

POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

OCTOBER 2025

Environmental Monitoring and Technical Services
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November 30, 2025

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the October 2025 Monthly Receiving Waters Monitoring Report for the 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 October 1, 8, 15, 22, and 29.
- During the October 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 D8 on one or more days in October.
- 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 October 7, 15, 21, and 27.
- During the October reporting period, one of the eight kelp stations was out of compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:

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

- The single sample maximum (SSM) standard for fecal:total ratio was exceeded at station A7.
- Water column temperatures ranged from 12.92 to 18.96°C. The difference between surface and bottom waters ranged from 0.58 to 4.65°C.
- Chlorophyll *a* concentrations ranged from 0.44 to 5.66 µg/L.
- Nothing of sewage origin was observed at PLOO kelp stations in October.

Offshore Stations

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



TABLES AND FIGURES

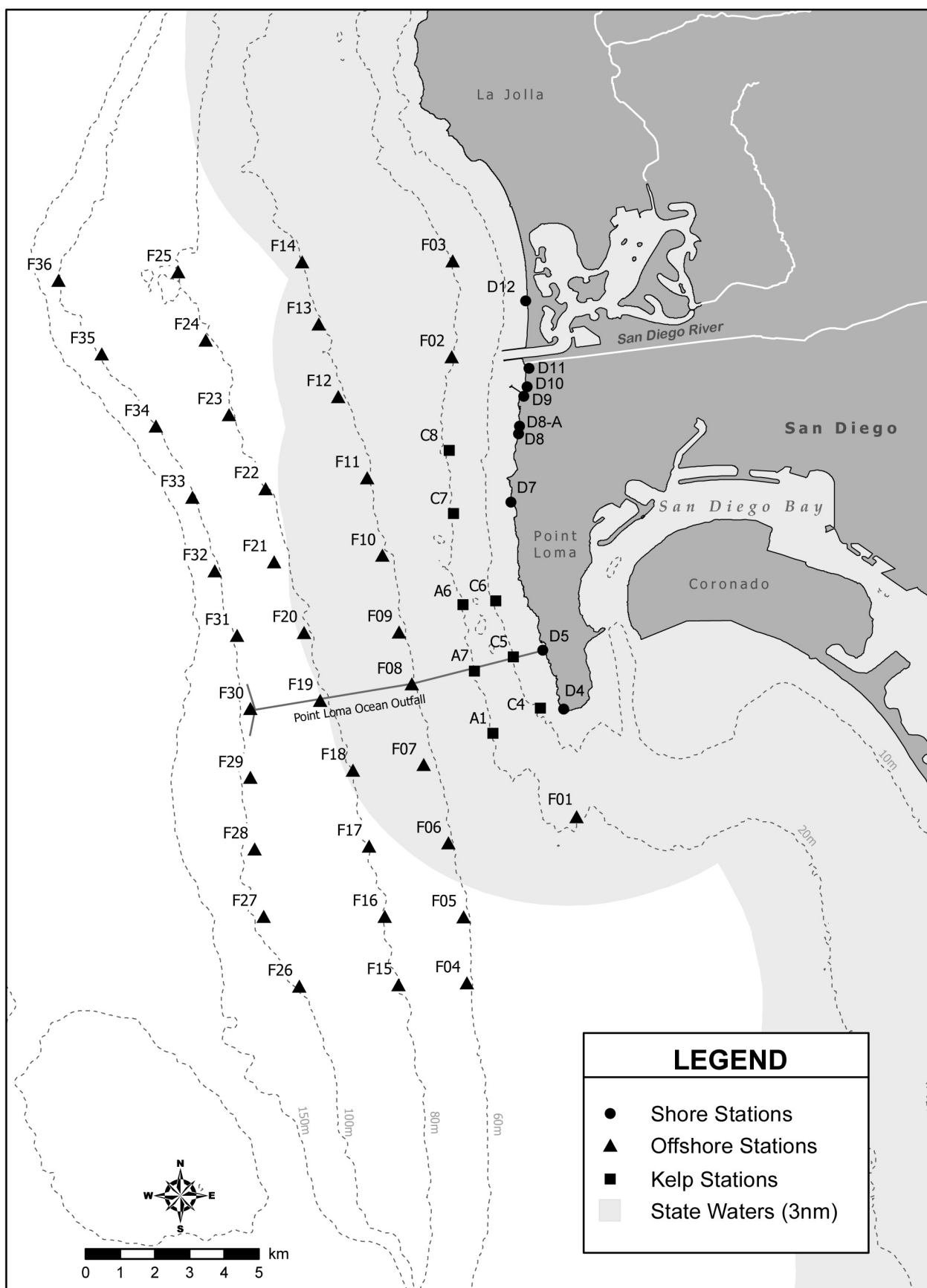


Figure 1.1 Station Map

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Shore Stations

