

POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

NPDES Permit No. CA0107409
SDRWQCB Order No. R9-2017-0007

SEPTEMBER 2025

Environmental Monitoring and Technical Services
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October 31, 2025

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the September 2025 Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2017-0007, NPDES Permit No. CA0107409.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the Point Loma outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan.

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 for the San Diego coastal region surrounding the Point Loma Ocean Outfall are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2017-0007, NPDES Permit No. CA0107409 for the Point Loma Wastewater Treatment Plant (PLWTP), Point Loma Ocean Outfall (PLOO). 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 PLWTP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

Water quality conditions are required to be monitored at eight shoreline stations, including D4, D5, D7, D8, D9, D10, D11 and D12, which range from the tip of the Point Loma Peninsula to west of Mission Bay (see station locations map). Over the past several years, due to increasing instability in several cliffside areas of Point Loma, City staff have been unable to safely access and sample several stations at various times. This has resulted in the following modifications:

- Over the past several years, due to increasing instability in some cliffside areas of Point Loma, City staff have periodically been unable to safely access and sample some stations. As a result, the after consultation with and approval by the Regional Board, the sampling location has varied between D8, D8-A and D8-B. Access to site D8 was recently restored and sampling at D8 resumed in March 2025.

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

Kelp Bed Stations

The eight kelp stations are sampled weekly according to permit specifications to monitor water quality conditions within the Point Loma kelp forest. These stations include three sites located along the inshore edge of the kelp bed paralleling the 9-m depth contour (i.e., stations C4, C5 and C6), and five sites located near the offshore edge of the kelp bed along the 18-m depth contour (i.e., stations A1, A6, A7, C7 and C8).

Routine weekly monitoring at each of the kelp bed sites consists primarily of collecting seawater samples at discrete depths to determine concentrations of fecal indicator bacteria (i.e., total coliforms, fecal coliforms, and *Enterococcus*). Water column profiles of various physical/chemical parameters are also generated during each sampling event, and visual observations of weather and water conditions are recorded at each station.

Seawater samples at the kelp bed stations are collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses are drawn from these bottles into sterile

sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of temperature, transmissivity, dissolved oxygen, pH, salinity, density, chlorophyll *a* are generated using a Sea-Bird conductivity, temperature and depth instrument (CTD), which collects these data at a rate of ≥ 4 scans per second. These scans are then internally averaged to create water column profiles with data readings at a rate of one per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

Offshore water quality sampling is conducted quarterly typically during the months of February, May, August, and November. A total of 36 offshore stations (F01–F36) are sampled during each survey usually over a 3-day period. Three of the stations (F01–F03) are located along the 18 m depth contour, while 11 stations are located along each of the following contours: 60 m (stations F04–F14), 80 m (stations F15–F25), and 98 m (stations F26–F36). Of these 36 stations, 15 (F01–F03, F06–F14, F18–F20) are located within State jurisdictional waters (i.e., within 3 nautical miles of shore) and are subject to the California Ocean Plan's compliance standards. Monitoring at all offshore sites includes measurements of *Enterococcus* bacteria, water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, chromomorphic dissolved organic matter (CDOM), and visual observations of weather and water conditions.

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

Bacteriological Reporting and Quality Assurance

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

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

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

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

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

Single Sample Maximums:

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

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 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

As of October 2020, new 2019 Ocean Plan Water Quality Objectives are included for *Enterococcus* and total coliforms, see Appendix B.

Shore Stations

- The eight shore stations (D4, D5, D7, D8, D9, D10, D11, D12) were sampled on September 3, 8, 17, and 24.
- During the September reporting period, each of the eight shore stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- A sewage-like odor was detected at station D5 on one or more days in September.
- Over the years, elevated bacteria levels at shore and kelp bed stations have tended to be associated with rainfall events, heavy recreational use, or the presence of seabirds or decaying kelp and surf grass. 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 Stations

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled on September 2, 8, 16, 23, and 29.
- During the September reporting period, each of the eight kelp stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.

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

- Water column temperatures ranged from 13.52 to 20.73°C. The difference between surface and bottom waters ranged from 0.52 to 6.15°C.
- Chlorophyll *a* concentrations ranged from 0.27 to 4.64 µg/L.
- Nothing of sewage origin was observed at PLOO kelp stations in September.

Offshore Stations

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



TABLES AND FIGURES

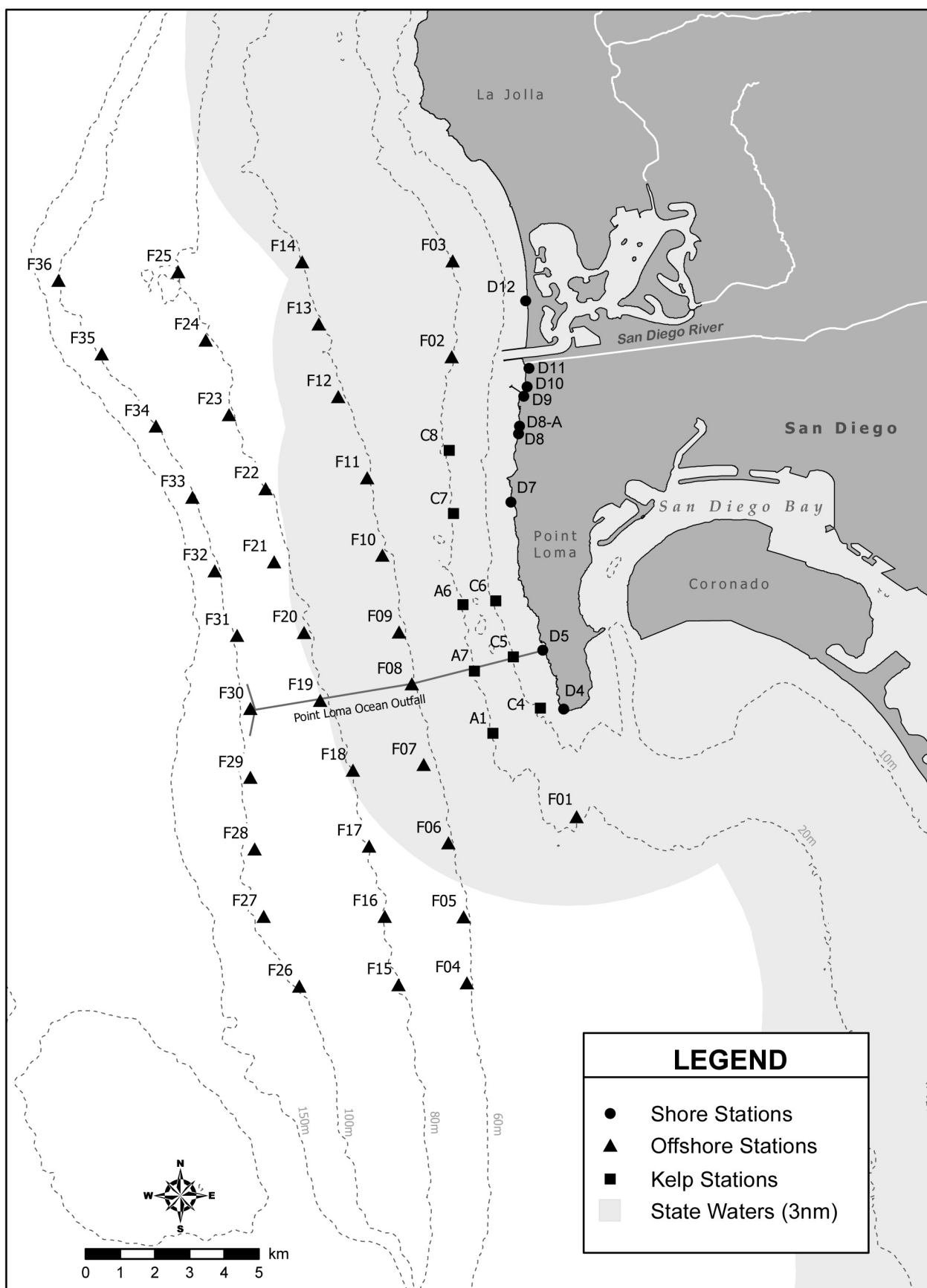


Figure 1.1 Station Map

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Shore Stations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
01 Sep 2025	*5	*4	*2	*3	*2	*8	*11	*4
02 Sep 2025	*5	*4	*2	*3	*2	*8	*11	*4
03 Sep 2025	4	3	2	3	2	6	8	3
04 Sep 2025	4	3	2	3	2	6	8	3
05 Sep 2025	*5	*4	*2	*3	*2	*5	*5	*4
06 Sep 2025	*5	*4	*2	*3	*2	*5	*5	*4
07 Sep 2025	*5	*4	*2	*3	*2	*5	*5	*4
08 Sep 2025	5	3	2	4	2	6	5	3
09 Sep 2025	5	3	2	4	2	6	5	3
10 Sep 2025	5	3	2	4	2	6	5	3
11 Sep 2025	5	3	2	4	2	6	5	3
12 Sep 2025	*6	*4	*2	*5	*2	*9	*3	*4
13 Sep 2025	*6	*4	*2	*5	*2	*9	*3	*4
14 Sep 2025	*6	*4	*2	*5	*2	*9	*3	*4
15 Sep 2025	*6	*4	*2	*5	*2	*9	*3	*4
16 Sep 2025	*6	*4	*2	*5	*2	*9	*3	*4
17 Sep 2025	5	3	2	4	2	6	4	5
18 Sep 2025	5	3	2	4	2	6	4	5
19 Sep 2025	*3	*2	*2	*4	*2	*5	*4	*4
20 Sep 2025	*3	*2	*2	*4	*2	*5	*4	*4
21 Sep 2025	*3	*2	*2	*4	*2	*5	*4	*4
22 Sep 2025	*3	*2	*2	*4	*2	*5	*4	*4
23 Sep 2025	*3	*2	*2	*4	*2	*5	*4	*4
24 Sep 2025	3	2	2	4	2	7	5	5
25 Sep 2025	3	2	2	4	2	7	5	5
26 Sep 2025	*2	*2	*2	*5	*2	*7	*6	*6
27 Sep 2025	*2	*2	*2	*5	*2	*7	*6	*6
28 Sep 2025	*2	*2	*2	*5	*2	*7	*6	*6
29 Sep 2025	*2	*2	*2	*5	*2	*7	*6	*6
30 Sep 2025	*2	*2	*2	*5	*2	*7	*6	*6

* Geometric mean calculated using $n < 5$

Table 2.2

Summary of compliance at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
03 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
17 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
24 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the PLOO 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 >35 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8	D9	D10	D11	D12
01 Sep 2025	*2	*2	*2	*4	*2	*5	*13	*3
02 Sep 2025	*2	*2	*2	*4	*2	*5	*13	*3
03 Sep 2025	2	2	2	3	2	4	9	4
04 Sep 2025	2	2	2	3	2	4	9	4
05 Sep 2025	*2	*2	*2	*4	*2	*3	*7	*5
06 Sep 2025	*2	*2	*2	*4	*2	*3	*7	*5
07 Sep 2025	*2	*2	*2	*4	*2	*3	*7	*5
08 Sep 2025	2	2	2	3	2	4	8	5
09 Sep 2025	2	2	2	3	2	4	8	5
10 Sep 2025	2	2	2	3	2	4	8	5
11 Sep 2025	2	2	2	3	2	4	8	5
12 Sep 2025	*2	*2	*2	*4	*2	*5	*5	*6
13 Sep 2025	*2	*2	*2	*4	*2	*5	*5	*6
14 Sep 2025	*2	*2	*2	*4	*2	*5	*5	*6
15 Sep 2025	*2	*2	*2	*4	*2	*5	*5	*6
16 Sep 2025	*2	*2	*2	*4	*2	*5	*5	*6
17 Sep 2025	2	2	2	3	2	4	4	5
18 Sep 2025	2	2	2	3	2	4	4	5
19 Sep 2025	*2	*2	*2	*2	*2	*3	*3	*5
20 Sep 2025	*2	*2	*2	*2	*2	*3	*3	*5
21 Sep 2025	*2	*2	*2	*2	*2	*3	*3	*5
22 Sep 2025	*2	*2	*2	*2	*2	*3	*3	*5
23 Sep 2025	*2	*2	*2	*2	*2	*3	*3	*5
24 Sep 2025	2	2	3	2	2	4	3	5
25 Sep 2025	2	2	3	2	2	4	3	5
26 Sep 2025	*2	*2	*3	*2	*2	*4	*3	*6
27 Sep 2025	*2	*2	*3	*2	*2	*4	*3	*6
28 Sep 2025	*2	*2	*3	*2	*2	*4	*3	*6
29 Sep 2025	*2	*2	*3	*2	*2	*4	*3	*6
30 Sep 2025	*2	*2	*3	*2	*2	*4	*3	*6

* Geometric mean calculated using $n < 5$

Table 2.4

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	D4	D5	D7	D8	D9	D10	D11	D12
03 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
17 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
24 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the PLOO 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 >1000 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8	D9	D10	D11	D12
01 Sep 2025	*36	*42	*36	*34	*54	*58	*35	*15
02 Sep 2025	*36	*42	*36	*34	*54	*58	*35	*15
03 Sep 2025	23	36	20	30	47	41	27	18
04 Sep 2025	23	36	20	30	47	41	27	18
05 Sep 2025	*24	*36	*20	*24	*50	*41	*19	*18
06 Sep 2025	*24	*36	*20	*24	*50	*41	*19	*18
07 Sep 2025	*24	*36	*20	*24	*50	*41	*19	*18
08 Sep 2025	23	32	32	36	42	41	20	18
09 Sep 2025	23	32	32	36	42	41	20	18
10 Sep 2025	23	32	32	36	42	41	20	18
11 Sep 2025	23	32	32	36	42	41	20	18
12 Sep 2025	*24	*36	*36	*42	*32	*49	*15	*18
13 Sep 2025	*24	*36	*36	*42	*32	*49	*15	*18
14 Sep 2025	*24	*36	*36	*42	*32	*49	*15	*18
15 Sep 2025	*24	*36	*36	*42	*32	*49	*15	*18
16 Sep 2025	*24	*36	*36	*42	*32	*49	*15	*18
17 Sep 2025	23	32	32	36	33	51	16	18
18 Sep 2025	23	32	32	36	33	51	16	18
19 Sep 2025	*13	*20	*20	*36	*28	*43	*15	*18
20 Sep 2025	*13	*20	*20	*36	*28	*43	*15	*18
21 Sep 2025	*13	*20	*20	*36	*28	*43	*15	*18
22 Sep 2025	*13	*20	*20	*36	*28	*43	*15	*18
23 Sep 2025	*13	*20	*20	*36	*28	*43	*15	*18
24 Sep 2025	14	20	32	32	33	42	18	17
25 Sep 2025	14	20	32	32	33	42	18	17
26 Sep 2025	*13	*20	*36	*36	*33	*31	*20	*22
27 Sep 2025	*13	*20	*36	*36	*33	*31	*20	*22
28 Sep 2025	*13	*20	*36	*36	*33	*31	*20	*22
29 Sep 2025	*13	*20	*36	*36	*33	*31	*20	*22
30 Sep 2025	*13	*20	*36	*36	*33	*31	*20	*22

* Median calculated using n<5

Table 2.6

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum for total coliform bacteria, which states that total coliform density shall not exceed 10^4 CFU/100 mL.

Date	D4	D5	D7	D8	D9	D10	D11	D12
03 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
17 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
24 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	D4	D5	D7	D8	D9	D10	D11	D12
03 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
17 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
24 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.8

Summary of water quality parameters at the PLOO 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
D10	03 Sep 2025	1018	10e	<2	<2
D10	08 Sep 2025	940	40e	26e	10e
D10	17 Sep 2025	934	60e	2e	<2
D10	24 Sep 2025	921	40e	22e	8e
D11	03 Sep 2025	1004	10e	<2	2e
D11	08 Sep 2025	954	<20	6e	16e
D11	17 Sep 2025	921	20e	10e	<2
D11	24 Sep 2025	907	40e	10e	2e
D12	03 Sep 2025	940	40e	<2	20e
D12	08 Sep 2025	1018	<20	<2	6e
D12	17 Sep 2025	857	<20	<20	2e
D12	24 Sep 2025	834	16e	<20	6e
D4	03 Sep 2025	1213	4e	<2	2e
D4	08 Sep 2025	815	<20	4e	<2
D4	17 Sep 2025	1100	20e	<2	<2
D4	24 Sep 2025	1043	<20	<2	<2
D5	03 Sep 2025	1158	<20	<2	<2
D5	08 Sep 2025	833	<20	2e	<2
D5	17 Sep 2025	1049	<20	<2	2e
D5	24 Sep 2025	1029	<20	<2	2e
D7	03 Sep 2025	1116	2e	<2	2e
D7	08 Sep 2025	900	<200	2e	4e
D7	17 Sep 2025	1016	<20	<2	2e
D7	24 Sep 2025	1001	<200	<2	8e
D8	03 Sep 2025	1054	<20	<2	<2
D8	08 Sep 2025	915	<200	<20	2e
D8	17 Sep 2025	1001	20e	<2	<2
D8	24 Sep 2025	948	20e	6e	2e
D9	03 Sep 2025	1036	26e	<2	<2
D9	08 Sep 2025	928	20e	<2	<2
D9	17 Sep 2025	947	36e	<2	2e
D9	24 Sep 2025	935	60e	4e	<2

ns = not sampled

ND = no data

Comments

date	station	depth	parmcode	comments
24-Sep-2025				mFC QC neg ctrl had growth, likely due to analyst LA. Sample results not believed to be affected -BS 10/1/25

Table 2.9

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

Station	Date	Parameter	Value
D4	03 Sep 2025	Arrive Time	1213
D4	03 Sep 2025	Wind Speed (kts)	0.2
D4	03 Sep 2025	Wind Dir	W
D4	03 Sep 2025	Animal Life	
D4	03 Sep 2025	Floatables	
D4	03 Sep 2025	Current Direction	S
D4	03 Sep 2025	Water Temp (C)	20
D4	03 Sep 2025	High Tide Time	818
D4	03 Sep 2025	Low Tide Time	141
D4	03 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
D4	08 Sep 2025	Arrive Time	815
D4	08 Sep 2025	Wind Speed (kts)	0
D4	08 Sep 2025	Wind Dir	XX
D4	08 Sep 2025	Animal Life	
D4	08 Sep 2025	Floatables	
D4	08 Sep 2025	Current Direction	S
D4	08 Sep 2025	Water Temp (C)	16.8
D4	08 Sep 2025	High Tide Time	1008
D4	08 Sep 2025	Low Tide Time	406
D4	08 Sep 2025	Comments	Water clear; Boater/Kayaker-2; Trash-1; Kelp;Seagrass;Algae
D4	17 Sep 2025	Arrive Time	1100
D4	17 Sep 2025	Wind Speed (kts)	2.4
D4	17 Sep 2025	Wind Dir	SW
D4	17 Sep 2025	Animal Life	
D4	17 Sep 2025	Floatables	
D4	17 Sep 2025	Current Direction	S
D4	17 Sep 2025	Water Temp (C)	19.6
D4	17 Sep 2025	High Tide Time	755
D4	17 Sep 2025	Low Tide Time	126
D4	17 Sep 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris
D4	24 Sep 2025	Arrive Time	1043
D4	24 Sep 2025	Wind Speed (kts)	1.7
D4	24 Sep 2025	Wind Dir	W
D4	24 Sep 2025	Animal Life	
D4	24 Sep 2025	Floatables	
D4	24 Sep 2025	Current Direction	S
D4	24 Sep 2025	Water Temp (C)	17.4
D4	24 Sep 2025	High Tide Time	1035
D4	24 Sep 2025	Low Tide Time	429
D4	24 Sep 2025	Comments	Water clear; Trash-5; Seagrass;Algae;Debris
D5	03 Sep 2025	Arrive Time	1158
D5	03 Sep 2025	Wind Speed (kts)	2.7
D5	03 Sep 2025	Wind Dir	W
D5	03 Sep 2025	Animal Life	
D5	03 Sep 2025	Floatables	
D5	03 Sep 2025	Current Direction	S
D5	03 Sep 2025	Water Temp (C)	20
D5	03 Sep 2025	High Tide Time	818
D5	03 Sep 2025	Low Tide Time	141
D5	03 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae

Station	Date	Parameter	Value
D5	08 Sep 2025	Arrive Time	833
D5	08 Sep 2025	Wind Speed (kts)	0
D5	08 Sep 2025	Wind Dir	XX
D5	08 Sep 2025	Animal Life	
D5	08 Sep 2025	Floatables	
D5	08 Sep 2025	Current Direction	S
D5	08 Sep 2025	Water Temp (C)	18
D5	08 Sep 2025	High Tide Time	1008
D5	08 Sep 2025	Low Tide Time	406
D5	08 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
D5	17 Sep 2025	Arrive Time	1049
D5	17 Sep 2025	Wind Speed (kts)	1.2
D5	17 Sep 2025	Wind Dir	W
D5	17 Sep 2025	Animal Life	
D5	17 Sep 2025	Floatables	
D5	17 Sep 2025	Current Direction	S
D5	17 Sep 2025	Water Temp (C)	20
D5	17 Sep 2025	High Tide Time	755
D5	17 Sep 2025	Low Tide Time	126
D5	17 Sep 2025	Comments	Water clear; Trash-1
D5	24 Sep 2025	Arrive Time	1029
D5	24 Sep 2025	Wind Speed (kts)	2.7
D5	24 Sep 2025	Wind Dir	W
D5	24 Sep 2025	Animal Life	
D5	24 Sep 2025	Floatables	
D5	24 Sep 2025	Current Direction	S
D5	24 Sep 2025	Water Temp (C)	18.9
D5	24 Sep 2025	High Tide Time	1035
D5	24 Sep 2025	Low Tide Time	429
D5	24 Sep 2025	Comments	Water clear; Trash-1; Algae;Seagrass; Sewage-like odor
D7	03 Sep 2025	Arrive Time	1116
D7	03 Sep 2025	Wind Speed (kts)	0
D7	03 Sep 2025	Wind Dir	XX
D7	03 Sep 2025	Animal Life	
D7	03 Sep 2025	Floatables	
D7	03 Sep 2025	Current Direction	S
D7	03 Sep 2025	Water Temp (C)	23.3
D7	03 Sep 2025	High Tide Time	818
D7	03 Sep 2025	Low Tide Time	141
D7	03 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-3; Trash-1; Kelp;Algae;Seagrass
D7	08 Sep 2025	Arrive Time	900
D7	08 Sep 2025	Wind Speed (kts)	0
D7	08 Sep 2025	Wind Dir	XX
D7	08 Sep 2025	Animal Life	
D7	08 Sep 2025	Floatables	
D7	08 Sep 2025	Current Direction	S
D7	08 Sep 2025	Water Temp (C)	17.9
D7	08 Sep 2025	High Tide Time	1008
D7	08 Sep 2025	Low Tide Time	406
D7	08 Sep 2025	Comments	Water clear; Trash-1; Seagrass;Algae;Kelp; Person/Walker/Jogger-2
D7	17 Sep 2025	Arrive Time	1016
D7	17 Sep 2025	Wind Speed (kts)	0
D7	17 Sep 2025	Wind Dir	SW
D7	17 Sep 2025	Animal Life	

Station	Date	Parameter	Value
D7	17 Sep 2025	Floatables	
D7	17 Sep 2025	Current Direction	S
D7	17 Sep 2025	Water Temp (C)	19.6
D7	17 Sep 2025	High Tide Time	755
D7	17 Sep 2025	Low Tide Time	126
D7	17 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-3; Trash-1; Seagrass;Algae;Kelp
D7	24 Sep 2025	Arrive Time	1001
D7	24 Sep 2025	Wind Speed (kts)	1.1
D7	24 Sep 2025	Wind Dir	W
D7	24 Sep 2025	Animal Life	
D7	24 Sep 2025	Floatables	
D7	24 Sep 2025	Current Direction	S
D7	24 Sep 2025	Water Temp (C)	19.1
D7	24 Sep 2025	High Tide Time	1035
D7	24 Sep 2025	Low Tide Time	429
D7	24 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D8	03 Sep 2025	Arrive Time	1054
D8	03 Sep 2025	Wind Speed (kts)	0
D8	03 Sep 2025	Wind Dir	XX
D8	03 Sep 2025	Animal Life	Dog-2;
D8	03 Sep 2025	Floatables	
D8	03 Sep 2025	Current Direction	S
D8	03 Sep 2025	Water Temp (C)	19.7
D8	03 Sep 2025	High Tide Time	818
D8	03 Sep 2025	Low Tide Time	141
D8	03 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-12
D8	08 Sep 2025	Arrive Time	915
D8	08 Sep 2025	Wind Speed (kts)	0
D8	08 Sep 2025	Wind Dir	XX
D8	08 Sep 2025	Animal Life	
D8	08 Sep 2025	Floatables	
D8	08 Sep 2025	Current Direction	S
D8	08 Sep 2025	Water Temp (C)	18
D8	08 Sep 2025	High Tide Time	1008
D8	08 Sep 2025	Low Tide Time	406
D8	08 Sep 2025	Comments	Water clear; Boogie boarder/Swimmer-2; Trash-1; Kelp;Seagrass;Algae
D8	17 Sep 2025	Arrive Time	1001
D8	17 Sep 2025	Wind Speed (kts)	1.5
D8	17 Sep 2025	Wind Dir	SW
D8	17 Sep 2025	Animal Life	
D8	17 Sep 2025	Floatables	
D8	17 Sep 2025	Current Direction	S
D8	17 Sep 2025	Water Temp (C)	20.3
D8	17 Sep 2025	High Tide Time	755
D8	17 Sep 2025	Low Tide Time	126
D8	17 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae;Debris
D8	24 Sep 2025	Arrive Time	948
D8	24 Sep 2025	Wind Speed (kts)	0
D8	24 Sep 2025	Wind Dir	XX
D8	24 Sep 2025	Animal Life	Dog-2;
D8	24 Sep 2025	Floatables	
D8	24 Sep 2025	Current Direction	S
D8	24 Sep 2025	Water Temp (C)	19

Station	Date	Parameter	Value
D8	24 Sep 2025	High Tide Time	1035
D8	24 Sep 2025	Low Tide Time	429
D8	24 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-2
D9	03 Sep 2025	Arrive Time	1036
D9	03 Sep 2025	Wind Speed (kts)	0
D9	03 Sep 2025	Wind Dir	XX
D9	03 Sep 2025	Animal Life	
D9	03 Sep 2025	Floatables	
D9	03 Sep 2025	Current Direction	S
D9	03 Sep 2025	Water Temp (C)	19.7
D9	03 Sep 2025	High Tide Time	818
D9	03 Sep 2025	Low Tide Time	141
D9	03 Sep 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae; Person/Walker/Jogger-3
D9	08 Sep 2025	Arrive Time	928
D9	08 Sep 2025	Wind Speed (kts)	0
D9	08 Sep 2025	Wind Dir	XX
D9	08 Sep 2025	Animal Life	
D9	08 Sep 2025	Floatables	
D9	08 Sep 2025	Current Direction	S
D9	08 Sep 2025	Water Temp (C)	19.1
D9	08 Sep 2025	High Tide Time	1008
D9	08 Sep 2025	Low Tide Time	406
D9	08 Sep 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-1
D9	17 Sep 2025	Arrive Time	947
D9	17 Sep 2025	Wind Speed (kts)	0
D9	17 Sep 2025	Wind Dir	SW
D9	17 Sep 2025	Animal Life	
D9	17 Sep 2025	Floatables	
D9	17 Sep 2025	Current Direction	S
D9	17 Sep 2025	Water Temp (C)	20.6
D9	17 Sep 2025	High Tide Time	755
D9	17 Sep 2025	Low Tide Time	126
D9	17 Sep 2025	Comments	Water clear; Trash-1; Algae
D9	24 Sep 2025	Arrive Time	935
D9	24 Sep 2025	Wind Speed (kts)	0
D9	24 Sep 2025	Wind Dir	W
D9	24 Sep 2025	Animal Life	
D9	24 Sep 2025	Floatables	
D9	24 Sep 2025	Current Direction	S
D9	24 Sep 2025	Water Temp (C)	19.8
D9	24 Sep 2025	High Tide Time	1035
D9	24 Sep 2025	Low Tide Time	429
D9	24 Sep 2025	Comments	Water clear; Trash-5; Algae; Person/Walker/Jogger-2
D10	03 Sep 2025	Arrive Time	1018
D10	03 Sep 2025	Wind Speed (kts)	3
D10	03 Sep 2025	Wind Dir	W
D10	03 Sep 2025	Animal Life	
D10	03 Sep 2025	Floatables	
D10	03 Sep 2025	Current Direction	S
D10	03 Sep 2025	Water Temp (C)	20.5
D10	03 Sep 2025	High Tide Time	818
D10	03 Sep 2025	Low Tide Time	141

