

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

DECEMBER 2025

Environmental Monitoring and Technical Services
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January 31, 2026

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 December 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 December, seven of the eight shore stations located north of the border were out of compliance with the 2019 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - The 30-day geometric mean standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
 - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
 - The 6-week running geometric mean standard for enterococcus was exceeded at stations S4, S5, S6, S10, S11, and S12.
 - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11, and S12.

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

- The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S9, S10, S11, and S12.
 - The STV standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
- A sewage-like odor was detected at SBOO shore stations S4, S5, S6, S8, S9, S10, S11, and S12 on one or more days in December.
- 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 December 2, 8, 15, 23, and 29.
- During December, each of the seven kelp bed stations were out of compliance with one or more of the 2019 Ocean Plan water contact standards on one or more days as follows:
 - The 30-day running geometric mean standard for fecal coliforms was exceeded at stations I19 and I40.
 - The SSM standard for fecal coliforms was exceeded at stations I19, I24, I25, I26, I39, and I40.
 - The 6-week running geometric mean standard for enterococcus was exceeded at stations I19, I24, and I40
 - The STV standard for *Enterococcus* was exceeded at stations I19, I24, I26, and I40.
 - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
 - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
- Water column temperatures ranged from 15.49 to 18.29°C. The difference between surface and bottom waters ranged from 0.01 to 1.05°C.
- Concentrations of chlorophyll *a* ranged from 0.28 to 14.22 µg/L at the kelp bed stations.
- A sewage-like odor was detected at SBOO kelp stations I19, I25, and I40 on one or more days in December.

➤ **Offshore Water Quality Sampling**

- Quarterly sampling was not conducted during December at the offshore stations. The next quarterly sampling is scheduled for February 2026.



TABLES AND FIGURES

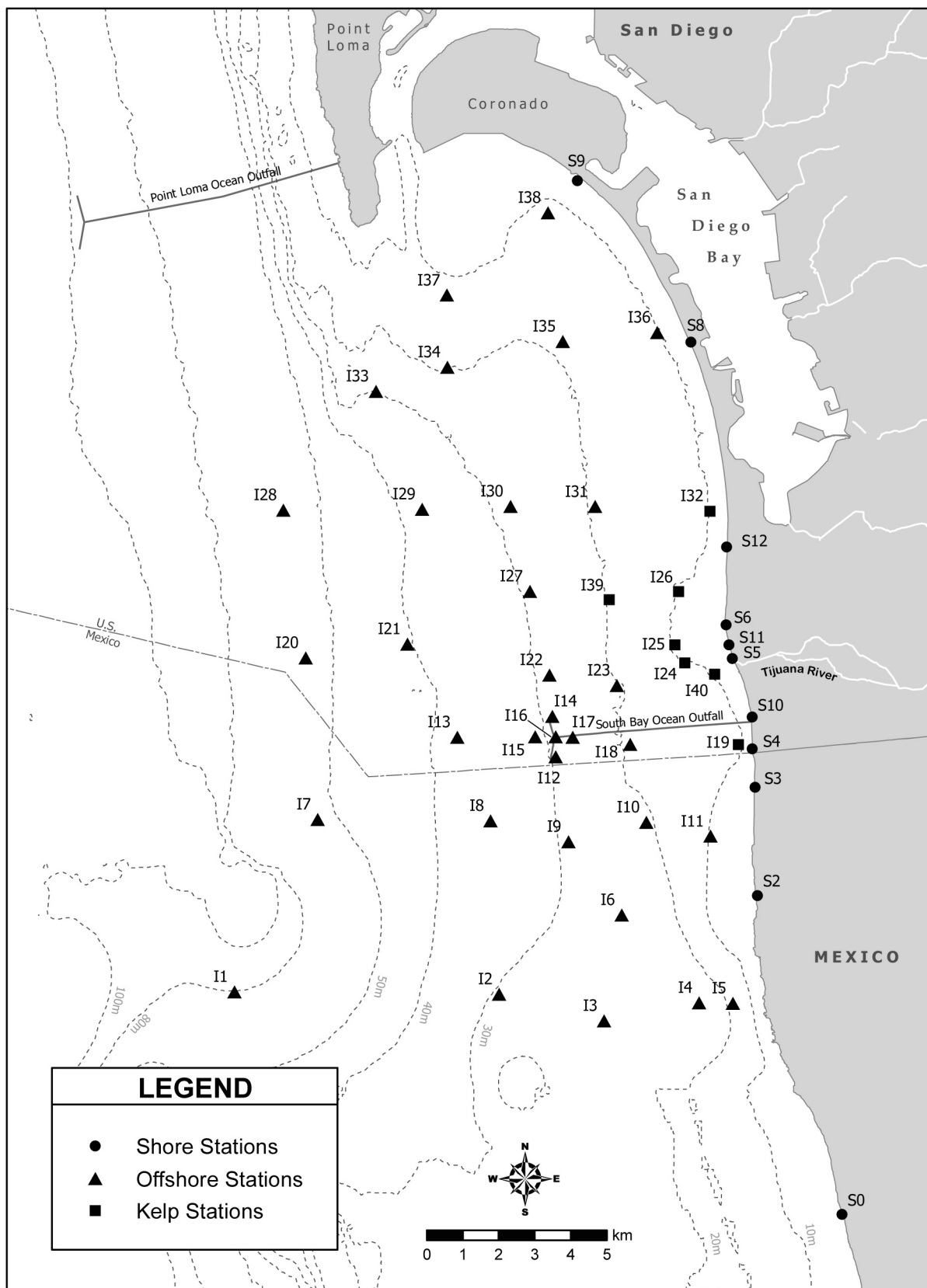


Figure 1.1 Station Map

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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 Dec 2025	243	1880	200	20	20	345	557	203
02 Dec 2025	201	2561	288	13	20	241	594	166
03 Dec 2025	201	2561	288	13	20	241	594	166
04 Dec 2025	353	10711	779	20	27	475	1855	401
05 Dec 2025	353	10711	779	20	27	475	1855	401
06 Dec 2025	353	10711	779	20	27	475	1855	401
07 Dec 2025	353	10711	779	20	27	475	1855	401
08 Dec 2025	353	10711	779	20	27	475	1855	401
09 Dec 2025	206	10916	288	15	18	373	1319	199
10 Dec 2025	206	10916	288	15	18	373	1319	199
11 Dec 2025	206	10916	288	15	18	373	1319	199
12 Dec 2025	173	10711	137	23	27	475	848	123
13 Dec 2025	173	10711	137	23	27	475	848	123
14 Dec 2025	173	10711	137	23	27	475	848	123
15 Dec 2025	136	10916	68	15	18	418	347	62
16 Dec 2025	136	10916	68	15	18	418	347	62
17 Dec 2025	79	10916	44	4	7	274	183	50
18 Dec 2025	35	10711	27	2	5	129	105	33
19 Dec 2025	35	10711	27	2	5	129	105	33
20 Dec 2025	35	10711	27	2	5	129	105	33
21 Dec 2025	35	10711	27	2	5	129	105	33
22 Dec 2025	35	10711	27	2	5	129	105	33
23 Dec 2025	60	9164	74	2	5	229	231	21
24 Dec 2025	60	9164	74	2	5	229	231	21
25 Dec 2025	39	9727	88	2	6	125	301	20
26 Dec 2025	39	9727	88	2	6	125	301	20
27 Dec 2025	39	9727	88	2	6	125	301	20
28 Dec 2025	39	9727	88	2	6	125	301	20
29 Dec 2025	97	10074	52	2	5	268	194	13
30 Dec 2025	97	10074	52	2	5	268	194	13
31 Dec 2025	97	10074	52	2	5	268	194	13

* Geometric mean calculated using n<5

Table 2.2

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Dec 2025	IC	E	E	IC	IC	IC	E	IC
09 Dec 2025	IC	E	IC	IC	IC	IC	IC	IC
15 Dec 2025	IC	E	IC	IC	IC	IC	IC	IC
17 Dec 2025	IC	E	IC	IC	IC	IC	IC	E
23 Dec 2025	E	E	E	IC	IC	E	E	IC
29 Dec 2025	E	E	IC	IC	IC	E	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2025	52	300	32	7	6	53	40	18
02 Dec 2025	84	524	31	4	9	113	42	13
03 Dec 2025	84	524	31	4	9	113	42	13
04 Dec 2025	84	524	31	4	9	113	42	13
05 Dec 2025	84	524	31	4	9	113	42	13
06 Dec 2025	84	524	31	4	9	113	42	13
07 Dec 2025	84	524	31	4	9	113	42	13
08 Dec 2025	84	524	31	4	9	113	42	13
09 Dec 2025	94	1368	35	4	9	173	81	18
10 Dec 2025	94	1368	35	4	9	173	81	18
11 Dec 2025	94	1368	35	4	9	173	81	18
12 Dec 2025	94	1368	35	4	9	173	81	18
13 Dec 2025	94	1368	35	4	9	173	81	18
14 Dec 2025	94	1368	35	4	9	173	81	18
15 Dec 2025	94	1368	35	4	9	173	81	18
16 Dec 2025	100	5050	43	4	6	221	149	24
17 Dec 2025	58	5833	44	3	6	140	133	40
18 Dec 2025	58	5833	44	3	6	140	133	40
19 Dec 2025	58	5833	44	3	6	140	133	40
20 Dec 2025	58	5833	44	3	6	140	133	40
21 Dec 2025	58	5833	44	3	6	140	133	40
22 Dec 2025	58	5833	44	3	6	140	133	40
23 Dec 2025	84	6103	91	3	5	224	253	26
24 Dec 2025	74	5452	76	3	6	293	183	23
25 Dec 2025	74	5452	76	3	6	293	183	23
26 Dec 2025	74	5452	76	3	6	293	183	23
27 Dec 2025	74	5452	76	3	6	293	183	23
28 Dec 2025	74	5452	76	3	6	293	183	23
29 Dec 2025	103	6103	45	3	5	499	133	16
30 Dec 2025	71	5452	43	2	4	293	102	13
31 Dec 2025	71	5452	43	2	4	293	102	13

* Geometric mean calculated using $n < 5$

Table 2.4

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2025	*2700	*16000	*1910	*20	*110	*8650	*5170	*1710
02 Dec 2025	2200	16000	3600	20	20	1300	4600	420
03 Dec 2025	2200	16000	3600	20	20	1300	4600	420
04 Dec 2025	*2700	*16000	*3900	*20	*20	*8650	*7300	*1710
05 Dec 2025	*2700	*16000	*3900	*20	*20	*8650	*7300	*1710
06 Dec 2025	*2700	*16000	*3900	*20	*20	*8650	*7300	*1710
07 Dec 2025	*2700	*16000	*3900	*20	*20	*8650	*7300	*1710
08 Dec 2025	*2700	*16000	*3900	*20	*20	*8650	*7300	*1710
09 Dec 2025	2200	16000	3600	20	20	1300	4600	420
10 Dec 2025	2200	16000	3600	20	20	1300	4600	420
11 Dec 2025	2200	16000	3600	20	20	1300	4600	420
12 Dec 2025	*1200	*16000	*1910	*18	*110	*8410	*3300	*330
13 Dec 2025	*1200	*16000	*1910	*18	*110	*8410	*3300	*330
14 Dec 2025	*1200	*16000	*1910	*18	*110	*8410	*3300	*330
15 Dec 2025	*1200	*16000	*1910	*18	*110	*8410	*3300	*330
16 Dec 2025	*1200	*16000	*1910	*18	*110	*8410	*3300	*330
17 Dec 2025	200	16000	860	20	20	820	2000	420
18 Dec 2025	*150	*16000	*540	*18	*20	*810	*1700	*330
19 Dec 2025	*150	*16000	*540	*18	*20	*810	*1700	*330
20 Dec 2025	*150	*16000	*540	*18	*20	*810	*1700	*330
21 Dec 2025	*150	*16000	*540	*18	*20	*810	*1700	*330
22 Dec 2025	*150	*16000	*540	*18	*20	*810	*1700	*330
23 Dec 2025	200	16000	860	16	20	820	2000	240
24 Dec 2025	200	16000	860	16	20	820	2000	240
25 Dec 2025	*150	*16000	*2530	*11	*20	*810	*3300	*130
26 Dec 2025	*150	*16000	*2530	*11	*20	*810	*3300	*130
27 Dec 2025	*150	*16000	*2530	*11	*20	*810	*3300	*130
28 Dec 2025	*150	*16000	*2530	*11	*20	*810	*3300	*130
29 Dec 2025	200	16000	860	20	20	820	2000	20
30 Dec 2025	200	16000	860	20	20	820	2000	20
31 Dec 2025	200	16000	860	20	20	820	2000	20

* Median calculated using n<5

Table 2.6

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

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 Dec 2025	925	>16000	6000	6200
S0	09 Dec 2025	920	>16000	1000e	3600e
S0	17 Dec 2025	940	6000	980	920
S0	23 Dec 2025	855	>16000	6000	4400
S0	29 Dec 2025	925	>16000	8200	7200
S10	02 Dec 2025	1043	800e	40e	200e
S10	09 Dec 2025	1031	820	110	100
S10	15 Dec 2025	818		220e	
S10	17 Dec 2025	1106	12e	8e	14e
S10	23 Dec 2025	1114	15000	4000	3800e
S10	29 Dec 2025	1301	>16000	>12000	>12000
S11	02 Dec 2025	906	4600	820	280e
S11	09 Dec 2025	934	2000e	240e	110
S11	15 Dec 2025	920		4e	
S11	17 Dec 2025	956	1400e	260e	76
S11	23 Dec 2025	1012	>16000	>12000	>12000
S11	29 Dec 2025	1150	100e	22e	20e
S12	02 Dec 2025	818	240e	60e	94
S12	09 Dec 2025	816	<20	6e	12e
S12	15 Dec 2025	1018		2e	
S12	17 Dec 2025	845	7800	2000e	500
S12	23 Dec 2025	900	2e	<2	2e
S12	29 Dec 2025	1044	20e	<2	2e
S2	02 Dec 2025	1020	340e	110	100e
S2	09 Dec 2025	1000	2e	<2	2e
S2	17 Dec 2025	1028	220e	4e	2e
S2	23 Dec 2025	825	16e	4e	32e
S2	29 Dec 2025	1020	4800	620	52
S3	02 Dec 2025	955	180e	92	84
S3	09 Dec 2025	1030	66	26e	4e
S3	17 Dec 2025	1055	14e	<2	4e
S3	23 Dec 2025	800	720	52	600
S3	29 Dec 2025	955	13000	2400e	20e
S4	02 Dec 2025	1103	100	78	100
S4	09 Dec 2025	1052	200e	14e	20e
S4	15 Dec 2025	752		42	
S4	17 Dec 2025	1127	6e	<2	4e
S4	23 Dec 2025	1130	4000	960	720
S4	29 Dec 2025	1320	>16000	9200	800
S5	02 Dec 2025	925	>16000	>12000	>12000
S5	09 Dec 2025	913	>16000	>12000	3800e
S5	15 Dec 2025	935		>12000	
S5	17 Dec 2025	939	>16000	>12000	>12000
S5	23 Dec 2025	950	>16000	4200	8000
S5	29 Dec 2025	1129	>16000	>12000	>12000
S6	02 Dec 2025	849	4200	1800e	380e
S6	09 Dec 2025	947	<20	<2	4e

Station	Date	Time	Total	Fecal	Enteroc
S6	15 Dec 2025	906		2e	
S6	17 Dec 2025	1010	860	60	50
S6	23 Dec 2025	1024	>16000	>12000	6800
S6	29 Dec 2025	1240	<20	4e	<2
S8	02 Dec 2025	748	<20	2e	<2
S8	09 Dec 2025	756	2e	4e	<2
S8	15 Dec 2025	1040		<2	
S8	17 Dec 2025	825	<20	2e	2e
S8	23 Dec 2025	833	<2	2e	<2
S8	29 Dec 2025	1024	<20	<2	<2
S9	02 Dec 2025	731	<20	18e	24e
S9	09 Dec 2025	734	<200	2e	<2
S9	15 Dec 2025	1100		2e	
S9	17 Dec 2025	806	<20	20e	6e
S9	23 Dec 2025	810	18e	4e	2e
S9	29 Dec 2025	1005	<2	<2	2e

ns = not sampled
ND = no data

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 Dec 2025	Arrive Time	925
S0	02 Dec 2025	Wind Speed (kts)	0.9
S0	02 Dec 2025	Wind Dir	NE
S0	02 Dec 2025	Animal Life	Dog-2; Seagull-20;
S0	02 Dec 2025	Floatables	
S0	02 Dec 2025	Current Direction	S
S0	02 Dec 2025	Water Temp (C)	14
S0	02 Dec 2025	High Tide Time	610
S0	02 Dec 2025	Low Tide Time	1321
S0	02 Dec 2025	Comments	Water turbid; Trash-1; Kelp;Algae; 1.0 L/s water flowing from storm drain
S0	09 Dec 2025	Arrive Time	920
S0	09 Dec 2025	Wind Speed (kts)	1.1
S0	09 Dec 2025	Wind Dir	NE
S0	09 Dec 2025	Animal Life	Seagull-20;
S0	09 Dec 2025	Floatables	
S0	09 Dec 2025	Current Direction	S
S0	09 Dec 2025	Water Temp (C)	14
S0	09 Dec 2025	High Tide Time	103
S0	09 Dec 2025	Low Tide Time	545
S0	09 Dec 2025	Comments	Water turbid; Trash-0; Algae;Kelp; 1.0 L/s water flowing from storm drain
S0	17 Dec 2025	Arrive Time	940
S0	17 Dec 2025	Wind Speed (kts)	2.8
S0	17 Dec 2025	Wind Dir	N
S0	17 Dec 2025	Animal Life	
S0	17 Dec 2025	Floatables	
S0	17 Dec 2025	Current Direction	S
S0	17 Dec 2025	Water Temp (C)	10
S0	17 Dec 2025	High Tide Time	643
S0	17 Dec 2025	Low Tide Time	23
S0	17 Dec 2025	Comments	Water clear; Trash-0; Person/Walker/Jogger-5; No flow from storm drain
S0	23 Dec 2025	Arrive Time	855
S0	23 Dec 2025	Wind Speed (kts)	4.5
S0	23 Dec 2025	Wind Dir	NE
S0	23 Dec 2025	Animal Life	Bird-10; Dog-1;
S0	23 Dec 2025	Floatables	
S0	23 Dec 2025	Current Direction	N
S0	23 Dec 2025	Water Temp (C)	13
S0	23 Dec 2025	High Tide Time	957
S0	23 Dec 2025	Low Tide Time	352
S0	29 Dec 2025	Arrive Time	925
S0	29 Dec 2025	Wind Speed (kts)	1.1
S0	29 Dec 2025	Wind Dir	N
S0	29 Dec 2025	Animal Life	Bird-10; Dog-1;
S0	29 Dec 2025	Floatables	
S0	29 Dec 2025	Current Direction	N
S0	29 Dec 2025	Water Temp (C)	14
S0	29 Dec 2025	High Tide Time	410
S0	29 Dec 2025	Low Tide Time	1134

Station	Date	Parameter	Value
S0	29 Dec 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5; 0.5 L/s water flowing from storm drain
S2	02 Dec 2025	Arrive Time	1020
S2	02 Dec 2025	Wind Speed (kts)	1.3
S2	02 Dec 2025	Wind Dir	NE
S2	02 Dec 2025	Animal Life	Dog-5; Seagull-20;
S2	02 Dec 2025	Floatables	
S2	02 Dec 2025	Current Direction	S
S2	02 Dec 2025	Water Temp (C)	14
S2	02 Dec 2025	High Tide Time	610
S2	02 Dec 2025	Low Tide Time	1321
S2	02 Dec 2025	Comments	Water turbid; Trash-1; Kelp;Algae; No flow from storm drain
S2	09 Dec 2025	Arrive Time	1000
S2	09 Dec 2025	Wind Speed (kts)	1.2
S2	09 Dec 2025	Wind Dir	NE
S2	09 Dec 2025	Animal Life	Seagull-20;
S2	09 Dec 2025	Floatables	
S2	09 Dec 2025	Current Direction	S
S2	09 Dec 2025	Water Temp (C)	14
S2	09 Dec 2025	High Tide Time	103
S2	09 Dec 2025	Low Tide Time	545
S2	09 Dec 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S2	17 Dec 2025	Arrive Time	1028
S2	17 Dec 2025	Wind Speed (kts)	1
S2	17 Dec 2025	Wind Dir	N
S2	17 Dec 2025	Animal Life	
S2	17 Dec 2025	Floatables	
S2	17 Dec 2025	Current Direction	S
S2	17 Dec 2025	Water Temp (C)	11
S2	17 Dec 2025	High Tide Time	643
S2	17 Dec 2025	Low Tide Time	23
S2	17 Dec 2025	Comments	Water clear; Trash-0; Person/Walker/Jogger-5; No flow from storm drain
S2	23 Dec 2025	Arrive Time	825
S2	23 Dec 2025	Wind Speed (kts)	3.7
S2	23 Dec 2025	Wind Dir	NE
S2	23 Dec 2025	Animal Life	Bird-10; Dog-3;
S2	23 Dec 2025	Floatables	
S2	23 Dec 2025	Current Direction	N
S2	23 Dec 2025	Water Temp (C)	13
S2	23 Dec 2025	High Tide Time	957
S2	23 Dec 2025	Low Tide Time	352
S2	23 Dec 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No flow from storm drain
S2	29 Dec 2025	Arrive Time	1020
S2	29 Dec 2025	Wind Speed (kts)	1
S2	29 Dec 2025	Wind Dir	N
S2	29 Dec 2025	Animal Life	Bird-10; Dog-1;
S2	29 Dec 2025	Floatables	
S2	29 Dec 2025	Current Direction	N
S2	29 Dec 2025	Water Temp (C)	14
S2	29 Dec 2025	High Tide Time	410
S2	29 Dec 2025	Low Tide Time	1134
S2	29 Dec 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain

Station	Date	Parameter	Value
S3	02 Dec 2025	Arrive Time	955
S3	02 Dec 2025	Wind Speed (kts)	1.1
S3	02 Dec 2025	Wind Dir	NE
S3	02 Dec 2025	Animal Life	Dog-5; Seagull-12;
S3	02 Dec 2025	Floatables	
S3	02 Dec 2025	Current Direction	S
S3	02 Dec 2025	Water Temp (C)	14
S3	02 Dec 2025	High Tide Time	610
S3	02 Dec 2025	Low Tide Time	1321
S3	02 Dec 2025	Comments	Water turbid; Trash-1; No flow from storm drain
S3	09 Dec 2025	Arrive Time	1030
S3	09 Dec 2025	Wind Speed (kts)	0.8
S3	09 Dec 2025	Wind Dir	NE
S3	09 Dec 2025	Animal Life	Seagull-20;
S3	09 Dec 2025	Floatables	
S3	09 Dec 2025	Current Direction	S
S3	09 Dec 2025	Water Temp (C)	14
S3	09 Dec 2025	High Tide Time	103
S3	09 Dec 2025	Low Tide Time	545
S3	09 Dec 2025	Comments	Water turbid; Trash-0; Kelp;Algae; No flow from storm drain
S3	17 Dec 2025	Arrive Time	1055
S3	17 Dec 2025	Wind Speed (kts)	1
S3	17 Dec 2025	Wind Dir	N
S3	17 Dec 2025	Animal Life	
S3	17 Dec 2025	Floatables	
S3	17 Dec 2025	Current Direction	S
S3	17 Dec 2025	Water Temp (C)	11
S3	17 Dec 2025	High Tide Time	643
S3	17 Dec 2025	Low Tide Time	23
S3	17 Dec 2025	Comments	Water clear; Trash-0; Person/Walker/Jogger-15; No flow from storm drain
S3	23 Dec 2025	Arrive Time	800
S3	23 Dec 2025	Wind Speed (kts)	304
S3	23 Dec 2025	Wind Dir	NE
S3	23 Dec 2025	Animal Life	Bird-10; Dog-1;
S3	23 Dec 2025	Floatables	
S3	23 Dec 2025	Current Direction	N
S3	23 Dec 2025	Water Temp (C)	13
S3	23 Dec 2025	High Tide Time	957
S3	23 Dec 2025	Low Tide Time	352
S3	23 Dec 2025	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No flow from storm drain
S3	29 Dec 2025	Arrive Time	955
S3	29 Dec 2025	Wind Speed (kts)	1.2
S3	29 Dec 2025	Wind Dir	N
S3	29 Dec 2025	Animal Life	Bird-10; Dog-4;
S3	29 Dec 2025	Floatables	
S3	29 Dec 2025	Current Direction	N
S3	29 Dec 2025	Water Temp (C)	14
S3	29 Dec 2025	High Tide Time	410
S3	29 Dec 2025	Low Tide Time	1134
S3	29 Dec 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S4	02 Dec 2025	Arrive Time	1103
S4	02 Dec 2025	Wind Speed (kts)	1.1
S4	02 Dec 2025	Wind Dir	W