Table 2.1

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

* 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
01 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

Summary of compliance with the Ocean Plan's 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 Oct 2025	2	2	3	2	2	4	3	6
02 Oct 2025	2	2	3	2	2	4	3	6
03 Oct 2025	*2	*2	*3	*2	*2	*4	*3	*5
04 Oct 2025	*2	*2	*3	*2	*2	*4	*3	*5
05 Oct 2025	*2	*2	*3	*2	*2	*4	*3	*5
06 Oct 2025	*2	*2	*3	*2	*2	*4	*3	*5
07 Oct 2025	*2	*2	*3	*2	*2	*4	*3	*5
08 Oct 2025	*2	*2	*4	*4	*4	*5	*4	*3
09 Oct 2025	*2	*2	*4	*4	*4	*5	*4	*3
10 Oct 2025	*2	*2	*4	*4	*4	*5	*4	*3
11 Oct 2025	*2	*2	*4	*4	*4	*5	*4	*3
12 Oct 2025	*2	*2	*4	*4	*4	*5	*4	*3
13 Oct 2025	*2	*2	*4	*4	*4	*5	*4	*3
14 Oct 2025	*2	*2	*4	*4	*4	*5	*4	*3
15 Oct 2025	2	2	4	5	5	6	6	3
16 Oct 2025	2	2	4	5	5	6	6	3
17 Oct 2025	*2	*2	*5	*6	*6	*8	*8	*3
18 Oct 2025	*2	*2	*5	*6	*6	*8	*8	*3
19 Oct 2025	*2	*2	*5	*6	*6	*8	*8	*3
20 Oct 2025	*2	*2	*5	*6	*6	*8	*8	*3
21 Oct 2025	*2	*2	*5	*6	*6	*8	*8	*3
22 Oct 2025	2	2	4	5	5	9	9	5
23 Oct 2025	2	2	4	5	5	9	9	5
24 Oct 2025	*2	*2	*3	*6	*6	*9	*14	*4
25 Oct 2025	*2	*2	*3	*6	*6	*9	*14	*4
26 Oct 2025	*2	*2	*3	*6	*6	*9	*14	*4
27 Oct 2025	*2	*2	*3	*6	*6	*9	*14	*4
28 Oct 2025	*2	*2	*3	*6	*6	*9	*14	*4
29 Oct 2025	2	2	3	5	5	6	12	4
30 Oct 2025	2	2	3	5	5	6	12	4
31 Oct 2025	*2	*2	*3	*6	*6	*9	*18	*3