Station	Date	Parameter	Value
D10	03 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-11; Trash-1; Kelp;Sea-grass; Person/Walker/Jogger-22
D10	08 Sep 2025	Arrive Time	940
D10	08 Sep 2025	Wind Speed (kts)	2
D10	08 Sep 2025	Wind Dir	W
D10	08 Sep 2025	Animal Life	
D10	08 Sep 2025	Floatables	
D10	08 Sep 2025	Current Direction	S
D10	08 Sep 2025	Water Temp (C)	18
D10	08 Sep 2025	High Tide Time	1008
D10	08 Sep 2025	Low Tide Time	406
D10	08 Sep 2025	Comments	Water clear; Boogie boarder/Swimmer-3; Surfer/Paddle boarder-11; Trash-1; Kelp;Sea-grass; Person/Walker/Jogger-7
D10	17 Sep 2025	Arrive Time	934
D10	17 Sep 2025	Wind Speed (kts)	2
D10	17 Sep 2025	Wind Dir	SW
D10	17 Sep 2025	Animal Life	
D10	17 Sep 2025	Floatables	
D10	17 Sep 2025	Current Direction	S
D10	17 Sep 2025	Water Temp (C)	19.8
D10	17 Sep 2025	High Tide Time	755
D10	17 Sep 2025	Low Tide Time	126
D10	17 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-7; Trash-4; Kelp;Sea-grass;Debris; Person/Walker/Jogger-11
D10	24 Sep 2025	Arrive Time	921
D10	24 Sep 2025	Wind Speed (kts)	0
D10	24 Sep 2025	Wind Dir	W
D10	24 Sep 2025	Animal Life	
D10	24 Sep 2025	Floatables	
D10	24 Sep 2025	Current Direction	S
D10	24 Sep 2025	Water Temp (C)	18.7
D10	24 Sep 2025	High Tide Time	1035
D10	24 Sep 2025	Low Tide Time	429
D10	24 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-10; Trash-1; Kelp;Sea-grass;Algae;Debris
D11	03 Sep 2025	Arrive Time	1004
D11	03 Sep 2025	Wind Speed (kts)	3
D11	03 Sep 2025	Wind Dir	W
D11	03 Sep 2025	Animal Life	
D11	03 Sep 2025	Floatables	
D11	03 Sep 2025	Current Direction	S
D11	03 Sep 2025	Water Temp (C)	19.4
D11	03 Sep 2025	High Tide Time	818
D11	03 Sep 2025	Low Tide Time	141
D11	03 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-13; Trash-1; Kelp;Sea-grass;Algae; Person/Walker/Jogger-4
D11	08 Sep 2025	Arrive Time	954
D11	08 Sep 2025	Wind Speed (kts)	2.4
D11	08 Sep 2025	Wind Dir	W
D11	08 Sep 2025	Animal Life	
D11	08 Sep 2025	Floatables	
D11	08 Sep 2025	Current Direction	S
D11	08 Sep 2025	Water Temp (C)	18.5
D11	08 Sep 2025	High Tide Time	1008
D11	08 Sep 2025	Low Tide Time	406

Station	Date	Parameter	Value
D11	08 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-11; Trash-1; Sea-grass;Kelp;Algae; Person/Walker/Jogger-3
D11	17 Sep 2025	Arrive Time	921
D11	17 Sep 2025	Wind Speed (kts)	1.3
D11	17 Sep 2025	Wind Dir	SW
D11	17 Sep 2025	Animal Life	
D11	17 Sep 2025	Floatables	
D11	17 Sep 2025	Current Direction	S
D11	17 Sep 2025	Water Temp (C)	18.8
D11	17 Sep 2025	High Tide Time	755
D11	17 Sep 2025	Low Tide Time	126
D11	17 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-12; Trash-3; Kelp;Sea-grass;Algae;Debris; Person/Walker/Jogger-3
D11	24 Sep 2025	Arrive Time	907
D11	24 Sep 2025	Wind Speed (kts)	2.1
D11	24 Sep 2025	Wind Dir	W
D11	24 Sep 2025	Animal Life	
D11	24 Sep 2025	Floatables	
D11	24 Sep 2025	Current Direction	S
D11	24 Sep 2025	Water Temp (C)	18.1
D11	24 Sep 2025	High Tide Time	1035
D11	24 Sep 2025	Low Tide Time	429
D11	24 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-18; Trash-1; Kelp;Sea-grass;Algae;Debris; Person/Walker/Jogger-6
D12	03 Sep 2025	Arrive Time	940
D12	03 Sep 2025	Wind Speed (kts)	2.7
D12	03 Sep 2025	Wind Dir	W
D12	03 Sep 2025	Animal Life	
D12	03 Sep 2025	Floatables	
D12	03 Sep 2025	Current Direction	S
D12	03 Sep 2025	Water Temp (C)	21.7
D12	03 Sep 2025	High Tide Time	818
D12	03 Sep 2025	Low Tide Time	141
D12	03 Sep 2025	Comments	Water clear; Surfer/Paddle boarder-2; Fisherpersion-1; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-3
D12	08 Sep 2025	Arrive Time	1018
D12	08 Sep 2025	Wind Speed (kts)	4.6
D12	08 Sep 2025	Wind Dir	W
D12	08 Sep 2025	Animal Life	
D12	08 Sep 2025	Floatables	
D12	08 Sep 2025	Current Direction	S
D12	08 Sep 2025	Water Temp (C)	20.3
D12	08 Sep 2025	High Tide Time	1008
D12	08 Sep 2025	Low Tide Time	406
D12	08 Sep 2025	Comments	Water clear; Boogie boarder/Swimmer-18; Surfer/Paddle boarder-6; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-7
D12	17 Sep 2025	Arrive Time	857
D12	17 Sep 2025	Wind Speed (kts)	0
D12	17 Sep 2025	Wind Dir	SW
D12	17 Sep 2025	Animal Life	Bird-6;
D12	17 Sep 2025	Floatables	
D12	17 Sep 2025	Current Direction	S
D12	17 Sep 2025	Water Temp (C)	18.5
D12	17 Sep 2025	High Tide Time	755
D12	17 Sep 2025	Low Tide Time	126

Station	Date	Parameter	Value
D12	17 Sep 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Person/Walker/Jogger-3
D12	24 Sep 2025	Arrive Time	834
D12	24 Sep 2025	Wind Speed (kts)	4.6
D12	24 Sep 2025	Wind Dir	W
D12	24 Sep 2025	Animal Life	
D12	24 Sep 2025	Floatables	
D12	24 Sep 2025	Current Direction	S
D12	24 Sep 2025	Water Temp (C)	17.3
D12	24 Sep 2025	High Tide Time	1035
D12	24 Sep 2025	Low Tide Time	429
D12	24 Sep 2025	Comments	Water clear; Boogie boarder/Swimmer-1; Surfer/Paddle boarder-6; Trash-2; Seagrass;Kelp;Debris; Beach is resurfaced and raked

Kelp Stations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
01 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
02 Sep 2025	2	2	2	2	2	2	2	2
03 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
04 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
05 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
06 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
07 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
08 Sep 2025	2	2	2	2	2	2	2	2
09 Sep 2025	2	2	2	2	2	2	2	2
10 Sep 2025	*3	*3	*3	*2	*2	*2	*2	*2
11 Sep 2025	*3	*3	*3	*2	*2	*2	*2	*2
12 Sep 2025	*3	*3	*3	*2	*2	*2	*2	*2
13 Sep 2025	*3	*3	*3	*2	*2	*2	*2	*2
14 Sep 2025	*3	*3	*3	*2	*2	*2	*2	*2
15 Sep 2025	*3	*3	*3	*2	*2	*2	*2	*2
16 Sep 2025	2	2	2	2	2	2	2	2
17 Sep 2025	*3	*3	*2	*2	*2	*2	*2	*2
18 Sep 2025	*3	*3	*2	*2	*2	*2	*2	*2
19 Sep 2025	*3	*3	*2	*2	*2	*2	*2	*2
20 Sep 2025	*3	*3	*2	*2	*2	*2	*2	*2
21 Sep 2025	*3	*3	*2	*2	*2	*2	*2	*2
22 Sep 2025	*3	*3	*2	*2	*2	*2	*2	*2
23 Sep 2025	3	2	2	2	2	2	3	2
24 Sep 2025	3	2	2	2	2	2	3	2
25 Sep 2025	*3	*3	*2	*2	*2	*2	*3	*2
26 Sep 2025	*3	*3	*2	*2	*2	*2	*3	*2
27 Sep 2025	*3	*3	*2	*2	*2	*2	*3	*2
28 Sep 2025	*3	*3	*2	*2	*2	*2	*3	*2
29 Sep 2025	3	2	2	2	2	2	3	2
30 Sep 2025	3	2	2	2	2	2	3	2

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
02 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
23 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the PLOO 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 >35 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
02 Sep 2025	2	2	2	2	2	2	2	2
03 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
04 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
05 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
06 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
07 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
08 Sep 2025	2	2	2	2	2	2	2	2
09 Sep 2025	2	2	2	2	2	2	2	2
10 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
11 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
12 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
13 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
14 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
15 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
16 Sep 2025	2	2	2	2	2	2	2	2
17 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
18 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
19 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
20 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
21 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
22 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
23 Sep 2025	2	2	2	2	2	2	2	2
24 Sep 2025	2	2	2	2	2	2	2	2
25 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
26 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
27 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
28 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2
29 Sep 2025	2	2	2	2	2	2	2	2
30 Sep 2025	2	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
23 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the PLOO 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 >1000 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Sep 2025	*5	*2	*3	*12	*3	*5	*3	*6
02 Sep 2025	4	2	3	8	3	4	3	5
03 Sep 2025	*5	*2	*4	*5	*3	*5	*4	*5
04 Sep 2025	*5	*2	*4	*5	*3	*5	*4	*5
05 Sep 2025	*5	*2	*4	*5	*3	*5	*4	*5
06 Sep 2025	*5	*2	*4	*5	*3	*5	*4	*5
07 Sep 2025	*5	*2	*4	*5	*3	*5	*4	*5
08 Sep 2025	8	4	5	5	3	4	5	5
09 Sep 2025	8	4	5	5	3	4	5	5
10 Sep 2025	*11	*4	*6	*5	*3	*3	*6	*5
11 Sep 2025	*11	*4	*6	*5	*3	*3	*6	*5
12 Sep 2025	*11	*4	*6	*5	*3	*3	*6	*5
13 Sep 2025	*11	*4	*6	*5	*3	*3	*6	*5
14 Sep 2025	*11	*4	*6	*5	*3	*3	*6	*5
15 Sep 2025	*11	*4	*6	*5	*3	*3	*6	*5
16 Sep 2025	8	4	5	4	3	3	5	4
17 Sep 2025	*4	*4	*5	*5	*3	*3	*5	*3
18 Sep 2025	*4	*4	*5	*5	*3	*3	*5	*3
19 Sep 2025	*4	*4	*5	*5	*3	*3	*5	*3
20 Sep 2025	*4	*4	*5	*5	*3	*3	*5	*3
21 Sep 2025	*4	*4	*5	*5	*3	*3	*5	*3
22 Sep 2025	*4	*4	*5	*5	*3	*3	*5	*3
23 Sep 2025	6	4	4	4	3	3	6	3
24 Sep 2025	6	4	4	4	3	3	6	3
25 Sep 2025	*7	*4	*5	*3	*2	*2	*7	*3
26 Sep 2025	*7	*4	*5	*3	*2	*2	*7	*3
27 Sep 2025	*7	*4	*5	*3	*2	*2	*7	*3
28 Sep 2025	*7	*4	*5	*3	*2	*2	*7	*3
29 Sep 2025	7	3	4	4	3	2	7	3
30 Sep 2025	7	3	4	4	3	2	7	3

- Median calculated using n<5

Table 3.6

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Single Sample Maximum for total coliform bacteria, which states that total coliform density shall not exceed 10^4 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
23 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
23 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Sep 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.8

Summary of water quality parameters at the PLOO 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
A1	02 Sep 2025	742	1	2e	<2	<2
A1	02 Sep 2025	742	12	<2	<2	<2
A1	02 Sep 2025	742	18	<2	<2	<2
A1	08 Sep 2025	739	1	<2	<2	<2
A1	08 Sep 2025	739	12	2e	<2	2e
A1	08 Sep 2025	739	18	100e	14e	2e
A1	16 Sep 2025	811	1	<2	<2	<2
A1	16 Sep 2025	811	12	<2	<2	<2
A1	16 Sep 2025	811	18	<2	<2	<2
A1	23 Sep 2025	753	1	<2	<2	<2
A1	23 Sep 2025	753	12	16e	2e	<2
A1	23 Sep 2025	753	18	40	8e	2e
A1	29 Sep 2025	745	1	<2	<2	<2
A1	29 Sep 2025	745	12	<20	<2	<2
A1	29 Sep 2025	745	18	<2	<2	<2
A6	02 Sep 2025	813	1	<2	<2	<2
A6	02 Sep 2025	813	12	<2	<2	<2
A6	02 Sep 2025	813	18	2e	<2	<2
A6	08 Sep 2025	816	1	<2	<2	<2
A6	08 Sep 2025	816	12	24e	2e	2e
A6	08 Sep 2025	816	18	48	14e	2e
A6	16 Sep 2025	839	1	<2	<2	<2
A6	16 Sep 2025	839	12	2e	<2	<2
A6	16 Sep 2025	839	18	2e	<2	<2
A6	23 Sep 2025	822	1	<2	<2	<2
A6	23 Sep 2025	822	12	<2	<2	<2
A6	23 Sep 2025	822	18	2e	<2	<2
A6	29 Sep 2025	823	1	<2	<2	<2
A6	29 Sep 2025	823	12	<2	<2	<2
A6	29 Sep 2025	823	18	<2	<2	<2
A7	02 Sep 2025	800	1	<2	<2	<2
A7	02 Sep 2025	800	12	<2	<2	<2
A7	02 Sep 2025	800	18	12e	<2	<2
A7	08 Sep 2025	759	1	<2	<2	<2
A7	08 Sep 2025	759	12	20e	2e	<2
A7	08 Sep 2025	759	18	40	4e	8e
A7	16 Sep 2025	825	1	<2	<2	<2
A7	16 Sep 2025	825	12	<2	<2	<2
A7	16 Sep 2025	825	18	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
A7	23 Sep 2025	803	1	<2	<2	<2
A7	23 Sep 2025	803	12	<2	<2	<2
A7	23 Sep 2025	803	18	<2	2e	<2
A7	29 Sep 2025	802	1	<2	<2	<2
A7	29 Sep 2025	802	12	<2	<2	<2
A7	29 Sep 2025	802	18	2e	<2	<2
C4	02 Sep 2025	914	1	<2	<2	<2
C4	02 Sep 2025	914	3	2e	<2	2e
C4	02 Sep 2025	914	9	<2	<2	<2
C4	08 Sep 2025	930	1	2e	<2	<2
C4	08 Sep 2025	930	3	<20	<2	<2
C4	08 Sep 2025	930	9	<2	<2	<2
C4	16 Sep 2025	947	1	<2	<2	<2
C4	16 Sep 2025	947	3	<2	<2	<2
C4	16 Sep 2025	947	9	<2	<2	<2
C4	23 Sep 2025	931	1	<2	<2	<2
C4	23 Sep 2025	931	3	<2	<2	<2
C4	23 Sep 2025	931	9	<2	<2	<2
C4	29 Sep 2025	929	1	<20	<2	<2
C4	29 Sep 2025	929	3	<20	<2	<2
C4	29 Sep 2025	929	9	<20	<2	<2
C5	02 Sep 2025	904	1	2e	<2	<2
C5	02 Sep 2025	904	3	<2	<2	<2
C5	02 Sep 2025	904	9	<2	<2	<2
C5	08 Sep 2025	920	1	<2	<2	<2
C5	08 Sep 2025	920	3	<2	<2	<2
C5	08 Sep 2025	920	9	2e	<2	<2
C5	16 Sep 2025	937	1	<2	<2	<2
C5	16 Sep 2025	937	3	<2	<2	<2
C5	16 Sep 2025	937	9	<2	<2	<2
C5	23 Sep 2025	918	1	<2	<2	<2
C5	23 Sep 2025	918	3	<2	<2	<2
C5	23 Sep 2025	918	9	<2	<2	<2
C5	29 Sep 2025	915	1	<20	<2	<2
C5	29 Sep 2025	915	3	40e	<2	<2
C5	29 Sep 2025	915	9	<20	<2	<2
C6	02 Sep 2025	854	1	<2	<2	<2
C6	02 Sep 2025	854	3	<2	<2	<2
C6	02 Sep 2025	854	9	<2	<2	<2
C6	08 Sep 2025	909	1	<2	<2	<2
C6	08 Sep 2025	909	3	2e	<2	<2
C6	08 Sep 2025	909	9	<2	<2	<2
C6	16 Sep 2025	927	1	2e	<2	<2
C6	16 Sep 2025	927	3	<2	<2	<2
C6	16 Sep 2025	927	9	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
C6	23 Sep 2025	906	1	2e	<2	<2
C6	23 Sep 2025	906	3	<2	<2	<2
C6	23 Sep 2025	906	9	<2	<2	<2
C6	29 Sep 2025	904	1	<2	<2	<2
C6	29 Sep 2025	904	3	<2	<2	<2
C6	29 Sep 2025	904	9	<2	<2	<2
C7	02 Sep 2025	827	1	<20	<2	2e
C7	02 Sep 2025	827	12	<2	<2	<2
C7	02 Sep 2025	827	18	<2	<2	<2
C7	08 Sep 2025	839	1	<2	<2	<2
C7	08 Sep 2025	839	12	24e	6e	<2
C7	08 Sep 2025	839	18	14e	6e	<2
C7	16 Sep 2025	854	1	2e	<2	<2
C7	16 Sep 2025	854	12	<2	<2	<2
C7	16 Sep 2025	854	18	<2	<2	<2
C7	23 Sep 2025	843	1	<20	2e	<2
C7	23 Sep 2025	843	12	2e	2e	2e
C7	23 Sep 2025	843	18	16e	6e	<2
C7	29 Sep 2025	836	1	2e	<2	<2
C7	29 Sep 2025	836	12	<2	<2	<2
C7	29 Sep 2025	836	18	20e	<2	<2
C8	02 Sep 2025	837	1	2e	<2	<2
C8	02 Sep 2025	837	12	2e	<2	<2
C8	02 Sep 2025	837	18	<2	<2	<2
C8	08 Sep 2025	852	1	<2	<2	<2
C8	08 Sep 2025	852	12	6e	<2	<2
C8	08 Sep 2025	852	18	10e	<2	<2
C8	16 Sep 2025	907	1	<2	<2	<2
C8	16 Sep 2025	907	12	<2	<2	<2
C8	16 Sep 2025	907	18	<2	<2	<2
C8	23 Sep 2025	849	1	2e	<2	<2
C8	23 Sep 2025	849	12	<2	<2	<2
C8	23 Sep 2025	849	18	12e	<2	<2
C8	29 Sep 2025	847	1	<2	<2	<2
C8	29 Sep 2025	847	12	<2	<2	<2
C8	29 Sep 2025	847	18	2e	2e	<2

ns = not sampled

ND = no data

Table 3.9

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

Station	Date	Parameter	Value
A1	02 Sep 2025	Arrive Time	742
A1	02 Sep 2025	Depart Time	753
A1	02 Sep 2025	Air Temp (C)	20.6
A1	02 Sep 2025	Visibility (mi)	9
A1	02 Sep 2025	Wind Speed (kts)	7.4
A1	02 Sep 2025	Wind Dir	NW
A1	02 Sep 2025	Sea State	Regular Swell
A1	02 Sep 2025	High Tide Time	1806
A1	02 Sep 2025	Low Tide Time	100
A1	02 Sep 2025	Comments	use second cast
A1	08 Sep 2025	Arrive Time	739
A1	08 Sep 2025	Depart Time	755
A1	08 Sep 2025	Air Temp (C)	19.1
A1	08 Sep 2025	Visibility (mi)	10
A1	08 Sep 2025	Wind Speed (kts)	1.9
A1	08 Sep 2025	Wind Dir	NW
A1	08 Sep 2025	Sea State	Calm
A1	08 Sep 2025	High Tide Time	2218
A1	08 Sep 2025	Low Tide Time	400
A1	08 Sep 2025	Comments	
A1	16 Sep 2025	Arrive Time	811
A1	16 Sep 2025	Depart Time	818
A1	16 Sep 2025	Air Temp (C)	19.6
A1	16 Sep 2025	Visibility (mi)	1
A1	16 Sep 2025	Wind Speed (kts)	4.9
A1	16 Sep 2025	Wind Dir	NE
A1	16 Sep 2025	Sea State	Calm
A1	16 Sep 2025	High Tide Time	1800
A1	16 Sep 2025	Low Tide Time	36
A1	16 Sep 2025	Comments	kelp
A1	23 Sep 2025	Arrive Time	753
A1	23 Sep 2025	Depart Time	759
A1	23 Sep 2025	Air Temp (C)	17.8
A1	23 Sep 2025	Visibility (mi)	7
A1	23 Sep 2025	Wind Speed (kts)	0.4
A1	23 Sep 2025	Wind Dir	SW
A1	23 Sep 2025	Sea State	Light Chop
A1	23 Sep 2025	High Tide Time	1024
A1	23 Sep 2025	Low Tide Time	1642
A1	23 Sep 2025	Comments	
A1	29 Sep 2025	Arrive Time	745
A1	29 Sep 2025	Depart Time	758
A1	29 Sep 2025	Air Temp (C)	18.6
A1	29 Sep 2025	Visibility (mi)	10
A1	29 Sep 2025	Wind Speed (kts)	11.7
A1	29 Sep 2025	Wind Dir	NW
A1	29 Sep 2025	Sea State	Regular Swell
A1	29 Sep 2025	High Tide Time	1348
A1	29 Sep 2025	Low Tide Time	2312
A1	29 Sep 2025	Comments	Kelp debris; lobster floats
C4	02 Sep 2025	Arrive Time	914

Station	Date	Parameter	Value
C4	02 Sep 2025	Depart Time	919
C4	02 Sep 2025	Air Temp (C)	21.3
C4	02 Sep 2025	Visibility (mi)	9
C4	02 Sep 2025	Wind Speed (kts)	0
C4	02 Sep 2025	Wind Dir	S
C4	02 Sep 2025	Sea State	Regular Swell
C4	02 Sep 2025	High Tide Time	1806
C4	02 Sep 2025	Low Tide Time	100
C4	02 Sep 2025	Comments	
C4	08 Sep 2025	Arrive Time	930
C4	08 Sep 2025	Depart Time	936
C4	08 Sep 2025	Air Temp (C)	19.9
C4	08 Sep 2025	Visibility (mi)	10
C4	08 Sep 2025	Wind Speed (kts)	2
C4	08 Sep 2025	Wind Dir	NW
C4	08 Sep 2025	Sea State	Calm
C4	08 Sep 2025	High Tide Time	2218
C4	08 Sep 2025	Low Tide Time	400
C4	08 Sep 2025	Comments	
C4	16 Sep 2025	Arrive Time	947
C4	16 Sep 2025	Depart Time	950
C4	16 Sep 2025	Air Temp (C)	21.3
C4	16 Sep 2025	Visibility (mi)	1
C4	16 Sep 2025	Wind Speed (kts)	5
C4	16 Sep 2025	Wind Dir	N
C4	16 Sep 2025	Sea State	Calm
C4	16 Sep 2025	High Tide Time	1800
C4	16 Sep 2025	Low Tide Time	36
C4	16 Sep 2025	Comments	kelp
C4	23 Sep 2025	Arrive Time	931
C4	23 Sep 2025	Depart Time	934
C4	23 Sep 2025	Air Temp (C)	19.1
C4	23 Sep 2025	Visibility (mi)	4
C4	23 Sep 2025	Wind Speed (kts)	2.2
C4	23 Sep 2025	Wind Dir	NW
C4	23 Sep 2025	Sea State	Calm
C4	23 Sep 2025	High Tide Time	1024
C4	23 Sep 2025	Low Tide Time	1642
C4	23 Sep 2025	Comments	
C4	29 Sep 2025	Arrive Time	929
C4	29 Sep 2025	Depart Time	934
C4	29 Sep 2025	Air Temp (C)	19.1
C4	29 Sep 2025	Visibility (mi)	10
C4	29 Sep 2025	Wind Speed (kts)	0
C4	29 Sep 2025	Wind Dir	NE
C4	29 Sep 2025	Sea State	Regular Swell
C4	29 Sep 2025	High Tide Time	1348
C4	29 Sep 2025	Low Tide Time	2312
C4	29 Sep 2025	Comments	lobster traps; kelp debris
A7	02 Sep 2025	Arrive Time	800
A7	02 Sep 2025	Depart Time	806
A7	02 Sep 2025	Air Temp (C)	20.8
A7	02 Sep 2025	Visibility (mi)	9
A7	02 Sep 2025	Wind Speed (kts)	3.4
A7	02 Sep 2025	Wind Dir	SW
A7	02 Sep 2025	Sea State	Regular Swell

Station	Date	Parameter	Value
A7	02 Sep 2025	High Tide Time	1806
A7	02 Sep 2025	Low Tide Time	100
A7	02 Sep 2025	Comments	
A7	08 Sep 2025	Arrive Time	759
A7	08 Sep 2025	Depart Time	803
A7	08 Sep 2025	Air Temp (C)	19.9
A7	08 Sep 2025	Visibility (mi)	10
A7	08 Sep 2025	Wind Speed (kts)	5.9
A7	08 Sep 2025	Wind Dir	NW
A7	08 Sep 2025	Sea State	Calm
A7	08 Sep 2025	High Tide Time	2218
A7	08 Sep 2025	Low Tide Time	400
A7	08 Sep 2025	Comments	
A7	16 Sep 2025	Arrive Time	825
A7	16 Sep 2025	Depart Time	831
A7	16 Sep 2025	Air Temp (C)	19.6
A7	16 Sep 2025	Visibility (mi)	1
A7	16 Sep 2025	Wind Speed (kts)	4.5
A7	16 Sep 2025	Wind Dir	N
A7	16 Sep 2025	Sea State	Calm
A7	16 Sep 2025	High Tide Time	1800
A7	16 Sep 2025	Low Tide Time	36
A7	16 Sep 2025	Comments	kelp
A7	23 Sep 2025	Arrive Time	803
A7	23 Sep 2025	Depart Time	808
A7	23 Sep 2025	Air Temp (C)	18
A7	23 Sep 2025	Visibility (mi)	7
A7	23 Sep 2025	Wind Speed (kts)	1.7
A7	23 Sep 2025	Wind Dir	NW
A7	23 Sep 2025	Sea State	Light Chop
A7	23 Sep 2025	High Tide Time	1024
A7	23 Sep 2025	Low Tide Time	1642
A7	23 Sep 2025	Comments	
A7	29 Sep 2025	Arrive Time	802
A7	29 Sep 2025	Depart Time	811
A7	29 Sep 2025	Air Temp (C)	18.6
A7	29 Sep 2025	Visibility (mi)	10
A7	29 Sep 2025	Wind Speed (kts)	4.5
A7	29 Sep 2025	Wind Dir	SE
A7	29 Sep 2025	Sea State	Regular Swell
A7	29 Sep 2025	High Tide Time	1348
A7	29 Sep 2025	Low Tide Time	2312
A7	29 Sep 2025	Comments	lobster traps, large surface kelp;
C5	02 Sep 2025	Arrive Time	904
C5	02 Sep 2025	Depart Time	908
C5	02 Sep 2025	Air Temp (C)	21.2
C5	02 Sep 2025	Visibility (mi)	9
C5	02 Sep 2025	Wind Speed (kts)	2.6
C5	02 Sep 2025	Wind Dir	NW
C5	02 Sep 2025	Sea State	Regular Swell
C5	02 Sep 2025	High Tide Time	1806
C5	02 Sep 2025	Low Tide Time	100
C5	02 Sep 2025	Comments	
C5	08 Sep 2025	Arrive Time	920
C5	08 Sep 2025	Depart Time	924

