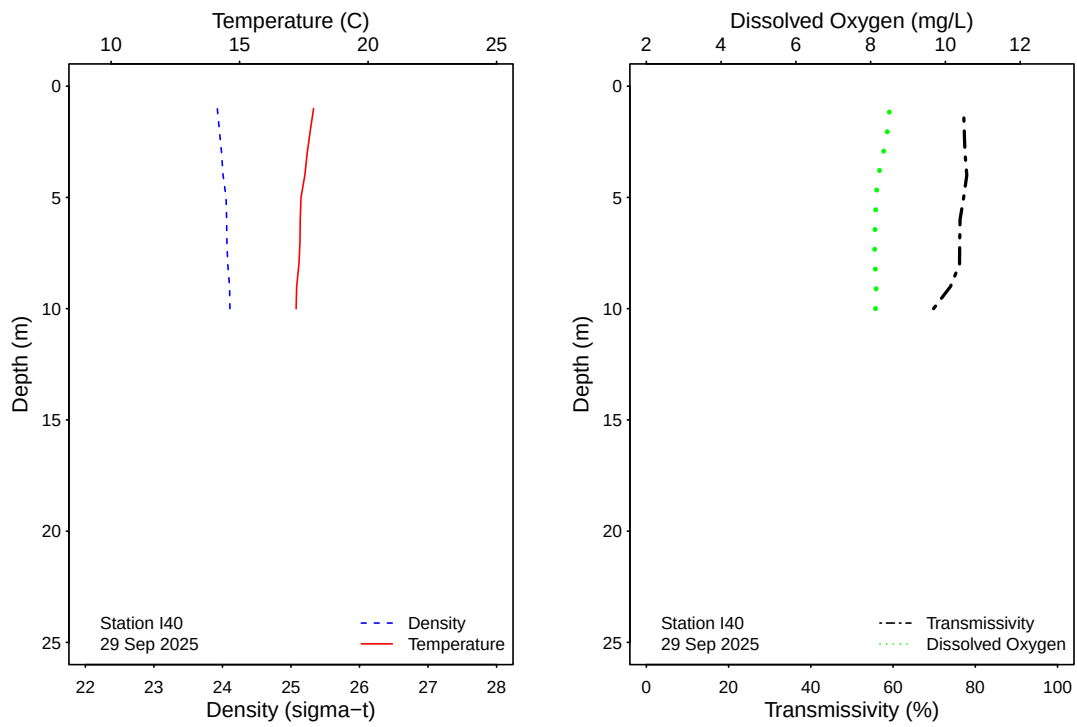


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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 Sep 2025	6	ADG	LAB DUPLICATE	2	2	2
I19	08 Sep 2025	6	KT	LAB DUPLICATE	2	2	2
I19	16 Sep 2025	6	WT	LAB DUPLICATE	2	2	2
I19	23 Sep 2025	6	SS	LAB DUPLICATE	2	2	2
I19	29 Sep 2025	6	SS	LAB DUPLICATE	4800	700	500
I40	02 Sep 2025	6	ADG	LAB DUPLICATE	20	2	2
I40	08 Sep 2025	6	KT	LAB DUPLICATE	2	2	2
I40	16 Sep 2025	6	WT	LAB DUPLICATE	2	2	2
I40	23 Sep 2025	6	SS	LAB DUPLICATE	14	2	2
I40	29 Sep 2025	6	SS	LAB DUPLICATE	16000	3200	920
S12	02 Sep 2025		JF	FIELD DUPLICATE	2600	300	360
S12	02 Sep 2025		JF	LAB DUPLICATE	3000	160	300
S12	10 Sep 2025		JF	FIELD DUPLICATE	40	8	18
S12	10 Sep 2025		JF	LAB DUPLICATE	20	24	6
S12	16 Sep 2025		ADG	LAB DUPLICATE	40	4	12
S12	16 Sep 2025		ADG	FIELD DUPLICATE	120	22	12
S12	18 Sep 2025		NCD	FIELD DUPLICATE	ns	6	ns
S12	18 Sep 2025		NCD	LAB DUPLICATE	ns	8	ns
S12	23 Sep 2025		WT	FIELD DUPLICATE	20	20	4
S12	23 Sep 2025		WT	LAB DUPLICATE	40	4	2
S12	30 Sep 2025		ADG	FIELD DUPLICATE	720	120	40
S12	30 Sep 2025		ADG	LAB DUPLICATE	640	120	52

ns = not sampled

ND = no data

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