* 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
01 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Oct 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 Oct 2025	14	20	32	36	30	57	20	22
02 Oct 2025	14	20	32	36	30	57	20	22
03 Oct 2025	*20	*20	*63	*42	*30	*87	*24	*19
04 Oct 2025	*20	*20	*63	*42	*30	*87	*24	*19
05 Oct 2025	*20	*20	*63	*42	*30	*87	*24	*19
06 Oct 2025	*20	*20	*63	*42	*30	*87	*24	*19
07 Oct 2025	*20	*20	*63	*42	*30	*87	*24	*19
08 Oct 2025	*24	*36	*63	*56	*30	*104	*42	*19
09 Oct 2025	*24	*36	*63	*56	*30	*104	*42	*19
10 Oct 2025	*24	*36	*63	*56	*30	*104	*42	*19
11 Oct 2025	*24	*36	*63	*56	*30	*104	*42	*19
12 Oct 2025	*24	*36	*63	*56	*30	*104	*42	*19
13 Oct 2025	*24	*36	*63	*56	*30	*104	*42	*19
14 Oct 2025	*24	*36	*63	*56	*30	*104	*42	*19
15 Oct 2025	14	50	50	73	39	153	73	12
16 Oct 2025	14	50	50	73	39	153	73	12
17 Oct 2025	*13	*63	*63	*101	*39	*193	*101	*11
18 Oct 2025	*13	*63	*63	*101	*39	*193	*101	*11
19 Oct 2025	*13	*63	*63	*101	*39	*193	*101	*11
20 Oct 2025	*13	*63	*63	*101	*39	*193	*101	*11
21 Oct 2025	*13	*63	*63	*101	*39	*193	*101	*11
22 Oct 2025	14	80	58	97	34	123	116	19
23 Oct 2025	14	80	58	97	34	123	116	19
24 Oct 2025	*13	*112	*42	*143	*30	*162	*152	*20
25 Oct 2025	*13	*112	*42	*143	*30	*162	*152	*20
26 Oct 2025	*13	*112	*42	*143	*30	*162	*152	*20
27 Oct 2025	*13	*112	*42	*143	*30	*162	*152	*20
28 Oct 2025	*13	*112	*42	*143	*30	*162	*152	*20
29 Oct 2025	14	80	33	97	28	107	101	16
30 Oct 2025	14	80	33	97	28	107	101	16
31 Oct 2025	*13	*112	*37	*121	*30	*69	*152	*15

* 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
01 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Oct 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
01 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Oct 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	01 Oct 2025	808	600e	2e	2e
D10	08 Oct 2025	932	80e	8e	14e
D10	15 Oct 2025	1031	720	100e	20e
D10	22 Oct 2025	936	<20	4e	10e
D10	29 Oct 2025	946	20e	<2	2e
D11	01 Oct 2025	748	<20	<2	2e
D11	08 Oct 2025	912	<200	20e	30e
D11	15 Oct 2025	1018	660	100e	28e
D11	22 Oct 2025	951	<200	40e	22e
D11	29 Oct 2025	929	<20	<2	6e
D12	01 Oct 2025	728	<20	2e	6e
D12	08 Oct 2025	842	<20	<2	<2
D12	15 Oct 2025	943	2e	<2	<2
D12	22 Oct 2025	1019	<200	14e	16e
D12	29 Oct 2025	857	6e	6e	2e
D4	01 Oct 2025	953	<20	<2	<2
D4	08 Oct 2025	1125	40e	6e	4e
D4	15 Oct 2025	1157	<2	<2	2e
D4	22 Oct 2025	811	<20	<2	2e
D4	29 Oct 2025	1148	<20	<2	<2
D5	01 Oct 2025	942	<20	<2	<2
D5	08 Oct 2025	1107	<200	4e	<2
D5	15 Oct 2025	1140	200e	2e	<2
D5	22 Oct 2025	751	<200	<2	2e
D5	29 Oct 2025	1121	<20	<2	<2
D7	01 Oct 2025	904	<20	<2	2e
D7	08 Oct 2025	1019	<200	2e	8e
D7	15 Oct 2025	1111	<20	<2	4e
D7	22 Oct 2025	844	40e	<2	<2
D7	29 Oct 2025	1045	12e	<2	<2
D8	01 Oct 2025	845	40e	<2	<2
D8	08 Oct 2025	1001	600e	<20	<20
D8	15 Oct 2025	1057	220e	4e	20e
D8	22 Oct 2025	903	80e	<2	<2
D8	29 Oct 2025	1029	20e	4e	<2
D9	01 Oct 2025	832	20e	<2	<2
D9	08 Oct 2025	948	<20	<2	30e
D9	15 Oct 2025	1043	100e	4e	8e
D9	22 Oct 2025	920	20e	4e	<2
D9	29 Oct 2025	1012	<20	2e	<2