Station	Date	Parameter	Value
C5	08 Sep 2025	Air Temp (C)	20.2
C5	08 Sep 2025	Visibility (mi)	10
C5	08 Sep 2025	Wind Speed (kts)	0
C5	08 Sep 2025	Wind Dir	N
C5	08 Sep 2025	Sea State	Calm
C5	08 Sep 2025	High Tide Time	2218
C5	08 Sep 2025	Low Tide Time	400
C5	08 Sep 2025	Comments	9m small salinity spike in asc file binned out in igods
C5	16 Sep 2025	Arrive Time	937
C5	16 Sep 2025	Depart Time	941
C5	16 Sep 2025	Air Temp (C)	21.4
C5	16 Sep 2025	Visibility (mi)	1
C5	16 Sep 2025	Wind Speed (kts)	3.4
C5	16 Sep 2025	Wind Dir	N
C5	16 Sep 2025	Sea State	Calm
C5	16 Sep 2025	High Tide Time	1800
C5	16 Sep 2025	Low Tide Time	36
C5	16 Sep 2025	Comments	kelp
C5	23 Sep 2025	Arrive Time	918
C5	23 Sep 2025	Depart Time	922
C5	23 Sep 2025	Air Temp (C)	19.2
C5	23 Sep 2025	Visibility (mi)	4
C5	23 Sep 2025	Wind Speed (kts)	1.8
C5	23 Sep 2025	Wind Dir	NW
C5	23 Sep 2025	Sea State	Calm
C5	23 Sep 2025	High Tide Time	1024
C5	23 Sep 2025	Low Tide Time	1642
C5	23 Sep 2025	Comments	
C5	29 Sep 2025	Arrive Time	915
C5	29 Sep 2025	Depart Time	922
C5	29 Sep 2025	Air Temp (C)	19
C5	29 Sep 2025	Visibility (mi)	10
C5	29 Sep 2025	Wind Speed (kts)	0.3
C5	29 Sep 2025	Wind Dir	SW
C5	29 Sep 2025	Sea State	Regular Swell
C5	29 Sep 2025	High Tide Time	1348
C5	29 Sep 2025	Low Tide Time	2312
C5	29 Sep 2025	Comments	lots of surface kelp and kelp debris; seagrass debris; lots of lobster traps
A6	02 Sep 2025	Arrive Time	813
A6	02 Sep 2025	Depart Time	817
A6	02 Sep 2025	Air Temp (C)	20.7
A6	02 Sep 2025	Visibility (mi)	9
A6	02 Sep 2025	Wind Speed (kts)	8.4
A6	02 Sep 2025	Wind Dir	W
A6	02 Sep 2025	Sea State	Regular Swell
A6	02 Sep 2025	High Tide Time	1806
A6	02 Sep 2025	Low Tide Time	100
A6	02 Sep 2025	Comments	
A6	08 Sep 2025	Arrive Time	816
A6	08 Sep 2025	Depart Time	830
A6	08 Sep 2025	Air Temp (C)	20.4
A6	08 Sep 2025	Visibility (mi)	10
A6	08 Sep 2025	Wind Speed (kts)	3.9
A6	08 Sep 2025	Wind Dir	N
A6	08 Sep 2025	Sea State	Calm

Station	Date	Parameter	Value
A6	08 Sep 2025	High Tide Time	2218
A6	08 Sep 2025	Low Tide Time	400
A6	08 Sep 2025	Comments	
A6	16 Sep 2025	Arrive Time	839
A6	16 Sep 2025	Depart Time	844
A6	16 Sep 2025	Air Temp (C)	20.4
A6	16 Sep 2025	Visibility (mi)	1
A6	16 Sep 2025	Wind Speed (kts)	3.5
A6	16 Sep 2025	Wind Dir	NE
A6	16 Sep 2025	Sea State	Calm
A6	16 Sep 2025	High Tide Time	1800
A6	16 Sep 2025	Low Tide Time	36
A6	16 Sep 2025	Comments	
A6	23 Sep 2025	Arrive Time	822
A6	23 Sep 2025	Depart Time	826
A6	23 Sep 2025	Air Temp (C)	18.2
A6	23 Sep 2025	Visibility (mi)	7
A6	23 Sep 2025	Wind Speed (kts)	1.7
A6	23 Sep 2025	Wind Dir	NW
A6	23 Sep 2025	Sea State	Calm
A6	23 Sep 2025	High Tide Time	1024
A6	23 Sep 2025	Low Tide Time	1642
A6	23 Sep 2025	Comments	
A6	29 Sep 2025	Arrive Time	823
A6	29 Sep 2025	Depart Time	828
A6	29 Sep 2025	Air Temp (C)	18.8
A6	29 Sep 2025	Visibility (mi)	10
A6	29 Sep 2025	Wind Speed (kts)	0.6
A6	29 Sep 2025	Wind Dir	NE
A6	29 Sep 2025	Sea State	Regular Swell
A6	29 Sep 2025	High Tide Time	1348
A6	29 Sep 2025	Low Tide Time	2312
A6	29 Sep 2025	Comments	lots of lobster traps; surface kelp debris
C6	02 Sep 2025	Arrive Time	854
C6	02 Sep 2025	Depart Time	859
C6	02 Sep 2025	Air Temp (C)	21
C6	02 Sep 2025	Visibility (mi)	9
C6	02 Sep 2025	Wind Speed (kts)	3.4
C6	02 Sep 2025	Wind Dir	N
C6	02 Sep 2025	Sea State	Regular Swell
C6	02 Sep 2025	High Tide Time	1806
C6	02 Sep 2025	Low Tide Time	100
C6	02 Sep 2025	Comments	use second cast
C6	08 Sep 2025	Arrive Time	909
C6	08 Sep 2025	Depart Time	915
C6	08 Sep 2025	Air Temp (C)	20.1
C6	08 Sep 2025	Visibility (mi)	10
C6	08 Sep 2025	Wind Speed (kts)	0
C6	08 Sep 2025	Wind Dir	S
C6	08 Sep 2025	Sea State	Calm
C6	08 Sep 2025	High Tide Time	2218
C6	08 Sep 2025	Low Tide Time	400
C6	08 Sep 2025	Comments	
C6	16 Sep 2025	Arrive Time	927
C6	16 Sep 2025	Depart Time	932

Station	Date	Parameter	Value
C6	16 Sep 2025	Air Temp (C)	21.3
C6	16 Sep 2025	Visibility (mi)	1
C6	16 Sep 2025	Wind Speed (kts)	5.3
C6	16 Sep 2025	Wind Dir	N
C6	16 Sep 2025	Sea State	Calm
C6	16 Sep 2025	High Tide Time	1800
C6	16 Sep 2025	Low Tide Time	36
C6	16 Sep 2025	Comments	
C6	23 Sep 2025	Arrive Time	906
C6	23 Sep 2025	Depart Time	910
C6	23 Sep 2025	Air Temp (C)	19
C6	23 Sep 2025	Visibility (mi)	4
C6	23 Sep 2025	Wind Speed (kts)	8.9
C6	23 Sep 2025	Wind Dir	NW
C6	23 Sep 2025	Sea State	Calm
C6	23 Sep 2025	High Tide Time	1024
C6	23 Sep 2025	Low Tide Time	1642
C6	23 Sep 2025	Comments	
C6	29 Sep 2025	Arrive Time	904
C6	29 Sep 2025	Depart Time	909
C6	29 Sep 2025	Air Temp (C)	18.9
C6	29 Sep 2025	Visibility (mi)	10
C6	29 Sep 2025	Wind Speed (kts)	4
C6	29 Sep 2025	Wind Dir	SE
C6	29 Sep 2025	Sea State	Regular Swell
C6	29 Sep 2025	High Tide Time	1348
C6	29 Sep 2025	Low Tide Time	2312
C6	29 Sep 2025	Comments	lobster traps; kelp debris
C7	02 Sep 2025	Arrive Time	827
C7	02 Sep 2025	Depart Time	831
C7	02 Sep 2025	Air Temp (C)	20.9
C7	02 Sep 2025	Visibility (mi)	9
C7	02 Sep 2025	Wind Speed (kts)	2.5
C7	02 Sep 2025	Wind Dir	NW
C7	02 Sep 2025	Sea State	Regular Swell
C7	02 Sep 2025	High Tide Time	1806
C7	02 Sep 2025	Low Tide Time	100
C7	02 Sep 2025	Comments	
C7	08 Sep 2025	Arrive Time	839
C7	08 Sep 2025	Depart Time	848
C7	08 Sep 2025	Air Temp (C)	20.3
C7	08 Sep 2025	Visibility (mi)	10
C7	08 Sep 2025	Wind Speed (kts)	2
C7	08 Sep 2025	Wind Dir	N
C7	08 Sep 2025	Sea State	Calm
C7	08 Sep 2025	High Tide Time	2218
C7	08 Sep 2025	Low Tide Time	400
C7	08 Sep 2025	Comments	
C7	16 Sep 2025	Arrive Time	854
C7	16 Sep 2025	Depart Time	900
C7	16 Sep 2025	Air Temp (C)	19.6
C7	16 Sep 2025	Visibility (mi)	1
C7	16 Sep 2025	Wind Speed (kts)	3.3
C7	16 Sep 2025	Wind Dir	N
C7	16 Sep 2025	Sea State	Calm
C7	16 Sep 2025	High Tide Time	1800

Station	Date	Parameter	Value
C7	16 Sep 2025	Low Tide Time	36
C7	16 Sep 2025	Comments	
C7	23 Sep 2025	Arrive Time	843
C7	23 Sep 2025	Depart Time	843
C7	23 Sep 2025	Air Temp (C)	18.8
C7	23 Sep 2025	Visibility (mi)	7
C7	23 Sep 2025	Wind Speed (kts)	12
C7	23 Sep 2025	Wind Dir	SE
C7	23 Sep 2025	Sea State	Calm
C7	23 Sep 2025	High Tide Time	1024
C7	23 Sep 2025	Low Tide Time	1642
C7	23 Sep 2025	Comments	
C7	29 Sep 2025	Arrive Time	836
C7	29 Sep 2025	Depart Time	841
C7	29 Sep 2025	Air Temp (C)	18.8
C7	29 Sep 2025	Visibility (mi)	10
C7	29 Sep 2025	Wind Speed (kts)	0.8
C7	29 Sep 2025	Wind Dir	E
C7	29 Sep 2025	Sea State	Regular Swell
C7	29 Sep 2025	High Tide Time	1348
C7	29 Sep 2025	Low Tide Time	2312
C7	29 Sep 2025	Comments	lobster traps; kelp debris
C8	02 Sep 2025	Arrive Time	837
C8	02 Sep 2025	Depart Time	841
C8	02 Sep 2025	Air Temp (C)	21
C8	02 Sep 2025	Visibility (mi)	9
C8	02 Sep 2025	Wind Speed (kts)	1.8
C8	02 Sep 2025	Wind Dir	NW
C8	02 Sep 2025	Sea State	Regular Swell
C8	02 Sep 2025	High Tide Time	1806
C8	02 Sep 2025	Low Tide Time	100
C8	02 Sep 2025	Comments	
C8	08 Sep 2025	Arrive Time	852
C8	08 Sep 2025	Depart Time	900
C8	08 Sep 2025	Air Temp (C)	20.6
C8	08 Sep 2025	Visibility (mi)	10
C8	08 Sep 2025	Wind Speed (kts)	0.7
C8	08 Sep 2025	Wind Dir	NW
C8	08 Sep 2025	Sea State	Calm
C8	08 Sep 2025	High Tide Time	2218
C8	08 Sep 2025	Low Tide Time	400
C8	08 Sep 2025	Comments	
C8	16 Sep 2025	Arrive Time	907
C8	16 Sep 2025	Depart Time	912
C8	16 Sep 2025	Air Temp (C)	19.8
C8	16 Sep 2025	Visibility (mi)	1
C8	16 Sep 2025	Wind Speed (kts)	3.9
C8	16 Sep 2025	Wind Dir	N
C8	16 Sep 2025	Sea State	Calm
C8	16 Sep 2025	High Tide Time	1800
C8	16 Sep 2025	Low Tide Time	36
C8	16 Sep 2025	Comments	
C8	23 Sep 2025	Arrive Time	849
C8	23 Sep 2025	Depart Time	853
C8	23 Sep 2025	Air Temp (C)	18.8

Station	Date	Parameter	Value
C8	23 Sep 2025	Visibility (mi)	7
C8	23 Sep 2025	Wind Speed (kts)	6.5
C8	23 Sep 2025	Wind Dir	NW
C8	23 Sep 2025	Sea State	Calm
C8	23 Sep 2025	High Tide Time	1024
C8	23 Sep 2025	Low Tide Time	1642
C8	23 Sep 2025	Comments	
C8	29 Sep 2025	Arrive Time	847
C8	29 Sep 2025	Depart Time	851
C8	29 Sep 2025	Air Temp (C)	19
C8	29 Sep 2025	Visibility (mi)	10
C8	29 Sep 2025	Wind Speed (kts)	0
C8	29 Sep 2025	Wind Dir	SE
C8	29 Sep 2025	Sea State	Regular Swell
C8	29 Sep 2025	High Tide Time	1348
C8	29 Sep 2025	Low Tide Time	2312
C8	29 Sep 2025	Comments	lobster traps; kelp debris

Table 3.10

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A1	02 Sep 2025	1	19.18	79.37	8.6	33.39	8.1	23.7	3.77
A1	02 Sep 2025	2	18.68	79.20	8.5	33.38	8.1	23.9	3.73
A1	02 Sep 2025	3	18.03	79.91	8.3	33.35	8.1	24.0	4.01
A1	02 Sep 2025	4	17.28	79.44	8.2	33.35	8.0	24.2	3.98
A1	02 Sep 2025	5	16.95	80.17	8.1	33.34	8.0	24.2	3.84
A1	02 Sep 2025	6	16.66	81.41	8.0	33.32	8.0	24.3	3.74
A1	02 Sep 2025	7	16.30	82.29	7.9	33.31	8.0	24.4	3.55
A1	02 Sep 2025	8	16.09	83.81	7.8	33.30	8.0	24.4	3.31
A1	02 Sep 2025	9	15.70	85.37	7.7	33.29	8.0	24.5	3.01
A1	02 Sep 2025	10	15.39	86.51	7.6	33.28	8.0	24.6	2.59
A1	02 Sep 2025	11	15.23	87.14	7.6	33.28	8.0	24.6	2.24
A1	02 Sep 2025	12	15.06	88.17	7.5	33.26	8.0	24.6	2.00
A1	02 Sep 2025	13	14.92	89.25	7.5	33.27	8.0	24.7	1.76
A1	02 Sep 2025	14	14.78	90.48	7.5	33.26	8.0	24.7	1.75
A1	02 Sep 2025	15	14.63	91.09	7.5	33.27	8.0	24.7	1.58
A1	02 Sep 2025	16	14.55	91.58	7.5	33.26	8.0	24.7	1.57
A1	02 Sep 2025	17	14.47	91.93	7.5	33.28	8.0	24.8	1.31
A1	02 Sep 2025	18	14.44	92.71	7.4	33.28	8.0	24.8	1.15
A1	02 Sep 2025	19	14.43	92.32	7.3	33.28	8.0	24.8	1.08
A1	08 Sep 2025	1	17.62	88.15	8.4	33.34	8.0	24.1	1.52
A1	08 Sep 2025	2	17.23	88.14	8.3	33.32	8.0	24.2	1.70
A1	08 Sep 2025	3	17.00	85.35	8.3	33.34	8.0	24.2	2.72
A1	08 Sep 2025	4	16.99	83.30	8.3	33.33	8.0	24.2	3.19
A1	08 Sep 2025	5	16.97	82.55	8.3	33.33	8.0	24.2	3.22
A1	08 Sep 2025	6	16.97	82.43	8.3	33.33	8.0	24.2	3.17
A1	08 Sep 2025	7	16.93	82.59	8.2	33.33	8.0	24.2	3.21
A1	08 Sep 2025	8	16.86	82.54	8.2	33.33	8.0	24.3	3.30
A1	08 Sep 2025	9	16.76	82.35	8.1	33.33	8.0	24.3	3.34
A1	08 Sep 2025	10	16.48	82.40	8.1	33.32	8.0	24.3	3.45
A1	08 Sep 2025	11	16.30	82.38	8.0	33.33	8.0	24.4	3.89
A1	08 Sep 2025	12	16.33	82.02	7.9	33.32	8.0	24.4	4.10
A1	08 Sep 2025	13	16.04	81.67	7.7	33.31	8.0	24.4	4.19
A1	08 Sep 2025	14	15.43	82.29	7.4	33.30	8.0	24.6	3.58
A1	08 Sep 2025	15	15.16	84.95	7.0	33.30	7.9	24.6	2.34
A1	08 Sep 2025	16	14.66	86.59	6.8	33.30	7.9	24.7	1.81
A1	08 Sep 2025	17	13.93	89.50	6.9	33.34	7.9	24.9	1.21
A1	08 Sep 2025	18	13.77	91.47	6.9	33.34	7.9	25.0	0.94
A1	08 Sep 2025	19	13.76	92.55	6.8	33.34	7.9	25.0	0.90
A1	08 Sep 2025	20	13.94	93.09	6.8	33.33	7.9	24.9	0.99
A1	16 Sep 2025	1	18.25	94.74	8.6	33.36	8.1	24.0	0.57
A1	16 Sep 2025	2	18.13	94.70	8.7	33.35	8.1	24.0	0.59
A1	16 Sep 2025	3	18.11	94.46	8.7	33.35	8.1	24.0	0.60
A1	16 Sep 2025	4	17.98	94.65	8.7	33.35	8.1	24.0	0.65
A1	16 Sep 2025	5	17.95	94.61	8.7	33.35	8.1	24.0	0.66
A1	16 Sep 2025	6	17.88	94.83	8.7	33.34	8.1	24.0	0.71
A1	16 Sep 2025	7	17.85	94.66	8.7	33.34	8.1	24.0	0.69
A1	16 Sep 2025	8	17.75	94.74	8.7	33.34	8.1	24.1	0.69
A1	16 Sep 2025	9	17.60	94.72	8.7	33.34	8.1	24.1	0.73
A1	16 Sep 2025	10	17.38	94.30	8.7	33.33	8.1	24.1	0.77
A1	16 Sep 2025	11	17.16	94.10	8.7	33.32	8.0	24.2	0.89
A1	16 Sep 2025	12	16.92	93.82	8.7	33.32	8.0	24.2	0.97
A1	16 Sep 2025	13	16.85	93.10	8.7	33.32	8.0	24.3	1.11
A1	16 Sep 2025	14	16.75	92.76	8.6	33.31	8.0	24.3	1.12
A1	16 Sep 2025	15	16.30	91.97	8.5	33.31	8.0	24.4	1.35
A1	16 Sep 2025	16	16.07	90.85	8.2	33.29	8.0	24.4	1.49
A1	16 Sep 2025	17	15.24	89.85	7.9	33.31	8.0	24.6	1.11
A1	16 Sep 2025	18	14.84	87.89	7.4	33.30	7.9	24.7	0.72
A1	23 Sep 2025	1	16.70	89.94	8.2	33.30	8.0	24.3	1.21
A1	23 Sep 2025	2	16.58	89.36	8.1	33.30	8.0	24.3	1.28
A1	23 Sep 2025	3	16.22	86.15	7.9	33.31	8.0	24.4	1.78
A1	23 Sep 2025	4	15.75	88.79	7.9	33.30	8.0	24.5	1.95
A1	23 Sep 2025	5	15.62	88.19	7.9	33.30	8.0	24.5	1.99
A1	23 Sep 2025	6	15.55	89.38	7.9	33.30	8.0	24.5	2.09
A1	23 Sep 2025	7	15.14	89.49	7.8	33.30	8.0	24.6	2.18
A1	23 Sep 2025	8	14.88	89.88	7.7	33.30	8.0	24.7	2.32