Station	Date	Parameter	Value
S4	02 Dec 2025	Animal Life	
S4	02 Dec 2025	Floatables	
S4	02 Dec 2025	Current Direction	NW
S4	02 Dec 2025	Water Temp (C)	15.6
S4	02 Dec 2025	High Tide Time	610
S4	02 Dec 2025	Low Tide Time	1321
S4	02 Dec 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S4	09 Dec 2025	Arrive Time	1052
S4	09 Dec 2025	Wind Speed (kts)	4.5
S4	09 Dec 2025	Wind Dir	W
S4	09 Dec 2025	Animal Life	
S4	09 Dec 2025	Floatables	
S4	09 Dec 2025	Current Direction	S
S4	09 Dec 2025	Water Temp (C)	15.1
S4	09 Dec 2025	High Tide Time	103
S4	09 Dec 2025	Low Tide Time	545
S4	09 Dec 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S4	15 Dec 2025	Arrive Time	752
S4	15 Dec 2025	Wind Speed (kts)	1.1
S4	15 Dec 2025	Wind Dir	NW
S4	15 Dec 2025	Animal Life	
S4	15 Dec 2025	Floatables	
S4	15 Dec 2025	Current Direction	S
S4	15 Dec 2025	Water Temp (C)	14.6
S4	15 Dec 2025	High Tide Time	543
S4	15 Dec 2025	Low Tide Time	1304
S4	15 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
S4	17 Dec 2025	Arrive Time	1127
S4	17 Dec 2025	Wind Speed (kts)	2.4
S4	17 Dec 2025	Wind Dir	SW
S4	17 Dec 2025	Animal Life	
S4	17 Dec 2025	Floatables	
S4	17 Dec 2025	Current Direction	S
S4	17 Dec 2025	Water Temp (C)	16.4
S4	17 Dec 2025	High Tide Time	643
S4	17 Dec 2025	Low Tide Time	23
S4	17 Dec 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae
S4	23 Dec 2025	Arrive Time	1130
S4	23 Dec 2025	Wind Speed (kts)	4.2
S4	23 Dec 2025	Wind Dir	E
S4	23 Dec 2025	Animal Life	
S4	23 Dec 2025	Floatables	
S4	23 Dec 2025	Current Direction	S
S4	23 Dec 2025	Water Temp (C)	15.1
S4	23 Dec 2025	High Tide Time	957
S4	23 Dec 2025	Low Tide Time	352
S4	23 Dec 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris; Sewage-like odor
S4	29 Dec 2025	Arrive Time	1320
S4	29 Dec 2025	Wind Speed (kts)	6.4
S4	29 Dec 2025	Wind Dir	W
S4	29 Dec 2025	Animal Life	
S4	29 Dec 2025	Floatables	
S4	29 Dec 2025	Current Direction	S
S4	29 Dec 2025	Water Temp (C)	14.2
S4	29 Dec 2025	High Tide Time	410

Station	Date	Parameter	Value
S4	29 Dec 2025	Low Tide Time	1134
S4	29 Dec 2025	Comments	Water clear; Trash-5; Kelp;Debris; Sewage-like odor
S10	02 Dec 2025	Arrive Time	1043
S10	02 Dec 2025	Wind Speed (kts)	1.7
S10	02 Dec 2025	Wind Dir	W
S10	02 Dec 2025	Animal Life	
S10	02 Dec 2025	Floatables	
S10	02 Dec 2025	Current Direction	S
S10	02 Dec 2025	Water Temp (C)	19.7
S10	02 Dec 2025	High Tide Time	610
S10	02 Dec 2025	Low Tide Time	1321
S10	02 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
S10	09 Dec 2025	Arrive Time	1031
S10	09 Dec 2025	Wind Speed (kts)	0
S10	09 Dec 2025	Wind Dir	XX
S10	09 Dec 2025	Animal Life	
S10	09 Dec 2025	Floatables	
S10	09 Dec 2025	Current Direction	S
S10	09 Dec 2025	Water Temp (C)	13
S10	09 Dec 2025	High Tide Time	103
S10	09 Dec 2025	Low Tide Time	545
S10	09 Dec 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S10	15 Dec 2025	Arrive Time	818
S10	15 Dec 2025	Wind Speed (kts)	3.4
S10	15 Dec 2025	Wind Dir	W
S10	15 Dec 2025	Animal Life	
S10	15 Dec 2025	Floatables	
S10	15 Dec 2025	Current Direction	S
S10	15 Dec 2025	Water Temp (C)	14.8
S10	15 Dec 2025	High Tide Time	543
S10	15 Dec 2025	Low Tide Time	1304
S10	15 Dec 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S10	17 Dec 2025	Arrive Time	1106
S10	17 Dec 2025	Wind Speed (kts)	2.5
S10	17 Dec 2025	Wind Dir	SW
S10	17 Dec 2025	Animal Life	Bird-2;
S10	17 Dec 2025	Floatables	
S10	17 Dec 2025	Current Direction	S
S10	17 Dec 2025	Water Temp (C)	15.4
S10	17 Dec 2025	High Tide Time	643
S10	17 Dec 2025	Low Tide Time	23
S10	17 Dec 2025	Comments	Water clear; Trash-4; Seagrass;Algae;Debris; Sewage-like odor
S10	23 Dec 2025	Arrive Time	1114
S10	23 Dec 2025	Wind Speed (kts)	2.4
S10	23 Dec 2025	Wind Dir	SE
S10	23 Dec 2025	Animal Life	
S10	23 Dec 2025	Floatables	
S10	23 Dec 2025	Current Direction	S
S10	23 Dec 2025	Water Temp (C)	15.4
S10	23 Dec 2025	High Tide Time	957
S10	23 Dec 2025	Low Tide Time	352
S10	23 Dec 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S10	29 Dec 2025	Arrive Time	1301
S10	29 Dec 2025	Wind Speed (kts)	6.4

Station	Date	Parameter	Value
S10	29 Dec 2025	Wind Dir	SW
S10	29 Dec 2025	Animal Life	
S10	29 Dec 2025	Floatables	
S10	29 Dec 2025	Current Direction	S
S10	29 Dec 2025	Water Temp (C)	17.6
S10	29 Dec 2025	High Tide Time	410
S10	29 Dec 2025	Low Tide Time	1134
S10	29 Dec 2025	Comments	Water clear; Trash-4; Debris; Sewage-like odor
S5	02 Dec 2025	Arrive Time	925
S5	02 Dec 2025	Wind Speed (kts)	0.7
S5	02 Dec 2025	Wind Dir	NW
S5	02 Dec 2025	Animal Life	
S5	02 Dec 2025	Floatables	
S5	02 Dec 2025	Current Direction	S
S5	02 Dec 2025	Water Temp (C)	17.1
S5	02 Dec 2025	High Tide Time	610
S5	02 Dec 2025	Low Tide Time	1321
S5	02 Dec 2025	Comments	Water clear; Trash-4; Kelp;Seagrass
S5	09 Dec 2025	Arrive Time	913
S5	09 Dec 2025	Wind Speed (kts)	2.9
S5	09 Dec 2025	Wind Dir	NW
S5	09 Dec 2025	Animal Life	
S5	09 Dec 2025	Floatables	
S5	09 Dec 2025	Current Direction	S
S5	09 Dec 2025	Water Temp (C)	15.1
S5	09 Dec 2025	High Tide Time	103
S5	09 Dec 2025	Low Tide Time	545
S5	09 Dec 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S5	15 Dec 2025	Arrive Time	935
S5	15 Dec 2025	Wind Speed (kts)	2.7
S5	15 Dec 2025	Wind Dir	N
S5	15 Dec 2025	Animal Life	
S5	15 Dec 2025	Floatables	
S5	15 Dec 2025	Current Direction	S
S5	15 Dec 2025	Water Temp (C)	15.6
S5	15 Dec 2025	High Tide Time	543
S5	15 Dec 2025	Low Tide Time	1304
S5	15 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1; Sewage-like odor
S5	17 Dec 2025	Arrive Time	939
S5	17 Dec 2025	Wind Speed (kts)	3.6
S5	17 Dec 2025	Wind Dir	W
S5	17 Dec 2025	Animal Life	
S5	17 Dec 2025	Floatables	
S5	17 Dec 2025	Current Direction	S
S5	17 Dec 2025	Water Temp (C)	15.1
S5	17 Dec 2025	High Tide Time	643
S5	17 Dec 2025	Low Tide Time	23
S5	17 Dec 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris; Sewage-like odor
S5	23 Dec 2025	Arrive Time	950
S5	23 Dec 2025	Wind Speed (kts)	1.5
S5	23 Dec 2025	Wind Dir	SE
S5	23 Dec 2025	Animal Life	
S5	23 Dec 2025	Floatables	
S5	23 Dec 2025	Current Direction	S

Station	Date	Parameter	Value
S5	23 Dec 2025	Water Temp (C)	14.5
S5	23 Dec 2025	High Tide Time	957
S5	23 Dec 2025	Low Tide Time	352
S5	23 Dec 2025	Comments	Water clear; Trash-4; Kelp;Debris; Sewage-like odor
S5	29 Dec 2025	Arrive Time	1129
S5	29 Dec 2025	Wind Speed (kts)	8.1
S5	29 Dec 2025	Wind Dir	W
S5	29 Dec 2025	Animal Life	Bird-5;
S5	29 Dec 2025	Floatables	
S5	29 Dec 2025	Current Direction	N
S5	29 Dec 2025	Water Temp (C)	16.4
S5	29 Dec 2025	High Tide Time	410
S5	29 Dec 2025	Low Tide Time	1134
S5	29 Dec 2025	Comments	Water clear; Trash-3; Algae;Debris; Sewage-like odor
S11	02 Dec 2025	Arrive Time	906
S11	02 Dec 2025	Wind Speed (kts)	0
S11	02 Dec 2025	Wind Dir	XX
S11	02 Dec 2025	Animal Life	
S11	02 Dec 2025	Floatables	
S11	02 Dec 2025	Current Direction	S
S11	02 Dec 2025	Water Temp (C)	15.6
S11	02 Dec 2025	High Tide Time	610
S11	02 Dec 2025	Low Tide Time	1321
S11	02 Dec 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Sea-grass
S11	09 Dec 2025	Arrive Time	934
S11	09 Dec 2025	Wind Speed (kts)	1.8
S11	09 Dec 2025	Wind Dir	W
S11	09 Dec 2025	Animal Life	
S11	09 Dec 2025	Floatables	
S11	09 Dec 2025	Current Direction	S
S11	09 Dec 2025	Water Temp (C)	15.1
S11	09 Dec 2025	High Tide Time	103
S11	09 Dec 2025	Low Tide Time	545
S11	09 Dec 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S11	15 Dec 2025	Arrive Time	920
S11	15 Dec 2025	Wind Speed (kts)	1.3
S11	15 Dec 2025	Wind Dir	NW
S11	15 Dec 2025	Animal Life	
S11	15 Dec 2025	Floatables	
S11	15 Dec 2025	Current Direction	S
S11	15 Dec 2025	Water Temp (C)	14.1
S11	15 Dec 2025	High Tide Time	543
S11	15 Dec 2025	Low Tide Time	1304
S11	15 Dec 2025	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-2
S11	17 Dec 2025	Arrive Time	956
S11	17 Dec 2025	Wind Speed (kts)	2.7
S11	17 Dec 2025	Wind Dir	SW
S11	17 Dec 2025	Animal Life	
S11	17 Dec 2025	Floatables	
S11	17 Dec 2025	Current Direction	S
S11	17 Dec 2025	Water Temp (C)	15.7
S11	17 Dec 2025	High Tide Time	643
S11	17 Dec 2025	Low Tide Time	23

Station	Date	Parameter	Value
S11	17 Dec 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-2; Sewage-like odor
S11	23 Dec 2025	Arrive Time	1012
S11	23 Dec 2025	Wind Speed (kts)	2.3
S11	23 Dec 2025	Wind Dir	E
S11	23 Dec 2025	Animal Life	Bird-1;
S11	23 Dec 2025	Floatables	
S11	23 Dec 2025	Current Direction	S
S11	23 Dec 2025	Water Temp (C)	14.8
S11	23 Dec 2025	High Tide Time	957
S11	23 Dec 2025	Low Tide Time	352
S11	23 Dec 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris;Algae; Sewage-like odor
S11	29 Dec 2025	Arrive Time	1150
S11	29 Dec 2025	Wind Speed (kts)	8.9
S11	29 Dec 2025	Wind Dir	W
S11	29 Dec 2025	Animal Life	
S11	29 Dec 2025	Floatables	
S11	29 Dec 2025	Current Direction	S
S11	29 Dec 2025	Water Temp (C)	15.1
S11	29 Dec 2025	High Tide Time	410
S11	29 Dec 2025	Low Tide Time	1134
S11	29 Dec 2025	Comments	Water clear; Trash-4; Kelp;Algae;Debris; Sewage-like odor
S6	02 Dec 2025	Arrive Time	849
S6	02 Dec 2025	Wind Speed (kts)	0.5
S6	02 Dec 2025	Wind Dir	W
S6	02 Dec 2025	Animal Life	
S6	02 Dec 2025	Floatables	
S6	02 Dec 2025	Current Direction	S
S6	02 Dec 2025	Water Temp (C)	15.1
S6	02 Dec 2025	High Tide Time	610
S6	02 Dec 2025	Low Tide Time	1321
S6	02 Dec 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Sea-grass;Algae; Person/Walker/Jogger-4
S6	09 Dec 2025	Arrive Time	947
S6	09 Dec 2025	Wind Speed (kts)	0
S6	09 Dec 2025	Wind Dir	XX
S6	09 Dec 2025	Animal Life	
S6	09 Dec 2025	Floatables	
S6	09 Dec 2025	Current Direction	S
S6	09 Dec 2025	Water Temp (C)	14.1
S6	09 Dec 2025	High Tide Time	103
S6	09 Dec 2025	Low Tide Time	545
S6	09 Dec 2025	Comments	Water clear; Fisherpersion-1; Trash-1; Kelp
S6	15 Dec 2025	Arrive Time	906
S6	15 Dec 2025	Wind Speed (kts)	0.3
S6	15 Dec 2025	Wind Dir	W
S6	15 Dec 2025	Animal Life	
S6	15 Dec 2025	Floatables	
S6	15 Dec 2025	Current Direction	S
S6	15 Dec 2025	Water Temp (C)	14.8
S6	15 Dec 2025	High Tide Time	543
S6	15 Dec 2025	Low Tide Time	1304
S6	15 Dec 2025	Comments	Water clear; Surfer/Paddle boarder-3; Trash-2; Kelp;Sea-grass;Algae; Person/Walker/Jogger-1

Station	Date	Parameter	Value
S6	17 Dec 2025	Arrive Time	1010
S6	17 Dec 2025	Wind Speed (kts)	0
S6	17 Dec 2025	Wind Dir	XX
S6	17 Dec 2025	Animal Life	
S6	17 Dec 2025	Floatables	
S6	17 Dec 2025	Current Direction	S
S6	17 Dec 2025	Water Temp (C)	16.8
S6	17 Dec 2025	High Tide Time	643
S6	17 Dec 2025	Low Tide Time	23
S6	17 Dec 2025	Comments	Water clear; Surfer/Paddle boarder-3; Trash-4; Kelp;Sea-grass;Algae;Debris; Sewage-like odor
S6	23 Dec 2025	Arrive Time	1024
S6	23 Dec 2025	Wind Speed (kts)	4.2
S6	23 Dec 2025	Wind Dir	E
S6	23 Dec 2025	Animal Life	
S6	23 Dec 2025	Floatables	
S6	23 Dec 2025	Current Direction	S
S6	23 Dec 2025	Water Temp (C)	15
S6	23 Dec 2025	High Tide Time	957
S6	23 Dec 2025	Low Tide Time	352
S6	23 Dec 2025	Comments	Water clear; Boogie boarder/Swimmer-1; Trash-3; Kelp;Sea-grass;Algae;Debris; Sewage-like odor
S6	29 Dec 2025	Arrive Time	1240
S6	29 Dec 2025	Wind Speed (kts)	3.6
S6	29 Dec 2025	Wind Dir	W
S6	29 Dec 2025	Animal Life	
S6	29 Dec 2025	Floatables	
S6	29 Dec 2025	Current Direction	S
S6	29 Dec 2025	Water Temp (C)	15.7
S6	29 Dec 2025	High Tide Time	410
S6	29 Dec 2025	Low Tide Time	1134
S6	29 Dec 2025	Comments	Water clear; Trash-2; Algae;Debris
S12	02 Dec 2025	Arrive Time	818
S12	02 Dec 2025	Wind Speed (kts)	1.9
S12	02 Dec 2025	Wind Dir	W
S12	02 Dec 2025	Animal Life	
S12	02 Dec 2025	Floatables	
S12	02 Dec 2025	Current Direction	S
S12	02 Dec 2025	Water Temp (C)	14.7
S12	02 Dec 2025	High Tide Time	610
S12	02 Dec 2025	Low Tide Time	1321
S12	02 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
S12	09 Dec 2025	Arrive Time	816
S12	09 Dec 2025	Wind Speed (kts)	3.2
S12	09 Dec 2025	Wind Dir	W
S12	09 Dec 2025	Animal Life	
S12	09 Dec 2025	Floatables	
S12	09 Dec 2025	Current Direction	S
S12	09 Dec 2025	Water Temp (C)	12.1
S12	09 Dec 2025	High Tide Time	103
S12	09 Dec 2025	Low Tide Time	545
S12	09 Dec 2025	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-5
S12	15 Dec 2025	Arrive Time	1018
S12	15 Dec 2025	Wind Speed (kts)	3.6
S12	15 Dec 2025	Wind Dir	W

Station	Date	Parameter	Value
S12	15 Dec 2025	Animal Life	
S12	15 Dec 2025	Floatables	
S12	15 Dec 2025	Current Direction	S
S12	15 Dec 2025	Water Temp (C)	16.2
S12	15 Dec 2025	High Tide Time	543
S12	15 Dec 2025	Low Tide Time	1304
S12	15 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S12	17 Dec 2025	Arrive Time	845
S12	17 Dec 2025	Wind Speed (kts)	0
S12	17 Dec 2025	Wind Dir	XX
S12	17 Dec 2025	Animal Life	
S12	17 Dec 2025	Floatables	
S12	17 Dec 2025	Current Direction	S
S12	17 Dec 2025	Water Temp (C)	15.1
S12	17 Dec 2025	High Tide Time	643
S12	17 Dec 2025	Low Tide Time	23
S12	17 Dec 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S12	23 Dec 2025	Arrive Time	900
S12	23 Dec 2025	Wind Speed (kts)	4.6
S12	23 Dec 2025	Wind Dir	E
S12	23 Dec 2025	Animal Life	
S12	23 Dec 2025	Floatables	
S12	23 Dec 2025	Current Direction	S
S12	23 Dec 2025	Water Temp (C)	15.5
S12	23 Dec 2025	High Tide Time	957
S12	23 Dec 2025	Low Tide Time	352
S12	23 Dec 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris;Algae
S12	29 Dec 2025	Arrive Time	1044
S12	29 Dec 2025	Wind Speed (kts)	2.9
S12	29 Dec 2025	Wind Dir	W
S12	29 Dec 2025	Animal Life	
S12	29 Dec 2025	Floatables	
S12	29 Dec 2025	Current Direction	S
S12	29 Dec 2025	Water Temp (C)	14.3
S12	29 Dec 2025	High Tide Time	410
S12	29 Dec 2025	Low Tide Time	1134
S12	29 Dec 2025	Comments	Water clear; Trash-3; Kelp;Debris; Sewage-like odor
S8	02 Dec 2025	Arrive Time	748
S8	02 Dec 2025	Wind Speed (kts)	3.1
S8	02 Dec 2025	Wind Dir	NW
S8	02 Dec 2025	Animal Life	
S8	02 Dec 2025	Floatables	
S8	02 Dec 2025	Current Direction	S
S8	02 Dec 2025	Water Temp (C)	14.3
S8	02 Dec 2025	High Tide Time	610
S8	02 Dec 2025	Low Tide Time	1321
S8	02 Dec 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S8	09 Dec 2025	Arrive Time	756
S8	09 Dec 2025	Wind Speed (kts)	0
S8	09 Dec 2025	Wind Dir	XX
S8	09 Dec 2025	Animal Life	
S8	09 Dec 2025	Floatables	
S8	09 Dec 2025	Current Direction	S
S8	09 Dec 2025	Water Temp (C)	12
S8	09 Dec 2025	High Tide Time	103

Station	Date	Parameter	Value
S8	09 Dec 2025	Low Tide Time	545
S8	09 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S8	15 Dec 2025	Arrive Time	1040
S8	15 Dec 2025	Wind Speed (kts)	2.9
S8	15 Dec 2025	Wind Dir	NW
S8	15 Dec 2025	Animal Life	
S8	15 Dec 2025	Floatables	
S8	15 Dec 2025	Current Direction	S
S8	15 Dec 2025	Water Temp (C)	16.8
S8	15 Dec 2025	High Tide Time	543
S8	15 Dec 2025	Low Tide Time	1304
S8	15 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
S8	17 Dec 2025	Arrive Time	825
S8	17 Dec 2025	Wind Speed (kts)	1.5
S8	17 Dec 2025	Wind Dir	SW
S8	17 Dec 2025	Animal Life	
S8	17 Dec 2025	Floatables	
S8	17 Dec 2025	Current Direction	S
S8	17 Dec 2025	Water Temp (C)	15.5
S8	17 Dec 2025	High Tide Time	643
S8	17 Dec 2025	Low Tide Time	23
S8	17 Dec 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris
S8	23 Dec 2025	Arrive Time	833
S8	23 Dec 2025	Wind Speed (kts)	7.1
S8	23 Dec 2025	Wind Dir	SE
S8	23 Dec 2025	Animal Life	
S8	23 Dec 2025	Floatables	
S8	23 Dec 2025	Current Direction	S
S8	23 Dec 2025	Water Temp (C)	15.8
S8	23 Dec 2025	High Tide Time	957
S8	23 Dec 2025	Low Tide Time	352
S8	23 Dec 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-5
S8	29 Dec 2025	Arrive Time	1024
S8	29 Dec 2025	Wind Speed (kts)	1.5
S8	29 Dec 2025	Wind Dir	SW
S8	29 Dec 2025	Animal Life	
S8	29 Dec 2025	Floatables	
S8	29 Dec 2025	Current Direction	S
S8	29 Dec 2025	Water Temp (C)	13.9
S8	29 Dec 2025	High Tide Time	410
S8	29 Dec 2025	Low Tide Time	1134
S8	29 Dec 2025	Comments	Water clear; Trash-2; Debris; Person/Walker/Jogger-2; Sewage-like odor
S9	02 Dec 2025	Arrive Time	731
S9	02 Dec 2025	Wind Speed (kts)	2.9
S9	02 Dec 2025	Wind Dir	NW
S9	02 Dec 2025	Animal Life	
S9	02 Dec 2025	Floatables	
S9	02 Dec 2025	Current Direction	S
S9	02 Dec 2025	Water Temp (C)	14.5
S9	02 Dec 2025	High Tide Time	610
S9	02 Dec 2025	Low Tide Time	1321
S9	02 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass

Station	Date	Parameter	Value
S9	09 Dec 2025	Arrive Time	734
S9	09 Dec 2025	Wind Speed (kts)	0
S9	09 Dec 2025	Wind Dir	XX
S9	09 Dec 2025	Animal Life	
S9	09 Dec 2025	Floatables	
S9	09 Dec 2025	Current Direction	S
S9	09 Dec 2025	Water Temp (C)	13.1
S9	09 Dec 2025	High Tide Time	103
S9	09 Dec 2025	Low Tide Time	545
S9	09 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-3
S9	15 Dec 2025	Arrive Time	1100
S9	15 Dec 2025	Wind Speed (kts)	3.8
S9	15 Dec 2025	Wind Dir	NW
S9	15 Dec 2025	Animal Life	
S9	15 Dec 2025	Floatables	
S9	15 Dec 2025	Current Direction	S
S9	15 Dec 2025	Water Temp (C)	16
S9	15 Dec 2025	High Tide Time	543
S9	15 Dec 2025	Low Tide Time	1304
S9	15 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
S9	17 Dec 2025	Arrive Time	806
S9	17 Dec 2025	Wind Speed (kts)	0
S9	17 Dec 2025	Wind Dir	XX
S9	17 Dec 2025	Animal Life	
S9	17 Dec 2025	Floatables	
S9	17 Dec 2025	Current Direction	S
S9	17 Dec 2025	Water Temp (C)	14.3
S9	17 Dec 2025	High Tide Time	643
S9	17 Dec 2025	Low Tide Time	23
S9	17 Dec 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae
S9	23 Dec 2025	Arrive Time	810
S9	23 Dec 2025	Wind Speed (kts)	2.5
S9	23 Dec 2025	Wind Dir	SE
S9	23 Dec 2025	Animal Life	
S9	23 Dec 2025	Floatables	
S9	23 Dec 2025	Current Direction	S
S9	23 Dec 2025	Water Temp (C)	15.4
S9	23 Dec 2025	High Tide Time	957
S9	23 Dec 2025	Low Tide Time	352
S9	23 Dec 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S9	29 Dec 2025	Arrive Time	1005
S9	29 Dec 2025	Wind Speed (kts)	2.1
S9	29 Dec 2025	Wind Dir	SW
S9	29 Dec 2025	Animal Life	Bird-4;
S9	29 Dec 2025	Floatables	
S9	29 Dec 2025	Current Direction	S
S9	29 Dec 2025	Water Temp (C)	14.4
S9	29 Dec 2025	High Tide Time	410
S9	29 Dec 2025	Low Tide Time	1134
S9	29 Dec 2025	Comments	Water clear; Surfer/Paddle boarder-3; Trash-2; Kelp;Sea-grass;Debris; Sewage-like odor

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 Dec 2025	*109	*11	*9	*14	*33	*10	*30
02 Dec 2025	85	25	19	25	20	20	90
03 Dec 2025	*192	*42	*33	*47	*35	*37	*233
04 Dec 2025	*192	*42	*33	*47	*35	*37	*233
05 Dec 2025	*192	*42	*33	*47	*35	*37	*233
06 Dec 2025	*192	*42	*33	*47	*35	*37	*233
07 Dec 2025	*192	*42	*33	*47	*35	*37	*233
08 Dec 2025	156	58	49	40	45	20	223
09 Dec 2025	156	58	49	40	45	20	223
10 Dec 2025	*251	*134	*108	*85	*97	*37	*725
11 Dec 2025	*251	*134	*108	*85	*97	*37	*725
12 Dec 2025	*251	*134	*108	*85	*97	*37	*725
13 Dec 2025	*251	*134	*108	*85	*97	*37	*725
14 Dec 2025	*251	*134	*108	*85	*97	*37	*725
15 Dec 2025	130	69	49	40	45	20	820
16 Dec 2025	130	69	49	40	45	20	820
17 Dec 2025	*76	*52	*36	*16	*15	*8	*990
18 Dec 2025	*76	*52	*36	*16	*15	*8	*990
19 Dec 2025	*76	*52	*36	*16	*15	*8	*990
20 Dec 2025	*76	*52	*36	*16	*15	*8	*990
21 Dec 2025	*76	*52	*36	*16	*15	*8	*990
22 Dec 2025	*76	*52	*36	*16	*15	*8	*990
23 Dec 2025	103	91	31	25	10	6	1175
24 Dec 2025	103	91	31	25	10	6	1175
25 Dec 2025	*51	*152	*43	*35	*6	*7	*1455
26 Dec 2025	*51	*152	*43	*35	*6	*7	*1455
27 Dec 2025	*51	*152	*43	*35	*6	*7	*1455
28 Dec 2025	*51	*152	*43	*35	*6	*7	*1455
29 Dec 2025	116	83	25	20	5	5	2219
30 Dec 2025	116	83	25	20	5	5	2219
31 Dec 2025	116	83	25	20	5	5	2219

* 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 Dec 2025	IC	E	E	E	IC	E	E
08 Dec 2025	IC	E	IC	IC	IC	IC	E
15 Dec 2025	IC	IC	IC	IC	IC	IC	E
23 Dec 2025	E	E	IC	IC	IC	IC	E
29 Dec 2025	E	IC	IC	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Dec 2025	19	5	7	8	9	9	12
02 Dec 2025	32	10	9	10	7	9	31
03 Dec 2025	32	10	9	10	7	9	31
04 Dec 2025	32	10	9	10	7	9	31
05 Dec 2025	32	10	9	10	7	9	31
06 Dec 2025	32	10	9	10	7	9	31
07 Dec 2025	32	10	9	10	7	9	31
08 Dec 2025	44	16	17	15	15	9	55
09 Dec 2025	44	16	17	15	15	9	55
10 Dec 2025	44	16	17	15	15	9	55
11 Dec 2025	44	16	17	15	15	9	55
12 Dec 2025	44	16	17	15	15	9	55
13 Dec 2025	44	16	17	15	15	9	55
14 Dec 2025	44	16	17	15	15	9	55
15 Dec 2025	48	16	17	15	19	8	145
16 Dec 2025	48	16	17	15	19	8	145
17 Dec 2025	48	16	17	15	19	8	145
18 Dec 2025	48	16	17	15	19	8	145
19 Dec 2025	48	16	17	15	19	8	145
20 Dec 2025	48	16	17	15	19	8	145
21 Dec 2025	48	16	17	15	19	8	145
22 Dec 2025	66	25	25	22	29	10	323
23 Dec 2025	97	42	24	29	19	8	391
24 Dec 2025	97	42	24	29	19	8	391
25 Dec 2025	97	42	24	29	19	8	391
26 Dec 2025	97	42	24	29	19	8	391
27 Dec 2025	97	42	24	29	19	8	391
28 Dec 2025	97	42	24	29	19	8	391
29 Dec 2025	77	22	10	11	8	4	526
30 Dec 2025	77	22	10	11	8	4	526
31 Dec 2025	77	22	10	11	8	4	526

* Geometric mean calculated using n<5

Table 3.4

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

Date	I19	I24	I25	I26	I32	I39	I40
December	E	E	IC	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	119		124		125		126		132		139		140								
	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	12m	18m	2m	6m	9m					
01 Dec 2025	*2011	*1420	*4900	*23	*57	*80	*9	*42	*54	*4	*23	*18	*61	*490	*2	*10	*17	*60	*1810		
02 Dec 2025	22	40	400	34	74	140	16	82	88	6	44	32	20	80	2	2	14	80	3600		
03 Dec 2025	*2010	*1420	*4900	*617	*1737	*570	*508	*591	*1044	*403	*292	*1816	*47	*70	*480	*1801	*247	*480	*3200		
04 Dec 2025	*2010	*1420	*4900	*617	*1737	*570	*508	*591	*1044	*403	*292	*1816	*47	*70	*480	*1801	*247	*480	*3200		
05 Dec 2025	*2010	*1420	*4900	*617	*1737	*570	*508	*591	*1044	*403	*292	*1816	*47	*70	*480	*1801	*247	*480	*3200		
06 Dec 2025	*2010	*1420	*4900	*617	*1737	*570	*508	*591	*1044	*403	*292	*1816	*47	*70	*480	*1801	*247	*480	*3200		
07 Dec 2025	*2010	*1420	*4900	*617	*1737	*570	*508	*591	*1044	*403	*292	*1816	*47	*70	*480	*1801	*247	*480	*3200		
08 Dec 2025	20	40	760	1200	380	180	1000	1100	1500	6	220	180	120	740	2	14	20	440	3600		
09 Dec 2025	20	40	760	1200	380	180	1000	1100	1500	6	220	180	120	740	2	14	20	440	3600		
10 Dec 2025	*2010	*1417	*5080	*1250	*1890	*590	*1100	*1250	*1750	*403	*380	*1890	*100	*760	*820	*1801	*244	*480	*3200		
11 Dec 2025	*2010	*1417	*5080	*1250	*1890	*590	*1100	*1250	*1750	*403	*380	*1890	*100	*760	*820	*1801	*244	*480	*3200		
12 Dec 2025	*2010	*1417	*5080	*1250	*1890	*590	*1100	*1250	*1750	*403	*380	*1890	*100	*760	*820	*1801	*244	*480	*3200		
13 Dec 2025	*2010	*1417	*5080	*1250	*1890	*590	*1100	*1250	*1750	*403	*380	*1890	*100	*760	*820	*1801	*244	*480	*3200		
14 Dec 2025	*2010	*1417	*5080	*1250	*1890	*590	*1100	*1250	*1750	*403	*380	*1890	*100	*760	*820	*1801	*244	*480	*3200		
15 Dec 2025	180	80	760	1200	380	180	1000	1100	1500	6	220	180	120	740	2	8	20	2800	3600		
16 Dec 2025	180	80	760	1200	380	180	1000	1100	1500	6	220	180	120	740	2	8	20	2800	3600		
17 Dec 2025	*100	*57	*520	*617	*227	*160	*608	*591	*794	*5	*132	*106	*47	*70	*400	*2	*7	*13	*5020	*3300	
18 Dec 2025	*100	*57	*520	*617	*227	*160	*608	*591	*794	*5	*132	*106	*47	*70	*400	*2	*7	*13	*5020	*3300	
19 Dec 2025	*100	*57	*520	*617	*227	*160	*608	*591	*794	*5	*132	*106	*47	*70	*400	*2	*7	*13	*5020	*3300	
20 Dec 2025	*100	*57	*520	*617	*227	*160	*608	*591	*794	*5	*132	*106	*47	*70	*400	*2	*7	*13	*5020	*3300	
21 Dec 2025	*100	*57	*520	*617	*227	*160	*608	*591	*794	*5	*132	*106	*47	*70	*400	*2	*7	*13	*5020	*3300	
22 Dec 2025	*100	*57	*520	*617	*227	*160	*608	*591	*794	*5	*132	*106	*47	*70	*400	*2	*7	*13	*5020	*3300	
23 Dec 2025	180	80	280	1200	380	180	160	82	88	6	100	32	20	60	2	6	6	9600	5200	4400	
24 Dec 2025	180	80	280	1200	380	180	160	82	88	6	100	32	20	60	2	6	6	9600	5200	4400	
25 Dec 2025	*100	*57	*160	*1400	*1490	*250	*680	*590	*752	*402	*160	*92	*31	*11	*31	*2	*5	*4	*9600	*5000	*4600
26 Dec 2025	*100	*57	*160	*1400	*1490	*250	*680	*590	*752	*402	*160	*92	*31	*11	*31	*2	*5	*4	*9600	*5000	*4600
27 Dec 2025	*100	*57	*160	*1400	*1490	*250	*680	*590	*752	*402	*160	*92	*31	*11	*31	*2	*5	*4	*9600	*5000	*4600
28 Dec 2025	*100	*57	*160	*1400	*1490	*250	*680	*590	*752	*402	*160	*92	*31	*11	*31	*2	*5	*4	*9600	*5000	*4600
29 Dec 2025	180	80	280	1200	380	180	160	80	6	4	100	4	2	20	16	2	2	2	9600	8600	7800
30 Dec 2025	180	80	280	1200	380	180	160	80	6	4	100	4	2	20	16	2	2	2	9600	8600	7800
31 Dec 2025	180	80	280	1200	380	180	160	80	6	4	100	4	2	20	16	2	2	2	9600	8600	7800

* 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
December	E	E	E	E	E	E	E	E	E	E	E	E	IC	E	E	E	E	E	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

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

Station	Date	Time	Depth	Total	Fecal	Entero
I19	02 Dec 2025	1012	2	20e	6e	10e
I19	02 Dec 2025	1012	6	34e	6e	10e
I19	02 Dec 2025	1012	11	280e	86	110
I19	08 Dec 2025	1046	2	<2	<2	<2
I19	08 Dec 2025	1046	6	<2	<2	<2
I19	08 Dec 2025	1046	11	760	200e	36e
I19	15 Dec 2025	1209	2	180e	12e	20e
I19	15 Dec 2025	1209	6	80e	14e	18e
I19	15 Dec 2025	1209	11	40e	2e	2e
I19	23 Dec 2025	1028	2	2600e	600	1400e
I19	23 Dec 2025	1028	6	2200e	400	620
I19	23 Dec 2025	1028	11	6e	8e	4e
I19	29 Dec 2025	1051	2	6600	1100	92
I19	29 Dec 2025	1051	6	>16000	2000e	380e
I19	29 Dec 2025	1051	11	>16000	5800	620
I24	02 Dec 2025	1033	2	1200e	180e	120e
I24	02 Dec 2025	1033	6	3600e	720	260e
I24	02 Dec 2025	1033	11	5400	900	480
I24	08 Dec 2025	1107	2	1600	540	80e
I24	08 Dec 2025	1107	6	380e	58	16e
I24	08 Dec 2025	1107	11	180e	36e	6e
I24	15 Dec 2025	1241	2	20e	10e	<2
I24	15 Dec 2025	1241	6	<2	<2	<2
I24	15 Dec 2025	1241	11	<2	2e	<2
I24	23 Dec 2025	1044	2	6400	2000e	1200e
I24	23 Dec 2025	1044	6	2600e	600	460
I24	23 Dec 2025	1044	11	320e	80e	58
I24	29 Dec 2025	1119	2	16e	<2	<2
I24	29 Dec 2025	1119	6	6e	<2	<2
I24	29 Dec 2025	1119	11	140e	18e	10e
I25	02 Dec 2025	1040	2	1200e	240e	80e
I25	02 Dec 2025	1040	6	1100	220e	100
I25	02 Dec 2025	1040	9	2800e	660	300e
I25	08 Dec 2025	1113	2	1200	200e	60e
I25	08 Dec 2025	1113	6	1400e	340e	40e
I25	08 Dec 2025	1113	9	1500	200e	82
I25	15 Dec 2025	1250	2	<2	<2	<2
I25	15 Dec 2025	1250	6	<2	<2	<2
I25	15 Dec 2025	1250	9	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
I25	23 Dec 2025	1049	2	160e	30e	22e
I25	23 Dec 2025	1049	6	80e	26e	26e
I25	23 Dec 2025	1049	9	4e	<2	<2
I25	29 Dec 2025	1125	2	40e	4e	<2
I25	29 Dec 2025	1125	6	2e	<2	2e
I25	29 Dec 2025	1125	9	6e	<2	<2
I26	02 Dec 2025	1052	2	800	40e	90
I26	02 Dec 2025	1052	6	540	58	70
I26	02 Dec 2025	1052	9	3600e	620	200e
I26	08 Dec 2025	1122	2	4e	<2	2e
I26	08 Dec 2025	1122	6	220e	30e	18e
I26	08 Dec 2025	1122	9	180e	34e	34e
I26	15 Dec 2025	1301	2	<2	<2	<2
I26	15 Dec 2025	1301	6	<2	<2	<2
I26	15 Dec 2025	1301	9	4e	2e	<2
I26	23 Dec 2025	1058	2	2200e	380e	280e
I26	23 Dec 2025	1058	6	100e	38e	34e
I26	23 Dec 2025	1058	9	2e	<2	<2
I26	29 Dec 2025	1137	2	<2	<2	<2
I26	29 Dec 2025	1137	6	4e	<2	<2
I26	29 Dec 2025	1137	9	2e	<2	<2
I32	02 Dec 2025	1104	2	60e	2e	8e
I32	02 Dec 2025	1104	6	20e	4e	12e
I32	02 Dec 2025	1104	9	60e	2e	8e
I32	08 Dec 2025	1135	2	140e	12e	60
I32	08 Dec 2025	1135	6	1400e	280e	340e
I32	08 Dec 2025	1135	9	740	60e	88
I32	15 Dec 2025	1313	2	<2	<2	<2
I32	15 Dec 2025	1313	6	2e	<2	<2
I32	15 Dec 2025	1313	9	<2	<2	<20
I32	23 Dec 2025	1110	2	2e	2e	<2
I32	23 Dec 2025	1110	6	2e	2e	<2
I32	23 Dec 2025	1110	9	<2	<2	<2
I32	29 Dec 2025	1149	2	2e	<2	<2
I32	29 Dec 2025	1149	6	<20	2e	4e
I32	29 Dec 2025	1149	9	16e	6e	4e
I39	02 Dec 2025	949	2	3600e	440	340e
I39	02 Dec 2025	949	12	480	100	64
I39	02 Dec 2025	949	18	940	380e	98
I39	08 Dec 2025	1026	2	<2	<2	<2
I39	08 Dec 2025	1026	12	8e	2e	<2
I39	08 Dec 2025	1026	18	6e	2e	<2
I39	15 Dec 2025	1047	2	<2	<2	<2
I39	15 Dec 2025	1047	12	<2	<2	<2
I39	15 Dec 2025	1047	18	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
I39	23 Dec 2025	1003	2	<2	<2	<2
I39	23 Dec 2025	1003	12	<2	<2	<2
I39	23 Dec 2025	1003	18	<2	<2	<2
I39	29 Dec 2025	1030	2	<2	<2	<2
I39	29 Dec 2025	1030	12	<2	<2	<2
I39	29 Dec 2025	1030	18	<2	<2	<2
I40	02 Dec 2025	1024	2	>16000	8400	4400
I40	02 Dec 2025	1024	6	>16000	7200	2800e
I40	02 Dec 2025	1024	9	>16000	7400	3600e
I40	08 Dec 2025	1059	2	440	420	80e
I40	08 Dec 2025	1059	6	580	80e	72
I40	08 Dec 2025	1059	9	1400	58	38e
I40	15 Dec 2025	1227	2	9600	3400e	2400e
I40	15 Dec 2025	1227	6	1400	440	240e
I40	15 Dec 2025	1227	9	600	200e	58
I40	23 Dec 2025	1038	2	9600	1200e	1400e
I40	23 Dec 2025	1038	6	8600	3400e	860
I40	23 Dec 2025	1038	9	7800	2400e	800e
I40	29 Dec 2025	1104	2	>16000	>12000	2800e
I40	29 Dec 2025	1104	6	>16000	>12000	1400e
I40	29 Dec 2025	1104	9	>16000	>12000	3400e

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 Dec 2025	Arrive Time	1012
I19	02 Dec 2025	Depart Time	1024
I19	02 Dec 2025	Air Temp (C)	16.4
I19	02 Dec 2025	Visibility (mi)	6
I19	02 Dec 2025	Wind Speed (kts)	1
I19	02 Dec 2025	Wind Dir	SE
I19	02 Dec 2025	Sea State	Calm
I19	02 Dec 2025	High Tide Time	612
I19	02 Dec 2025	Low Tide Time	1312
I19	02 Dec 2025	Comments	surface sample taken on upcast due to delayed firing on down-cast.
I19	08 Dec 2025	Arrive Time	1046
I19	08 Dec 2025	Depart Time	1051
I19	08 Dec 2025	Air Temp (C)	17.7
I19	08 Dec 2025	Visibility (mi)	10
I19	08 Dec 2025	Wind Speed (kts)	3.6
I19	08 Dec 2025	Wind Dir	N
I19	08 Dec 2025	Sea State	Calm
I19	08 Dec 2025	High Tide Time	1048
I19	08 Dec 2025	Low Tide Time	1818
I19	08 Dec 2025	Comments	
I19	15 Dec 2025	Arrive Time	1209
I19	15 Dec 2025	Depart Time	1219
I19	15 Dec 2025	Air Temp (C)	14.7
I19	15 Dec 2025	Visibility (mi)	7
I19	15 Dec 2025	Wind Speed (kts)	4.2
I19	15 Dec 2025	Wind Dir	NW
I19	15 Dec 2025	Sea State	Wind Ripples
I19	15 Dec 2025	High Tide Time	548
I19	15 Dec 2025	Low Tide Time	1300
I19	15 Dec 2025	Comments	floating log on station; Nis 1 2m failed to close completely; resampled in separate cast I19_2; Sewage-like Odor
I19	23 Dec 2025	Arrive Time	1028
I19	23 Dec 2025	Depart Time	1031
I19	23 Dec 2025	Air Temp (C)	15.8
I19	23 Dec 2025	Visibility (mi)	6
I19	23 Dec 2025	Wind Speed (kts)	4.2
I19	23 Dec 2025	Wind Dir	NE
I19	23 Dec 2025	Sea State	Confused Swell
I19	23 Dec 2025	High Tide Time	1000
I19	23 Dec 2025	Low Tide Time	1730
I19	23 Dec 2025	Comments	
I19	29 Dec 2025	Arrive Time	1051
I19	29 Dec 2025	Depart Time	1055
I19	29 Dec 2025	Air Temp (C)	16.9
I19	29 Dec 2025	Visibility (mi)	8
I19	29 Dec 2025	Wind Speed (kts)	3.7
I19	29 Dec 2025	Wind Dir	N
I19	29 Dec 2025	Sea State	Calm
I19	29 Dec 2025	High Tide Time	412
I19	29 Dec 2025	Low Tide Time	1124
I19	29 Dec 2025	Comments	Low tide preventing 11th depth bin.