ns = not sampled

ND = no data

Table 2.9

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

Station	Date	Parameter	Value
D4	01 Oct 2025	Arrive Time	953
D4	01 Oct 2025	Wind Speed (kts)	1.3
D4	01 Oct 2025	Wind Dir	SE
D4	01 Oct 2025	Animal Life	
D4	01 Oct 2025	Floatables	
D4	01 Oct 2025	Current Direction	S
D4	01 Oct 2025	Water Temp (C)	15
D4	01 Oct 2025	High Tide Time	726
D4	01 Oct 2025	Low Tide Time	16
D4	01 Oct 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae
D4	08 Oct 2025	Arrive Time	1125
D4	08 Oct 2025	Wind Speed (kts)	2.5
D4	08 Oct 2025	Wind Dir	SW
D4	08 Oct 2025	Animal Life	
D4	08 Oct 2025	Floatables	
D4	08 Oct 2025	Current Direction	S
D4	08 Oct 2025	Water Temp (C)	16
D4	08 Oct 2025	High Tide Time	958
D4	08 Oct 2025	Low Tide Time	353
D4	08 Oct 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris
D4	15 Oct 2025	Arrive Time	1157
D4	15 Oct 2025	Wind Speed (kts)	2.9
D4	15 Oct 2025	Wind Dir	SW
D4	15 Oct 2025	Animal Life	Seal/Sea Lion-1;
D4	15 Oct 2025	Floatables	
D4	15 Oct 2025	Current Direction	S
D4	15 Oct 2025	Water Temp (C)	15
D4	15 Oct 2025	High Tide Time	649
D4	15 Oct 2025	Low Tide Time	4
D4	15 Oct 2025	Comments	Water clear; Trash-1; Seagrass;Algae;Debris
D4	22 Oct 2025	Arrive Time	811
D4	22 Oct 2025	Wind Speed (kts)	1.9
D4	22 Oct 2025	Wind Dir	N
D4	22 Oct 2025	Animal Life	
D4	22 Oct 2025	Floatables	
D4	22 Oct 2025	Current Direction	S
D4	22 Oct 2025	Water Temp (C)	15
D4	22 Oct 2025	High Tide Time	930
D4	22 Oct 2025	Low Tide Time	323
D4	22 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
D4	29 Oct 2025	Arrive Time	1148
D4	29 Oct 2025	Wind Speed (kts)	4
D4	29 Oct 2025	Wind Dir	NW
D4	29 Oct 2025	Animal Life	
D4	29 Oct 2025	Floatables	Dead animals
D4	29 Oct 2025	Current Direction	S
D4	29 Oct 2025	Water Temp (C)	18.1
D4	29 Oct 2025	High Tide Time	630
D4	29 Oct 2025	Low Tide Time	944
D4	29 Oct 2025	Comments	Water clear; Trash-3; Seagrass;Algae;Kelp;Debris
D5	01 Oct 2025	Arrive Time	942