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A1	23 Sep 2025	9	14.71	90.23	7.6	33.30	7.9	24.7	2.12
A1	23 Sep 2025	10	14.59	90.63	7.4	33.31	7.9	24.8	1.87
A1	23 Sep 2025	11	14.47	91.05	7.3	33.31	7.9	24.8	1.76
A1	23 Sep 2025	12	14.37	91.75	7.2	33.31	7.9	24.8	1.56
A1	23 Sep 2025	13	14.23	92.12	7.0	33.31	7.9	24.8	1.26
A1	23 Sep 2025	14	14.10	92.86	6.8	33.32	7.9	24.9	0.90
A1	23 Sep 2025	15	14.06	93.14	6.7	33.32	7.9	24.9	0.71
A1	23 Sep 2025	16	14.02	93.23	6.8	33.32	7.9	24.9	0.67
A1	23 Sep 2025	17	13.93	93.44	6.6	33.33	7.9	24.9	0.64
A1	23 Sep 2025	18	13.85	92.81	6.5	33.34	7.8	24.9	0.61
A1	23 Sep 2025	19	13.85	94.01	6.5	33.34	7.8	24.9	0.69
A1	29 Sep 2025	1	18.60	88.60	8.2	33.29	8.0	23.8	1.05
A1	29 Sep 2025	2	18.54	88.62	8.2	33.29	8.0	23.8	1.05
A1	29 Sep 2025	3	18.57	88.62	8.2	33.29	8.0	23.8	1.08
A1	29 Sep 2025	4	18.21	88.29	8.2	33.30	8.0	23.9	1.15
A1	29 Sep 2025	5	18.00	87.01	8.1	33.30	8.0	24.0	1.31
A1	29 Sep 2025	6	17.85	86.21	8.1	33.30	8.0	24.0	1.47
A1	29 Sep 2025	7	17.83	84.82	8.0	33.30	8.0	24.0	1.57
A1	29 Sep 2025	8	17.65	84.10	8.0	33.30	8.0	24.1	1.64
A1	29 Sep 2025	9	17.28	83.65	7.9	33.31	8.0	24.2	1.89
A1	29 Sep 2025	10	17.02	83.04	7.8	33.31	8.0	24.2	2.06
A1	29 Sep 2025	11	16.86	82.66	7.8	33.31	8.0	24.3	2.17
A1	29 Sep 2025	12	16.59	82.52	7.6	33.31	8.0	24.3	2.10
A1	29 Sep 2025	13	16.27	82.33	7.4	33.31	8.0	24.4	1.95
A1	29 Sep 2025	14	16.09	83.58	7.1	33.31	7.9	24.4	1.62
A1	29 Sep 2025	15	15.86	84.01	6.8	33.31	7.9	24.5	1.40
A1	29 Sep 2025	16	15.62	83.59	6.5	33.33	7.9	24.5	4.33
A1	29 Sep 2025	17	15.37	81.63	6.3	33.34	7.9	24.6	1.98
A1	29 Sep 2025	18	15.27	79.36	6.2	33.34	7.8	24.6	0.71
A1	29 Sep 2025	19	15.25	76.14	6.1	33.33	7.8	24.6	0.95
A1	29 Sep 2025	20	15.38	75.24	6.2	33.31	7.8	24.6	1.43
C4	02 Sep 2025	1	20.48	78.78	7.5	33.43	8.1	23.4	1.11
C4	02 Sep 2025	2	20.49	78.77	7.4	33.43	8.1	23.4	1.12
C4	02 Sep 2025	3	19.89	78.65	7.5	33.39	8.1	23.6	1.28
C4	02 Sep 2025	4	18.42	77.86	7.8	33.39	8.1	23.9	2.27
C4	02 Sep 2025	5	17.69	78.49	7.5	33.37	8.1	24.1	2.99
C4	02 Sep 2025	6	16.73	79.98	6.8	33.34	8.0	24.3	1.85
C4	02 Sep 2025	7	16.35	83.44	6.5	33.32	7.9	24.4	0.58
C4	02 Sep 2025	8	15.88	87.43	6.5	33.29	7.9	24.5	0.40
C4	02 Sep 2025	9	15.66	87.94	6.3	33.28	7.9	24.5	0.28
C4	02 Sep 2025	10	15.62	82.18	6.2	33.28	7.9	24.5	0.27
C4	02 Sep 2025	11	15.69	69.39	6.1	33.29	7.9	24.5	0.37
C4	08 Sep 2025	1	16.82	79.72	8.0	33.34	8.0	24.3	1.57
C4	08 Sep 2025	2	16.74	80.07	8.0	33.33	8.0	24.3	1.61
C4	08 Sep 2025	3	16.53	80.07	8.0	33.33	8.0	24.3	1.77
C4	08 Sep 2025	4	16.39	80.04	8.0	33.33	8.0	24.4	2.41
C4	08 Sep 2025	5	16.36	79.92	8.0	33.32	8.0	24.4	2.70
C4	08 Sep 2025	6	16.34	79.81	8.0	33.32	8.0	24.4	3.16
C4	08 Sep 2025	7	16.33	79.77	8.0	33.32	8.0	24.4	3.30
C4	08 Sep 2025	8	16.32	79.94	8.0	33.32	8.0	24.4	3.36
C4	08 Sep 2025	9	16.31	79.70	8.1	33.32	8.0	24.4	3.31
C4	08 Sep 2025	10	16.30	79.64	8.0	33.32	8.0	24.4	3.32
C4	08 Sep 2025	11	16.32	79.99	8.0	33.32	8.0	24.4	3.43
C4	16 Sep 2025	1	19.13	85.18	8.2	33.36	8.0	23.7	0.48
C4	16 Sep 2025	2	19.12	85.12	8.2	33.36	8.0	23.7	0.49
C4	16 Sep 2025	3	19.07	84.93	8.1	33.36	8.0	23.8	0.54
C4	16 Sep 2025	4	18.78	84.94	8.0	33.34	8.0	23.8	0.57
C4	16 Sep 2025	5	17.59	85.04	8.3	33.33	8.0	24.1	0.94
C4	16 Sep 2025	6	17.15	86.15	8.4	33.33	8.0	24.2	1.89
C4	16 Sep 2025	7	16.80	86.62	8.3	33.31	8.0	24.3	2.18
C4	16 Sep 2025	8	16.30	86.48	8.2	33.30	8.0	24.4	1.80
C4	16 Sep 2025	9	16.12	87.58	7.8	33.30	8.0	24.4	0.82
C4	16 Sep 2025	10	15.74	86.10	7.3	33.30	8.0	24.5	0.47
C4	16 Sep 2025	11	15.69	76.29	7.2	33.30	7.9	24.5	0.34
C4	16 Sep 2025	12	15.76	72.68	7.2	33.30	8.0	24.5	0.44
C4	23 Sep 2025	1	16.84	88.28	8.2	33.31	8.0	24.3	1.24
C4	23 Sep 2025	2	16.84	88.36	8.2	33.31	8.0	24.3	1.22
C4	23 Sep 2025	3	16.84	88.36	8.2	33.31	8.0	24.3	1.23
C4	23 Sep 2025	4	16.76	88.52	8.1	33.31	8.0	24.3	1.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C4	23 Sep 2025	5	16.47	88.27	7.9	33.31	8.0	24.3	1.79
C4	23 Sep 2025	6	16.08	88.15	7.7	33.31	8.0	24.4	1.80
C4	23 Sep 2025	7	15.78	88.67	7.6	33.31	8.0	24.5	1.75
C4	23 Sep 2025	8	15.43	89.31	7.3	33.31	7.9	24.6	1.31
C4	23 Sep 2025	9	15.13	89.51	7.0	33.31	7.9	24.6	0.75
C4	23 Sep 2025	10	14.64	87.90	6.7	33.31	7.9	24.7	0.50
C4	23 Sep 2025	11	14.49	82.20	6.6	33.31	7.9	24.8	0.30
C4	23 Sep 2025	12	14.47	73.07	6.5	33.31	7.9	24.8	0.32
C4	23 Sep 2025	13	14.73	75.76	6.6	33.30	7.9	24.7	0.48
C4	29 Sep 2025	1	17.99	76.05	7.6	33.32	8.0	24.0	1.58
C4	29 Sep 2025	2	18.03	76.30	7.7	33.32	8.0	24.0	1.61
C4	29 Sep 2025	3	18.06	76.23	7.6	33.31	8.0	24.0	1.70
C4	29 Sep 2025	4	17.84	76.61	7.5	33.31	8.0	24.0	1.66
C4	29 Sep 2025	5	17.40	76.58	7.3	33.32	8.0	24.1	1.46
C4	29 Sep 2025	6	17.22	76.22	7.2	33.32	7.9	24.2	1.34
C4	29 Sep 2025	7	16.98	76.24	7.0	33.32	7.9	24.2	1.23
C4	29 Sep 2025	8	16.82	76.75	6.8	33.32	7.9	24.3	1.03
C4	29 Sep 2025	9	16.71	72.38	6.5	33.32	7.9	24.3	0.83
C4	29 Sep 2025	10	16.69	58.18	6.3	33.31	7.9	24.3	0.72
C4	29 Sep 2025	11	16.68	31.02	6.2	33.31	7.9	24.3	0.79
A7	02 Sep 2025	1	20.10	81.26	8.8	33.42	8.1	23.5	2.22
A7	02 Sep 2025	2	20.05	83.84	8.8	33.42	8.1	23.5	2.28
A7	02 Sep 2025	3	19.78	83.22	8.8	33.41	8.1	23.6	2.67
A7	02 Sep 2025	4	18.62	82.24	8.9	33.35	8.1	23.9	3.18
A7	02 Sep 2025	5	17.24	80.38	8.9	33.36	8.1	24.2	3.46
A7	02 Sep 2025	6	16.99	80.69	8.5	33.34	8.1	24.2	3.84
A7	02 Sep 2025	7	16.06	81.75	8.2	33.31	8.0	24.4	3.84
A7	02 Sep 2025	8	15.82	82.76	8.0	33.30	8.0	24.5	3.74
A7	02 Sep 2025	9	15.79	83.87	7.9	33.30	8.0	24.5	3.43
A7	02 Sep 2025	10	15.75	84.94	7.7	33.29	8.0	24.5	3.25
A7	02 Sep 2025	11	15.51	84.97	7.6	33.28	8.0	24.5	3.02
A7	02 Sep 2025	12	15.21	86.19	7.4	33.28	8.0	24.6	2.22
A7	02 Sep 2025	13	15.02	88.49	7.4	33.28	8.0	24.6	1.52
A7	02 Sep 2025	14	14.71	90.39	7.3	33.28	8.0	24.7	1.44
A7	02 Sep 2025	15	14.44	92.04	7.3	33.29	8.0	24.8	1.05
A7	02 Sep 2025	16	14.28	93.21	7.3	33.29	8.0	24.8	1.00
A7	02 Sep 2025	17	14.20	93.87	7.2	33.30	7.9	24.8	0.91
A7	02 Sep 2025	18	14.18	94.09	7.1	33.30	7.9	24.8	0.70
A7	02 Sep 2025	19	14.19	94.33	7.1	33.30	7.9	24.8	0.81
A7	02 Sep 2025	20	14.24	93.74	7.0	33.31	7.9	24.8	0.85
A7	08 Sep 2025	1	17.63	89.18	8.6	33.35	8.1	24.1	1.04
A7	08 Sep 2025	2	17.61	89.21	8.6	33.35	8.1	24.1	1.05
A7	08 Sep 2025	3	17.60	88.92	8.6	33.35	8.1	24.1	1.26
A7	08 Sep 2025	4	17.59	89.05	8.5	33.35	8.1	24.1	1.29
A7	08 Sep 2025	5	17.41	88.96	8.4	33.34	8.1	24.1	1.37
A7	08 Sep 2025	6	16.49	88.78	8.3	33.33	8.0	24.3	1.78
A7	08 Sep 2025	7	16.07	87.62	8.1	33.34	8.0	24.5	2.68
A7	08 Sep 2025	8	15.66	85.80	7.8	33.33	8.0	24.5	2.88
A7	08 Sep 2025	9	15.20	85.46	7.6	33.33	8.0	24.6	2.59
A7	08 Sep 2025	10	14.78	86.99	7.4	33.34	8.0	24.7	1.96
A7	08 Sep 2025	11	14.76	88.92	7.3	33.33	7.9	24.7	1.64
A7	08 Sep 2025	12	14.73	90.43	7.2	33.33	7.9	24.7	1.56
A7	08 Sep 2025	13	14.69	91.14	7.2	33.33	7.9	24.8	1.29
A7	08 Sep 2025	14	14.67	91.72	7.1	33.33	7.9	24.8	1.21
A7	08 Sep 2025	15	14.23	92.26	7.0	33.32	7.9	24.8	1.08
A7	08 Sep 2025	16	13.89	92.87	7.0	33.34	7.9	24.9	0.87
A7	08 Sep 2025	17	13.82	93.53	6.9	33.34	7.9	24.9	0.79
A7	08 Sep 2025	18	13.88	93.58	6.9	33.34	7.9	24.9	0.86
A7	16 Sep 2025	1	18.47	93.52	8.7	33.36	8.1	23.9	0.58
A7	16 Sep 2025	2	18.45	92.45	8.7	33.36	8.1	23.9	0.60
A7	16 Sep 2025	3	18.37	92.98	8.6	33.36	8.1	23.9	0.66
A7	16 Sep 2025	4	17.88	93.74	8.7	33.31	8.1	24.0	0.70
A7	16 Sep 2025	5	17.49	94.88	8.8	33.33	8.1	24.1	0.59
A7	16 Sep 2025	6	17.41	95.18	8.9	33.33	8.1	24.1	0.63
A7	16 Sep 2025	7	17.35	95.02	8.9	33.32	8.1	24.1	0.65
A7	16 Sep 2025	8	17.16	95.44	8.9	33.31	8.1	24.2	0.64
A7	16 Sep 2025	9	16.95	95.54	8.8	33.31	8.1	24.2	0.71
A7	16 Sep 2025	10	16.81	94.32	8.7	33.31	8.0	24.3	0.90
A7	16 Sep 2025	11	16.77	93.33	8.6	33.31	8.0	24.3	1.03
A7	16 Sep 2025	12	16.73	93.06	8.5	33.32	8.0	24.3	1.09

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	16 Sep 2025	13	16.67	92.93	8.5	33.31	8.0	24.3	1.11
A7	16 Sep 2025	14	16.56	92.76	8.5	33.31	8.0	24.3	1.11
A7	16 Sep 2025	15	16.52	92.69	8.5	33.31	8.0	24.3	1.14
A7	16 Sep 2025	16	16.46	92.77	8.3	33.30	8.0	24.3	1.17
A7	16 Sep 2025	17	15.94	92.48	8.1	33.29	8.0	24.4	1.10
A7	16 Sep 2025	18	15.47	92.62	8.0	33.29	8.0	24.5	0.89
A7	16 Sep 2025	19	14.56	93.33	7.7	33.28	8.0	24.7	0.84
A7	16 Sep 2025	20	14.55	93.85	7.7	33.30	7.9	24.8	0.91
A7	23 Sep 2025	1	16.61	90.13	8.2	33.29	8.0	24.3	1.44
A7	23 Sep 2025	2	16.60	89.71	8.2	33.29	8.0	24.3	1.48
A7	23 Sep 2025	3	16.39	90.18	8.1	33.29	8.0	24.3	1.49
A7	23 Sep 2025	4	16.11	90.18	8.1	33.30	8.0	24.4	1.77
A7	23 Sep 2025	5	16.03	89.98	8.1	33.30	8.0	24.4	1.96
A7	23 Sep 2025	6	15.83	89.71	8.1	33.30	8.0	24.5	2.06
A7	23 Sep 2025	7	15.66	89.59	8.1	33.30	8.0	24.5	2.12
A7	23 Sep 2025	8	15.63	89.77	8.0	33.30	8.0	24.5	1.99
A7	23 Sep 2025	9	15.52	89.76	7.9	33.30	8.0	24.5	1.95
A7	23 Sep 2025	10	15.04	90.30	7.7	33.30	8.0	24.6	1.82
A7	23 Sep 2025	11	14.86	91.41	7.6	33.31	7.9	24.7	1.43
A7	23 Sep 2025	12	14.84	92.11	7.6	33.31	7.9	24.7	1.39
A7	23 Sep 2025	13	14.80	92.55	7.5	33.31	7.9	24.7	1.38
A7	23 Sep 2025	14	14.53	92.59	7.3	33.31	7.9	24.8	1.25
A7	23 Sep 2025	15	14.18	93.36	7.1	33.33	7.9	24.9	0.95
A7	23 Sep 2025	16	14.07	94.14	6.9	33.33	7.9	24.9	0.80
A7	23 Sep 2025	17	13.94	94.61	6.8	33.33	7.9	24.9	0.75
A7	23 Sep 2025	18	13.78	95.00	6.7	33.34	7.9	24.9	0.68
A7	23 Sep 2025	19	13.65	95.14	6.6	33.34	7.9	25.0	0.60
A7	23 Sep 2025	20	13.62	95.40	6.5	33.35	7.9	25.0	0.59
A7	29 Sep 2025	1	18.70	90.09	8.3	33.33	8.0	23.8	0.99
A7	29 Sep 2025	2	18.68	89.22	8.3	33.33	8.0	23.8	0.97
A7	29 Sep 2025	3	18.63	89.84	8.4	33.33	8.0	23.8	1.04
A7	29 Sep 2025	4	18.60	91.12	8.4	33.33	8.1	23.8	1.09
A7	29 Sep 2025	5	18.58	91.52	8.4	33.33	8.0	23.8	1.13
A7	29 Sep 2025	6	18.48	91.23	8.4	33.32	8.0	23.9	1.24
A7	29 Sep 2025	7	18.25	90.51	8.3	33.32	8.0	23.9	1.31
A7	29 Sep 2025	8	17.68	89.94	8.3	33.31	8.0	24.1	1.39
A7	29 Sep 2025	9	17.45	89.09	8.3	33.32	8.0	24.1	1.62
A7	29 Sep 2025	10	17.38	88.91	8.2	33.31	8.0	24.1	1.73
A7	29 Sep 2025	11	17.28	89.16	8.2	33.31	8.0	24.2	1.64
A7	29 Sep 2025	12	16.90	89.69	7.9	33.30	8.0	24.2	1.63
A7	29 Sep 2025	13	16.18	89.93	7.6	33.32	8.0	24.4	1.55
A7	29 Sep 2025	14	16.09	89.56	7.5	33.31	8.0	24.4	1.30
A7	29 Sep 2025	15	15.96	89.53	7.4	33.31	8.0	24.5	1.25
A7	29 Sep 2025	16	15.74	89.36	7.3	33.31	7.9	24.5	1.17
A7	29 Sep 2025	17	15.66	88.94	7.2	33.31	7.9	24.5	1.14
A7	29 Sep 2025	18	15.59	88.13	7.2	33.31	7.9	24.5	1.16
C5	02 Sep 2025	1	20.31	79.22	8.3	33.43	8.1	23.5	2.14
C5	02 Sep 2025	2	20.29	79.27	8.3	33.43	8.1	23.5	2.19
C5	02 Sep 2025	3	19.76	78.87	8.3	33.40	8.1	23.6	2.68
C5	02 Sep 2025	4	18.07	79.09	8.3	33.38	8.1	24.0	3.28
C5	02 Sep 2025	5	17.31	79.33	8.1	33.38	8.1	24.2	3.37
C5	02 Sep 2025	6	16.57	81.87	7.6	33.35	8.0	24.3	3.03
C5	02 Sep 2025	7	16.11	85.55	7.3	33.33	8.0	24.4	1.62
C5	02 Sep 2025	8	15.87	88.87	7.2	33.33	8.0	24.5	1.00
C5	02 Sep 2025	9	15.98	89.40	7.2	33.31	8.0	24.5	1.03
C5	02 Sep 2025	10	15.69	90.14	6.8	33.32	8.0	24.5	0.72
C5	02 Sep 2025	11	15.69	89.70	6.8	33.33	7.9	24.5	0.45
C5	08 Sep 2025	1	17.73	85.41	8.1	33.36	8.0	24.1	1.08
C5	08 Sep 2025	2	17.72	85.13	8.1	33.36	8.0	24.1	1.07
C5	08 Sep 2025	3	17.68	81.41	8.1	33.36	8.0	24.1	1.19
C5	08 Sep 2025	4	17.65	84.62	8.0	33.35	8.0	24.1	1.37
C5	08 Sep 2025	5	17.54	85.00	8.0	33.35	8.0	24.1	1.61
C5	08 Sep 2025	6	17.31	84.98	7.9	33.35	8.0	24.2	1.71
C5	08 Sep 2025	7	17.16	85.25	7.7	33.34	8.0	24.2	1.61
C5	08 Sep 2025	8	17.07	86.09	7.5	33.33	8.0	24.2	1.54
C5	08 Sep 2025	9	15.91	86.72	7.3	33.28	8.0	24.4	1.37
C5	08 Sep 2025	10	16.19	89.23	7.4	33.33	8.0	24.4	1.13
C5	16 Sep 2025	1	19.06	88.41	8.4	33.37	8.1	23.8	0.58
C5	16 Sep 2025	2	19.06	88.33	8.4	33.36	8.1	23.8	0.58

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C5	16 Sep 2025	3	18.77	88.33	8.5	33.37	8.1	23.8	0.92
C5	16 Sep 2025	4	18.51	88.78	8.5	33.37	8.1	23.9	1.47
C5	16 Sep 2025	5	18.32	89.67	8.5	33.36	8.1	23.9	1.13
C5	16 Sep 2025	6	18.16	91.20	8.5	33.36	8.1	24.0	1.14
C5	16 Sep 2025	7	17.82	91.59	8.5	33.34	8.1	24.0	1.27
C5	16 Sep 2025	8	17.54	90.70	8.3	33.34	8.1	24.1	1.57
C5	16 Sep 2025	9	17.25	89.95	8.0	33.32	8.0	24.2	1.67
C5	16 Sep 2025	10	15.67	90.28	7.8	33.31	8.0	24.5	0.99
C5	16 Sep 2025	11	15.40	91.18	7.8	33.30	8.0	24.6	0.68
C5	23 Sep 2025	1	16.76	90.53	8.2	33.29	8.0	24.3	0.84
C5	23 Sep 2025	2	16.62	90.38	8.1	33.29	8.0	24.3	0.85
C5	23 Sep 2025	3	16.29	89.75	7.9	33.29	8.0	24.4	1.16
C5	23 Sep 2025	4	15.59	89.01	7.8	33.29	8.0	24.5	1.69
C5	23 Sep 2025	5	15.05	89.02	7.4	33.31	7.9	24.7	1.35
C5	23 Sep 2025	6	14.94	90.75	7.2	33.30	7.9	24.7	0.64
C5	23 Sep 2025	7	14.79	92.14	7.0	33.30	7.9	24.7	0.54
C5	23 Sep 2025	8	14.74	92.60	7.0	33.30	7.9	24.7	0.45
C5	23 Sep 2025	9	14.68	92.54	7.0	33.30	7.9	24.7	0.44
C5	23 Sep 2025	10	14.66	91.69	7.0	33.31	7.9	24.7	0.41
C5	23 Sep 2025	11	14.68	88.72	7.0	33.31	7.9	24.7	0.44
C5	29 Sep 2025	1	18.63	64.74	6.7	33.33	7.9	23.8	0.82
C5	29 Sep 2025	2	18.63	64.65	6.7	33.33	7.9	23.8	0.82
C5	29 Sep 2025	3	18.60	64.42	6.7	33.33	7.9	23.8	0.85
C5	29 Sep 2025	4	18.38	63.80	6.8	33.33	7.9	23.9	0.84
C5	29 Sep 2025	5	18.32	61.03	6.9	33.32	7.9	23.9	0.88
C5	29 Sep 2025	6	18.29	59.78	7.0	33.32	7.9	23.9	0.95
C5	29 Sep 2025	7	18.13	59.65	6.8	33.32	7.9	24.0	0.98
C5	29 Sep 2025	8	17.43	58.98	6.6	33.32	7.9	24.1	0.72
C5	29 Sep 2025	9	16.99	59.33	6.7	33.32	7.9	24.2	0.76
A6	02 Sep 2025	1	20.18	88.30	8.5	33.41	8.1	23.5	1.60
A6	02 Sep 2025	2	19.43	88.76	8.5	33.37	8.1	23.7	1.68
A6	02 Sep 2025	3	18.08	86.44	8.7	33.37	8.1	24.0	3.28
A6	02 Sep 2025	4	17.22	82.42	8.5	33.34	8.1	24.2	3.66
A6	02 Sep 2025	5	16.76	81.04	8.2	33.34	8.0	24.3	4.03
A6	02 Sep 2025	6	16.58	80.83	8.0	33.33	8.0	24.3	4.19
A6	02 Sep 2025	7	16.38	80.83	7.8	33.32	8.0	24.4	4.25
A6	02 Sep 2025	8	15.89	81.26	7.7	33.31	8.0	24.5	3.88
A6	02 Sep 2025	9	15.71	83.22	7.5	33.30	8.0	24.5	2.80
A6	02 Sep 2025	10	15.42	86.58	7.4	33.30	8.0	24.6	2.35
A6	02 Sep 2025	11	15.35	88.86	7.3	33.29	8.0	24.6	3.22
A6	02 Sep 2025	12	15.22	89.38	7.2	33.29	8.0	24.6	3.19
A6	02 Sep 2025	13	15.04	90.73	7.2	33.28	8.0	24.6	1.80
A6	02 Sep 2025	14	14.72	90.97	7.1	33.28	7.9	24.7	1.57
A6	02 Sep 2025	15	14.64	89.09	7.1	33.29	7.9	24.7	0.89
A6	02 Sep 2025	16	14.49	89.20	7.2	33.28	7.9	24.8	NA
A6	02 Sep 2025	17	14.20	91.17	7.2	33.29	7.9	24.8	NA
A6	02 Sep 2025	18	14.09	92.49	7.2	33.29	7.9	24.8	1.33
A6	02 Sep 2025	19	14.03	92.91	7.1	33.30	7.9	24.9	0.81
A6	02 Sep 2025	20	14.04	93.49	7.2	33.30	7.9	24.9	0.85
A6	08 Sep 2025	1	17.54	88.95	8.8	33.36	8.1	24.1	1.01
A6	08 Sep 2025	2	17.46	88.89	8.7	33.35	8.1	24.1	1.02
A6	08 Sep 2025	3	17.23	88.84	8.6	33.35	8.1	24.2	1.12
A6	08 Sep 2025	4	17.05	88.56	8.5	33.34	8.1	24.2	1.34
A6	08 Sep 2025	5	16.78	87.64	8.5	33.34	8.0	24.3	1.72
A6	08 Sep 2025	6	16.56	86.91	8.4	33.34	8.0	24.3	2.22
A6	08 Sep 2025	7	16.43	86.12	8.3	33.34	8.0	24.4	2.55
A6	08 Sep 2025	8	16.20	85.64	8.1	33.33	8.0	24.4	2.66
A6	08 Sep 2025	9	15.69	85.65	7.8	33.31	8.0	24.5	2.60
A6	08 Sep 2025	10	14.79	86.32	7.4	33.32	8.0	24.7	2.08
A6	08 Sep 2025	11	14.36	89.39	7.2	33.33	7.9	24.8	1.27
A6	08 Sep 2025	12	14.12	91.76	7.2	33.33	7.9	24.9	1.24
A6	08 Sep 2025	13	14.05	92.16	7.2	33.33	7.9	24.9	1.35
A6	08 Sep 2025	14	14.02	92.22	7.2	33.32	7.9	24.9	1.32
A6	08 Sep 2025	15	13.84	92.29	7.1	33.32	7.9	24.9	1.22
A6	08 Sep 2025	16	13.60	92.73	7.0	33.33	7.9	25.0	1.05
A6	08 Sep 2025	17	13.52	93.71	6.9	33.34	7.9	25.0	0.93
A6	08 Sep 2025	18	13.58	94.05	6.9	33.35	7.9	25.0	0.99
A6	16 Sep 2025	1	18.69	92.70	8.5	33.37	8.0	23.9	0.62
A6	16 Sep 2025	2	18.41	92.58	8.5	33.37	8.0	23.9	0.67

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A6	16 Sep 2025	3	17.84	93.00	8.7	33.35	8.1	24.0	0.71
A6	16 Sep 2025	4	17.46	94.24	8.8	33.34	8.1	24.1	0.55
A6	16 Sep 2025	5	17.04	94.97	8.9	33.32	8.1	24.2	0.57
A6	16 Sep 2025	6	16.87	94.75	8.9	33.31	8.1	24.3	0.71
A6	16 Sep 2025	7	16.62	94.03	8.8	33.31	8.1	24.3	0.89
A6	16 Sep 2025	8	16.57	93.22	8.7	33.31	8.1	24.3	1.09
A6	16 Sep 2025	9	16.41	92.85	8.5	33.31	8.0	24.4	1.21
A6	16 Sep 2025	10	15.99	92.61	8.3	33.31	8.0	24.5	1.13
A6	16 Sep 2025	11	15.78	92.89	8.1	33.31	8.0	24.5	0.89
A6	16 Sep 2025	12	15.56	93.71	8.0	33.31	8.0	24.5	0.84
A6	16 Sep 2025	13	15.45	92.96	8.0	33.31	8.0	24.6	1.42
A6	16 Sep 2025	14	15.42	89.96	7.9	33.31	8.0	24.6	1.85
A6	16 Sep 2025	15	15.28	91.68	7.9	33.31	8.0	24.6	NA
A6	16 Sep 2025	16	15.20	93.00	7.9	33.31	8.0	24.6	NA
A6	16 Sep 2025	17	15.08	93.03	7.9	33.32	8.0	24.7	1.07
A6	16 Sep 2025	18	14.88	93.69	7.9	33.32	8.0	24.7	0.93
A6	16 Sep 2025	19	14.82	92.93	7.7	33.31	8.0	24.7	0.80
A6	16 Sep 2025	20	14.77	93.02	7.7	33.32	8.0	24.7	0.93
A6	23 Sep 2025	1	16.89	91.46	8.2	33.28	8.0	24.2	1.11
A6	23 Sep 2025	2	16.48	91.18	8.1	33.28	8.0	24.3	1.12
A6	23 Sep 2025	3	15.95	91.12	8.1	33.29	8.0	24.4	1.45
A6	23 Sep 2025	4	15.74	90.88	8.0	33.29	8.0	24.5	1.60
A6	23 Sep 2025	5	15.60	90.57	7.9	33.29	8.0	24.5	1.75
A6	23 Sep 2025	6	15.31	90.44	7.9	33.29	8.0	24.6	1.84
A6	23 Sep 2025	7	15.26	90.37	7.8	33.30	8.0	24.6	1.86
A6	23 Sep 2025	8	15.21	90.05	7.8	33.29	8.0	24.6	1.85
A6	23 Sep 2025	9	15.19	90.50	7.8	33.30	8.0	24.6	1.83
A6	23 Sep 2025	10	15.16	90.47	7.7	33.30	8.0	24.6	1.83
A6	23 Sep 2025	11	15.12	90.40	7.7	33.30	8.0	24.6	1.84
A6	23 Sep 2025	12	15.08	90.31	7.7	33.30	8.0	24.6	1.83
A6	23 Sep 2025	13	15.02	90.11	7.6	33.30	8.0	24.7	1.81
A6	23 Sep 2025	14	14.98	90.17	7.5	33.30	8.0	24.7	1.75
A6	23 Sep 2025	15	14.69	90.69	7.3	33.30	7.9	24.7	1.72
A6	23 Sep 2025	16	14.13	92.75	7.0	33.33	7.9	24.9	1.00
A6	23 Sep 2025	17	13.94	94.31	6.8	33.33	7.9	24.9	0.67
A6	23 Sep 2025	18	13.90	94.34	6.8	33.33	7.9	24.9	0.57
A6	23 Sep 2025	19	13.90	95.46	6.7	33.33	7.9	24.9	0.58
A6	23 Sep 2025	20	13.91	95.31	6.7	33.33	7.9	24.9	0.61
A6	29 Sep 2025	1	18.82	89.98	8.2	33.33	8.0	23.8	0.92
A6	29 Sep 2025	2	18.71	90.20	8.2	33.33	8.0	23.8	0.92
A6	29 Sep 2025	3	18.57	90.32	8.2	33.31	8.0	23.8	0.91
A6	29 Sep 2025	4	17.72	90.43	8.4	33.30	8.0	24.0	1.02
A6	29 Sep 2025	5	17.38	90.60	8.4	33.31	8.0	24.1	1.21
A6	29 Sep 2025	6	17.23	90.85	8.3	33.30	8.0	24.2	1.36
A6	29 Sep 2025	7	17.04	90.88	8.2	33.30	8.0	24.2	1.47
A6	29 Sep 2025	8	16.60	90.94	8.1	33.30	8.0	24.3	1.73
A6	29 Sep 2025	9	16.39	90.59	8.0	33.31	8.0	24.4	2.00
A6	29 Sep 2025	10	16.35	89.64	7.9	33.31	8.0	24.4	1.97
A6	29 Sep 2025	11	16.32	89.51	7.8	33.31	8.0	24.4	1.92
A6	29 Sep 2025	12	16.29	89.52	7.7	33.31	8.0	24.4	1.92
A6	29 Sep 2025	13	15.98	89.42	7.7	33.31	8.0	24.4	1.98
A6	29 Sep 2025	14	15.87	89.31	7.6	33.31	8.0	24.5	2.14
A6	29 Sep 2025	15	15.72	89.00	7.6	33.31	8.0	24.5	2.24
A6	29 Sep 2025	16	15.64	88.78	7.6	33.31	8.0	24.5	2.55
A6	29 Sep 2025	17	15.60	88.66	7.5	33.31	8.0	24.5	2.45
A6	29 Sep 2025	18	15.46	88.38	7.4	33.30	8.0	24.6	2.37
A6	29 Sep 2025	19	15.22	88.10	7.3	33.32	7.9	24.6	2.07
A6	29 Sep 2025	20	15.13	88.27	7.1	33.32	7.9	24.6	1.83
A6	29 Sep 2025	21	14.84	88.79	7.0	33.32	7.9	24.7	1.57
C6	02 Sep 2025	1	20.38	82.94	8.1	33.42	8.1	23.5	1.45
C6	02 Sep 2025	2	20.01	82.75	8.0	33.45	8.1	23.6	1.49
C6	02 Sep 2025	3	18.05	82.09	8.2	33.48	8.1	24.1	3.06
C6	02 Sep 2025	4	17.09	80.23	8.0	33.42	8.0	24.3	4.26
C6	02 Sep 2025	5	16.46	79.48	7.8	33.38	8.0	24.4	4.30
C6	02 Sep 2025	6	16.29	80.60	7.6	33.36	8.0	24.4	4.07
C6	02 Sep 2025	7	16.14	82.90	7.5	33.34	8.0	24.4	3.38
C6	02 Sep 2025	8	16.04	85.81	7.1	33.34	8.0	24.5	2.22
C6	02 Sep 2025	9	15.88	88.70	6.7	33.34	7.9	24.5	0.88
C6	02 Sep 2025	10	15.91	87.75	6.4	33.34	7.9	24.5	0.62
C6	08 Sep 2025	1	18.65	85.84	8.6	33.35	8.1	23.9	0.67