Station	Date	Parameter	Value
I40	02 Dec 2025	Arrive Time	1024
I40	02 Dec 2025	Depart Time	1029
I40	02 Dec 2025	Air Temp (C)	16.5
I40	02 Dec 2025	Visibility (mi)	6
I40	02 Dec 2025	Wind Speed (kts)	0.3
I40	02 Dec 2025	Wind Dir	N
I40	02 Dec 2025	Sea State	Calm
I40	02 Dec 2025	High Tide Time	612
I40	02 Dec 2025	Low Tide Time	1312
I40	02 Dec 2025	Comments	Birds
I40	08 Dec 2025	Arrive Time	1059
I40	08 Dec 2025	Depart Time	1103
I40	08 Dec 2025	Air Temp (C)	18.1
I40	08 Dec 2025	Visibility (mi)	10
I40	08 Dec 2025	Wind Speed (kts)	2.8
I40	08 Dec 2025	Wind Dir	N
I40	08 Dec 2025	Sea State	Calm
I40	08 Dec 2025	High Tide Time	1048
I40	08 Dec 2025	Low Tide Time	1818
I40	08 Dec 2025	Comments	
I40	15 Dec 2025	Arrive Time	1227
I40	15 Dec 2025	Depart Time	1237
I40	15 Dec 2025	Air Temp (C)	14.5
I40	15 Dec 2025	Visibility (mi)	7
I40	15 Dec 2025	Wind Speed (kts)	4.2
I40	15 Dec 2025	Wind Dir	W
I40	15 Dec 2025	Sea State	Wind Ripples
I40	15 Dec 2025	High Tide Time	548
I40	15 Dec 2025	Low Tide Time	1300
I40	15 Dec 2025	Comments	Sewage-like Odor; Freshwater Lens
I40	23 Dec 2025	Arrive Time	1038
I40	23 Dec 2025	Depart Time	1040
I40	23 Dec 2025	Air Temp (C)	16.6
I40	23 Dec 2025	Visibility (mi)	6
I40	23 Dec 2025	Wind Speed (kts)	4.2
I40	23 Dec 2025	Wind Dir	NE
I40	23 Dec 2025	Sea State	Confused Swell
I40	23 Dec 2025	High Tide Time	1000
I40	23 Dec 2025	Low Tide Time	1730
I40	23 Dec 2025	Comments	
I40	29 Dec 2025	Arrive Time	1104
I40	29 Dec 2025	Depart Time	1110
I40	29 Dec 2025	Air Temp (C)	17
I40	29 Dec 2025	Visibility (mi)	8
I40	29 Dec 2025	Wind Speed (kts)	3.7
I40	29 Dec 2025	Wind Dir	NW
I40	29 Dec 2025	Sea State	Calm
I40	29 Dec 2025	High Tide Time	412
I40	29 Dec 2025	Low Tide Time	1124
I40	29 Dec 2025	Comments	low salinity at surface; Sewage-like Odor
I24	02 Dec 2025	Arrive Time	1033
I24	02 Dec 2025	Depart Time	1038
I24	02 Dec 2025	Air Temp (C)	16.2
I24	02 Dec 2025	Visibility (mi)	6
I24	02 Dec 2025	Wind Speed (kts)	0

Station	Date	Parameter	Value
I24	02 Dec 2025	Wind Dir	N
I24	02 Dec 2025	Sea State	Calm
I24	02 Dec 2025	High Tide Time	612
I24	02 Dec 2025	Low Tide Time	1312
I24	02 Dec 2025	Comments	
I24	08 Dec 2025	Arrive Time	1107
I24	08 Dec 2025	Depart Time	1109
I24	08 Dec 2025	Air Temp (C)	18.4
I24	08 Dec 2025	Visibility (mi)	10
I24	08 Dec 2025	Wind Speed (kts)	1.6
I24	08 Dec 2025	Wind Dir	NW
I24	08 Dec 2025	Sea State	Calm
I24	08 Dec 2025	High Tide Time	1048
I24	08 Dec 2025	Low Tide Time	1818
I24	08 Dec 2025	Comments	
I24	15 Dec 2025	Arrive Time	1241
I24	15 Dec 2025	Depart Time	1246
I24	15 Dec 2025	Air Temp (C)	14.9
I24	15 Dec 2025	Visibility (mi)	7
I24	15 Dec 2025	Wind Speed (kts)	2.6
I24	15 Dec 2025	Wind Dir	W
I24	15 Dec 2025	Sea State	Wind Ripples
I24	15 Dec 2025	High Tide Time	548
I24	15 Dec 2025	Low Tide Time	1300
I24	15 Dec 2025	Comments	
I24	23 Dec 2025	Arrive Time	1044
I24	23 Dec 2025	Depart Time	1047
I24	23 Dec 2025	Air Temp (C)	16.8
I24	23 Dec 2025	Visibility (mi)	6
I24	23 Dec 2025	Wind Speed (kts)	4.8
I24	23 Dec 2025	Wind Dir	SE
I24	23 Dec 2025	Sea State	Confused Swell
I24	23 Dec 2025	High Tide Time	1000
I24	23 Dec 2025	Low Tide Time	1730
I24	23 Dec 2025	Comments	
I24	29 Dec 2025	Arrive Time	1119
I24	29 Dec 2025	Depart Time	1124
I24	29 Dec 2025	Air Temp (C)	17
I24	29 Dec 2025	Visibility (mi)	8
I24	29 Dec 2025	Wind Speed (kts)	3.3
I24	29 Dec 2025	Wind Dir	N
I24	29 Dec 2025	Sea State	Calm
I24	29 Dec 2025	High Tide Time	412
I24	29 Dec 2025	Low Tide Time	1124
I24	29 Dec 2025	Comments	
I25	02 Dec 2025	Arrive Time	1040
I25	02 Dec 2025	Depart Time	1044
I25	02 Dec 2025	Air Temp (C)	16.1
I25	02 Dec 2025	Visibility (mi)	6
I25	02 Dec 2025	Wind Speed (kts)	1.2
I25	02 Dec 2025	Wind Dir	N
I25	02 Dec 2025	Sea State	Calm
I25	02 Dec 2025	High Tide Time	612
I25	02 Dec 2025	Low Tide Time	1312
I25	02 Dec 2025	Comments	cnv file has reading to 8.7m. 9m bin should show up in 16Hz.

Station	Date	Parameter	Value
I25	08 Dec 2025	Arrive Time	1113
I25	08 Dec 2025	Depart Time	1116
I25	08 Dec 2025	Air Temp (C)	18.9
I25	08 Dec 2025	Visibility (mi)	10
I25	08 Dec 2025	Wind Speed (kts)	1.8
I25	08 Dec 2025	Wind Dir	NW
I25	08 Dec 2025	Sea State	Calm
I25	08 Dec 2025	High Tide Time	1048
I25	08 Dec 2025	Low Tide Time	1818
I25	08 Dec 2025	Comments	
I25	15 Dec 2025	Arrive Time	1250
I25	15 Dec 2025	Depart Time	1255
I25	15 Dec 2025	Air Temp (C)	14.9
I25	15 Dec 2025	Visibility (mi)	7
I25	15 Dec 2025	Wind Speed (kts)	5.2
I25	15 Dec 2025	Wind Dir	W
I25	15 Dec 2025	Sea State	Wind Ripples
I25	15 Dec 2025	High Tide Time	548
I25	15 Dec 2025	Low Tide Time	1300
I25	15 Dec 2025	Comments	
I25	23 Dec 2025	Arrive Time	1049
I25	23 Dec 2025	Depart Time	1053
I25	23 Dec 2025	Air Temp (C)	16.8
I25	23 Dec 2025	Visibility (mi)	6
I25	23 Dec 2025	Wind Speed (kts)	3.2
I25	23 Dec 2025	Wind Dir	E
I25	23 Dec 2025	Sea State	Confused Swell
I25	23 Dec 2025	High Tide Time	1000
I25	23 Dec 2025	Low Tide Time	1730
I25	23 Dec 2025	Comments	Sewage odor at this station
I25	29 Dec 2025	Arrive Time	1125
I25	29 Dec 2025	Depart Time	1134
I25	29 Dec 2025	Air Temp (C)	17
I25	29 Dec 2025	Visibility (mi)	8
I25	29 Dec 2025	Wind Speed (kts)	3.3
I25	29 Dec 2025	Wind Dir	N
I25	29 Dec 2025	Sea State	Calm
I25	29 Dec 2025	High Tide Time	412
I25	29 Dec 2025	Low Tide Time	1124
I25	29 Dec 2025	Comments	Struggling to get 9th bin due to very low tide. Some data may be recoverable but flagged in cnv.
I39	02 Dec 2025	Arrive Time	949
I39	02 Dec 2025	Depart Time	1001
I39	02 Dec 2025	Air Temp (C)	15.5
I39	02 Dec 2025	Visibility (mi)	6
I39	02 Dec 2025	Wind Speed (kts)	0
I39	02 Dec 2025	Wind Dir	N
I39	02 Dec 2025	Sea State	Calm
I39	02 Dec 2025	High Tide Time	612
I39	02 Dec 2025	Low Tide Time	1312
I39	02 Dec 2025	Comments	Recast due to O2 pH disagreement. Use 2nd cast.
I39	08 Dec 2025	Arrive Time	1026
I39	08 Dec 2025	Depart Time	1030
I39	08 Dec 2025	Air Temp (C)	17.9
I39	08 Dec 2025	Visibility (mi)	10
I39	08 Dec 2025	Wind Speed (kts)	3.7

Station	Date	Parameter	Value
I39	08 Dec 2025	Wind Dir	N
I39	08 Dec 2025	Sea State	Calm
I39	08 Dec 2025	High Tide Time	1048
I39	08 Dec 2025	Low Tide Time	1818
I39	08 Dec 2025	Comments	
I39	15 Dec 2025	Arrive Time	1047
I39	15 Dec 2025	Depart Time	1051
I39	15 Dec 2025	Air Temp (C)	14.4
I39	15 Dec 2025	Visibility (mi)	1.2
I39	15 Dec 2025	Wind Speed (kts)	7.3
I39	15 Dec 2025	Wind Dir	NW
I39	15 Dec 2025	Sea State	Calm
I39	15 Dec 2025	High Tide Time	548
I39	15 Dec 2025	Low Tide Time	1300
I39	15 Dec 2025	Comments	
I39	23 Dec 2025	Arrive Time	1003
I39	23 Dec 2025	Depart Time	1007
I39	23 Dec 2025	Air Temp (C)	16.6
I39	23 Dec 2025	Visibility (mi)	6
I39	23 Dec 2025	Wind Speed (kts)	10.7
I39	23 Dec 2025	Wind Dir	S
I39	23 Dec 2025	Sea State	Confused Swell
I39	23 Dec 2025	High Tide Time	1000
I39	23 Dec 2025	Low Tide Time	1730
I39	23 Dec 2025	Comments	
I39	29 Dec 2025	Arrive Time	1030
I39	29 Dec 2025	Depart Time	1035
I39	29 Dec 2025	Air Temp (C)	16.4
I39	29 Dec 2025	Visibility (mi)	8
I39	29 Dec 2025	Wind Speed (kts)	3.2
I39	29 Dec 2025	Wind Dir	N
I39	29 Dec 2025	Sea State	Calm
I39	29 Dec 2025	High Tide Time	412
I39	29 Dec 2025	Low Tide Time	1124
I39	29 Dec 2025	Comments	
I26	02 Dec 2025	Arrive Time	1052
I26	02 Dec 2025	Depart Time	1057
I26	02 Dec 2025	Air Temp (C)	16.8
I26	02 Dec 2025	Visibility (mi)	6
I26	02 Dec 2025	Wind Speed (kts)	0
I26	02 Dec 2025	Wind Dir	NE
I26	02 Dec 2025	Sea State	Calm
I26	02 Dec 2025	High Tide Time	612
I26	02 Dec 2025	Low Tide Time	1312
I26	02 Dec 2025	Comments	
I26	08 Dec 2025	Arrive Time	1122
I26	08 Dec 2025	Depart Time	1124
I26	08 Dec 2025	Air Temp (C)	17.8
I26	08 Dec 2025	Visibility (mi)	10
I26	08 Dec 2025	Wind Speed (kts)	4.2
I26	08 Dec 2025	Wind Dir	NW
I26	08 Dec 2025	Sea State	Calm
I26	08 Dec 2025	High Tide Time	1048
I26	08 Dec 2025	Low Tide Time	1818
I26	08 Dec 2025	Comments	

Station	Date	Parameter	Value
I26	15 Dec 2025	Arrive Time	1301
I26	15 Dec 2025	Depart Time	1306
I26	15 Dec 2025	Air Temp (C)	14.8
I26	15 Dec 2025	Visibility (mi)	7
I26	15 Dec 2025	Wind Speed (kts)	9.5
I26	15 Dec 2025	Wind Dir	W
I26	15 Dec 2025	Sea State	Wind Ripples
I26	15 Dec 2025	High Tide Time	548
I26	15 Dec 2025	Low Tide Time	1300
I26	15 Dec 2025	Comments	
I26	23 Dec 2025	Arrive Time	1058
I26	23 Dec 2025	Depart Time	1101
I26	23 Dec 2025	Air Temp (C)	16.5
I26	23 Dec 2025	Visibility (mi)	6
I26	23 Dec 2025	Wind Speed (kts)	5.5
I26	23 Dec 2025	Wind Dir	N
I26	23 Dec 2025	Sea State	Confused Swell
I26	23 Dec 2025	High Tide Time	1000
I26	23 Dec 2025	Low Tide Time	1730
I26	23 Dec 2025	Comments	
I26	29 Dec 2025	Arrive Time	1137
I26	29 Dec 2025	Depart Time	1141
I26	29 Dec 2025	Air Temp (C)	17.1
I26	29 Dec 2025	Visibility (mi)	8
I26	29 Dec 2025	Wind Speed (kts)	4.3
I26	29 Dec 2025	Wind Dir	N
I26	29 Dec 2025	Sea State	Calm
I26	29 Dec 2025	High Tide Time	412
I26	29 Dec 2025	Low Tide Time	1124
I26	29 Dec 2025	Comments	
I32	02 Dec 2025	Arrive Time	1104
I32	02 Dec 2025	Depart Time	1120
I32	02 Dec 2025	Air Temp (C)	16.5
I32	02 Dec 2025	Visibility (mi)	6
I32	02 Dec 2025	Wind Speed (kts)	0
I32	02 Dec 2025	Wind Dir	N
I32	02 Dec 2025	Sea State	Calm
I32	02 Dec 2025	High Tide Time	612
I32	02 Dec 2025	Low Tide Time	1312
I32	02 Dec 2025	Comments	
I32	08 Dec 2025	Arrive Time	1135
I32	08 Dec 2025	Depart Time	1139
I32	08 Dec 2025	Air Temp (C)	18.9
I32	08 Dec 2025	Visibility (mi)	10
I32	08 Dec 2025	Wind Speed (kts)	4.1
I32	08 Dec 2025	Wind Dir	NW
I32	08 Dec 2025	Sea State	Calm
I32	08 Dec 2025	High Tide Time	1048
I32	08 Dec 2025	Low Tide Time	1818
I32	08 Dec 2025	Comments	
I32	15 Dec 2025	Arrive Time	1313
I32	15 Dec 2025	Depart Time	1318
I32	15 Dec 2025	Air Temp (C)	15
I32	15 Dec 2025	Visibility (mi)	7
I32	15 Dec 2025	Wind Speed (kts)	10.8
I32	15 Dec 2025	Wind Dir	W

Station	Date	Parameter	Value
I32	15 Dec 2025	Sea State	Wind Ripples
I32	15 Dec 2025	High Tide Time	548
I32	15 Dec 2025	Low Tide Time	1300
I32	15 Dec 2025	Comments	
I32	23 Dec 2025	Arrive Time	1110
I32	23 Dec 2025	Depart Time	1114
I32	23 Dec 2025	Air Temp (C)	16.6
I32	23 Dec 2025	Visibility (mi)	6
I32	23 Dec 2025	Wind Speed (kts)	4.7
I32	23 Dec 2025	Wind Dir	NE
I32	23 Dec 2025	Sea State	Confused Swell
I32	23 Dec 2025	High Tide Time	1000
I32	23 Dec 2025	Low Tide Time	1730
I32	23 Dec 2025	Comments	
I32	29 Dec 2025	Arrive Time	1149
I32	29 Dec 2025	Depart Time	1153
I32	29 Dec 2025	Air Temp (C)	18.1
I32	29 Dec 2025	Visibility (mi)	8
I32	29 Dec 2025	Wind Speed (kts)	3.4
I32	29 Dec 2025	Wind Dir	NW
I32	29 Dec 2025	Sea State	Calm
I32	29 Dec 2025	High Tide Time	412
I32	29 Dec 2025	Low Tide Time	1124
I32	29 Dec 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 (σ -t)	Chlor (μ g/L)
I19	02 Dec 2025	1	18.29	89.03	7.8	33.36	8.1	23.9	0.35
I19	02 Dec 2025	2	18.21	88.14	7.9	33.36	8.1	24.0	0.42
I19	02 Dec 2025	3	18.16	87.51	7.8	33.36	8.1	24.0	0.57
I19	02 Dec 2025	4	18.14	85.75	7.8	33.36	8.1	24.0	0.70
I19	02 Dec 2025	5	18.13	84.82	7.8	33.36	8.1	24.0	0.86
I19	02 Dec 2025	6	18.10	83.53	7.9	33.36	8.1	24.0	0.93
I19	02 Dec 2025	7	18.09	82.22	7.9	33.36	8.1	24.0	1.02
I19	02 Dec 2025	8	18.07	81.01	7.9	33.36	8.1	24.0	1.14
I19	02 Dec 2025	9	18.06	79.08	7.9	33.36	8.1	24.0	1.09
I19	02 Dec 2025	10	18.02	78.77	7.9	33.36	8.1	24.0	1.01
I19	08 Dec 2025	1	17.12	81.80	8.2	33.31	8.1	24.2	1.89
I19	08 Dec 2025	2	17.10	81.39	8.2	33.31	8.1	24.2	1.27
I19	08 Dec 2025	3	17.07	81.33	8.2	33.31	8.1	24.2	1.75
I19	08 Dec 2025	4	17.02	80.06	8.2	33.31	8.1	24.2	3.61
I19	08 Dec 2025	5	17.00	76.58	8.1	33.31	8.1	24.2	4.40
I19	08 Dec 2025	6	16.99	76.02	8.0	33.31	8.1	24.2	3.12
I19	08 Dec 2025	7	16.97	76.13	8.0	33.31	8.1	24.2	2.48
I19	08 Dec 2025	8	16.92	75.49	8.0	33.31	8.1	24.2	2.70
I19	08 Dec 2025	9	16.90	75.48	8.1	33.31	8.1	24.2	3.35
I19	08 Dec 2025	10	16.87	76.25	8.1	33.31	8.1	24.2	3.49
I19	15 Dec 2025	1	16.99	82.60	8.6	33.24	8.1	24.2	3.64
I19	15 Dec 2025	2	16.95	82.67	8.5	33.25	8.1	24.2	4.05
I19	15 Dec 2025	3	16.94	81.96	8.4	33.25	8.1	24.2	4.96
I19	15 Dec 2025	4	16.85	81.42	8.0	33.26	8.1	24.2	4.55
I19	15 Dec 2025	5	16.82	81.58	7.8	33.26	8.1	24.2	2.30
I19	15 Dec 2025	6	16.79	82.94	7.7	33.27	8.1	24.2	1.54
I19	15 Dec 2025	7	16.75	84.30	7.4	33.27	8.0	24.2	1.32
I19	15 Dec 2025	8	16.67	84.04	7.2	33.27	8.0	24.3	1.34
I19	15 Dec 2025	9	16.60	85.01	7.1	33.27	8.0	24.3	1.34
I19	15 Dec 2025	10	16.59	82.45	7.0	33.27	8.0	24.3	1.42
I19	23 Dec 2025	1	16.34	85.66	7.9	33.20	8.0	24.3	2.11
I19	23 Dec 2025	2	16.34	85.71	7.9	33.21	8.0	24.3	2.02
I19	23 Dec 2025	3	16.34	85.60	7.9	33.21	8.0	24.3	1.95
I19	23 Dec 2025	4	16.34	85.80	7.9	33.23	8.0	24.3	1.91
I19	23 Dec 2025	5	16.31	86.28	7.8	33.24	8.0	24.3	1.74
I19	23 Dec 2025	6	16.02	86.42	7.6	33.28	8.0	24.4	1.68
I19	23 Dec 2025	7	15.91	87.45	7.5	33.28	8.0	24.4	1.62
I19	23 Dec 2025	8	15.73	89.23	7.4	33.27	8.0	24.5	1.58
I19	23 Dec 2025	9	15.64	87.77	7.3	33.27	8.0	24.5	1.55
I19	23 Dec 2025	10	15.59	82.25	7.2	33.27	8.0	24.5	1.66
I19	29 Dec 2025	1	16.55	76.56	7.9	33.22	8.1	24.2	0.68
I19	29 Dec 2025	2	16.54	76.06	7.9	33.22	8.1	24.3	0.67
I19	29 Dec 2025	3	16.51	75.11	7.9	33.22	8.1	24.3	0.82
I19	29 Dec 2025	4	16.47	74.65	7.9	33.22	8.1	24.3	1.41
I19	29 Dec 2025	5	16.46	71.70	7.9	33.22	8.1	24.3	1.74
I19	29 Dec 2025	6	16.44	69.08	7.9	33.21	8.1	24.3	1.83
I19	29 Dec 2025	7	16.42	66.93	7.8	33.21	8.1	24.3	1.70
I19	29 Dec 2025	8	16.39	65.14	7.8	33.21	8.1	24.3	1.63
I19	29 Dec 2025	9	16.30	64.24	7.8	33.20	8.1	24.3	1.66
I19	29 Dec 2025	10	16.07	63.51	7.9	33.17	8.1	24.3	1.44
I40	02 Dec 2025	1	17.86	74.24	8.0	33.19	8.1	23.9	0.82
I40	02 Dec 2025	2	17.84	74.10	8.0	33.22	8.1	24.0	0.89
I40	02 Dec 2025	3	17.84	74.11	8.0	33.24	8.1	24.0	1.12
I40	02 Dec 2025	4	17.90	74.33	8.0	33.27	8.1	24.0	1.24
I40	02 Dec 2025	5	17.91	75.09	7.9	33.28	8.1	24.0	1.29
I40	02 Dec 2025	6	17.89	75.46	7.9	33.28	8.1	24.0	1.32
I40	02 Dec 2025	7	17.89	75.20	7.9	33.28	8.1	24.0	1.31
I40	02 Dec 2025	8	17.83	73.50	8.0	33.27	8.1	24.0	1.29
I40	02 Dec 2025	9	17.78	72.43	8.0	33.26	8.1	24.0	1.33
I40	02 Dec 2025	10	17.79	69.51	7.9	33.27	8.1	24.0	1.34
I40	08 Dec 2025	1	17.03	86.67	8.1	33.26	8.1	24.2	0.86
I40	08 Dec 2025	2	17.02	86.37	8.1	33.28	8.1	24.2	0.81

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I40	08 Dec 2025	3	17.03	87.06	8.1	33.28	8.1	24.2	0.85
I40	08 Dec 2025	4	17.03	87.52	8.1	33.28	8.1	24.2	0.93
I40	08 Dec 2025	5	17.01	87.13	8.1	33.30	8.1	24.2	1.09
I40	08 Dec 2025	6	17.00	87.46	8.1	33.30	8.1	24.2	1.89
I40	08 Dec 2025	7	17.00	86.40	8.0	33.30	8.1	24.2	2.17
I40	08 Dec 2025	8	16.99	83.48	8.0	33.30	8.1	24.2	2.02
I40	08 Dec 2025	9	16.98	81.83	8.0	33.30	8.1	24.2	1.86
I40	08 Dec 2025	10	16.97	79.62	7.9	33.30	8.1	24.2	1.90
I40	15 Dec 2025	1	17.09	60.41	8.3	32.78	8.1	23.8	5.83
I40	15 Dec 2025	2	16.93	61.26	8.4	33.09	8.1	24.1	6.34
I40	15 Dec 2025	3	16.85	72.16	8.4	33.25	8.1	24.2	4.83
I40	15 Dec 2025	4	16.84	79.95	8.3	33.26	8.1	24.2	2.82
I40	15 Dec 2025	5	16.82	81.90	8.2	33.26	8.1	24.2	2.64
I40	15 Dec 2025	6	16.82	82.36	8.2	33.26	8.1	24.2	1.59
I40	15 Dec 2025	7	16.80	81.59	8.1	33.27	8.1	24.2	1.39
I40	15 Dec 2025	8	16.79	76.61	8.0	33.27	8.1	24.2	1.26
I40	15 Dec 2025	9	16.78	67.40	8.0	33.27	8.1	24.2	1.28
I40	15 Dec 2025	10	16.78	63.39	8.0	33.27	8.1	24.2	1.28
I40	23 Dec 2025	1	16.28	82.75	7.7	33.24	8.0	24.3	2.02
I40	23 Dec 2025	2	16.28	82.64	7.7	33.25	8.0	24.3	2.02
I40	23 Dec 2025	3	16.29	82.68	7.7	33.25	8.0	24.3	1.98
I40	23 Dec 2025	4	16.28	82.60	7.6	33.25	8.0	24.3	1.99
I40	23 Dec 2025	5	16.26	82.55	7.6	33.25	8.0	24.3	1.90
I40	23 Dec 2025	6	16.25	82.71	7.6	33.25	8.0	24.3	1.86
I40	23 Dec 2025	7	16.24	82.86	7.6	33.25	8.0	24.3	1.86
I40	23 Dec 2025	8	16.22	82.70	7.6	33.25	8.0	24.4	1.86
I40	23 Dec 2025	9	16.20	82.77	7.6	33.25	8.0	24.4	1.91
I40	23 Dec 2025	10	16.16	82.82	7.6	33.25	8.0	24.4	1.92
I40	29 Dec 2025	1	16.22	50.60	6.9	32.66	8.1	23.9	2.76
I40	29 Dec 2025	2	16.16	50.18	7.1	32.76	8.1	24.0	2.71
I40	29 Dec 2025	3	16.00	49.98	7.6	33.04	8.1	24.2	4.82
I40	29 Dec 2025	4	15.90	51.29	7.7	33.09	8.1	24.3	5.32
I40	29 Dec 2025	5	16.00	51.69	7.9	33.12	8.1	24.3	3.76
I40	29 Dec 2025	6	16.00	52.64	7.8	33.19	8.1	24.4	3.07
I40	29 Dec 2025	7	15.90	53.72	7.7	33.22	8.1	24.4	2.93
I40	29 Dec 2025	8	15.85	52.49	7.6	33.22	8.1	24.4	2.79
I40	29 Dec 2025	9	15.85	49.51	7.5	33.22	8.1	24.4	2.56
I40	29 Dec 2025	10	15.86	47.32	7.4	33.22	8.1	24.4	2.65
I24	02 Dec 2025	1	18.24	86.49	7.9	33.34	8.1	23.9	0.44
I24	02 Dec 2025	2	18.20	86.40	7.9	33.34	8.1	24.0	0.42
I24	02 Dec 2025	3	18.14	86.13	7.9	33.34	8.1	24.0	0.47
I24	02 Dec 2025	4	18.13	84.90	7.9	33.34	8.1	24.0	0.68
I24	02 Dec 2025	5	18.11	83.54	7.9	33.34	8.1	24.0	0.96
I24	02 Dec 2025	6	18.10	81.90	7.9	33.34	8.1	24.0	1.18
I24	02 Dec 2025	7	18.09	81.15	7.9	33.34	8.1	24.0	1.36
I24	02 Dec 2025	8	18.07	80.15	7.9	33.34	8.1	24.0	1.44
I24	02 Dec 2025	9	18.06	75.59	7.8	33.34	8.1	24.0	1.49
I24	02 Dec 2025	10	18.05	71.07	7.8	33.34	8.1	24.0	1.48
I24	08 Dec 2025	1	17.03	85.72	8.3	33.26	8.1	24.2	1.97
I24	08 Dec 2025	2	16.99	85.22	8.3	33.28	8.1	24.2	2.72
I24	08 Dec 2025	3	16.97	84.95	8.3	33.29	8.1	24.2	2.84
I24	08 Dec 2025	4	16.96	86.60	8.2	33.30	8.1	24.2	2.52
I24	08 Dec 2025	5	16.95	88.82	8.2	33.30	8.1	24.2	3.08
I24	08 Dec 2025	6	16.94	89.22	8.1	33.30	8.1	24.2	2.73
I24	08 Dec 2025	7	16.93	89.58	8.0	33.30	8.1	24.2	2.48
I24	08 Dec 2025	8	16.91	89.69	7.8	33.29	8.1	24.2	2.10
I24	08 Dec 2025	9	16.90	85.65	7.6	33.29	8.1	24.2	1.51
I24	08 Dec 2025	10	16.89	81.79	7.4	33.29	8.1	24.2	1.36
I24	15 Dec 2025	1	16.95	84.11	9.3	33.27	8.2	24.2	3.45
I24	15 Dec 2025	2	16.94	84.11	9.3	33.27	8.2	24.2	3.60
I24	15 Dec 2025	3	16.93	84.09	9.3	33.27	8.2	24.2	4.62
I24	15 Dec 2025	4	16.92	84.47	9.2	33.27	8.2	24.2	5.62
I24	15 Dec 2025	5	16.92	84.42	9.2	33.27	8.2	24.2	5.14
I24	15 Dec 2025	6	16.92	84.51	9.2	33.27	8.2	24.2	4.85
I24	15 Dec 2025	7	16.92	84.59	9.2	33.27	8.2	24.2	4.92
I24	15 Dec 2025	8	16.91	84.65	9.2	33.27	8.2	24.2	4.86
I24	15 Dec 2025	9	16.91	84.71	9.2	33.27	8.2	24.2	4.76
I24	15 Dec 2025	10	16.91	84.87	9.2	33.27	8.2	24.2	4.84