Station	Date	Parameter	Value
D5	01 Oct 2025	Wind Speed (kts)	0
D5	01 Oct 2025	Wind Dir	XX
D5	01 Oct 2025	Animal Life	
D5	01 Oct 2025	Floatables	
D5	01 Oct 2025	Current Direction	S
D5	01 Oct 2025	Water Temp (C)	14
D5	01 Oct 2025	High Tide Time	726
D5	01 Oct 2025	Low Tide Time	16
D5	01 Oct 2025	Comments	Water clear; Trash-2; Kelp; Seagrass; Algae
D5	08 Oct 2025	Arrive Time	1107
D5	08 Oct 2025	Wind Speed (kts)	3.4
D5	08 Oct 2025	Wind Dir	W
D5	08 Oct 2025	Animal Life	
D5	08 Oct 2025	Floatables	
D5	08 Oct 2025	Current Direction	S
D5	08 Oct 2025	Water Temp (C)	18
D5	08 Oct 2025	High Tide Time	958
D5	08 Oct 2025	Low Tide Time	353
D5	08 Oct 2025	Comments	Water clear; Trash-1; Kelp; Person/Walker/Jogger-1
D5	15 Oct 2025	Arrive Time	1140
D5	15 Oct 2025	Wind Speed (kts)	1.5
D5	15 Oct 2025	Wind Dir	SW
D5	15 Oct 2025	Animal Life	
D5	15 Oct 2025	Floatables	
D5	15 Oct 2025	Current Direction	S
D5	15 Oct 2025	Water Temp (C)	17
D5	15 Oct 2025	High Tide Time	649
D5	15 Oct 2025	Low Tide Time	4
D5	15 Oct 2025	Comments	Water clear; Trash-1; Algae
D5	22 Oct 2025	Arrive Time	751
D5	22 Oct 2025	Wind Speed (kts)	1.3
D5	22 Oct 2025	Wind Dir	N
D5	22 Oct 2025	Animal Life	
D5	22 Oct 2025	Floatables	
D5	22 Oct 2025	Current Direction	S
D5	22 Oct 2025	Water Temp (C)	16
D5	22 Oct 2025	High Tide Time	930
D5	22 Oct 2025	Low Tide Time	323
D5	22 Oct 2025	Comments	Water clear; Trash-2; Kelp; Seagrass; Algae
D5	29 Oct 2025	Arrive Time	1121
D5	29 Oct 2025	Wind Speed (kts)	4.4
D5	29 Oct 2025	Wind Dir	NW
D5	29 Oct 2025	Animal Life	
D5	29 Oct 2025	Floatables	
D5	29 Oct 2025	Current Direction	S
D5	29 Oct 2025	Water Temp (C)	182
D5	29 Oct 2025	High Tide Time	630
D5	29 Oct 2025	Low Tide Time	944
D5	29 Oct 2025	Comments	Water clear; Trash-1; Algae
D7	01 Oct 2025	Arrive Time	904
D7	01 Oct 2025	Wind Speed (kts)	0
D7	01 Oct 2025	Wind Dir	XX
D7	01 Oct 2025	Animal Life	
D7	01 Oct 2025	Floatables	
D7	01 Oct 2025	Current Direction	S
D7	01 Oct 2025	Water Temp (C)	16

Station	Date	Parameter	Value
D7	01 Oct 2025	High Tide Time	726
D7	01 Oct 2025	Low Tide Time	16
D7	01 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-4; Trash-1; Kelp;Sea-grass;Algae
D7	08 Oct 2025	Arrive Time	1019
D7	08 Oct 2025	Wind Speed (kts)	3.3
D7	08 Oct 2025	Wind Dir	SW
D7	08 Oct 2025	Animal Life	
D7	08 Oct 2025	Floatables	
D7	08 Oct 2025	Current Direction	S
D7	08 Oct 2025	Water Temp (C)	15
D7	08 Oct 2025	High Tide Time	958
D7	08 Oct 2025	Low Tide Time	353
D7	08 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-4
D7	15 Oct 2025	Arrive Time	1111
D7	15 Oct 2025	Wind Speed (kts)	0
D7	15 Oct 2025	Wind Dir	XX
D7	15 Oct 2025	Animal Life	
D7	15 Oct 2025	Floatables	
D7	15 Oct 2025	Current Direction	S
D7	15 Oct 2025	Water Temp (C)	20
D7	15 Oct 2025	High Tide Time	649
D7	15 Oct 2025	Low Tide Time	4
D7	15 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Sea-grass;Kelp;Algae
D7	22 Oct 2025	Arrive Time	844
D7	22 Oct 2025	Arrive Time	903
D7	22 Oct 2025	Wind Speed (kts)	0
D7	22 Oct 2025	Wind Speed (kts)	1.4
D7	22 Oct 2025	Wind Dir	XX
D7	22 Oct 2025	Wind Dir	N
D7	22 Oct 2025	Animal Life	
D7	22 Oct 2025	Floatables	
D7	22 Oct 2025	Current Direction	S
D7	22 Oct 2025	Water Temp (C)	15
D7	22 Oct 2025	Water Temp (C)	16
D7	22 Oct 2025	High Tide Time	930
D7	22 Oct 2025	Low Tide Time	323
D7	22 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
D7	22 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D7	29 Oct 2025	Arrive Time	1045
D7	29 Oct 2025	Wind Speed (kts)	0
D7	29 Oct 2025	Wind Dir	XX
D7	29 Oct 2025	Animal Life	
D7	29 Oct 2025	Floatables	
D7	29 Oct 2025	Current Direction	S
D7	29 Oct 2025	Water Temp (C)	17.9
D7	29 Oct 2025	High Tide Time	630
D7	29 Oct 2025	Low Tide Time	944
D7	29 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-3; Trash-1; Algae;Sea-grass
D8	01 Oct 2025	Arrive Time	845
D8	01 Oct 2025	Wind Speed (kts)	0
D8	01 Oct 2025	Wind Dir	XX
D8	01 Oct 2025	Animal Life	Dog-2;