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C6	08 Sep 2025	2	18.24	86.18	8.4	33.31	8.1	23.9	0.72
C6	08 Sep 2025	3	17.35	85.90	8.2	33.34	8.0	24.2	0.89
C6	08 Sep 2025	4	17.10	85.67	8.1	33.33	8.0	24.2	1.05
C6	08 Sep 2025	5	16.81	86.17	8.1	33.33	8.0	24.3	1.32
C6	08 Sep 2025	6	16.52	86.72	8.3	33.32	8.0	24.3	1.63
C6	08 Sep 2025	7	16.26	87.11	8.4	33.32	8.0	24.4	2.19
C6	08 Sep 2025	8	15.99	86.75	7.8	33.31	8.0	24.5	2.37
C6	08 Sep 2025	9	15.64	86.87	7.4	33.31	8.0	24.5	2.16
C6	08 Sep 2025	10	15.51	87.91	7.3	33.33	7.9	24.6	1.30
C6	16 Sep 2025	1	18.79	88.54	8.4	33.36	8.1	23.8	0.87
C6	16 Sep 2025	2	18.72	88.54	8.4	33.36	8.0	23.8	0.86
C6	16 Sep 2025	3	18.34	88.58	8.5	33.36	8.1	23.9	0.98
C6	16 Sep 2025	4	17.98	89.40	8.5	33.36	8.1	24.0	1.19
C6	16 Sep 2025	5	17.52	90.39	8.4	33.36	8.0	24.1	1.38
C6	16 Sep 2025	6	17.30	91.24	8.4	33.35	8.0	24.2	1.48
C6	16 Sep 2025	7	16.96	91.49	8.6	33.34	8.1	24.2	1.41
C6	16 Sep 2025	8	16.75	91.59	8.7	33.33	8.0	24.3	1.32
C6	16 Sep 2025	9	16.50	91.54	8.6	33.33	8.0	24.4	1.15
C6	16 Sep 2025	10	17.08	89.70	8.5	33.32	8.0	24.2	1.20
C6	23 Sep 2025	1	16.82	90.11	8.0	33.29	8.0	24.2	0.86
C6	23 Sep 2025	2	16.60	90.15	8.0	33.30	8.0	24.3	1.01
C6	23 Sep 2025	3	15.99	89.97	8.0	33.30	8.0	24.4	1.49
C6	23 Sep 2025	4	15.46	89.14	7.9	33.30	8.0	24.6	1.92
C6	23 Sep 2025	5	15.17	88.98	7.8	33.30	8.0	24.6	2.09
C6	23 Sep 2025	6	14.93	90.12	7.6	33.30	7.9	24.7	1.36
C6	23 Sep 2025	7	14.77	90.89	7.3	33.30	7.9	24.7	0.80
C6	23 Sep 2025	8	14.62	91.82	7.2	33.31	7.9	24.7	0.49
C6	23 Sep 2025	9	14.59	91.69	7.0	33.31	7.9	24.8	0.40
C6	23 Sep 2025	10	14.59	90.74	7.0	33.31	7.9	24.8	0.54
C6	29 Sep 2025	1	18.77	89.39	8.2	33.32	8.0	23.8	0.77
C6	29 Sep 2025	2	18.64	89.52	8.3	33.32	8.0	23.8	0.74
C6	29 Sep 2025	3	18.42	90.11	8.2	33.32	8.0	23.9	0.89
C6	29 Sep 2025	4	18.34	88.90	8.3	33.32	8.0	23.9	0.93
C6	29 Sep 2025	5	18.09	90.50	8.2	33.32	8.0	24.0	0.97
C6	29 Sep 2025	6	17.66	91.02	7.8	33.32	8.0	24.1	0.76
C6	29 Sep 2025	7	17.47	82.96	7.5	33.32	8.0	24.1	0.52
C6	29 Sep 2025	8	17.08	79.31	7.1	33.31	8.0	24.2	0.48
C6	29 Sep 2025	9	16.12	71.73	6.8	33.32	7.9	24.4	0.55
C6	29 Sep 2025	10	16.40	59.01	6.9	33.31	7.9	24.4	NA
C7	02 Sep 2025	1	20.01	88.06	8.8	33.46	8.1	23.6	1.23
C7	02 Sep 2025	2	19.96	87.86	8.8	33.45	8.1	23.6	1.22
C7	02 Sep 2025	3	19.60	87.72	8.8	33.41	8.1	23.7	1.23
C7	02 Sep 2025	4	18.88	87.51	9.0	33.41	8.1	23.8	1.35
C7	02 Sep 2025	5	18.44	87.29	9.2	33.38	8.1	23.9	1.62
C7	02 Sep 2025	6	17.37	86.56	9.4	33.38	8.1	24.2	1.87
C7	02 Sep 2025	7	17.12	85.41	9.2	33.35	8.1	24.2	2.16
C7	02 Sep 2025	8	16.40	84.92	8.8	33.34	8.1	24.4	2.50
C7	02 Sep 2025	9	15.95	85.04	8.4	33.34	8.0	24.5	3.07
C7	02 Sep 2025	10	15.75	84.77	7.8	33.33	8.0	24.5	3.31
C7	02 Sep 2025	11	15.50	87.46	7.2	33.32	8.0	24.6	1.99
C7	02 Sep 2025	12	15.27	90.53	7.0	33.31	7.9	24.6	0.96
C7	02 Sep 2025	13	15.06	91.56	6.8	33.31	7.9	24.7	0.76
C7	02 Sep 2025	14	14.91	91.56	6.9	33.31	7.9	24.7	0.94
C7	02 Sep 2025	15	14.70	91.82	6.9	33.31	7.9	24.7	0.88
C7	02 Sep 2025	16	14.64	93.23	6.8	33.31	7.9	24.7	0.57
C7	02 Sep 2025	17	14.64	93.36	6.8	33.31	7.9	24.7	0.45
C7	02 Sep 2025	18	14.68	92.76	6.7	33.31	7.9	24.7	0.49
C7	08 Sep 2025	1	17.40	83.15	8.3	33.35	8.0	24.2	1.79
C7	08 Sep 2025	2	17.26	83.03	8.1	33.33	8.0	24.2	1.74
C7	08 Sep 2025	3	16.40	82.81	7.9	33.32	8.0	24.4	2.05
C7	08 Sep 2025	4	15.57	83.09	7.6	33.34	8.0	24.6	2.50
C7	08 Sep 2025	5	15.05	84.05	7.4	33.32	8.0	24.7	2.63
C7	08 Sep 2025	6	14.76	85.95	7.2	33.33	7.9	24.7	2.25
C7	08 Sep 2025	7	14.52	88.34	7.2	33.32	7.9	24.8	1.69
C7	08 Sep 2025	8	14.21	90.22	7.2	33.31	7.9	24.8	1.60
C7	08 Sep 2025	9	13.99	91.29	7.3	33.31	7.9	24.9	1.66
C7	08 Sep 2025	10	13.95	91.79	7.3	33.32	7.9	24.9	1.62
C7	08 Sep 2025	11	13.94	92.26	7.2	33.32	7.9	24.9	1.45
C7	08 Sep 2025	12	13.94	92.82	7.2	33.32	7.9	24.9	1.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C7	08 Sep 2025	13	13.92	93.17	7.2	33.32	7.9	24.9	1.37
C7	08 Sep 2025	14	13.91	93.27	7.2	33.32	7.9	24.9	1.40
C7	08 Sep 2025	15	13.90	92.84	7.2	33.33	7.9	24.9	1.46
C7	08 Sep 2025	16	13.89	92.79	7.2	33.33	7.9	24.9	1.43
C7	08 Sep 2025	17	13.89	93.27	7.1	33.33	7.9	24.9	1.45
C7	08 Sep 2025	18	13.92	93.41	7.2	33.33	7.9	24.9	1.29
C7	08 Sep 2025	19	13.91	92.71	7.1	33.33	7.9	24.9	1.35
C7	16 Sep 2025	1	19.25	88.84	8.1	33.37	8.1	23.7	1.12
C7	16 Sep 2025	2	19.22	88.77	8.1	33.37	8.1	23.7	1.12
C7	16 Sep 2025	3	18.68	86.43	8.2	33.36	8.1	23.8	1.33
C7	16 Sep 2025	4	17.89	88.75	8.3	33.35	8.1	24.0	1.66
C7	16 Sep 2025	5	17.40	90.77	8.4	33.34	8.0	24.1	1.49
C7	16 Sep 2025	6	17.12	91.23	8.4	33.33	8.0	24.2	1.58
C7	16 Sep 2025	7	16.91	90.77	8.4	33.33	8.0	24.3	1.65
C7	16 Sep 2025	8	16.80	90.78	8.4	33.32	8.0	24.3	1.58
C7	16 Sep 2025	9	16.51	90.74	8.4	33.32	8.0	24.3	1.74
C7	16 Sep 2025	10	16.28	90.17	8.4	33.32	8.0	24.4	1.93
C7	16 Sep 2025	11	16.01	90.06	8.3	33.31	8.0	24.4	1.99
C7	16 Sep 2025	12	15.93	89.80	8.2	33.31	8.0	24.5	1.97
C7	16 Sep 2025	13	15.91	89.88	8.2	33.31	8.0	24.5	1.95
C7	16 Sep 2025	14	15.86	89.84	8.2	33.31	8.0	24.5	1.94
C7	16 Sep 2025	15	15.81	90.05	8.1	33.31	8.0	24.5	1.79
C7	16 Sep 2025	16	15.42	90.41	7.9	33.30	8.0	24.6	1.48
C7	16 Sep 2025	17	14.98	91.08	7.7	33.32	8.0	24.7	0.64
C7	16 Sep 2025	18	15.17	91.29	7.5	33.31	8.0	24.6	0.68
C7	23 Sep 2025	1	16.69	92.38	8.1	33.29	8.0	24.3	0.90
C7	23 Sep 2025	2	16.45	92.56	8.2	33.29	8.0	24.3	0.94
C7	23 Sep 2025	3	16.11	93.25	8.4	33.29	8.0	24.4	1.10
C7	23 Sep 2025	4	16.01	93.35	8.3	33.29	8.0	24.4	1.21
C7	23 Sep 2025	5	15.97	92.86	8.3	33.29	8.0	24.4	1.23
C7	23 Sep 2025	6	15.93	92.78	8.3	33.29	8.0	24.4	1.30
C7	23 Sep 2025	7	15.80	92.72	8.2	33.29	8.0	24.5	1.35
C7	23 Sep 2025	8	15.63	92.14	8.1	33.30	8.0	24.5	1.49
C7	23 Sep 2025	9	15.50	91.83	8.0	33.29	8.0	24.5	1.57
C7	23 Sep 2025	10	15.07	91.46	7.8	33.30	8.0	24.6	1.44
C7	23 Sep 2025	11	14.77	91.31	7.6	33.30	8.0	24.7	1.51
C7	23 Sep 2025	12	14.54	91.40	7.4	33.31	7.9	24.8	1.33
C7	23 Sep 2025	13	14.50	91.86	7.2	33.31	7.9	24.8	1.14
C7	23 Sep 2025	14	14.31	92.35	7.0	33.31	7.9	24.8	0.98
C7	23 Sep 2025	15	13.91	92.92	6.9	33.32	7.9	24.9	0.72
C7	23 Sep 2025	16	13.75	93.79	6.8	33.33	7.9	24.9	0.60
C7	23 Sep 2025	17	13.61	94.91	6.7	33.34	7.9	25.0	0.58
C7	23 Sep 2025	18	13.57	95.71	6.6	33.34	7.9	25.0	0.56
C7	23 Sep 2025	19	13.62	95.83	6.6	33.34	7.9	25.0	0.57
C7	29 Sep 2025	1	18.42	93.18	8.4	33.33	8.0	23.9	1.00
C7	29 Sep 2025	2	18.72	93.17	8.3	33.32	8.0	23.8	0.98
C7	29 Sep 2025	3	18.25	93.41	8.3	33.33	8.0	23.9	1.02
C7	29 Sep 2025	4	17.53	93.09	8.2	33.32	8.0	24.1	1.25
C7	29 Sep 2025	5	17.06	92.61	8.1	33.31	8.0	24.2	1.39
C7	29 Sep 2025	6	16.80	92.26	8.1	33.31	8.0	24.3	1.49
C7	29 Sep 2025	7	16.62	91.48	7.9	33.31	8.0	24.3	1.49
C7	29 Sep 2025	8	16.26	91.53	7.8	33.31	8.0	24.4	1.58
C7	29 Sep 2025	9	15.92	91.00	7.7	33.31	8.0	24.5	1.64
C7	29 Sep 2025	10	15.74	89.99	7.5	33.31	8.0	24.5	1.49
C7	29 Sep 2025	11	15.61	89.32	7.5	33.31	8.0	24.5	1.49
C7	29 Sep 2025	12	15.46	89.21	7.5	33.31	8.0	24.6	1.89
C7	29 Sep 2025	13	15.24	89.68	7.3	33.32	7.9	24.6	2.04
C7	29 Sep 2025	14	15.13	89.64	7.1	33.32	7.9	24.6	1.75
C7	29 Sep 2025	15	15.06	88.69	7.0	33.32	7.9	24.7	1.09
C7	29 Sep 2025	16	15.03	85.83	6.9	33.32	7.9	24.7	0.90
C7	29 Sep 2025	17	14.98	84.58	6.8	33.32	7.9	24.7	0.76
C7	29 Sep 2025	18	14.93	80.67	6.7	33.33	7.9	24.7	0.61
C7	29 Sep 2025	19	14.94	77.97	6.6	33.33	7.9	24.7	0.66
C8	02 Sep 2025	1	20.73	90.80	8.5	33.47	8.1	23.4	1.00
C8	02 Sep 2025	2	20.68	91.06	8.4	33.46	8.1	23.4	0.98
C8	02 Sep 2025	3	20.07	91.08	8.6	33.43	8.1	23.5	0.98
C8	02 Sep 2025	4	18.81	90.94	9.2	33.37	8.1	23.8	1.12
C8	02 Sep 2025	5	17.67	89.38	9.6	33.37	8.1	24.1	1.71
C8	02 Sep 2025	6	17.46	86.46	9.6	33.35	8.1	24.1	1.99
C8	02 Sep 2025	7	17.14	85.53	9.5	33.34	8.1	24.2	2.16

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	02 Sep 2025	8	16.81	84.55	9.5	33.33	8.1	24.3	2.71
C8	02 Sep 2025	9	16.52	82.56	9.4	33.33	8.1	24.3	3.48
C8	02 Sep 2025	10	16.32	81.89	9.3	33.33	8.1	24.4	3.63
C8	02 Sep 2025	11	16.14	82.63	9.2	33.33	8.1	24.4	3.50
C8	02 Sep 2025	12	15.93	83.78	9.1	33.33	8.1	24.5	3.64
C8	02 Sep 2025	13	15.81	83.70	8.9	33.32	8.1	24.5	4.04
C8	02 Sep 2025	14	15.46	82.55	8.4	33.31	8.1	24.6	4.58
C8	02 Sep 2025	15	15.18	81.28	8.0	33.31	8.0	24.6	4.64
C8	02 Sep 2025	16	15.02	82.29	7.7	33.30	8.0	24.7	3.65
C8	02 Sep 2025	17	14.99	85.58	7.5	33.30	8.0	24.7	2.71
C8	02 Sep 2025	18	14.95	88.59	7.4	33.30	8.0	24.7	2.28
C8	02 Sep 2025	19	14.94	89.67	7.3	33.30	8.0	24.7	1.55
C8	02 Sep 2025	20	14.96	88.97	7.3	33.31	8.0	24.7	1.84
C8	08 Sep 2025	1	17.85	87.53	8.8	33.36	8.1	24.0	0.88
C8	08 Sep 2025	2	17.67	87.47	8.6	33.34	8.1	24.1	0.94
C8	08 Sep 2025	3	17.16	87.03	8.4	33.33	8.1	24.2	1.21
C8	08 Sep 2025	4	16.44	85.57	8.2	33.30	8.0	24.3	1.88
C8	08 Sep 2025	5	15.65	83.34	8.0	33.32	8.0	24.5	2.95
C8	08 Sep 2025	6	15.23	82.06	7.8	33.32	8.0	24.6	3.52
C8	08 Sep 2025	7	14.95	82.84	7.6	33.32	8.0	24.7	3.46
C8	08 Sep 2025	8	14.72	84.86	7.4	33.32	8.0	24.7	2.81
C8	08 Sep 2025	9	14.53	87.04	7.2	33.32	7.9	24.8	2.10
C8	08 Sep 2025	10	14.43	89.41	7.2	33.32	7.9	24.8	1.65
C8	08 Sep 2025	11	14.39	91.24	7.1	33.32	7.9	24.8	1.45
C8	08 Sep 2025	12	14.33	91.76	7.1	33.32	7.9	24.8	1.39
C8	08 Sep 2025	13	14.29	91.91	7.1	33.32	7.9	24.8	1.32
C8	08 Sep 2025	14	14.26	92.18	7.0	33.32	7.9	24.8	1.22
C8	08 Sep 2025	15	14.24	92.65	7.0	33.32	7.9	24.8	1.17
C8	08 Sep 2025	16	14.21	92.74	7.1	33.33	7.9	24.9	1.18
C8	08 Sep 2025	17	14.17	92.82	7.1	33.33	7.9	24.9	1.23
C8	08 Sep 2025	18	14.17	92.92	7.1	33.33	7.9	24.9	1.23
C8	08 Sep 2025	19	14.17	92.93	7.1	33.33	7.9	24.9	1.18
C8	08 Sep 2025	20	14.17	56.28	7.0	33.34	7.9	24.9	1.24
C8	16 Sep 2025	1	19.29	89.15	8.1	33.39	8.1	23.7	1.11
C8	16 Sep 2025	2	19.15	89.17	8.1	33.38	8.1	23.7	1.14
C8	16 Sep 2025	3	18.52	88.98	8.3	33.36	8.1	23.9	1.24
C8	16 Sep 2025	4	17.90	89.24	8.6	33.36	8.1	24.0	1.15
C8	16 Sep 2025	5	17.69	90.87	8.7	33.35	8.1	24.1	1.06
C8	16 Sep 2025	6	17.59	92.60	8.6	33.35	8.1	24.1	1.00
C8	16 Sep 2025	7	17.42	92.92	8.7	33.34	8.1	24.1	1.04
C8	16 Sep 2025	8	17.18	92.83	8.7	33.34	8.1	24.2	1.16
C8	16 Sep 2025	9	17.03	92.23	8.6	33.34	8.1	24.2	1.35
C8	16 Sep 2025	10	16.95	91.41	8.5	33.34	8.1	24.2	1.87
C8	16 Sep 2025	11	16.71	89.01	8.4	33.33	8.0	24.3	2.21
C8	16 Sep 2025	12	16.55	88.62	8.3	33.33	8.0	24.3	2.18
C8	16 Sep 2025	13	16.37	89.11	8.3	33.33	8.0	24.4	2.18
C8	16 Sep 2025	14	16.26	89.54	8.3	33.32	8.0	24.4	2.14
C8	16 Sep 2025	15	16.18	89.72	8.3	33.32	8.0	24.4	2.11
C8	16 Sep 2025	16	15.99	89.59	8.3	33.31	8.0	24.5	2.13
C8	16 Sep 2025	17	15.74	89.79	8.2	33.31	8.0	24.5	2.14
C8	16 Sep 2025	18	15.18	89.96	8.0	33.30	8.0	24.6	1.93
C8	16 Sep 2025	19	15.22	91.14	7.9	33.31	8.0	24.6	1.16
C8	23 Sep 2025	1	16.76	85.67	8.2	33.29	8.0	24.3	1.00
C8	23 Sep 2025	2	16.37	92.49	8.4	33.28	8.0	24.3	0.95
C8	23 Sep 2025	3	15.89	92.90	8.5	33.28	8.0	24.5	0.98
C8	23 Sep 2025	4	15.71	93.27	8.5	33.28	8.0	24.5	1.19
C8	23 Sep 2025	5	15.61	93.09	8.4	33.28	8.0	24.5	1.36
C8	23 Sep 2025	6	15.52	93.01	8.3	33.28	8.0	24.5	1.40
C8	23 Sep 2025	7	15.21	92.67	8.1	33.28	8.0	24.6	1.35
C8	23 Sep 2025	8	14.92	92.59	7.9	33.30	8.0	24.7	1.43
C8	23 Sep 2025	9	14.78	92.02	7.7	33.30	8.0	24.7	1.48
C8	23 Sep 2025	10	14.67	91.75	7.5	33.30	7.9	24.7	1.41
C8	23 Sep 2025	11	14.30	92.21	7.2	33.30	7.9	24.8	1.15
C8	23 Sep 2025	12	14.11	92.68	7.0	33.32	7.9	24.9	0.75
C8	23 Sep 2025	13	14.01	93.37	6.9	33.32	7.9	24.9	0.63
C8	23 Sep 2025	14	13.87	93.78	6.8	33.33	7.9	24.9	0.56
C8	23 Sep 2025	15	13.83	94.15	6.7	33.33	7.9	24.9	0.52
C8	23 Sep 2025	16	13.83	94.25	6.7	33.33	7.9	24.9	0.49
C8	23 Sep 2025	17	13.83	94.20	6.7	33.33	7.9	24.9	0.49
C8	23 Sep 2025	18	13.85	94.31	6.7	33.33	7.9	24.9	0.49
C8	23 Sep 2025	19	13.87	94.04	6.7	33.33	7.9	24.9	0.50

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	23 Sep 2025	20	13.87	93.70	6.7	33.33	7.9	24.9	0.55
C8	29 Sep 2025	1	19.31	89.41	8.1	33.34	8.0	23.7	0.95
C8	29 Sep 2025	2	19.37	89.74	8.1	33.34	8.0	23.7	0.93
C8	29 Sep 2025	3	19.28	89.81	8.0	33.32	8.0	23.7	0.94
C8	29 Sep 2025	4	18.53	90.05	8.2	33.32	8.0	23.9	0.88
C8	29 Sep 2025	5	17.94	91.82	8.3	33.31	8.0	24.0	0.77
C8	29 Sep 2025	6	17.59	93.73	8.4	33.31	8.0	24.1	0.80
C8	29 Sep 2025	7	17.37	94.28	8.3	33.29	8.0	24.1	0.81
C8	29 Sep 2025	8	16.73	94.34	8.3	33.30	8.0	24.3	0.99
C8	29 Sep 2025	9	16.61	93.74	8.3	33.30	8.0	24.3	1.33
C8	29 Sep 2025	10	16.52	93.00	8.3	33.30	8.0	24.3	1.44
C8	29 Sep 2025	11	16.45	92.33	8.2	33.30	8.0	24.3	1.50
C8	29 Sep 2025	12	16.41	92.35	8.2	33.30	8.0	24.3	1.54
C8	29 Sep 2025	13	16.03	91.72	8.0	33.30	8.0	24.4	1.83
C8	29 Sep 2025	14	15.72	91.20	7.8	33.31	8.0	24.5	2.66
C8	29 Sep 2025	15	15.36	89.84	7.6	33.31	8.0	24.6	2.77
C8	29 Sep 2025	16	15.10	88.06	7.4	33.31	8.0	24.6	2.84
C8	29 Sep 2025	17	14.84	88.16	7.1	33.32	7.9	24.7	2.55
C8	29 Sep 2025	18	14.57	88.64	6.7	33.33	7.9	24.8	1.37
C8	29 Sep 2025	19	14.67	74.49	6.6	33.32	7.9	24.8	0.86