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I24	23 Dec 2025	1	16.44	70.07	7.7	33.17	8.0	24.2	1.45
I24	23 Dec 2025	2	16.44	62.29	7.7	33.24	8.0	24.3	1.38
I24	23 Dec 2025	3	16.44	80.98	7.7	33.24	8.0	24.3	1.43
I24	23 Dec 2025	4	16.42	88.67	7.7	33.27	8.0	24.3	1.44
I24	23 Dec 2025	5	16.42	90.41	7.7	33.27	8.0	24.3	1.45
I24	23 Dec 2025	6	16.37	90.98	7.7	33.28	8.0	24.3	1.48
I24	23 Dec 2025	7	16.34	91.15	7.7	33.29	8.0	24.4	1.38
I24	23 Dec 2025	8	16.15	91.38	7.5	33.28	8.0	24.4	1.29
I24	23 Dec 2025	9	16.04	90.55	7.4	33.28	8.0	24.4	1.11
I24	23 Dec 2025	10	15.98	85.20	7.2	33.27	8.0	24.4	1.11
I24	23 Dec 2025	11	15.84	77.59	7.0	33.27	8.0	24.5	1.26
I24	29 Dec 2025	1	16.37	85.83	8.4	33.23	8.1	24.3	1.85
I24	29 Dec 2025	2	16.39	83.40	8.4	33.23	8.1	24.3	1.84
I24	29 Dec 2025	3	16.38	85.07	8.3	33.22	8.1	24.3	1.55
I24	29 Dec 2025	4	16.35	85.52	8.3	33.23	8.1	24.3	1.95
I24	29 Dec 2025	5	16.35	84.90	8.3	33.22	8.1	24.3	2.65
I24	29 Dec 2025	6	16.35	84.43	8.3	33.22	8.1	24.3	2.65
I24	29 Dec 2025	7	16.35	84.77	8.3	33.22	8.1	24.3	2.83
I24	29 Dec 2025	8	16.33	84.72	8.3	33.22	8.1	24.3	2.79
I24	29 Dec 2025	9	16.32	84.87	8.3	33.22	8.1	24.3	2.23
I24	29 Dec 2025	10	16.32	84.72	8.3	33.22	8.1	24.3	1.98
I25	02 Dec 2025	1	18.26	85.26	7.8	33.34	8.1	23.9	0.45
I25	02 Dec 2025	2	18.19	84.92	7.8	33.35	8.1	24.0	0.62
I25	02 Dec 2025	3	18.15	83.64	7.9	33.34	8.1	24.0	0.79
I25	02 Dec 2025	4	18.16	82.36	7.9	33.34	8.1	24.0	0.82
I25	02 Dec 2025	5	18.18	82.34	7.8	33.34	8.1	24.0	0.79
I25	02 Dec 2025	6	18.15	82.53	7.8	33.34	8.1	24.0	0.84
I25	02 Dec 2025	7	18.07	82.17	7.8	33.34	8.1	24.0	1.05
I25	02 Dec 2025	8	18.05	79.19	7.8	33.34	8.1	24.0	1.36
I25	02 Dec 2025	9	18.05	72.54	7.8	33.34	8.1	24.0	1.40
I25	08 Dec 2025	1	17.03	84.20	8.1	33.26	8.1	24.2	1.22
I25	08 Dec 2025	2	17.04	84.21	8.1	33.26	8.1	24.2	1.23
I25	08 Dec 2025	3	16.98	84.21	8.1	33.27	8.1	24.2	1.35
I25	08 Dec 2025	4	16.95	84.27	7.9	33.29	8.1	24.2	1.82
I25	08 Dec 2025	5	16.93	82.89	7.9	33.28	8.1	24.2	2.10
I25	08 Dec 2025	6	16.92	83.06	8.0	33.28	8.1	24.2	2.27
I25	08 Dec 2025	7	16.92	84.69	7.9	33.29	8.1	24.2	2.16
I25	08 Dec 2025	8	16.91	85.35	7.8	33.29	8.1	24.2	1.77
I25	08 Dec 2025	9	16.91	85.32	7.8	33.29	8.1	24.2	1.57
I25	15 Dec 2025	1	16.92	88.44	8.7	33.28	8.1	24.2	1.45
I25	15 Dec 2025	2	16.92	88.54	8.7	33.28	8.1	24.2	1.52
I25	15 Dec 2025	3	16.92	88.64	8.7	33.28	8.1	24.2	1.51
I25	15 Dec 2025	4	16.92	88.53	8.7	33.28	8.1	24.2	1.69
I25	15 Dec 2025	5	16.91	88.62	8.6	33.28	8.1	24.2	2.05
I25	15 Dec 2025	6	16.91	88.48	8.7	33.28	8.1	24.2	2.36
I25	15 Dec 2025	7	16.91	88.90	8.6	33.28	8.1	24.2	2.38
I25	15 Dec 2025	8	16.91	88.53	8.7	33.28	8.1	24.2	2.40
I25	23 Dec 2025	1	16.29	92.74	7.9	33.28	8.0	24.4	1.55
I25	23 Dec 2025	2	16.28	92.66	7.9	33.28	8.0	24.4	1.55
I25	23 Dec 2025	3	16.28	92.64	7.9	33.26	8.0	24.3	1.58
I25	23 Dec 2025	4	16.28	92.86	7.8	33.28	8.0	24.4	1.59
I25	23 Dec 2025	5	16.28	93.06	7.8	33.28	8.0	24.4	1.68
I25	23 Dec 2025	6	16.28	93.08	7.8	33.28	8.0	24.4	1.64
I25	23 Dec 2025	7	16.25	93.26	7.8	33.28	8.0	24.4	1.62
I25	23 Dec 2025	8	16.12	93.65	7.8	33.27	8.0	24.4	1.53
I25	23 Dec 2025	9	15.84	93.24	7.6	33.27	8.0	24.5	1.32
I25	29 Dec 2025	1	16.49	89.70	8.4	33.23	8.1	24.3	0.67
I25	29 Dec 2025	2	16.45	89.22	8.4	33.23	8.1	24.3	0.72
I25	29 Dec 2025	3	16.42	89.53	8.3	33.23	8.1	24.3	1.03
I25	29 Dec 2025	4	16.40	88.76	8.4	33.23	8.1	24.3	1.35
I25	29 Dec 2025	5	16.39	88.13	8.4	33.23	8.1	24.3	1.82
I25	29 Dec 2025	6	16.38	87.89	8.4	33.23	8.1	24.3	2.02
I25	29 Dec 2025	7	16.38	88.50	8.4	33.23	8.1	24.3	1.94
I25	29 Dec 2025	8	16.38	88.27	8.3	33.23	8.1	24.3	1.75
I25	29 Dec 2025	9	16.38	87.74	8.3	33.23	8.1	24.3	1.80
I39	02 Dec 2025	1	17.87	96.05	7.8	33.32	8.1	24.0	0.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I39	02 Dec 2025	2	17.83	95.99	7.8	33.32	8.1	24.0	0.29
I39	02 Dec 2025	3	17.81	96.01	7.9	33.32	8.1	24.0	0.36
I39	02 Dec 2025	4	17.81	96.02	7.9	33.33	8.1	24.0	0.36
I39	02 Dec 2025	5	17.81	96.48	7.9	33.33	8.1	24.0	0.39
I39	02 Dec 2025	6	17.81	96.64	7.9	33.33	8.1	24.0	0.44
I39	02 Dec 2025	7	17.81	96.80	7.9	33.33	8.1	24.0	0.44
I39	02 Dec 2025	8	17.81	97.11	7.9	33.33	8.1	24.0	0.43
I39	02 Dec 2025	9	17.81	97.24	7.9	33.33	8.1	24.0	0.43
I39	02 Dec 2025	10	17.81	97.21	7.9	33.33	8.1	24.0	0.43
I39	02 Dec 2025	11	17.81	96.93	7.9	33.34	8.1	24.0	0.44
I39	02 Dec 2025	12	17.72	97.39	7.9	33.33	8.1	24.1	0.50
I39	02 Dec 2025	13	17.65	96.79	7.9	33.31	8.1	24.1	0.68
I39	02 Dec 2025	14	17.62	94.89	7.9	33.31	8.1	24.1	0.83
I39	02 Dec 2025	15	17.61	93.32	7.9	33.30	8.1	24.1	0.90
I39	02 Dec 2025	16	17.59	92.36	7.9	33.30	8.1	24.1	0.88
I39	02 Dec 2025	17	17.56	91.47	7.9	33.30	8.1	24.1	0.91
I39	02 Dec 2025	18	17.48	90.54	7.8	33.29	8.1	24.1	0.93
I39	08 Dec 2025	1	16.99	94.29	8.3	33.28	8.1	24.2	0.78
I39	08 Dec 2025	2	16.98	94.18	8.3	33.28	8.1	24.2	0.83
I39	08 Dec 2025	3	16.95	94.10	8.3	33.28	8.1	24.2	0.94
I39	08 Dec 2025	4	16.93	93.87	8.3	33.28	8.1	24.2	1.49
I39	08 Dec 2025	5	16.86	93.51	8.1	33.28	8.1	24.2	2.01
I39	08 Dec 2025	6	16.80	93.23	8.0	33.27	8.1	24.2	2.08
I39	08 Dec 2025	7	16.72	93.42	7.8	33.27	8.1	24.3	1.20
I39	08 Dec 2025	8	16.68	95.09	7.8	33.27	8.1	24.3	0.96
I39	08 Dec 2025	9	16.66	95.20	7.7	33.27	8.1	24.3	0.99
I39	08 Dec 2025	10	16.64	95.35	7.7	33.27	8.1	24.3	1.06
I39	08 Dec 2025	11	16.64	95.17	7.7	33.27	8.1	24.3	1.17
I39	08 Dec 2025	12	16.60	94.96	7.7	33.27	8.1	24.3	1.37
I39	08 Dec 2025	13	16.59	94.68	7.6	33.27	8.1	24.3	1.21
I39	08 Dec 2025	14	16.56	94.70	7.6	33.27	8.1	24.3	1.26
I39	08 Dec 2025	15	16.47	94.94	7.4	33.27	8.1	24.3	1.34
I39	08 Dec 2025	16	16.42	94.25	7.3	33.27	8.0	24.3	1.08
I39	08 Dec 2025	17	16.40	92.53	7.2	33.27	8.0	24.3	1.08
I39	08 Dec 2025	18	16.37	91.52	7.2	33.27	8.0	24.3	1.02
I39	15 Dec 2025	1	16.89	94.76	8.6	33.30	8.1	24.2	0.83
I39	15 Dec 2025	2	16.89	94.84	8.6	33.30	8.1	24.2	0.88
I39	15 Dec 2025	3	16.88	94.86	8.6	33.30	8.1	24.2	1.02
I39	15 Dec 2025	4	16.87	94.61	8.6	33.30	8.1	24.2	1.30
I39	15 Dec 2025	5	16.87	94.55	8.6	33.30	8.1	24.2	1.37
I39	15 Dec 2025	6	16.86	94.50	8.6	33.30	8.1	24.2	1.51
I39	15 Dec 2025	7	16.86	94.36	8.5	33.30	8.1	24.2	1.46
I39	15 Dec 2025	8	16.86	94.17	8.5	33.30	8.1	24.2	1.45
I39	15 Dec 2025	9	16.85	94.34	8.5	33.30	8.1	24.2	1.46
I39	15 Dec 2025	10	16.85	94.70	8.4	33.30	8.1	24.2	1.37
I39	15 Dec 2025	11	16.80	94.79	8.3	33.29	8.1	24.3	1.15
I39	15 Dec 2025	12	16.77	94.80	8.2	33.29	8.1	24.3	1.08
I39	15 Dec 2025	13	16.75	94.39	8.1	33.29	8.1	24.3	1.05
I39	15 Dec 2025	14	16.72	94.01	8.0	33.29	8.1	24.3	1.03
I39	15 Dec 2025	15	16.69	93.47	7.9	33.29	8.1	24.3	0.98
I39	15 Dec 2025	16	16.68	93.21	7.8	33.29	8.1	24.3	0.95
I39	15 Dec 2025	17	16.67	92.89	7.8	33.29	8.1	24.3	0.91
I39	15 Dec 2025	18	16.67	92.84	7.8	33.29	8.1	24.3	0.92
I39	23 Dec 2025	1	17.46	98.41	8.0	33.35	8.1	24.1	0.36
I39	23 Dec 2025	2	17.46	95.05	8.0	33.34	8.1	24.1	0.36
I39	23 Dec 2025	3	17.46	88.15	7.9	33.35	8.1	24.1	0.36
I39	23 Dec 2025	4	17.46	93.07	8.0	33.35	8.1	24.1	0.34
I39	23 Dec 2025	5	17.46	98.17	8.0	33.35	8.1	24.1	0.34
I39	23 Dec 2025	6	17.46	98.56	7.9	33.35	8.1	24.1	0.34
I39	23 Dec 2025	7	17.46	98.59	7.9	33.35	8.1	24.1	0.35
I39	23 Dec 2025	8	17.46	98.57	7.9	33.35	8.1	24.1	0.35
I39	23 Dec 2025	9	17.36	98.57	7.9	33.34	8.1	24.2	0.36
I39	23 Dec 2025	10	17.26	98.48	8.0	33.33	8.1	24.2	0.42
I39	23 Dec 2025	11	17.18	98.43	8.0	33.32	8.1	24.2	0.46
I39	23 Dec 2025	12	17.07	98.37	8.0	33.31	8.1	24.2	0.50
I39	23 Dec 2025	13	16.98	98.29	8.0	33.31	8.1	24.2	0.55
I39	23 Dec 2025	14	16.86	98.19	8.0	33.30	8.1	24.2	0.59
I39	23 Dec 2025	15	16.81	98.07	8.0	33.30	8.1	24.3	0.64
I39	23 Dec 2025	16	16.73	98.01	8.0	33.29	8.1	24.3	0.65
I39	23 Dec 2025	17	16.55	97.88	8.0	33.28	8.1	24.3	0.70
I39	23 Dec 2025	18	16.50	97.61	7.9	33.26	8.1	24.3	0.78

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I39	29 Dec 2025	1	16.54	95.05	8.1	33.27	8.1	24.3	0.45
I39	29 Dec 2025	2	16.54	95.09	8.1	33.27	8.1	24.3	0.41
I39	29 Dec 2025	3	16.51	93.57	8.1	33.27	8.1	24.3	0.38
I39	29 Dec 2025	4	16.48	94.91	8.2	33.27	8.1	24.3	0.43
I39	29 Dec 2025	5	16.46	94.75	8.2	33.27	8.1	24.3	0.63
I39	29 Dec 2025	6	16.46	94.50	8.2	33.27	8.1	24.3	0.72
I39	29 Dec 2025	7	16.45	94.62	8.2	33.27	8.1	24.3	0.74
I39	29 Dec 2025	8	16.43	94.36	8.2	33.27	8.1	24.3	0.75
I39	29 Dec 2025	9	16.41	94.58	8.2	33.27	8.1	24.3	0.87
I39	29 Dec 2025	10	16.39	94.27	8.3	33.27	8.1	24.3	0.96
I39	29 Dec 2025	11	16.38	94.20	8.3	33.27	8.1	24.3	1.00
I39	29 Dec 2025	12	16.36	94.13	8.2	33.27	8.1	24.3	0.98
I39	29 Dec 2025	13	16.32	94.15	8.1	33.27	8.1	24.3	0.93
I39	29 Dec 2025	14	16.29	94.03	8.0	33.27	8.1	24.4	0.78
I39	29 Dec 2025	15	16.22	93.65	7.8	33.27	8.1	24.4	0.73
I39	29 Dec 2025	16	16.15	93.49	7.8	33.27	8.1	24.4	0.76
I39	29 Dec 2025	17	16.05	93.17	7.6	33.26	8.1	24.4	0.76
I39	29 Dec 2025	18	15.49	92.98	7.4	33.26	8.1	24.5	0.68
I26	02 Dec 2025	1	18.14	91.13	7.8	33.34	8.1	24.0	0.28
I26	02 Dec 2025	2	18.14	90.96	7.8	33.34	8.1	24.0	0.29
I26	02 Dec 2025	3	18.14	90.70	7.8	33.34	8.1	24.0	0.31
I26	02 Dec 2025	4	18.14	90.66	7.8	33.34	8.1	24.0	0.36
I26	02 Dec 2025	5	18.15	90.84	7.8	33.34	8.1	24.0	0.36
I26	02 Dec 2025	6	18.12	91.02	7.8	33.34	8.1	24.0	0.39
I26	02 Dec 2025	7	18.07	91.07	7.9	33.34	8.1	24.0	0.48
I26	02 Dec 2025	8	18.06	89.81	7.8	33.34	8.1	24.0	0.60
I26	02 Dec 2025	9	18.06	88.14	7.9	33.34	8.1	24.0	0.73
I26	08 Dec 2025	1	17.20	87.39	7.8	33.28	8.1	24.1	0.60
I26	08 Dec 2025	2	17.06	87.04	7.8	33.28	8.1	24.2	0.60
I26	08 Dec 2025	3	16.97	86.51	7.9	33.29	8.1	24.2	0.77
I26	08 Dec 2025	4	16.94	85.56	7.8	33.29	8.1	24.2	1.11
I26	08 Dec 2025	5	16.93	83.98	7.8	33.29	8.1	24.2	1.26
I26	08 Dec 2025	6	16.92	83.78	7.8	33.29	8.1	24.2	1.50
I26	08 Dec 2025	7	16.92	83.35	7.8	33.29	8.1	24.2	1.40
I26	08 Dec 2025	8	16.91	83.11	7.8	33.29	8.1	24.2	1.27
I26	08 Dec 2025	9	16.91	82.90	7.8	33.29	8.1	24.2	1.19
I26	15 Dec 2025	1	16.93	87.98	8.9	33.28	8.2	24.2	2.07
I26	15 Dec 2025	2	16.94	88.08	8.9	33.28	8.2	24.2	2.06
I26	15 Dec 2025	3	16.93	88.14	8.9	33.28	8.2	24.2	2.12
I26	15 Dec 2025	4	16.88	87.71	8.8	33.28	8.1	24.2	3.20
I26	15 Dec 2025	5	16.87	87.07	8.7	33.28	8.1	24.2	4.63
I26	15 Dec 2025	6	16.84	86.97	8.6	33.28	8.1	24.2	4.91
I26	15 Dec 2025	7	16.84	87.04	8.6	33.28	8.1	24.2	4.55
I26	15 Dec 2025	8	16.83	87.29	8.6	33.28	8.1	24.2	4.23
I26	15 Dec 2025	9	16.84	87.36	8.5	33.28	8.1	24.2	3.72
I26	23 Dec 2025	1	16.41	90.96	8.0	33.28	8.1	24.3	1.92
I26	23 Dec 2025	2	16.41	91.01	8.0	33.28	8.1	24.3	1.93
I26	23 Dec 2025	3	16.39	91.04	8.0	33.29	8.1	24.3	2.07
I26	23 Dec 2025	4	16.36	91.63	8.0	33.29	8.1	24.3	1.99
I26	23 Dec 2025	5	16.34	92.26	8.0	33.29	8.0	24.4	1.93
I26	23 Dec 2025	6	16.33	92.66	8.0	33.29	8.0	24.4	1.87
I26	23 Dec 2025	7	16.28	92.92	7.9	33.28	8.0	24.4	1.77
I26	23 Dec 2025	8	16.11	93.44	7.8	33.27	8.0	24.4	1.59
I26	23 Dec 2025	9	15.71	93.91	7.6	33.26	8.0	24.5	1.41
I26	29 Dec 2025	1	16.56	88.58	8.5	33.23	8.2	24.3	0.59
I26	29 Dec 2025	2	16.53	88.58	8.5	33.23	8.2	24.3	0.58
I26	29 Dec 2025	3	16.45	87.97	8.7	33.23	8.2	24.3	0.85
I26	29 Dec 2025	4	16.42	86.84	8.9	33.23	8.2	24.3	2.54
I26	29 Dec 2025	5	16.37	83.18	8.7	33.22	8.2	24.3	6.90
I26	29 Dec 2025	6	16.36	79.53	8.6	33.22	8.2	24.3	6.47
I26	29 Dec 2025	7	16.35	80.34	8.5	33.22	8.2	24.3	4.67
I26	29 Dec 2025	8	16.35	82.57	8.4	33.22	8.1	24.3	2.77
I26	29 Dec 2025	9	16.36	84.08	8.3	33.22	8.1	24.3	2.19
I32	02 Dec 2025	1	18.01	88.85	7.5	33.35	8.1	24.0	0.42
I32	02 Dec 2025	2	17.94	88.66	7.5	33.35	8.1	24.0	0.51
I32	02 Dec 2025	3	17.92	88.01	7.6	33.33	8.1	24.0	0.67
I32	02 Dec 2025	4	17.90	87.10	7.7	33.33	8.1	24.0	0.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I32	02 Dec 2025	5	17.88	86.23	7.8	33.33	8.1	24.0	1.22
I32	02 Dec 2025	6	17.85	85.10	7.9	33.32	8.1	24.0	1.48
I32	02 Dec 2025	7	17.82	83.55	7.9	33.32	8.1	24.0	1.65
I32	02 Dec 2025	8	17.79	82.33	8.0	33.32	8.1	24.0	1.77
I32	02 Dec 2025	9	17.75	81.33	7.9	33.32	8.1	24.0	1.78
I32	02 Dec 2025	10	17.67	80.24	7.9	33.32	8.1	24.1	2.03
I32	08 Dec 2025	1	17.18	80.91	8.0	33.22	8.1	24.1	1.75
I32	08 Dec 2025	2	17.05	81.03	8.0	33.23	8.1	24.1	1.41
I32	08 Dec 2025	3	16.97	80.63	8.2	33.23	8.1	24.2	2.53
I32	08 Dec 2025	4	16.93	77.66	8.2	33.24	8.1	24.2	4.94
I32	08 Dec 2025	5	16.91	76.80	8.1	33.25	8.1	24.2	3.61
I32	08 Dec 2025	6	16.88	78.89	7.9	33.25	8.1	24.2	2.51
I32	08 Dec 2025	7	16.88	79.64	7.8	33.25	8.1	24.2	2.26
I32	08 Dec 2025	8	16.91	80.18	7.6	33.27	8.1	24.2	1.80
I32	08 Dec 2025	9	16.92	80.68	7.4	33.28	8.1	24.2	1.40
I32	08 Dec 2025	10	16.90	79.71	7.4	33.28	8.1	24.2	1.28
I32	15 Dec 2025	1	16.95	84.12	7.9	33.29	8.1	24.2	1.01
I32	15 Dec 2025	2	16.95	83.96	7.9	33.29	8.1	24.2	1.05
I32	15 Dec 2025	3	16.95	83.91	7.9	33.29	8.1	24.2	1.19
I32	15 Dec 2025	4	16.95	83.82	7.9	33.29	8.1	24.2	1.47
I32	15 Dec 2025	5	16.93	83.53	7.9	33.29	8.1	24.2	1.77
I32	15 Dec 2025	6	16.87	81.56	7.9	33.28	8.1	24.2	1.89
I32	15 Dec 2025	7	16.85	79.22	7.9	33.28	8.1	24.2	1.75
I32	15 Dec 2025	8	16.84	78.81	8.0	33.28	8.1	24.2	1.76
I32	15 Dec 2025	9	16.84	78.30	8.1	33.28	8.1	24.2	1.77
I32	23 Dec 2025	1	16.56	88.38	8.3	33.31	8.1	24.3	1.58
I32	23 Dec 2025	2	16.55	88.24	8.3	33.31	8.1	24.3	1.73
I32	23 Dec 2025	3	16.53	88.04	8.2	33.31	8.1	24.3	1.77
I32	23 Dec 2025	4	16.35	86.78	7.9	33.30	8.1	24.4	2.01
I32	23 Dec 2025	5	16.19	82.44	7.6	33.30	8.0	24.4	2.10
I32	23 Dec 2025	6	16.13	76.71	7.6	33.29	8.0	24.4	2.03
I32	23 Dec 2025	7	16.07	83.53	7.6	33.29	8.0	24.4	1.82
I32	23 Dec 2025	8	15.99	88.40	7.5	33.28	8.0	24.4	1.79
I32	23 Dec 2025	9	15.81	89.70	7.4	33.27	8.0	24.5	1.76
I32	23 Dec 2025	10	15.66	89.63	7.3	33.28	8.0	24.5	1.93
I32	29 Dec 2025	1	16.57	81.84	8.8	33.22	8.2	24.2	1.78
I32	29 Dec 2025	2	16.57	81.66	8.9	33.22	8.2	24.2	1.64
I32	29 Dec 2025	3	16.44	75.64	9.2	33.21	8.2	24.3	3.48
I32	29 Dec 2025	4	16.35	76.12	8.8	33.21	8.2	24.3	14.22
I32	29 Dec 2025	5	16.30	66.79	8.3	33.21	8.1	24.3	9.68
I32	29 Dec 2025	6	16.27	67.19	8.0	33.21	8.1	24.3	4.75
I32	29 Dec 2025	7	16.21	68.42	8.0	33.21	8.1	24.3	6.00
I32	29 Dec 2025	8	16.17	67.18	8.1	33.20	8.1	24.3	5.74
I32	29 Dec 2025	9	16.10	67.32	8.1	33.20	8.1	24.3	2.91
I32	29 Dec 2025	10	16.03	68.57	8.0	33.20	8.1	24.4	1.21

NA = not available

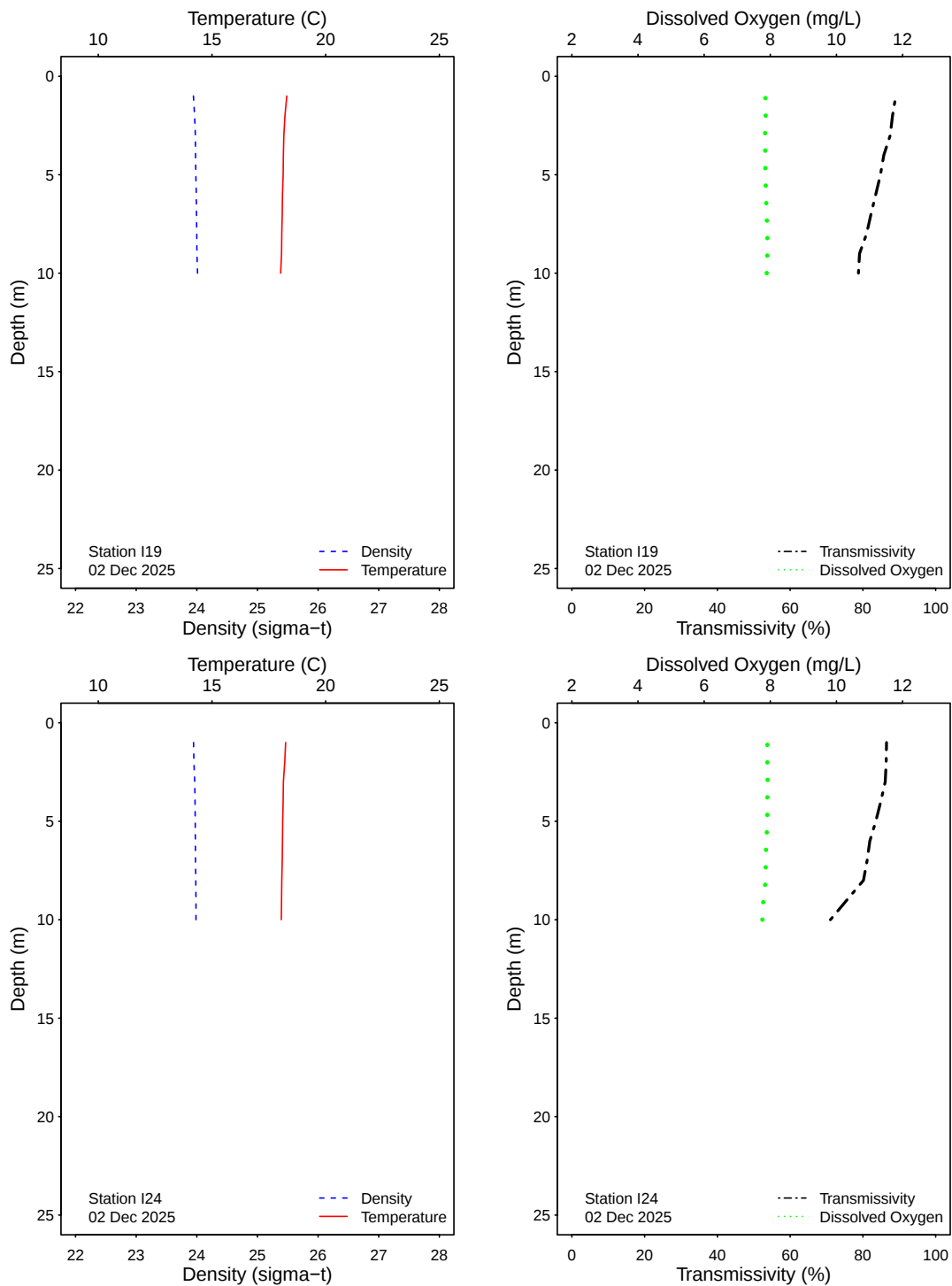


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

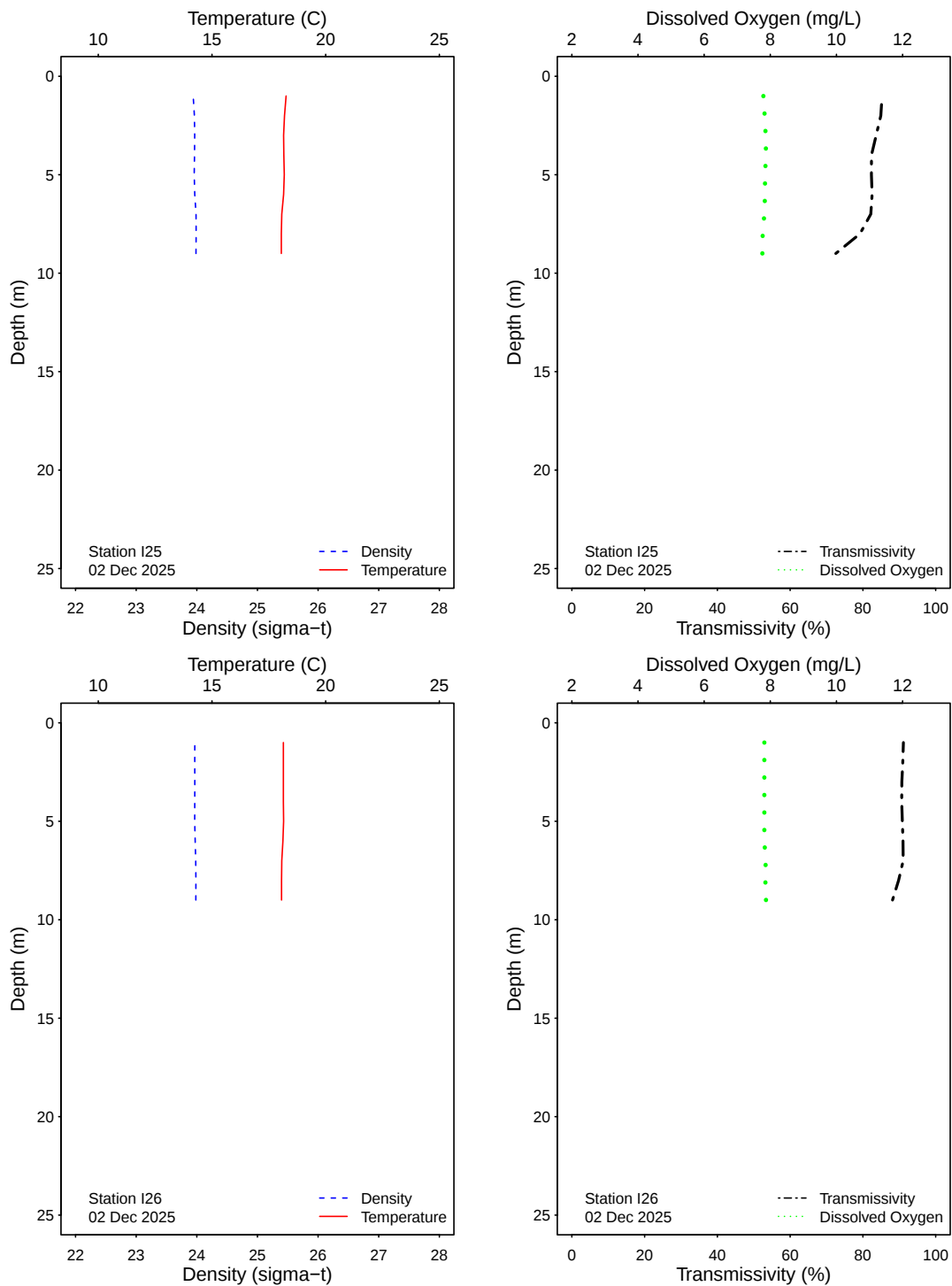


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

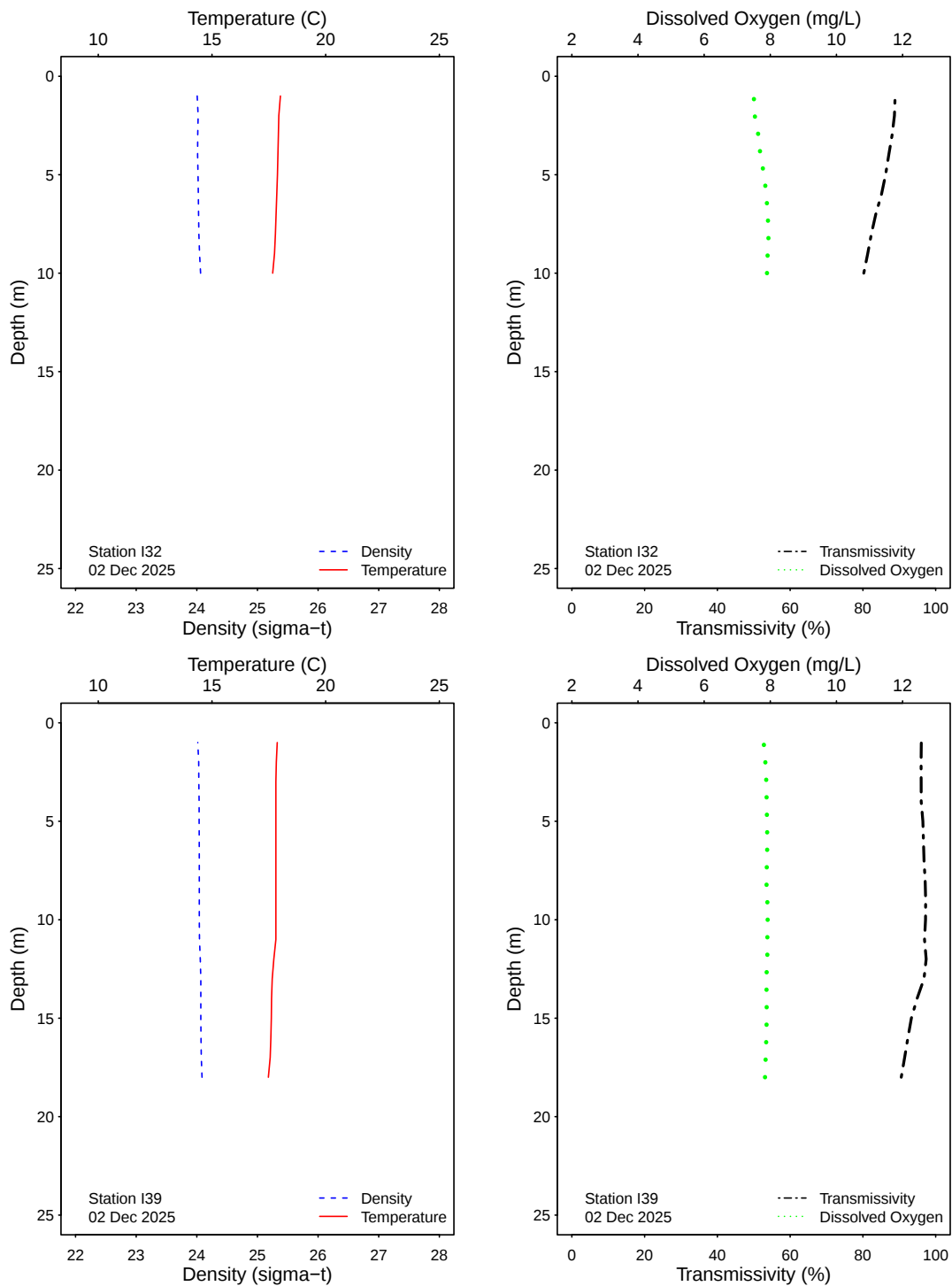


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

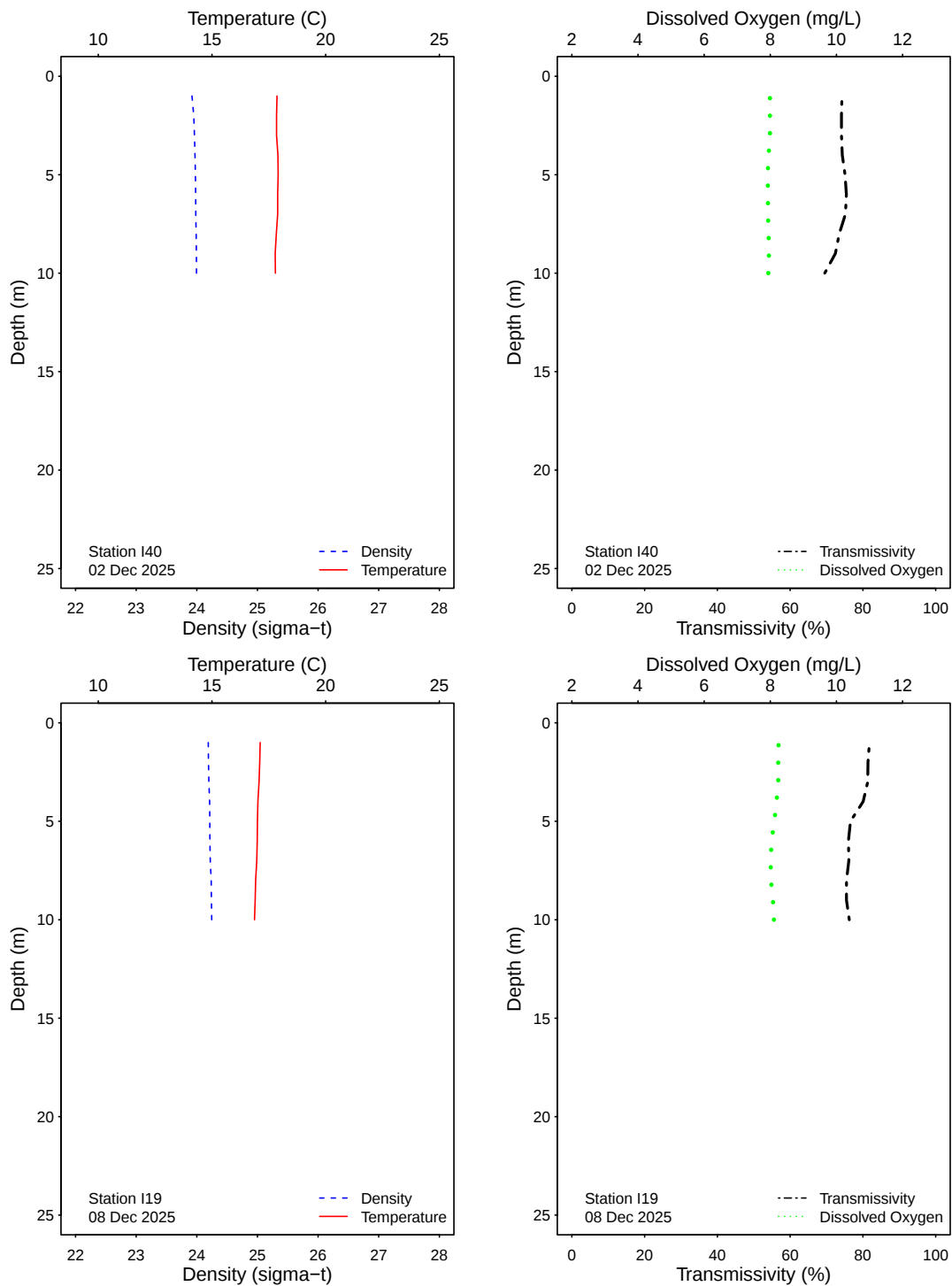


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

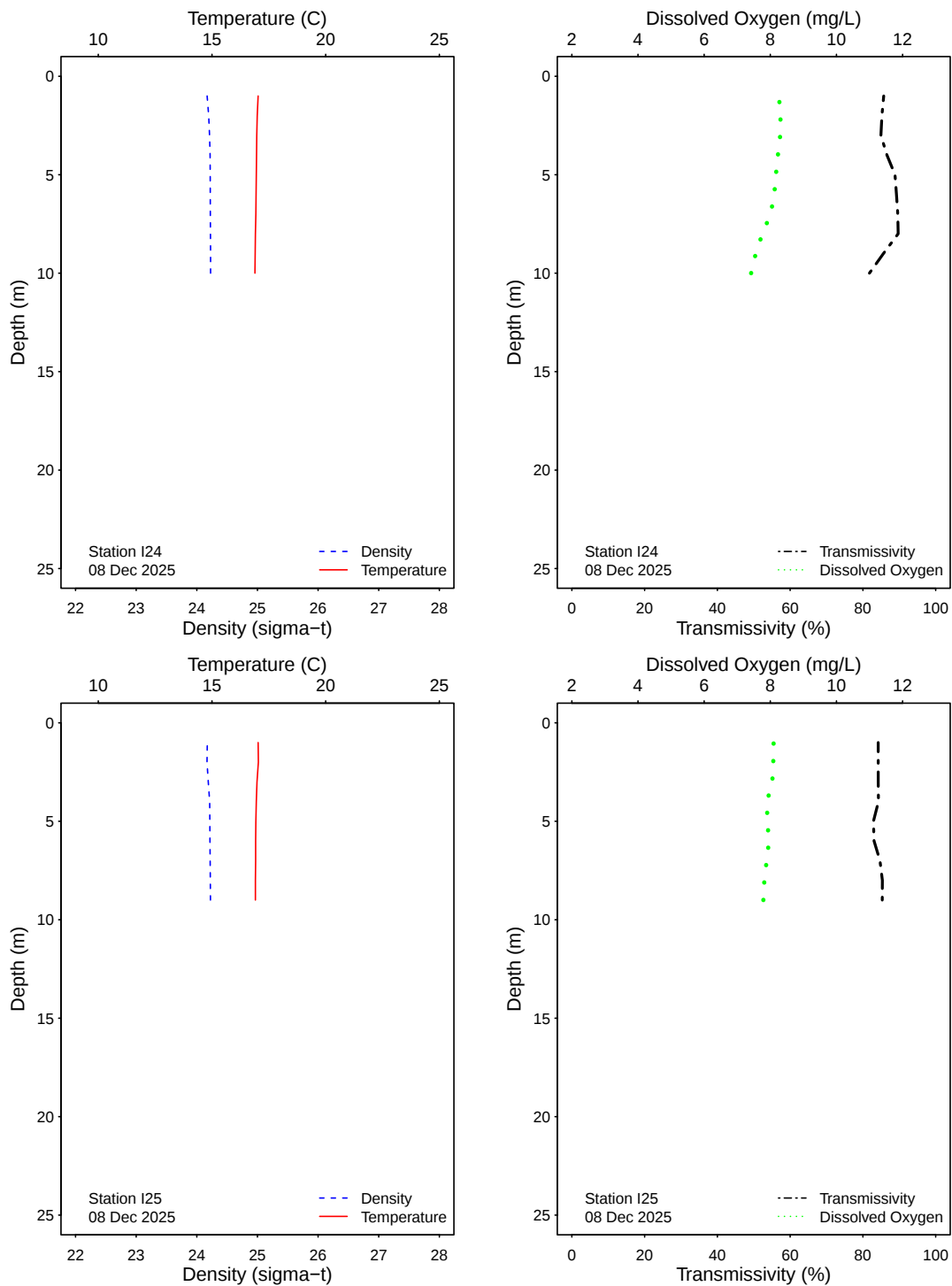


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

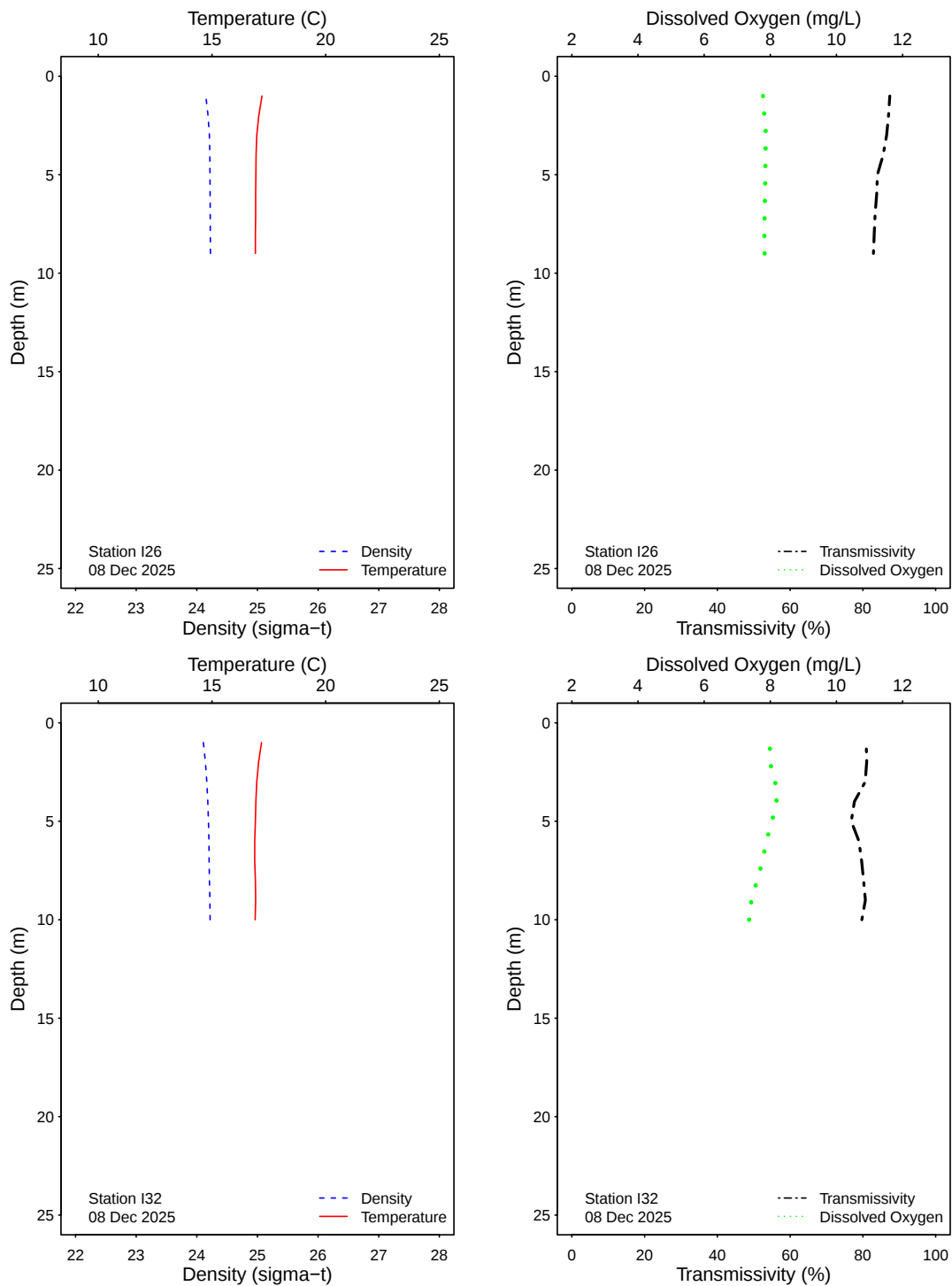


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

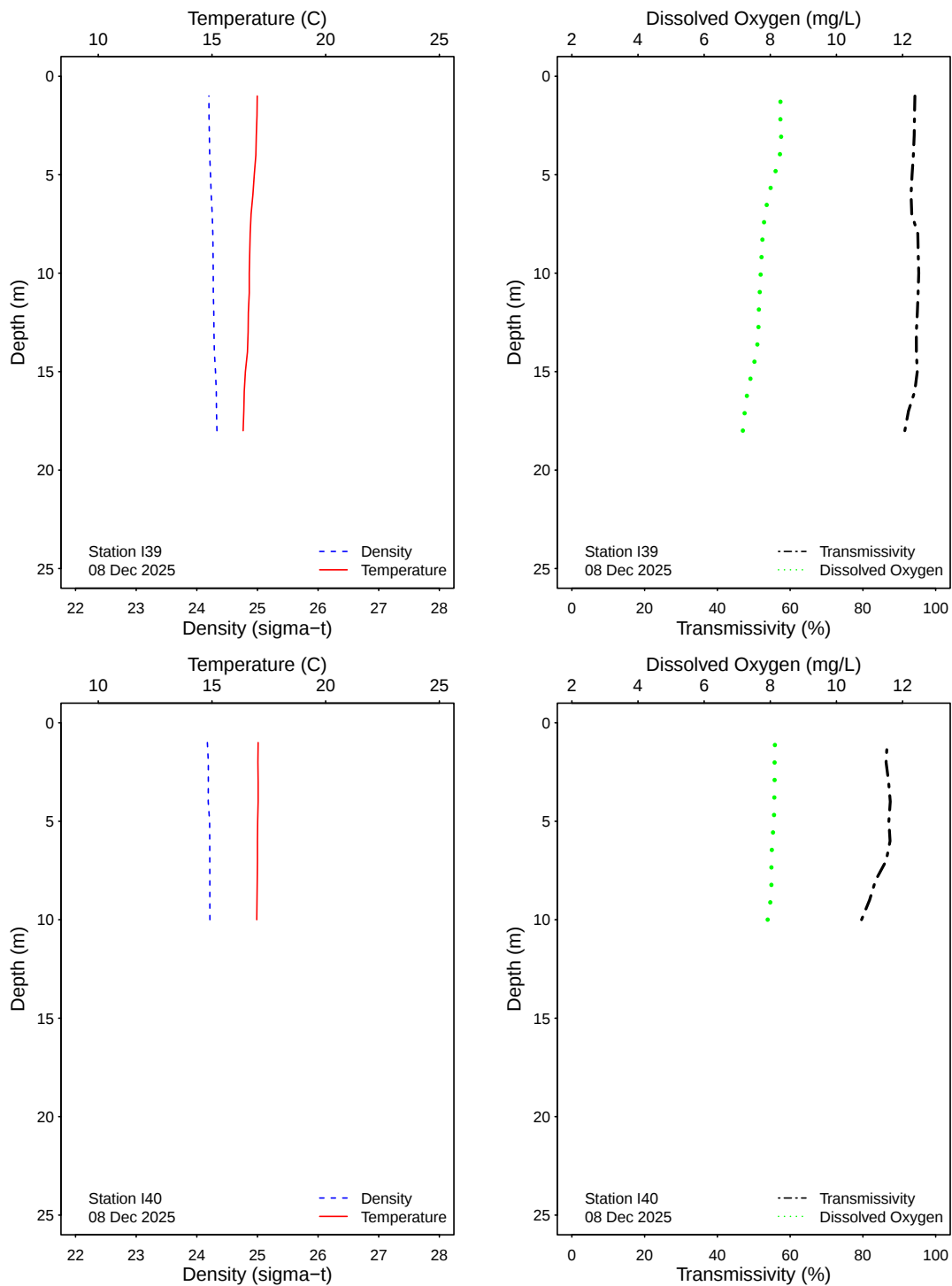


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

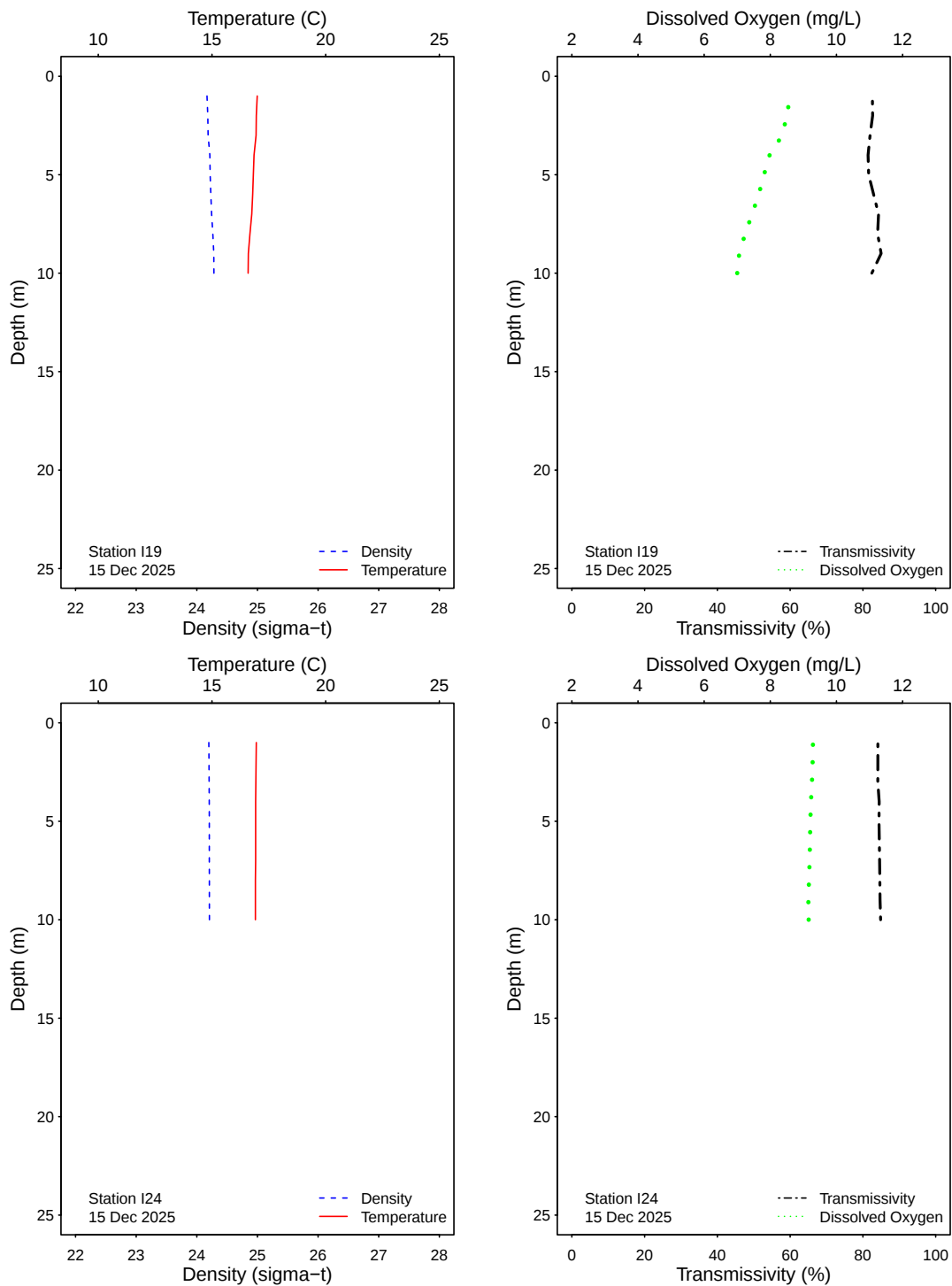


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

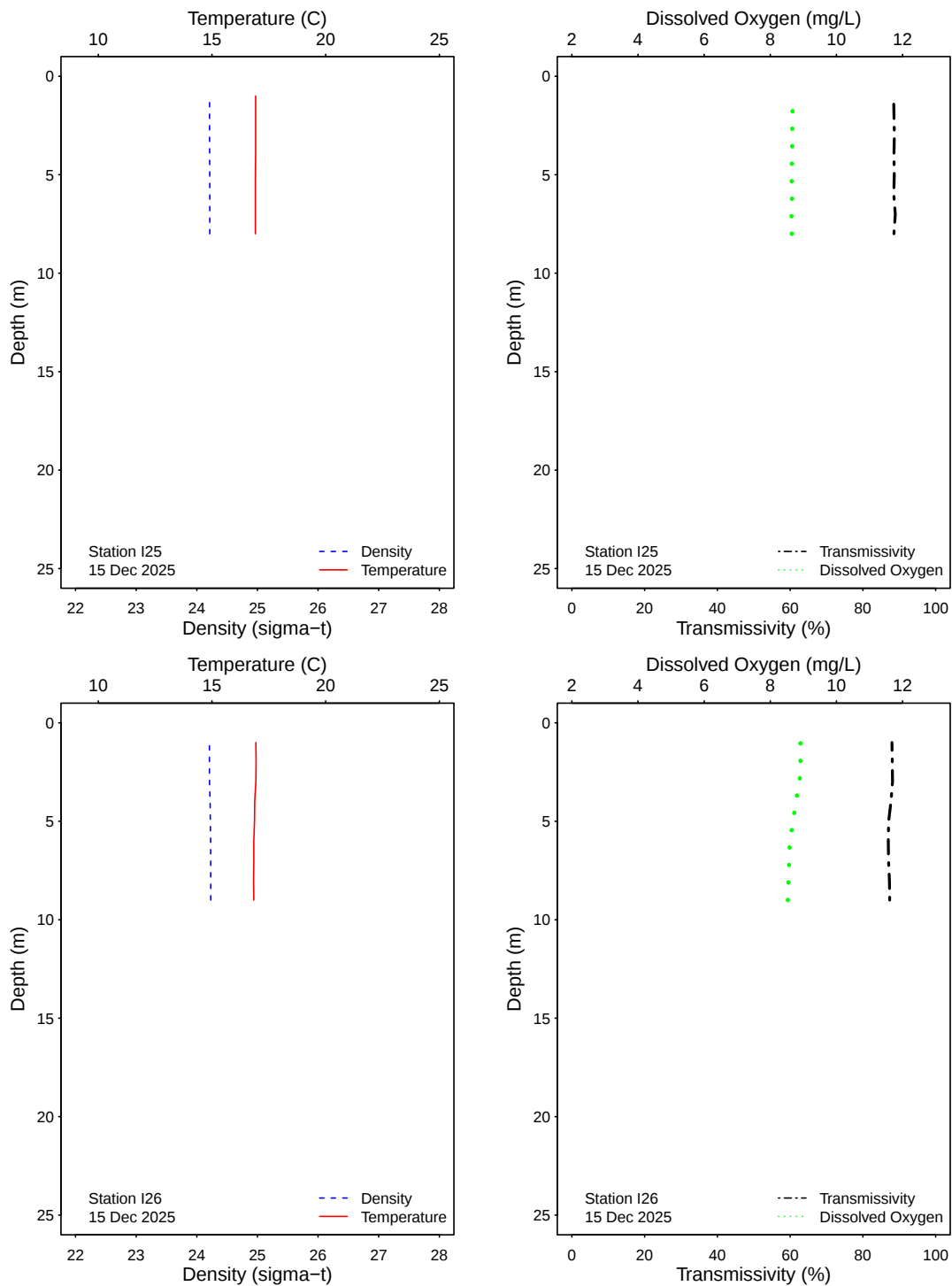


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

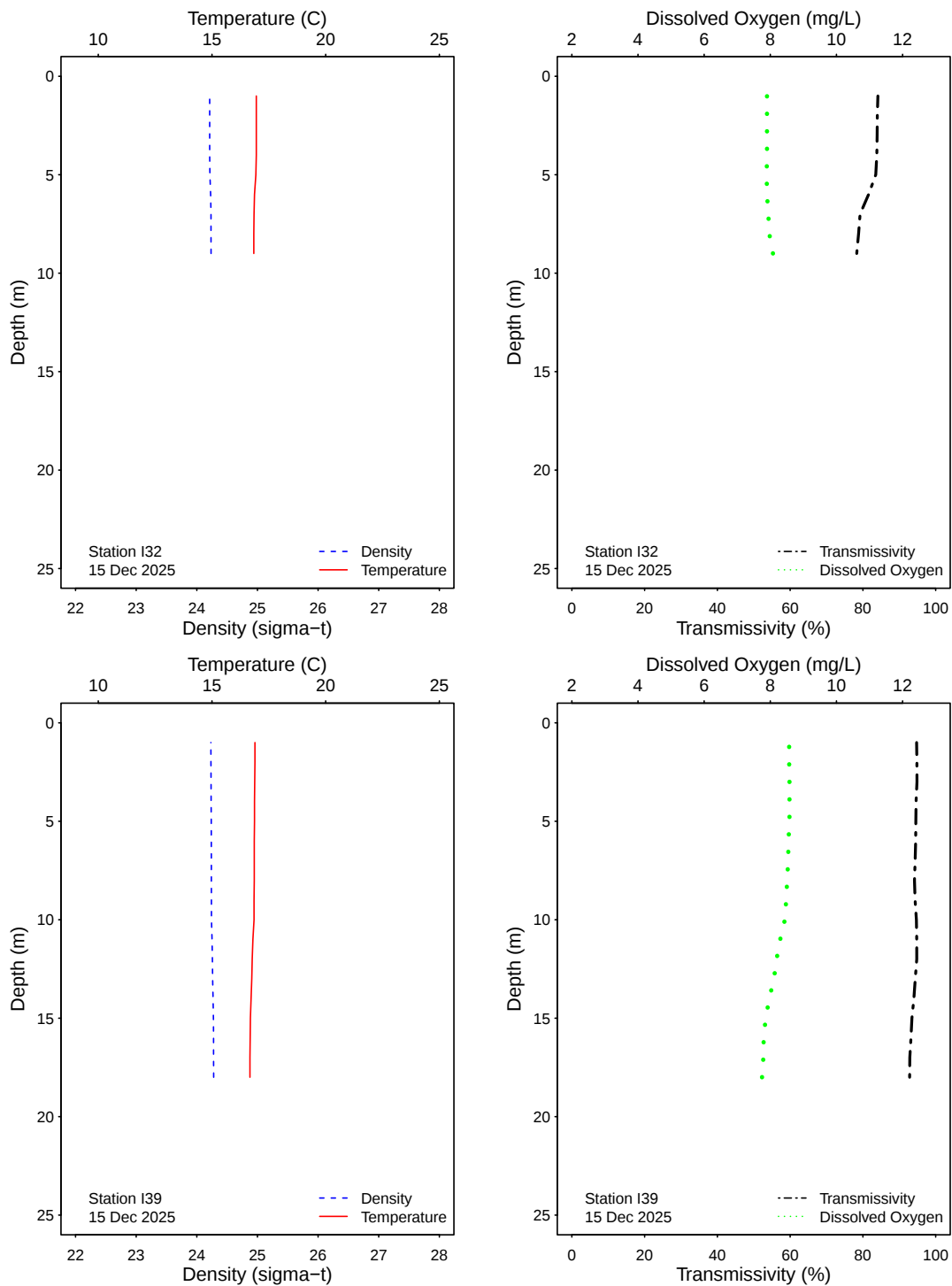


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