NA = not available

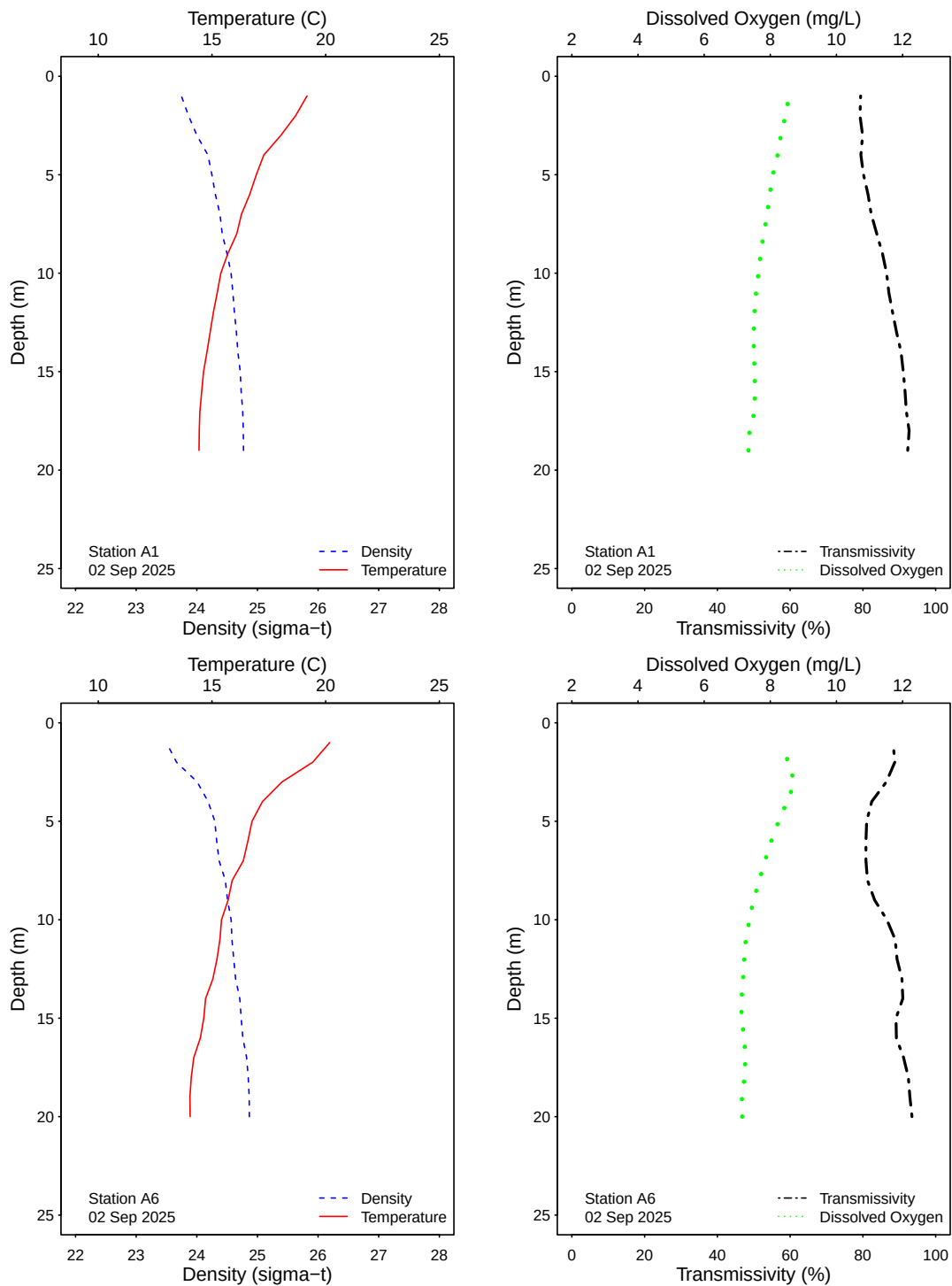


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

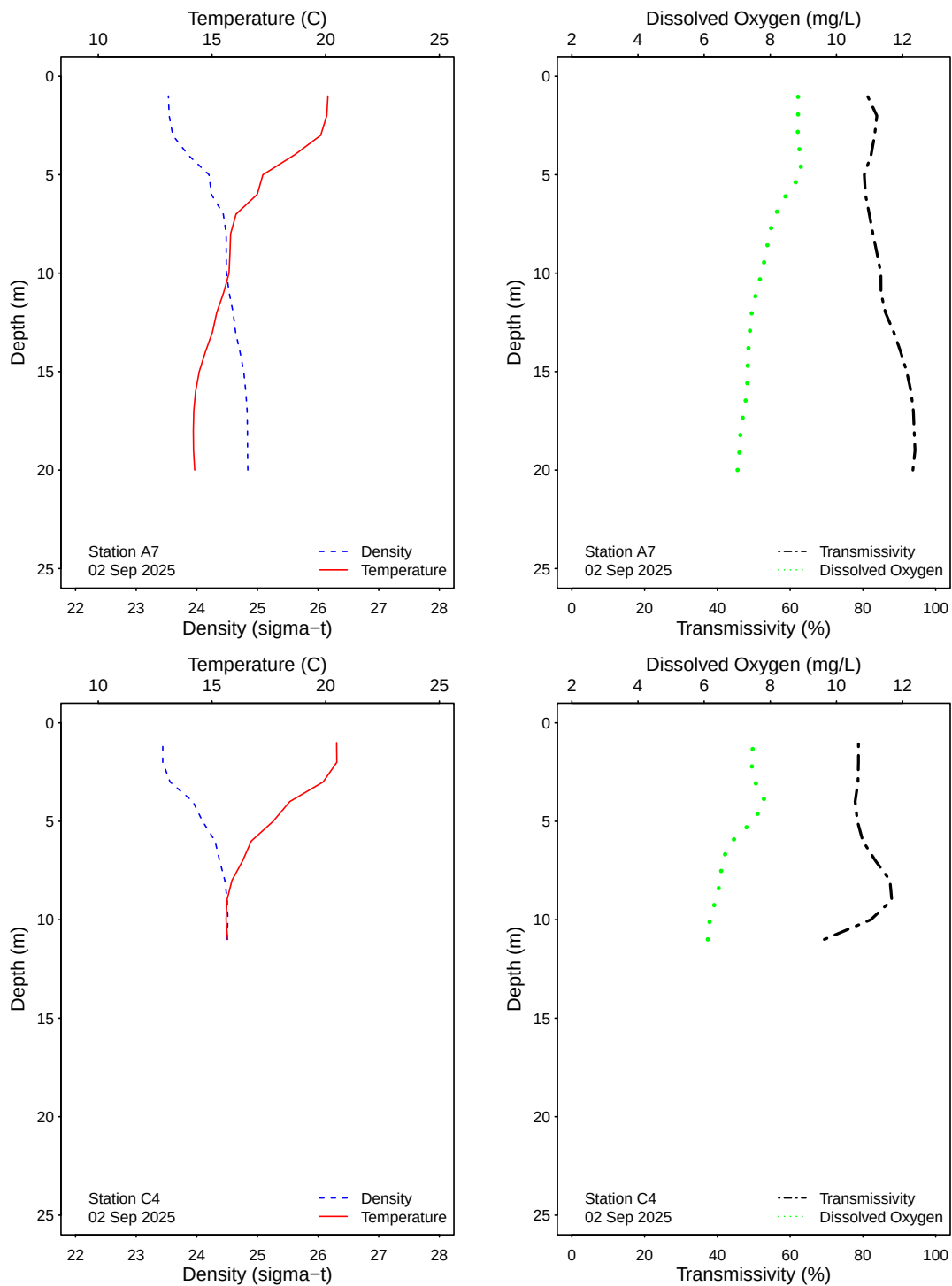


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

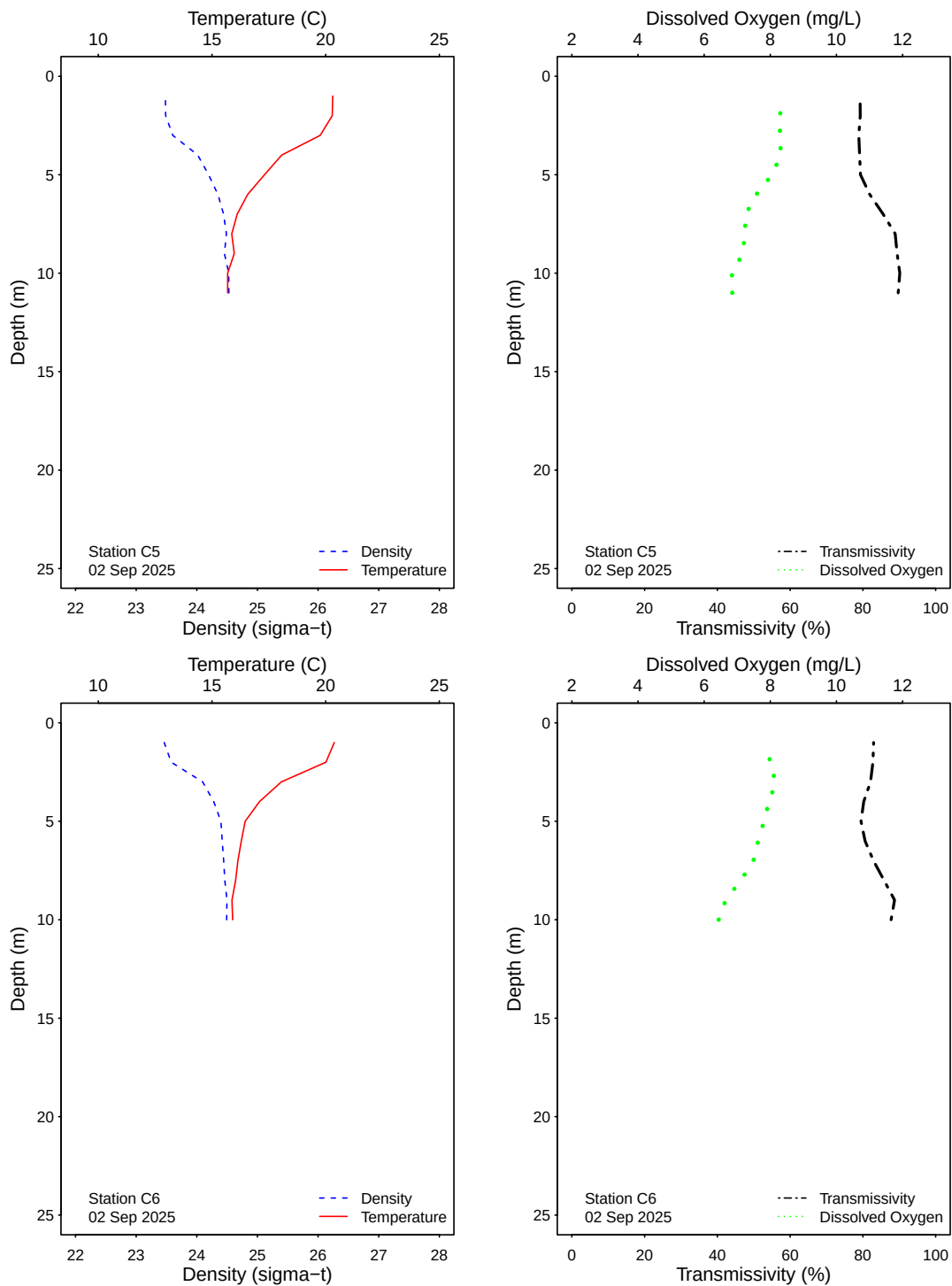


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

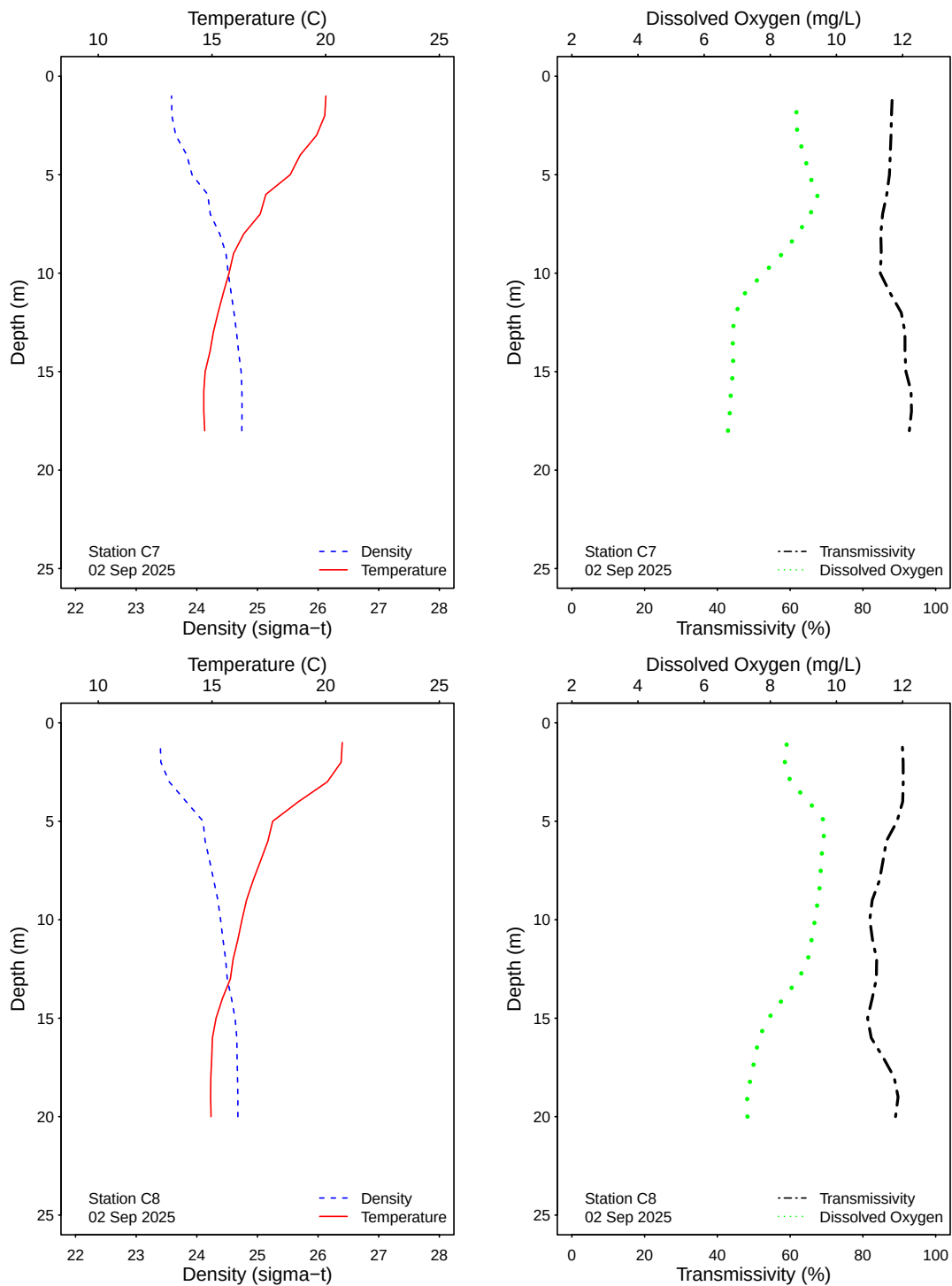


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

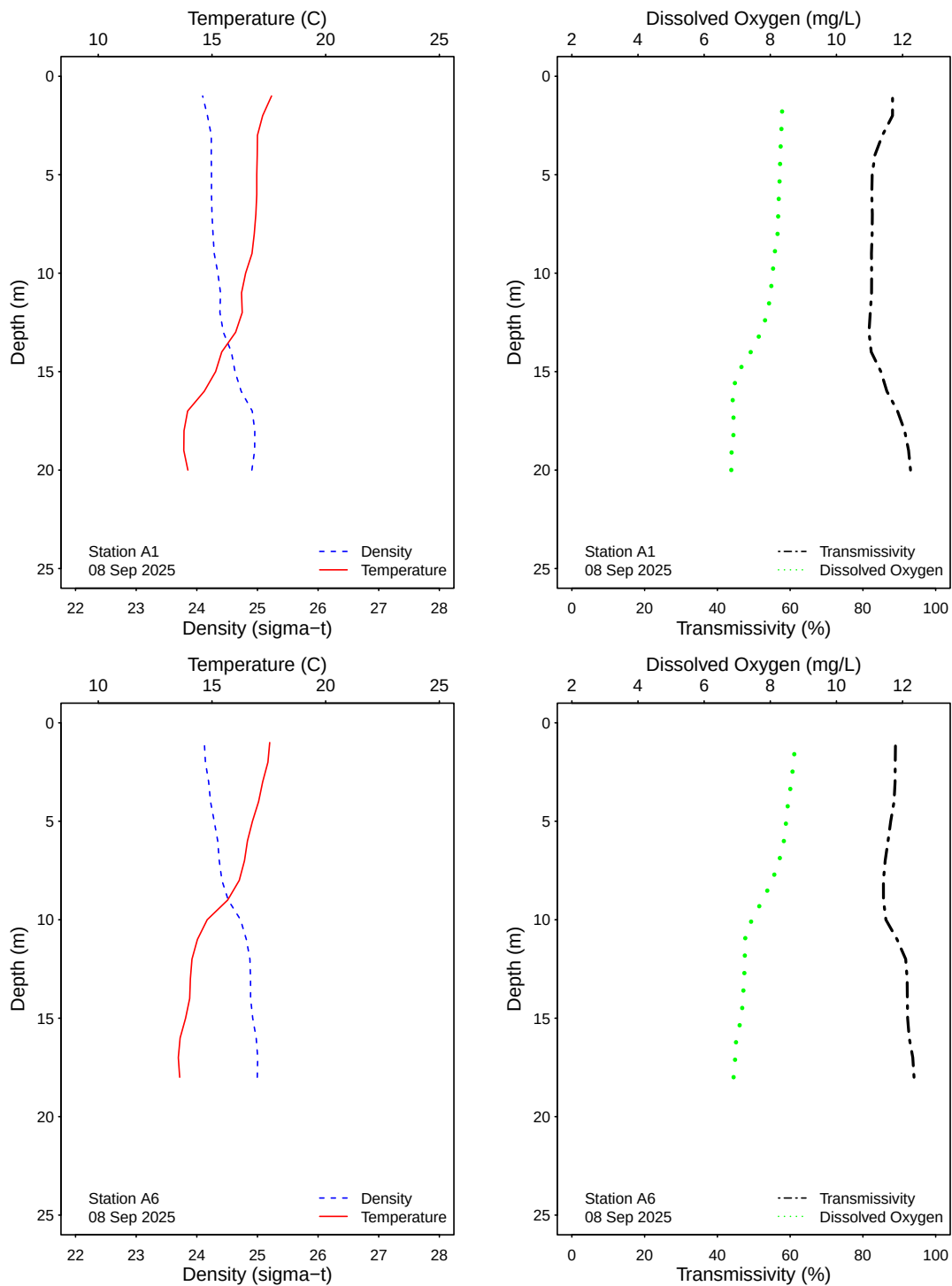


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

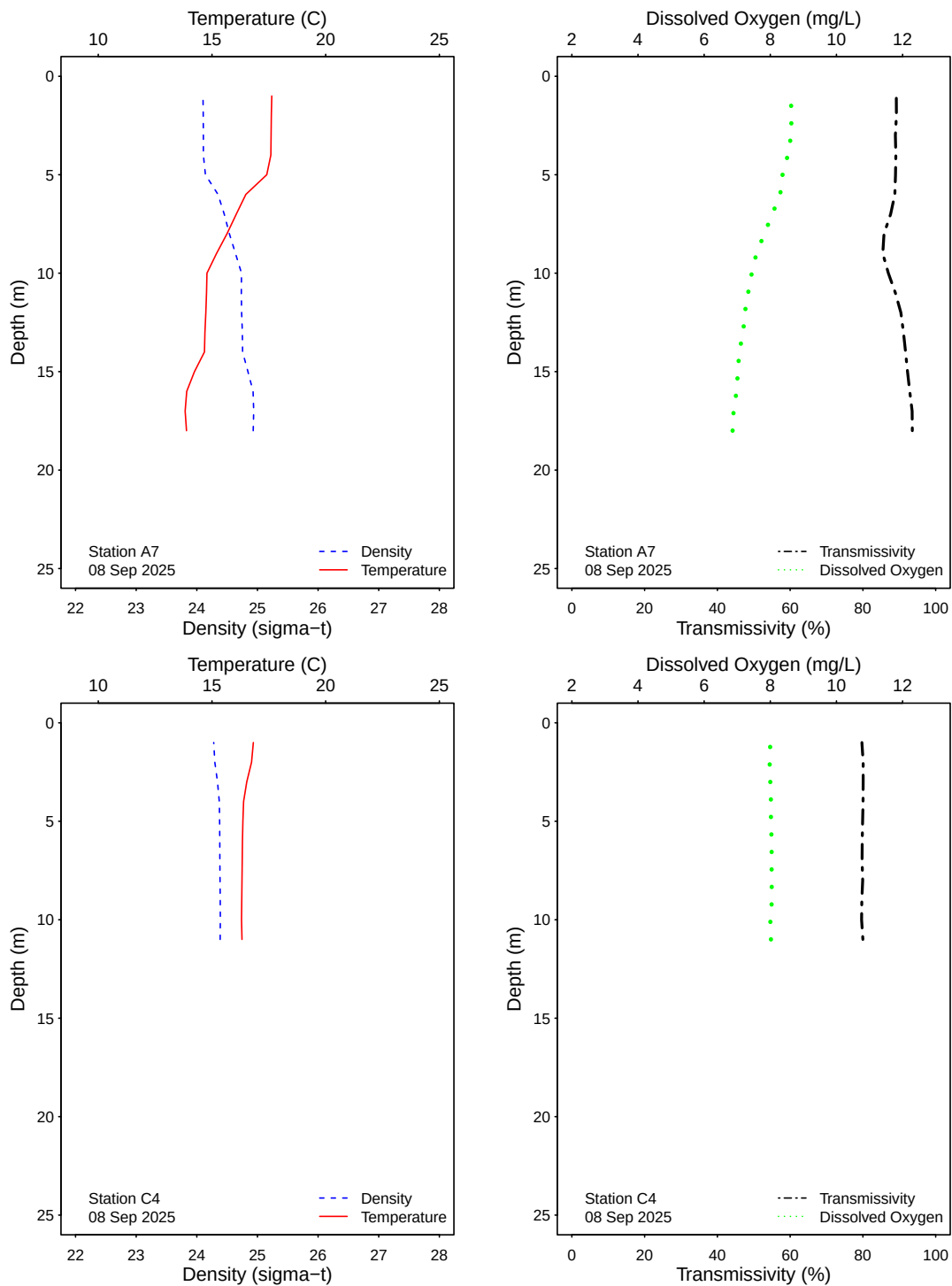


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

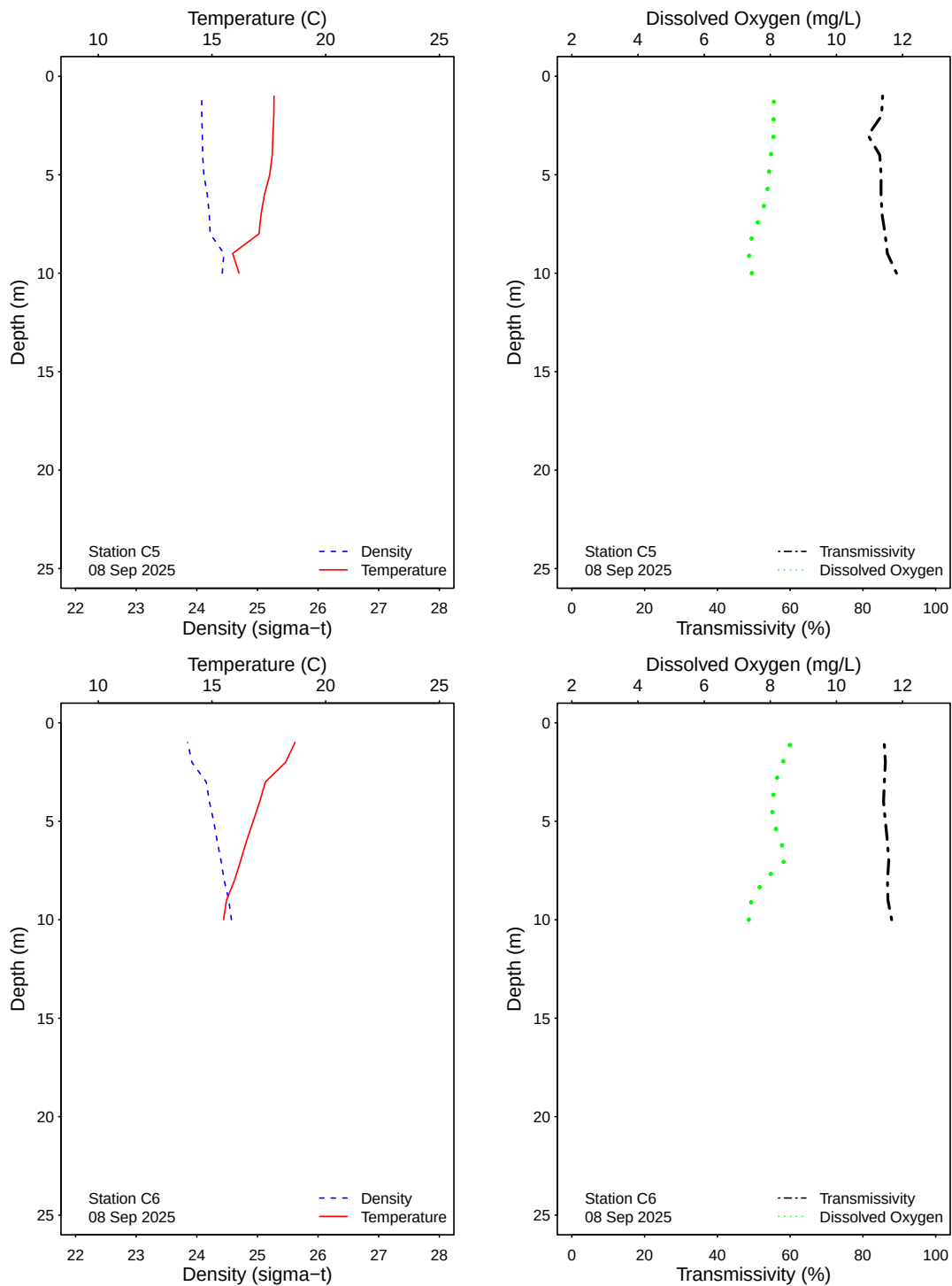


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

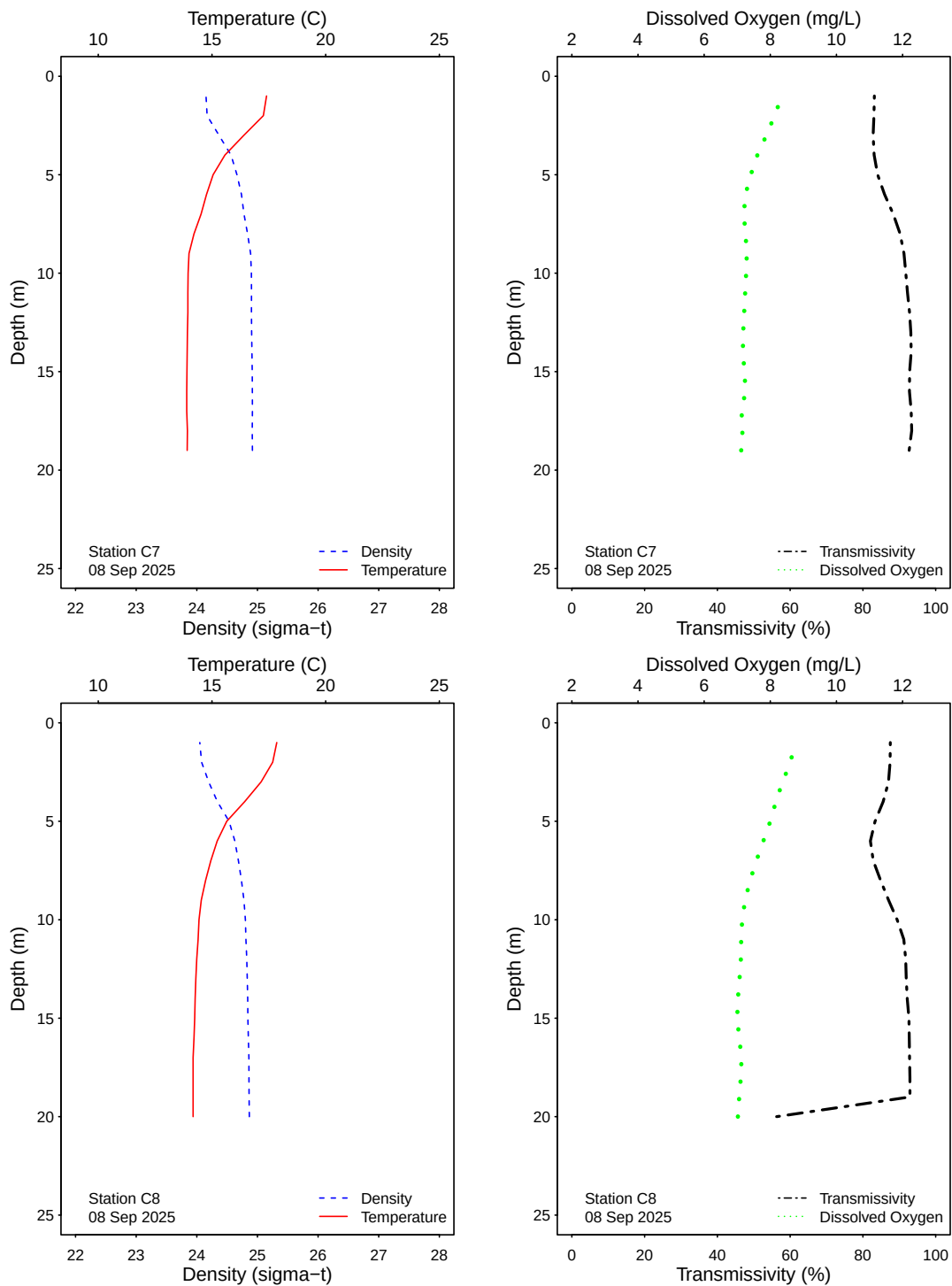


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

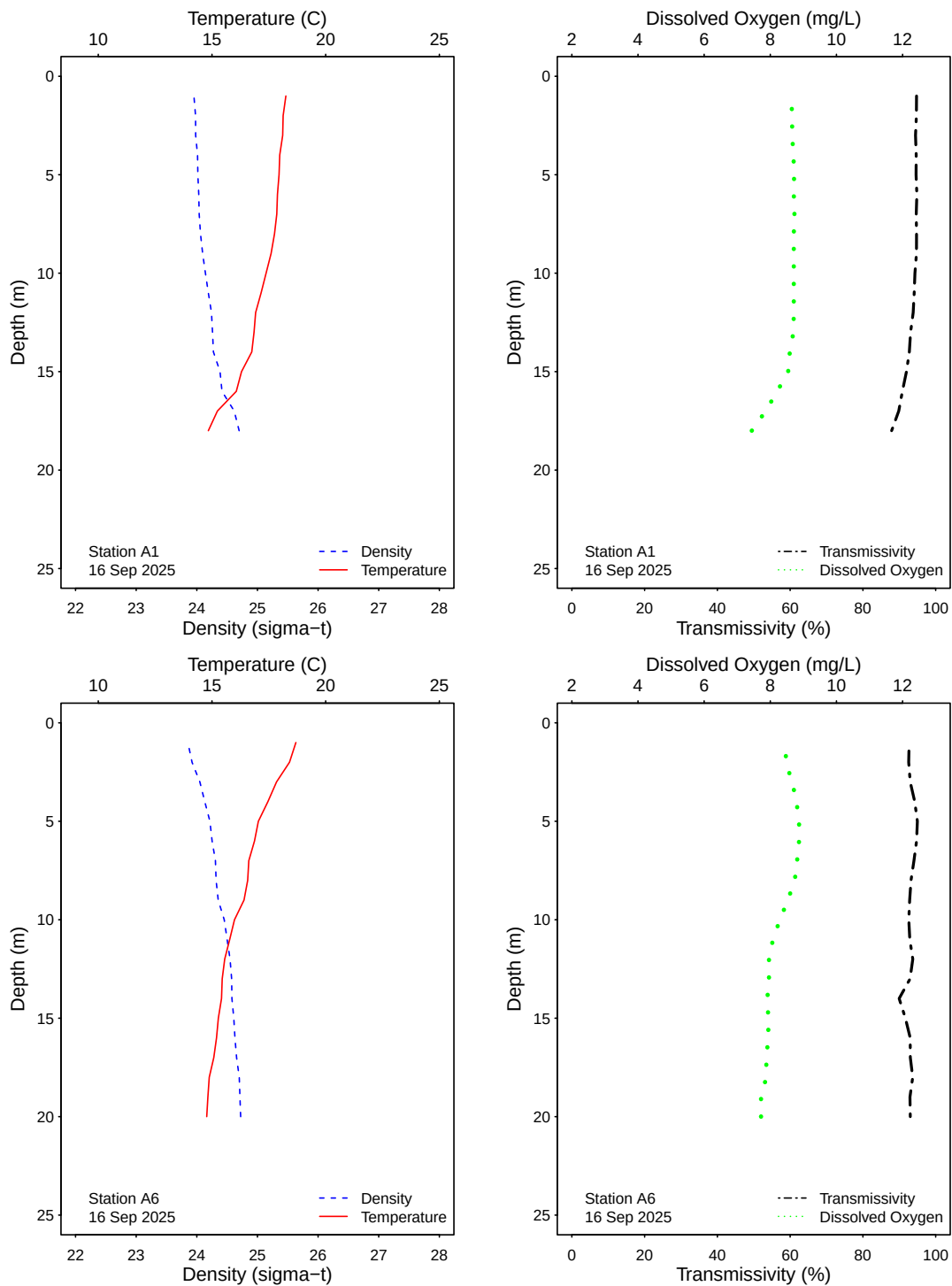


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

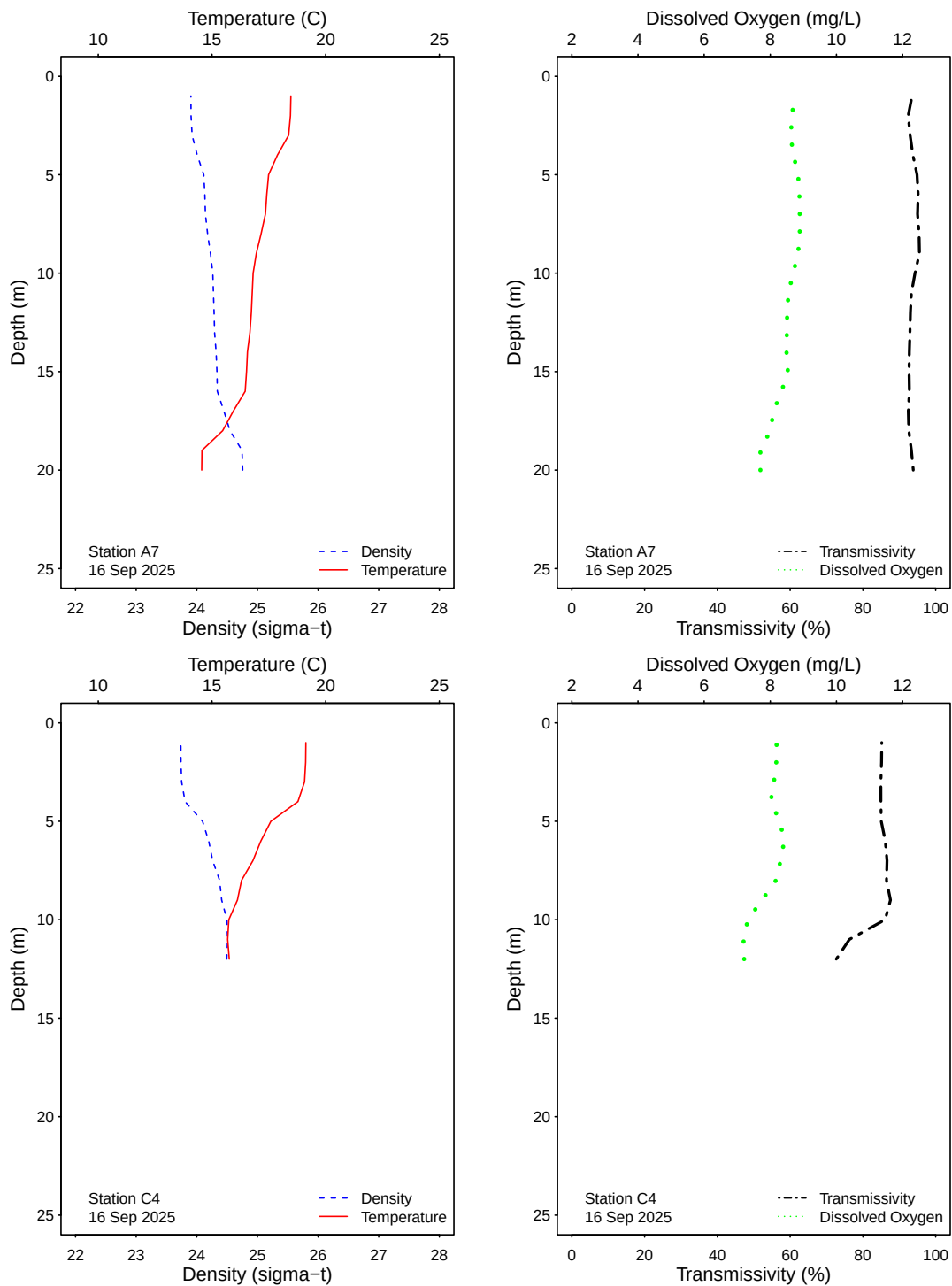


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

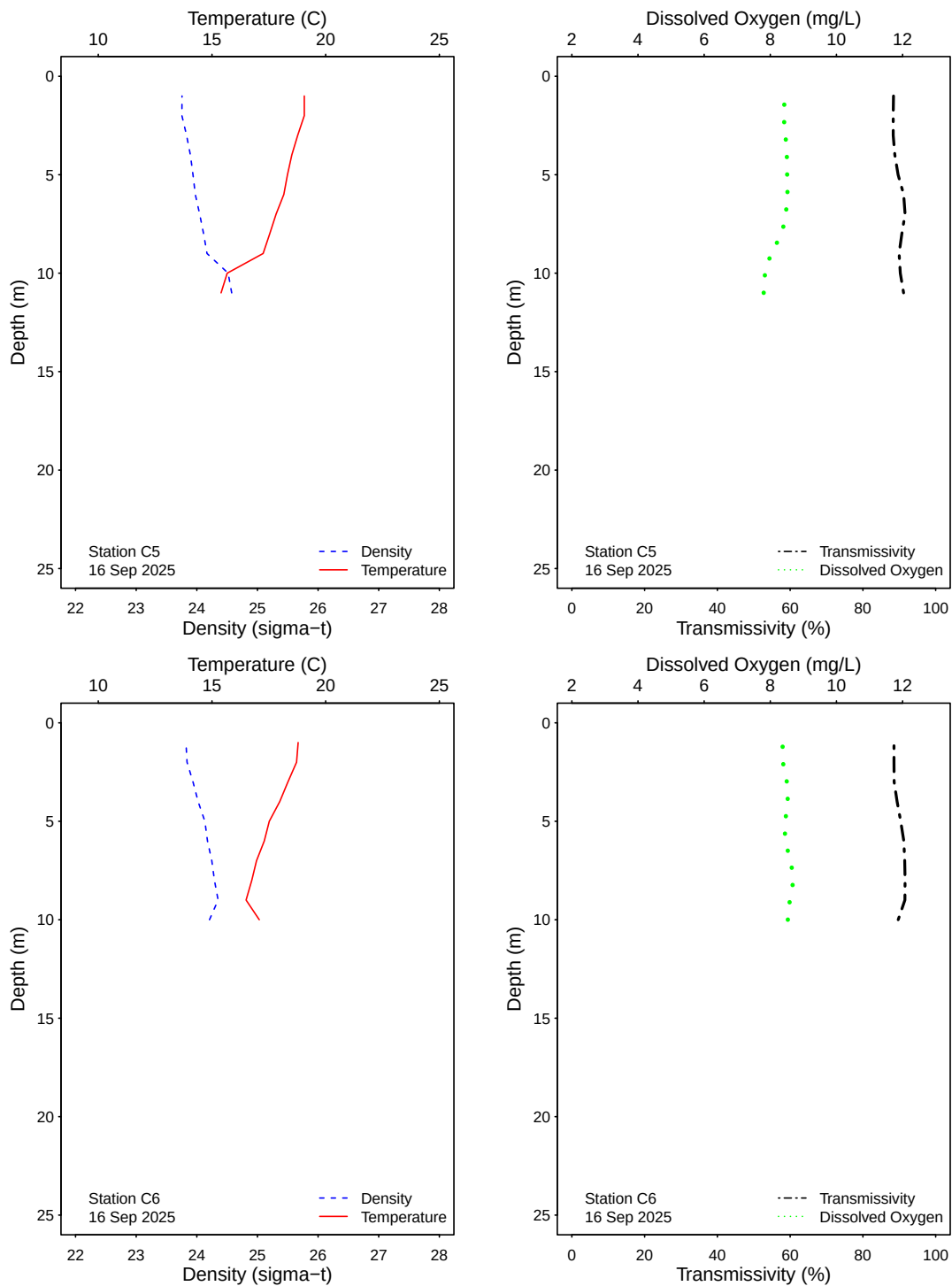


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

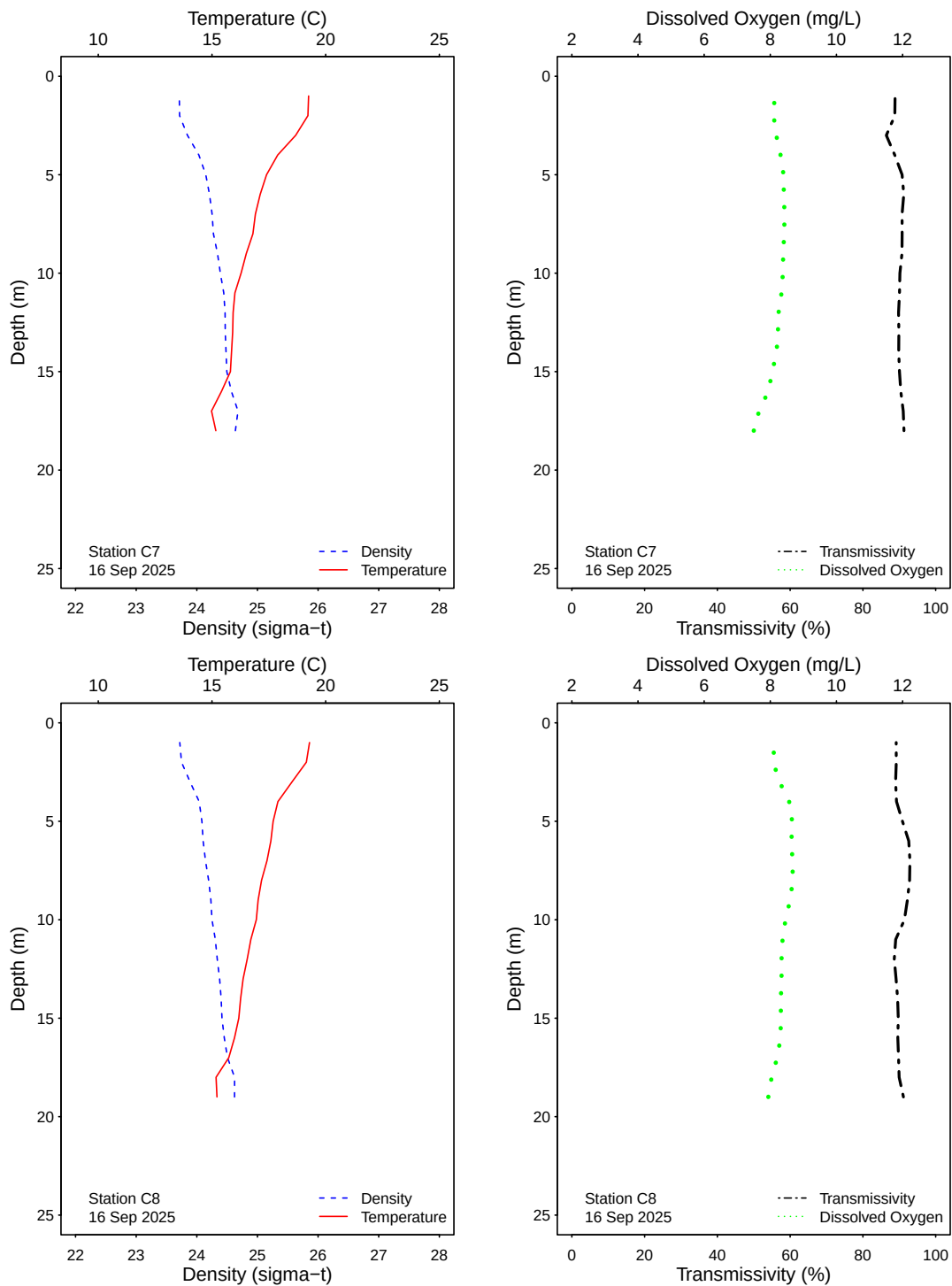


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

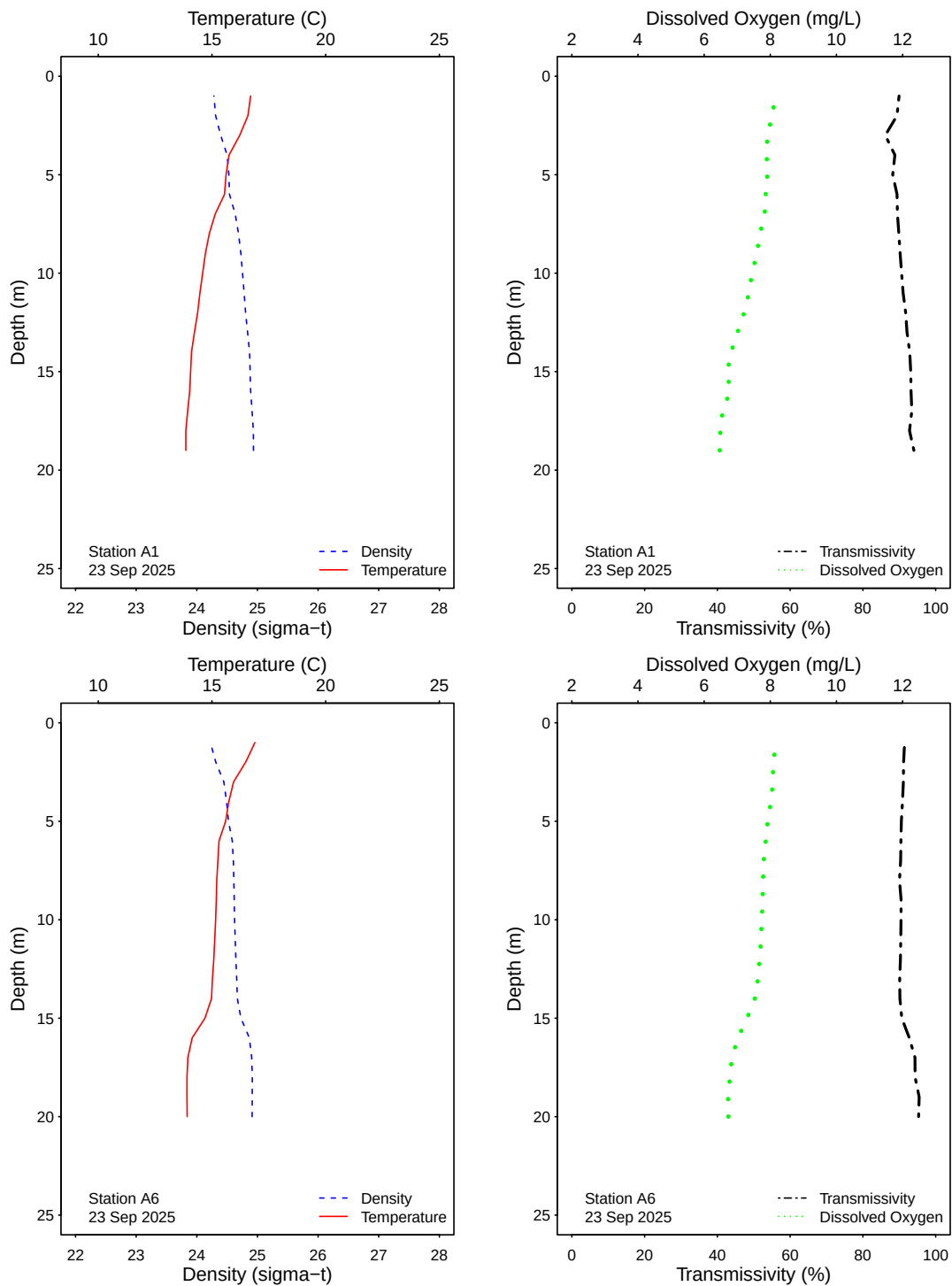


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

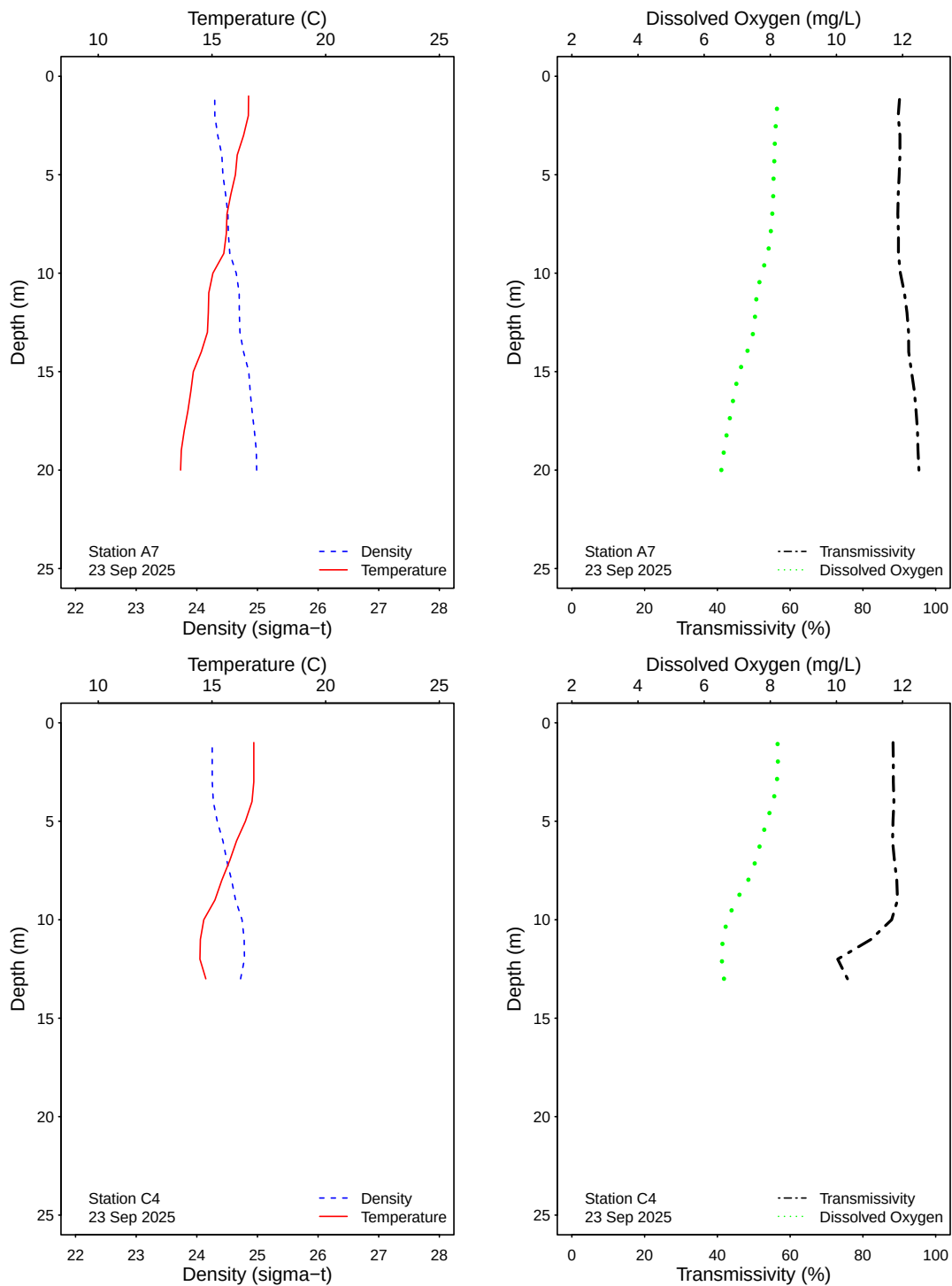


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

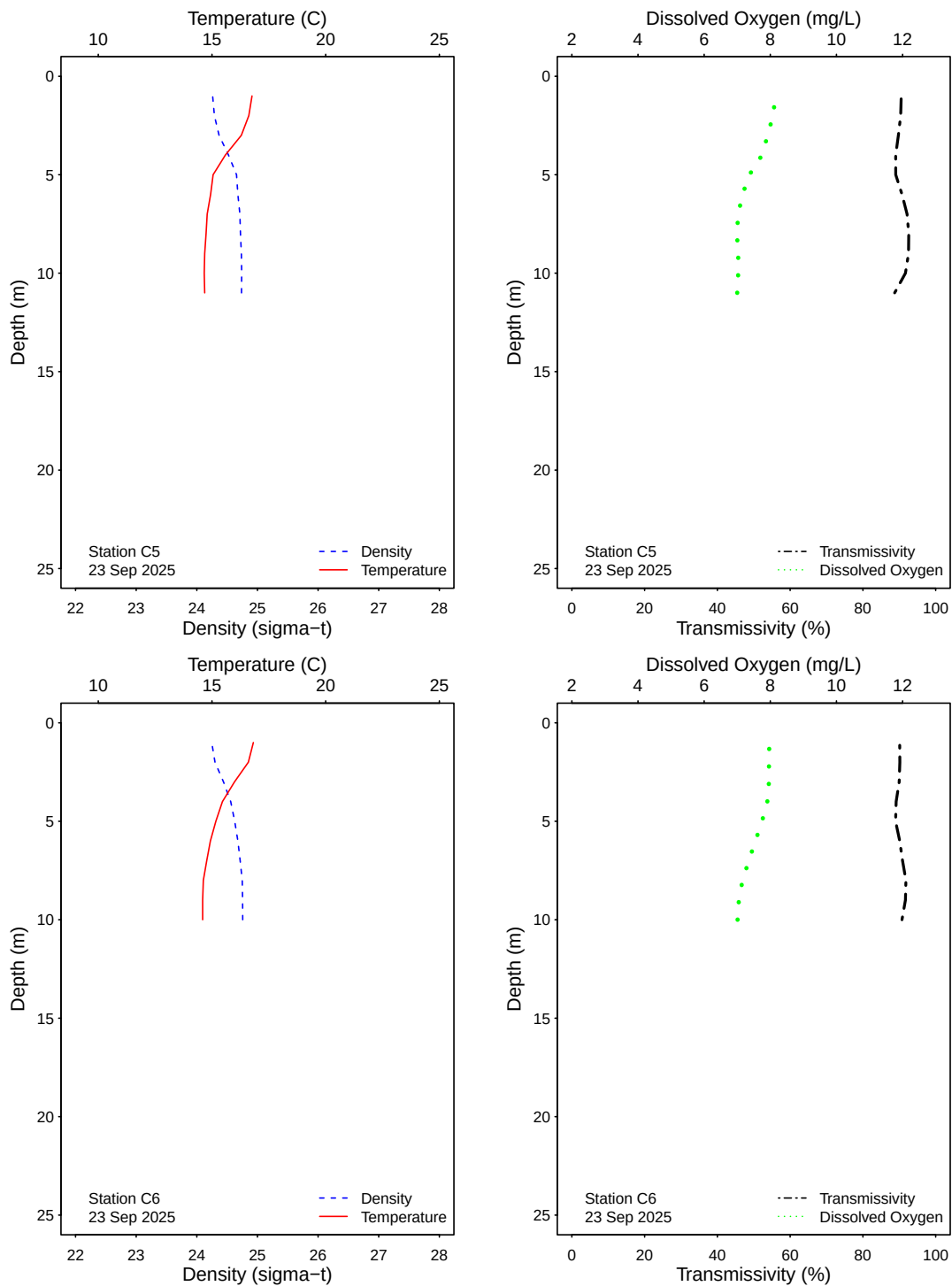


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

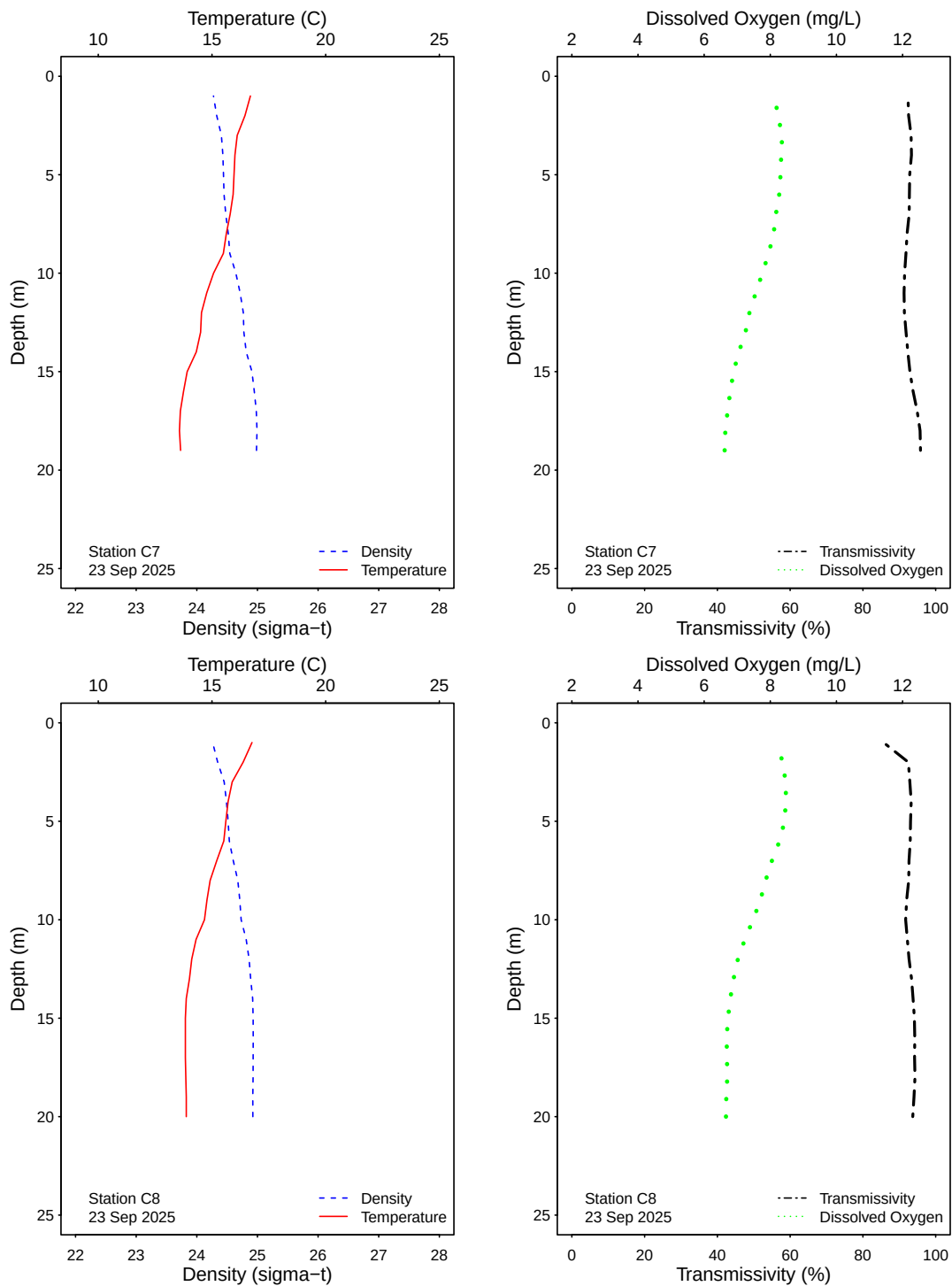


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

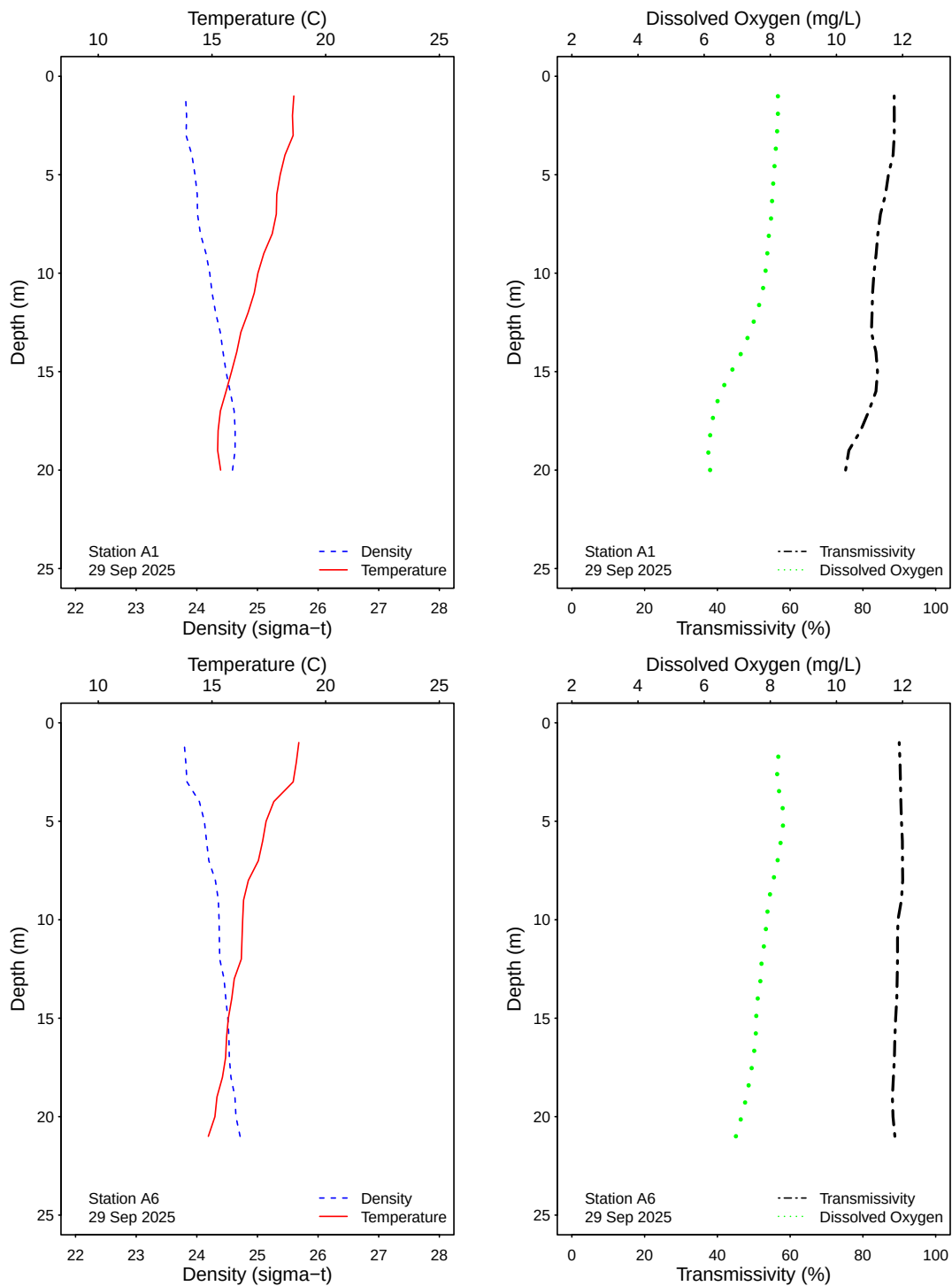


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

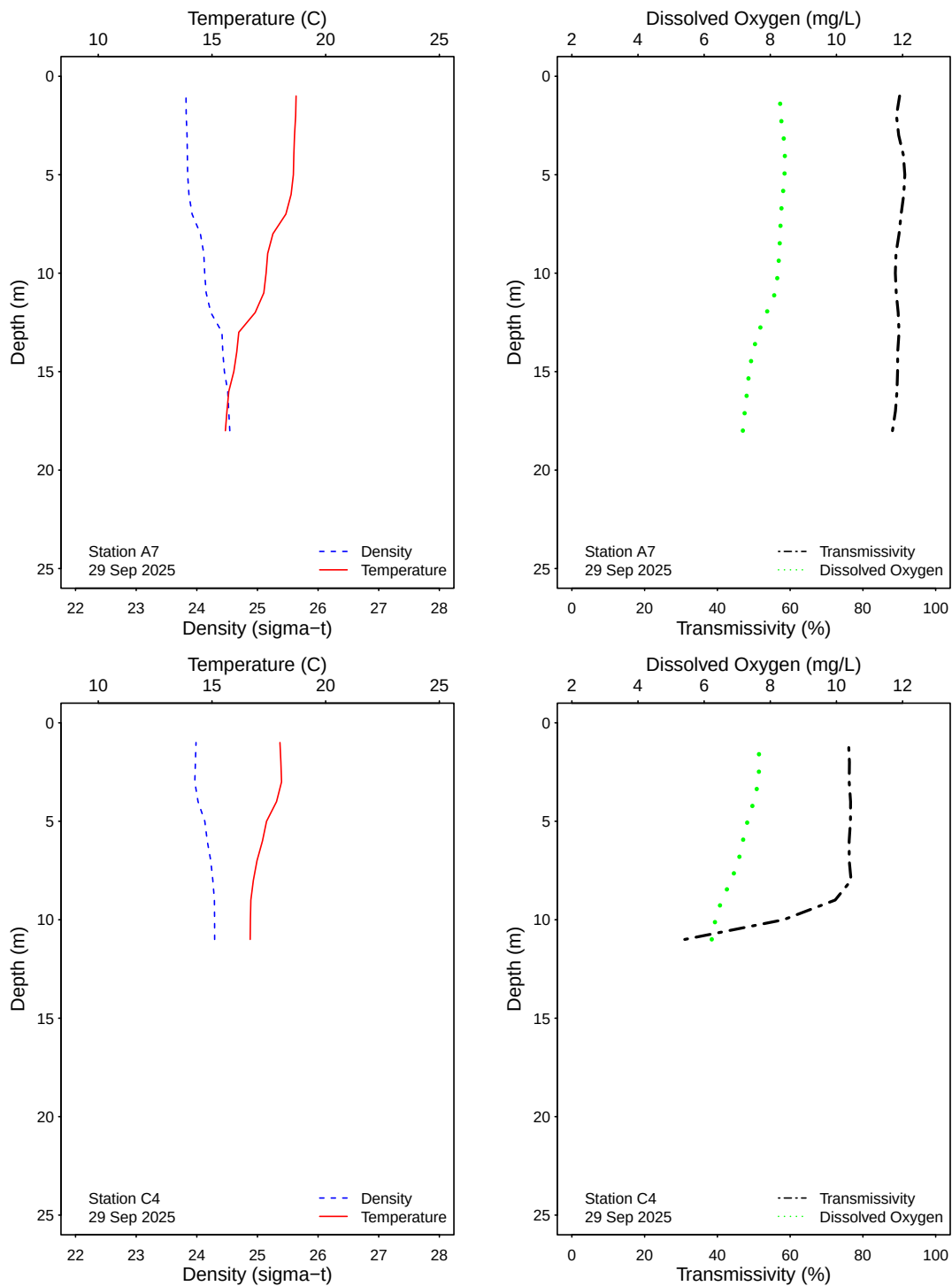


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

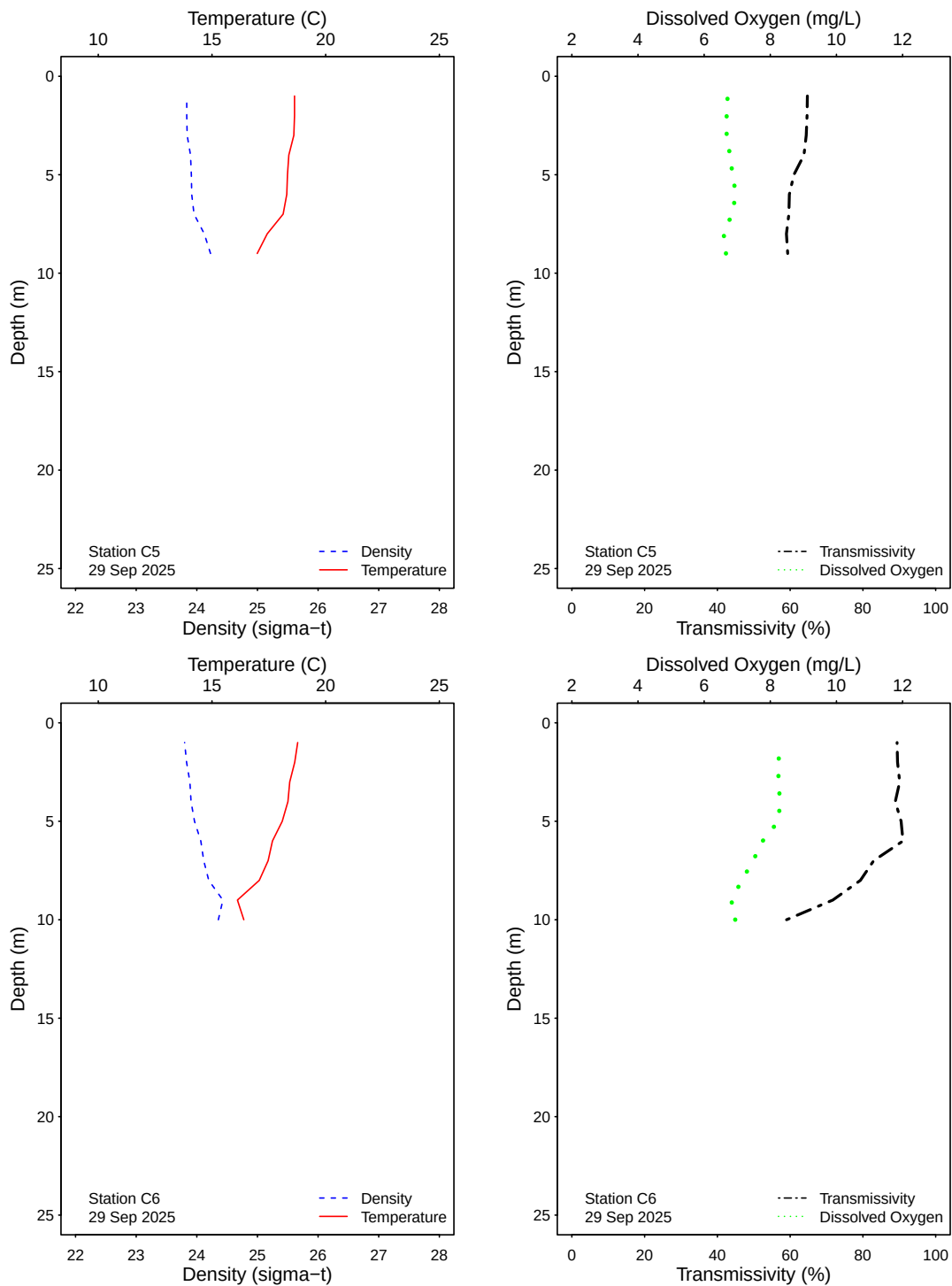


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

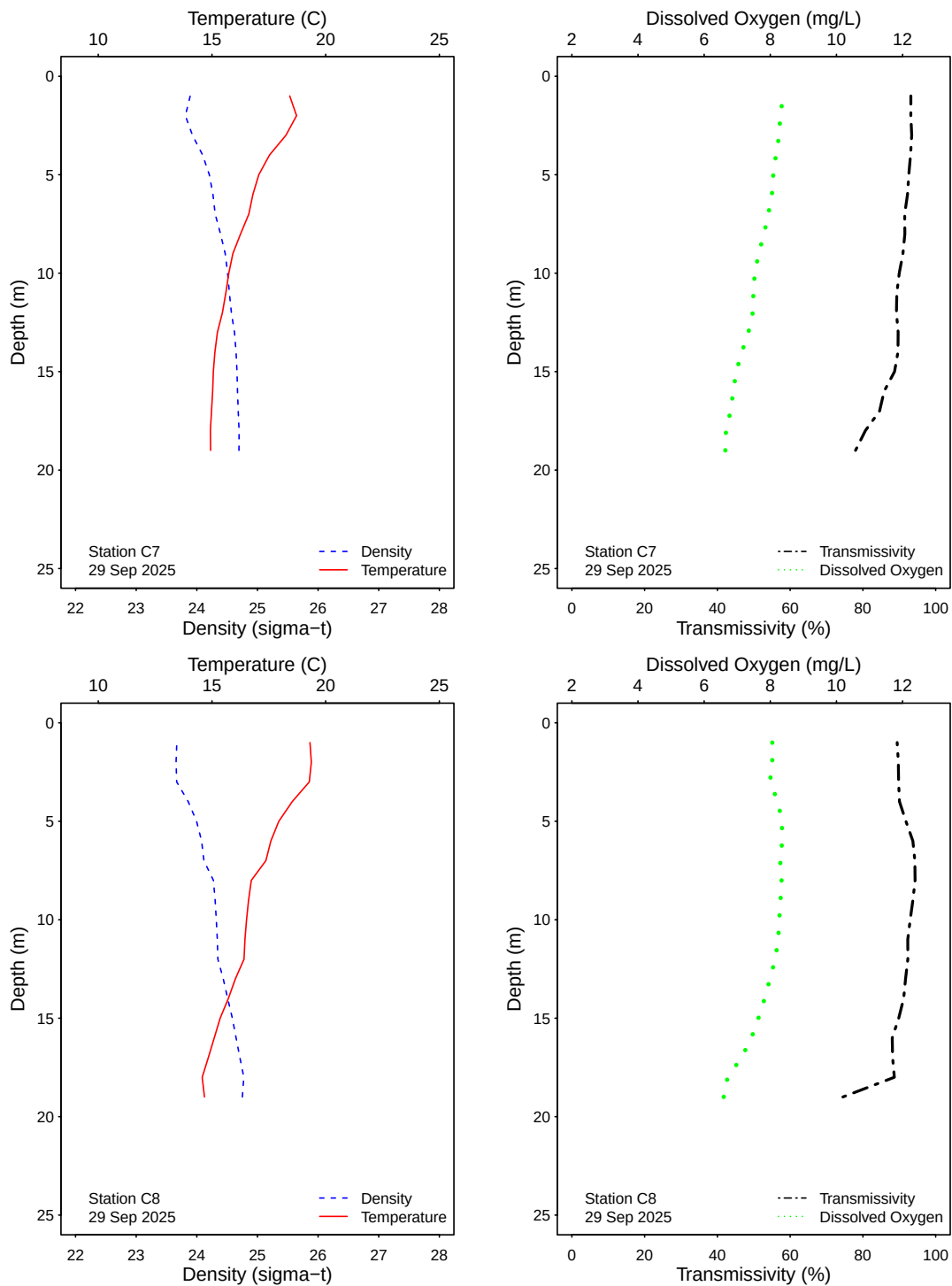


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected PLOO 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
A7	02 Sep 2025	18	SS	LAB DUPLICATE	16	6	2
A7	08 Sep 2025	18	SS	LAB DUPLICATE	48	12	2
A7	16 Sep 2025	18	KT	LAB DUPLICATE	2	2	2
A7	23 Sep 2025	18	ADG	LAB DUPLICATE	2	2	2
A7	29 Sep 2025	18	NCD	LAB DUPLICATE	2	2	2
C7	02 Sep 2025	18	SS	LAB DUPLICATE	4	2	2
C7	08 Sep 2025	18	SS	LAB DUPLICATE	20	4	2
C7	16 Sep 2025	18	KT	LAB DUPLICATE	2	2	2
C7	23 Sep 2025	18	ADG	LAB DUPLICATE	12	4	2
C7	29 Sep 2025	18	NCD	LAB DUPLICATE	2	2	2
C8	02 Sep 2025	12	SS	LAB DUPLICATE	2	2	2
C8	08 Sep 2025	12	SS	LAB DUPLICATE	6	2	2
C8	16 Sep 2025	12	KT	LAB DUPLICATE	2	2	2
C8	23 Sep 2025	12	ADG	LAB DUPLICATE	12	2	2
C8	29 Sep 2025	12	NCD	LAB DUPLICATE	2	2	2
D11	17 Sep 2025		WT	FIELD DUPLICATE	20	10	2
D11	17 Sep 2025		WT	LAB DUPLICATE	20	16	2
D12	03 Sep 2025		ADG	LAB DUPLICATE	60	2	8
D12	03 Sep 2025		ADG	FIELD DUPLICATE	20	4	6
D12	08 Sep 2025		KT	FIELD DUPLICATE	20	2	2
D12	08 Sep 2025		KT	LAB DUPLICATE	20	2	2
D12	24 Sep 2025		WT	FIELD DUPLICATE	10	2	14
D12	24 Sep 2025		WT	LAB DUPLICATE	10	6	6

ns = not sampled

ND = no data

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APPENDIX B

New 2019 Ocean Plan
Water Quality Objectives

Shore Stations

Table B.1

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
01 Sep 2025	2	2	3	4	2	3	10	2
02 Sep 2025	2	2	3	4	2	3	10	2
03 Sep 2025	2	2	2	3	2	3	7	4