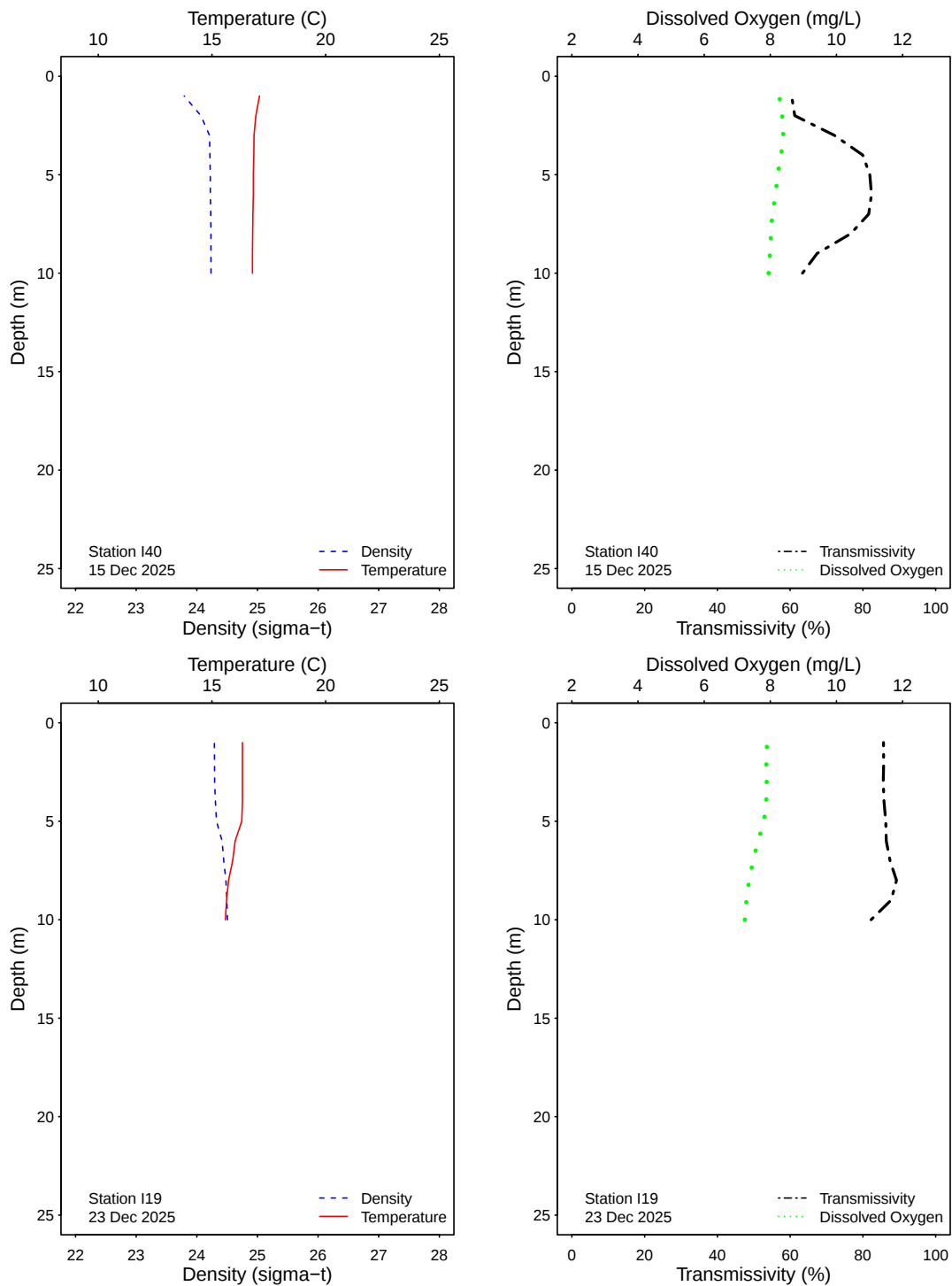


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

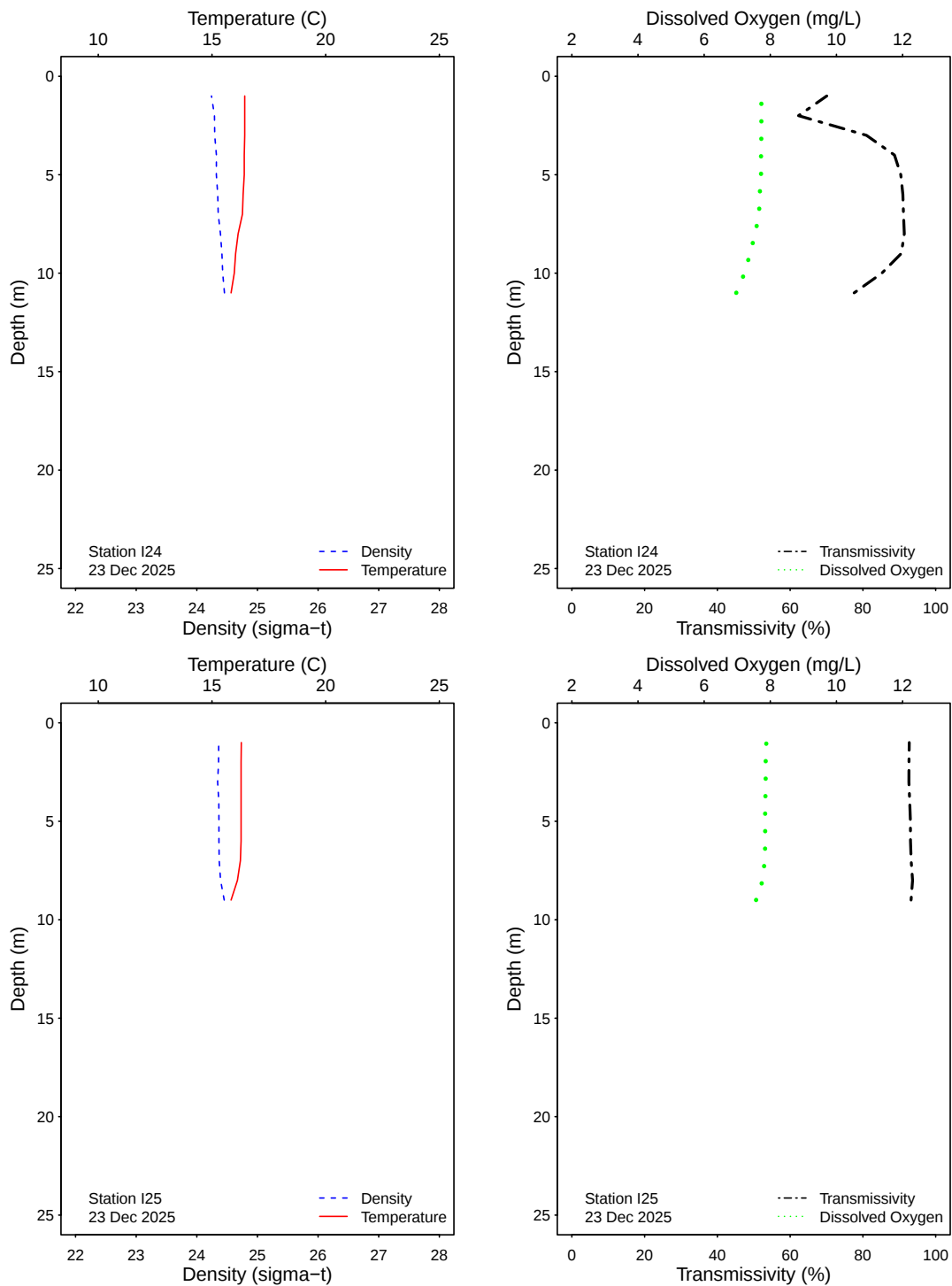


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

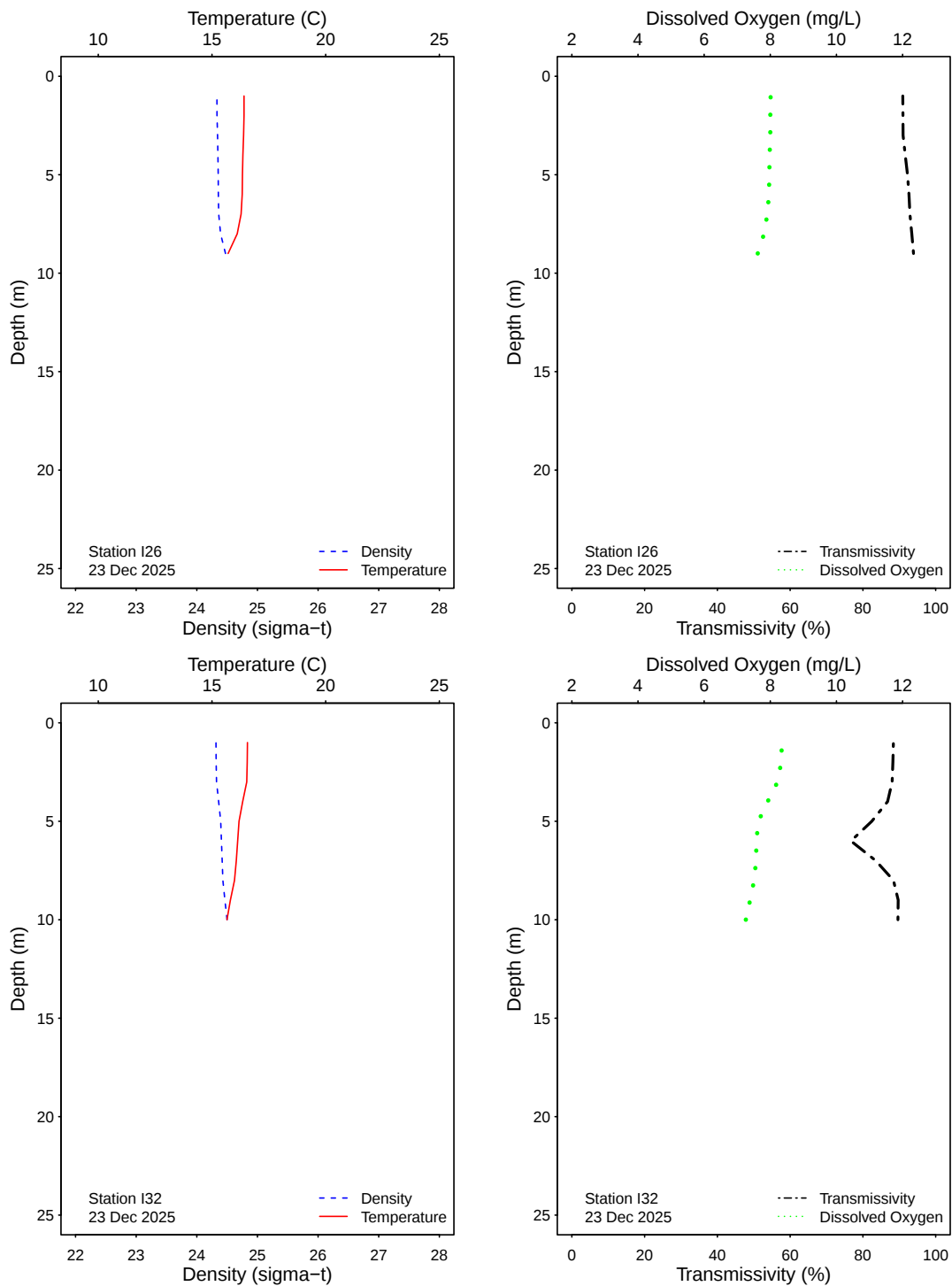


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

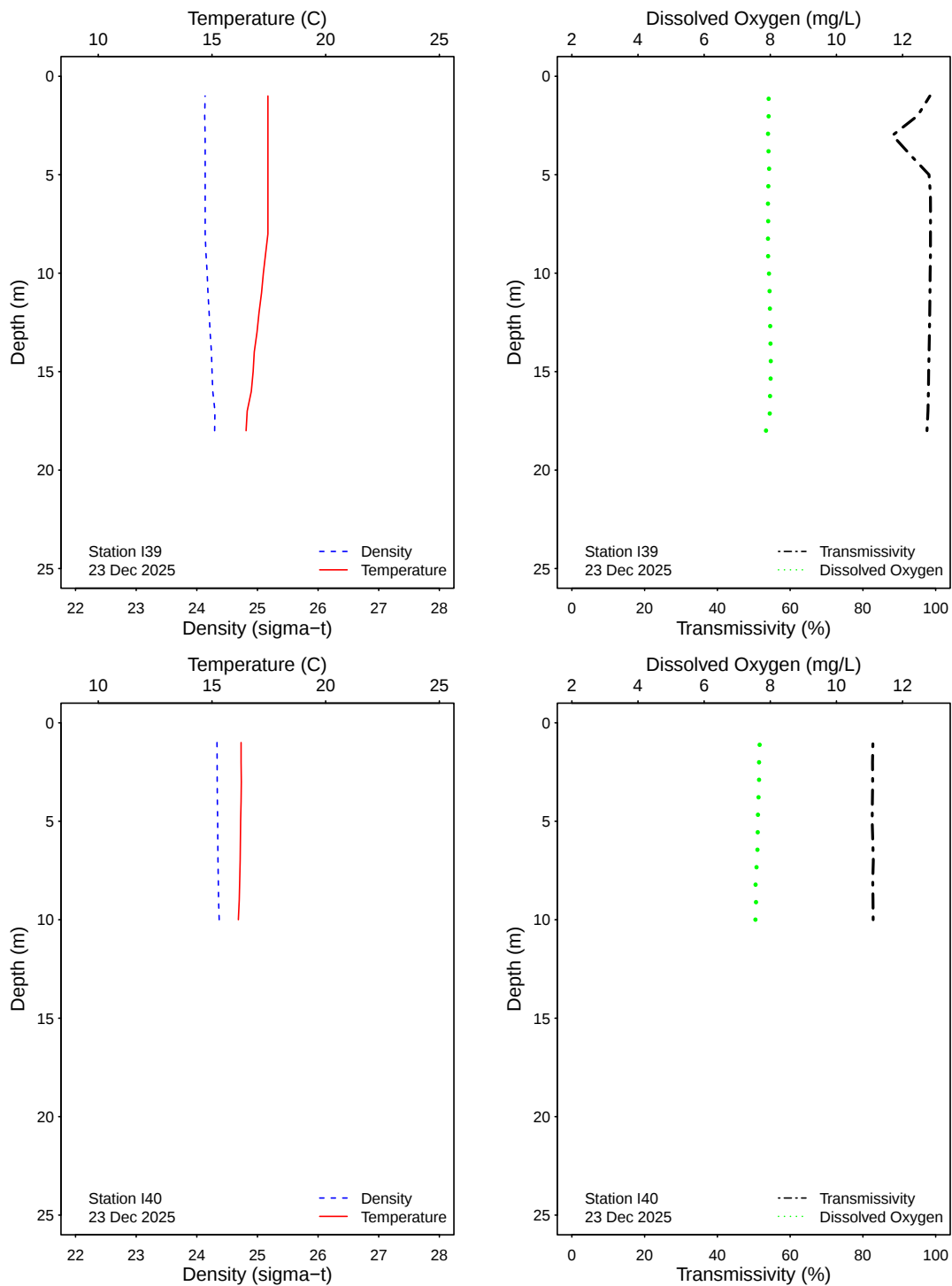


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

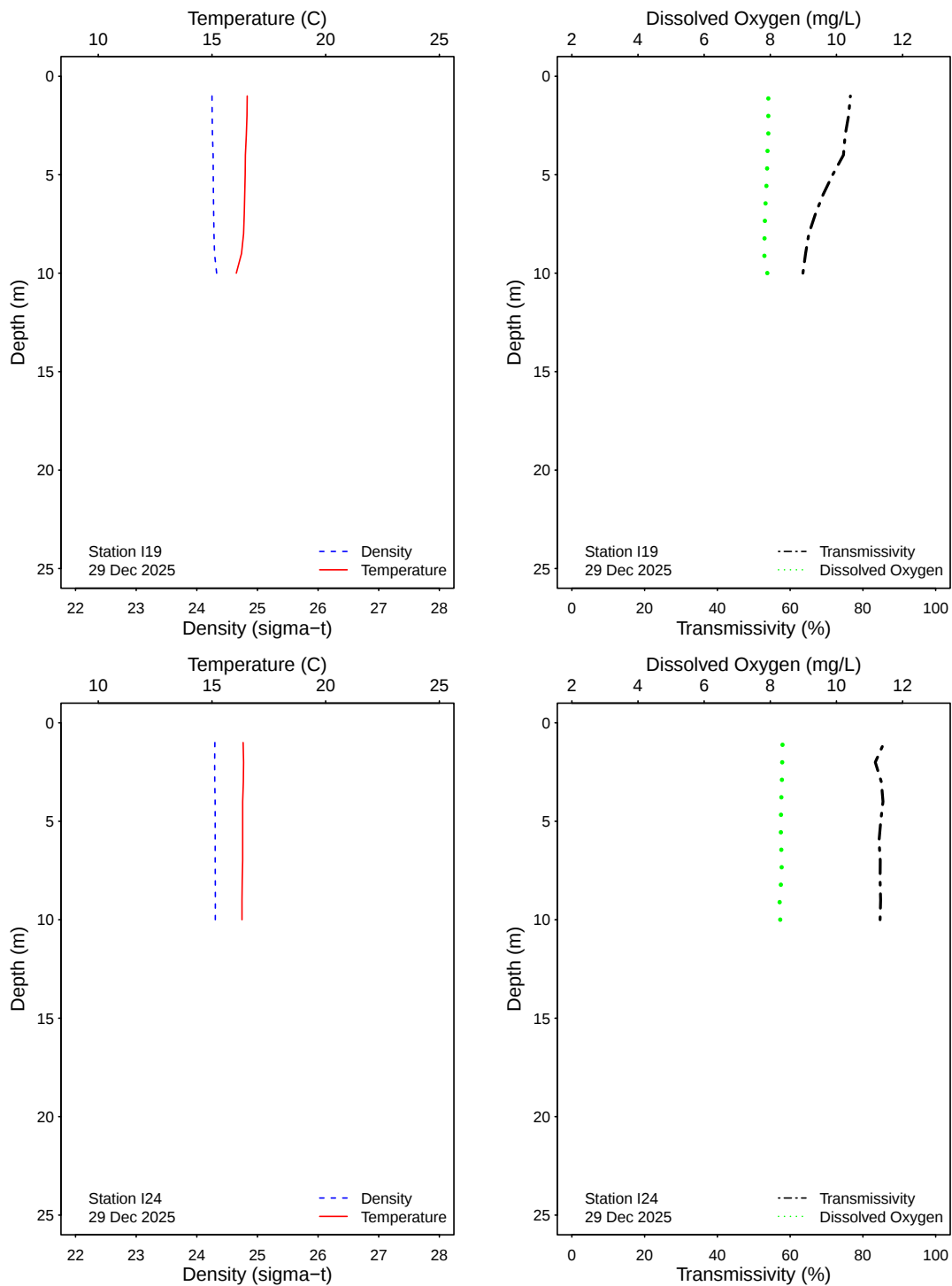


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

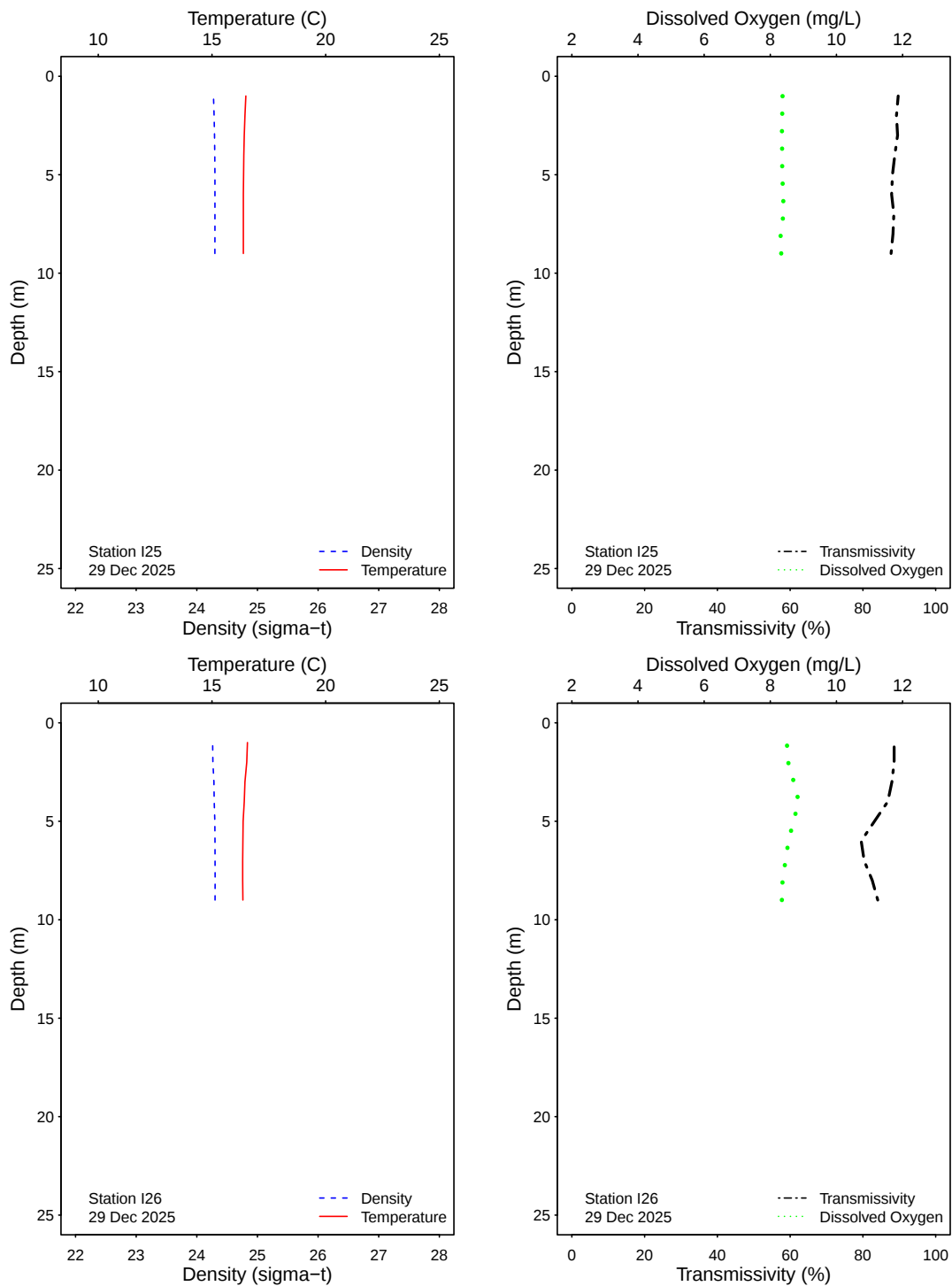


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

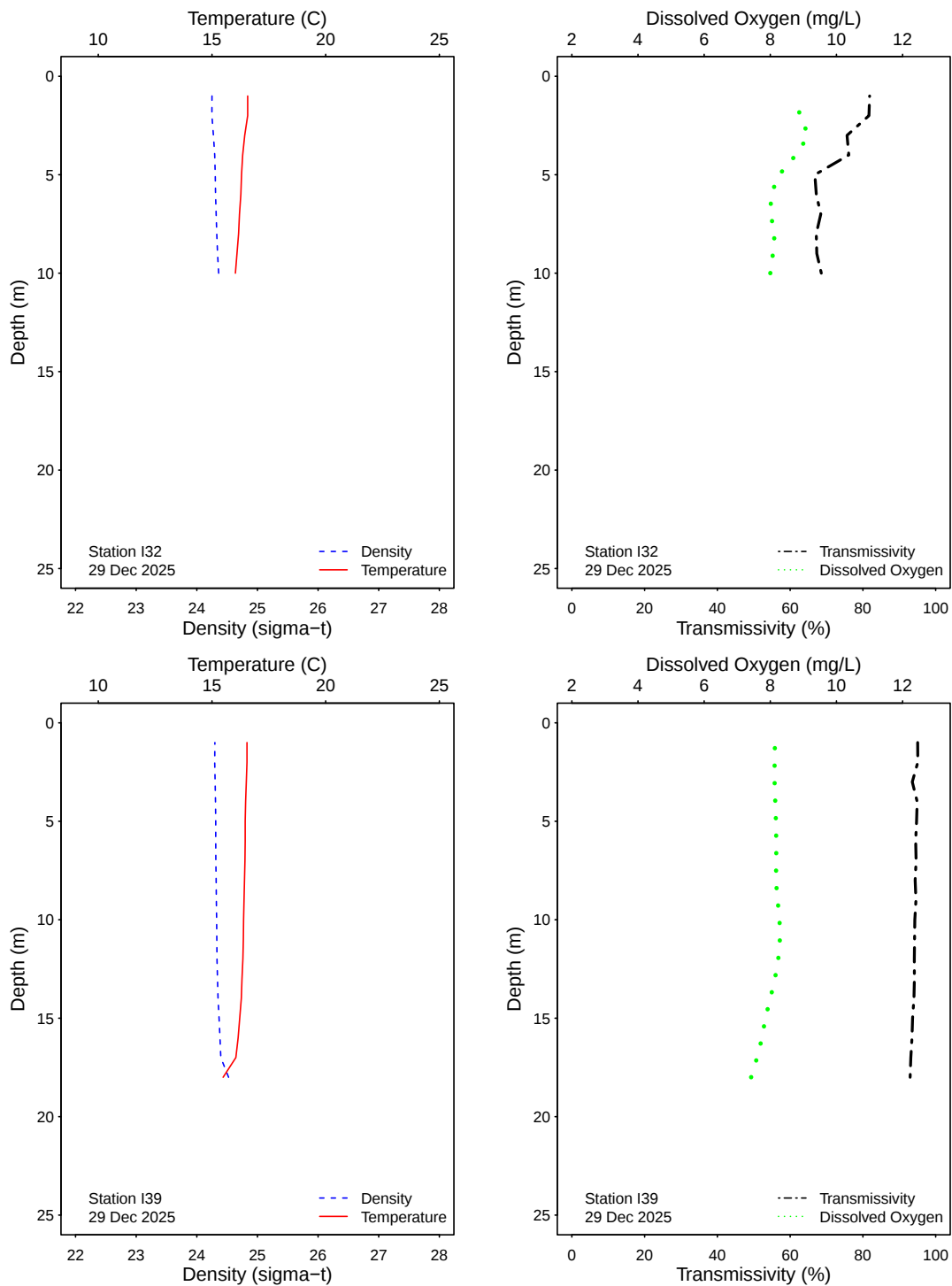


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

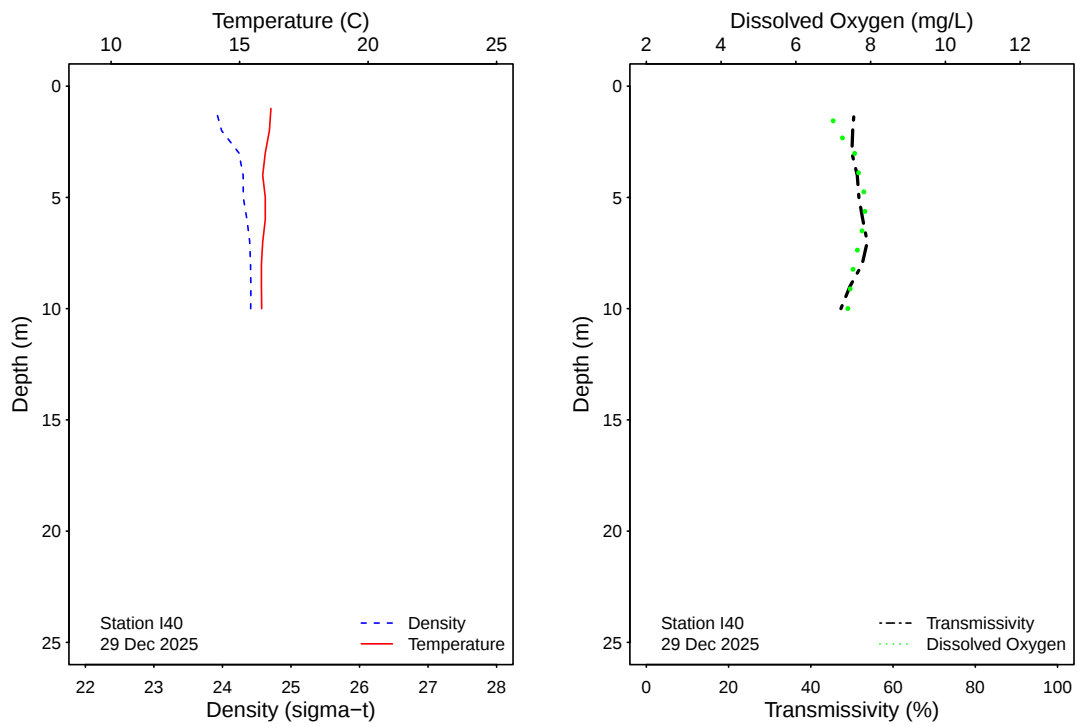


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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 Dec 2025	6	ADG	LAB DUPLICATE	12	12	24
I19	08 Dec 2025	6	ADG	LAB DUPLICATE	20	2	2
I19	15 Dec 2025	6	SS	LAB DUPLICATE	80	14	10