04 Sep 2025	2	2	2	3	2	3	7	4
05 Sep 2025	2	2	2	3	2	3	7	4
06 Sep 2025	2	2	2	3	2	3	7	4
07 Sep 2025	2	2	2	3	2	3	7	4
08 Sep 2025	2	2	2	3	2	4	8	4
09 Sep 2025	2	2	2	3	2	4	8	4
10 Sep 2025	2	2	3	3	2	5	10	4
11 Sep 2025	2	2	3	3	2	5	10	4
12 Sep 2025	2	2	3	3	2	5	10	4
13 Sep 2025	2	2	3	3	2	5	10	4
14 Sep 2025	2	2	3	3	2	5	10	4
15 Sep 2025	2	2	3	3	2	5	10	4
16 Sep 2025	2	2	3	3	2	5	10	4
17 Sep 2025	2	2	2	3	2	4	6	4
18 Sep 2025	2	2	2	3	2	4	6	4
19 Sep 2025	2	2	2	3	2	4	6	4
20 Sep 2025	2	2	2	3	2	4	6	4
21 Sep 2025	2	2	2	3	2	4	6	4
22 Sep 2025	2	2	2	3	2	4	6	4
23 Sep 2025	2	2	2	3	2	4	6	4
24 Sep 2025	2	2	3	3	2	5	4	5
25 Sep 2025	2	2	3	3	2	5	4	5
26 Sep 2025	2	2	3	3	2	5	4	5
27 Sep 2025	2	2	3	3	2	5	4	5
28 Sep 2025	2	2	3	3	2	5	4	5
29 Sep 2025	2	2	3	3	2	5	4	5
30 Sep 2025	2	2	3	3	2	5	4	5

* Geometric mean calculated using $n < 5$

Table B.2

Summary of compliance at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
September	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table B.3

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
01 Sep 2025	*20	*30	*20	*30	*48	*70	*40	*20
02 Sep 2025	*20	*30	*20	*30	*48	*70	*40	*20
03 Sep 2025	20	20	20	20	36	40	20	20
04 Sep 2025	20	20	20	20	36	40	20	20
05 Sep 2025	*20	*20	*20	*20	*47	*60	*16	*20
06 Sep 2025	*20	*20	*20	*20	*47	*60	*16	*20
07 Sep 2025	*20	*20	*20	*20	*47	*60	*16	*20
08 Sep 2025	20	20	20	20	34	40	20	20
09 Sep 2025	20	20	20	20	34	40	20	20
10 Sep 2025	20	20	20	20	34	40	20	20
11 Sep 2025	20	20	20	20	34	40	20	20
12 Sep 2025	*20	*20	*110	*30	*30	*70	*16	*20
13 Sep 2025	*20	*20	*110	*30	*30	*70	*16	*20
14 Sep 2025	*20	*20	*110	*30	*30	*70	*16	*20
15 Sep 2025	*20	*20	*110	*30	*30	*70	*16	*20
16 Sep 2025	*20	*20	*110	*30	*30	*70	*16	*20
17 Sep 2025	20	20	20	20	34	60	20	20
18 Sep 2025	20	20	20	20	34	60	20	20
19 Sep 2025	*20	*20	*20	*20	*30	*50	*16	*20
20 Sep 2025	*20	*20	*20	*20	*30	*50	*16	*20
21 Sep 2025	*20	*20	*20	*20	*30	*50	*16	*20
22 Sep 2025	*20	*20	*20	*20	*30	*50	*16	*20
23 Sep 2025	*20	*20	*20	*20	*30	*50	*16	*20
24 Sep 2025	20	20	20	20	34	40	20	20
25 Sep 2025	20	20	20	20	34	40	20	20
26 Sep 2025	*20	*20	*110	*20	*31	*40	*20	*20
27 Sep 2025	*20	*20	*110	*20	*31	*40	*20	*20
28 Sep 2025	*20	*20	*110	*20	*31	*40	*20	*20
29 Sep 2025	*20	*20	*110	*20	*31	*40	*20	*20
30 Sep 2025	*20	*20	*110	*20	*31	*40	*20	*20

* Median calculated using n<5

Table B.4

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

Date	D4	D5	D7	D8	D9	D10	D11	D12
September	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Kelp Stations

Table B.5

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
01 Sep 2025	2	2	2	2	2	2	2	2
02 Sep 2025	2	2	2	2	2	2	2	2
03 Sep 2025	2	2	2	2	2	2	2	2
04 Sep 2025	2	2	2	2	2	2	2	2
05 Sep 2025	2	2	2	2	2	2	2	2
06 Sep 2025	2	2	2	2	2	2	2	2
07 Sep 2025	2	2	2	2	2	2	2	2
08 Sep 2025	2	2	2	2	2	2	2	2
09 Sep 2025	2	2	2	2	2	2	2	2
10 Sep 2025	2	2	2	2	2	2	2	2
11 Sep 2025	2	2	2	2	2	2	2	2
12 Sep 2025	2	2	2	2	2	2	2	2
13 Sep 2025	2	2	2	2	2	2	2	2
14 Sep 2025	2	2	2	2	2	2	2	2
15 Sep 2025	2	2	2	2	2	2	2	2
16 Sep 2025	2	2	2	2	2	2	2	2
17 Sep 2025	2	2	2	2	2	2	2	2
18 Sep 2025	2	2	2	2	2	2	2	2
19 Sep 2025	2	2	2	2	2	2	2	2
20 Sep 2025	2	2	2	2	2	2	2	2
21 Sep 2025	2	2	2	2	2	2	2	2
22 Sep 2025	2	2	2	2	2	2	2	2
23 Sep 2025	2	2	2	2	2	2	2	2
24 Sep 2025	2	2	2	2	2	2	2	2
25 Sep 2025	2	2	2	2	2	2	2	2
26 Sep 2025	2	2	2	2	2	2	2	2
27 Sep 2025	2	2	2	2	2	2	2	2
28 Sep 2025	2	2	2	2	2	2	2	2