I19	23 Dec 2025	6	NCD	LAB DUPLICATE	1800	480	700
I19	29 Dec 2025	6	SS	LAB DUPLICATE	16000	3800	260
I40	02 Dec 2025	6	ADG	LAB DUPLICATE	16000	10000	1600
I40	08 Dec 2025	6	ADG	LAB DUPLICATE	720	80	98
I40	15 Dec 2025	6	SS	LAB DUPLICATE	1400	440	340
I40	23 Dec 2025	6	NCD	LAB DUPLICATE	7800	2800	1000
I40	29 Dec 2025	6	SS	LAB DUPLICATE	16000	12000	1600
S12	02 Dec 2025		JF	FIELD DUPLICATE	280	60	100
S12	02 Dec 2025		JF	LAB DUPLICATE	180	48	110
S12	09 Dec 2025		JF	LAB DUPLICATE	20	2	2
S12	09 Dec 2025		JF	FIELD DUPLICATE	20	2	6
S12	15 Dec 2025		ADG	FIELD DUPLICATE	ns	2	ns
S12	15 Dec 2025		ADG	LAB DUPLICATE	ns	2	ns
S12	17 Dec 2025		KT	FIELD DUPLICATE	8600	1000	440
S12	17 Dec 2025		KT	LAB DUPLICATE	7600	1800	380
S12	23 Dec 2025		KT	FIELD DUPLICATE	2	2	2
S12	23 Dec 2025		KT	LAB DUPLICATE	2	2	6
S12	29 Dec 2025		SS	FIELD DUPLICATE	40	2	2
S12	29 Dec 2025		SS	LAB DUPLICATE	20	2	2

ns = not sampled

ND = no data

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