29 Sep 2025	2	2	2	2	2	2	2	2
30 Sep 2025	2	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table B.6

Summary of compliance at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
September	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table B.7

Summary of compliance with the Ocean Plan's 30-day Median" standard for total coliform bacteria at the PLOO 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	A1			A6			A7			C4			C5			C6			C7			C8		
	1m	12m	18m	1m	12m	18m	1m	12m	18m	1m	3m	9m	1m	3m	9m	1m	3m	9m	1m	12m	18m	1m	12m	18m
01 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*5	*11	*11	*11	*2	*2	*2	*11	*11	*2	*2	*2	*3	*12	*3	*2
02 Sep 2025	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2
03 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*8	*2	*2	*2	*2	*2	*2	*11	*11	*2	*3	*2	*3	*12	*2	*2
04 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*8	*2	*2	*2	*2	*2	*2	*11	*11	*2	*3	*2	*3	*12	*2	*2
05 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*8	*2	*2	*2	*2	*2	*2	*11	*11	*2	*3	*2	*3	*12	*2	*2
06 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*8	*2	*2	*2	*2	*2	*2	*11	*11	*2	*3	*2	*3	*12	*2	*2
07 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*8	*2	*2	*2	*2	*2	*2	*11	*11	*2	*3	*2	*3	*12	*2	*2
08 Sep 2025	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	4	4	2	2
09 Sep 2025	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	4	4	2	2
10 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5	*3	*4	*2
11 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5	*3	*4	*2
12 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5	*3	*4	*2
13 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5	*3	*4	*2
14 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5	*3	*4	*2
15 Sep 2025	*2	*3	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5	*3	*4	*2
16 Sep 2025	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*5	*2	*2	*2
18 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*5	*2	*2	*2
19 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*5	*2	*2	*2
20 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*5	*2	*2	*2
21 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*5	*2	*2	*2
22 Sep 2025	*2	*2	*2	*2	*2	*2	*2	*2	*10	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*5	*2	*2	*2
23 Sep 2025	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2
24 Sep 2025	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2
25 Sep 2025	*2	*2	*21	*2	*2	*2	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*11	*2	*8	*2	*2	*6
26 Sep 2025	*2	*2	*21	*2	*2	*2	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*11	*2	*8	*2	*2	*6
27 Sep 2025	*2	*2	*21	*2	*2	*2	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*11	*2	*8	*2	*2	*6
28 Sep 2025	*2	*2	*21	*2	*2	*2	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*11	*2	*8	*2	*2	*6
29 Sep 2025	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	14	2	2	2
30 Sep 2025	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	14	2	2	2

* Median calculated using n<5

Table B.8

Summary of compliance at the PLOO 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

Date	A1			A6			A7			C4			C5			C6			C7			C8		
	1m	12m	18m	1m	12m	18m	1m	12m	18m	1m	3m	9m	1m	3m	9m	1m	3m	9m	1m	12m	18m	1m	12m	18m
September	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
E = Exceedance
ns = not sampled
ND = no data