Station	Date	Parameter	Value
D8	01 Oct 2025	Floatables	
D8	01 Oct 2025	Current Direction	S
D8	01 Oct 2025	Water Temp (C)	17
D8	01 Oct 2025	High Tide Time	726
D8	01 Oct 2025	Low Tide Time	16
D8	01 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae; Person/Walker/Jogger-1
D8	08 Oct 2025	Arrive Time	1001
D8	08 Oct 2025	Wind Speed (kts)	3.1
D8	08 Oct 2025	Wind Dir	SW
D8	08 Oct 2025	Animal Life	
D8	08 Oct 2025	Floatables	
D8	08 Oct 2025	Current Direction	S
D8	08 Oct 2025	Water Temp (C)	16
D8	08 Oct 2025	High Tide Time	958
D8	08 Oct 2025	Low Tide Time	353
D8	08 Oct 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris
D8	15 Oct 2025	Arrive Time	1057
D8	15 Oct 2025	Wind Speed (kts)	0.7
D8	15 Oct 2025	Wind Dir	SW
D8	15 Oct 2025	Animal Life	Dog-1;
D8	15 Oct 2025	Floatables	
D8	15 Oct 2025	Current Direction	S
D8	15 Oct 2025	Water Temp (C)	15
D8	15 Oct 2025	High Tide Time	649
D8	15 Oct 2025	Low Tide Time	4
D8	15 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-1
D8	29 Oct 2025	Arrive Time	1029
D8	29 Oct 2025	Wind Speed (kts)	0
D8	29 Oct 2025	Wind Dir	XX
D8	29 Oct 2025	Animal Life	
D8	29 Oct 2025	Floatables	
D8	29 Oct 2025	Current Direction	S
D8	29 Oct 2025	Water Temp (C)	18.4
D8	29 Oct 2025	High Tide Time	630
D8	29 Oct 2025	Low Tide Time	944
D8	29 Oct 2025	Comments	Water turbid; Trash-1; Kelp;Seagrass;Algae; Sewage-like odor
D9	01 Oct 2025	Arrive Time	832
D9	01 Oct 2025	Wind Speed (kts)	0
D9	01 Oct 2025	Wind Dir	XX
D9	01 Oct 2025	Animal Life	
D9	01 Oct 2025	Floatables	
D9	01 Oct 2025	Current Direction	S
D9	01 Oct 2025	Water Temp (C)	8
D9	01 Oct 2025	High Tide Time	726
D9	01 Oct 2025	Low Tide Time	16
D9	01 Oct 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
D9	08 Oct 2025	Arrive Time	948
D9	08 Oct 2025	Wind Speed (kts)	1.7
D9	08 Oct 2025	Wind Dir	SW
D9	08 Oct 2025	Animal Life	
D9	08 Oct 2025	Floatables	
D9	08 Oct 2025	Current Direction	S

Station	Date	Parameter	Value
D9	08 Oct 2025	Water Temp (C)	16
D9	08 Oct 2025	High Tide Time	958
D9	08 Oct 2025	Low Tide Time	353
D9	08 Oct 2025	Comments	Water clear; Trash-3; Algae
D9	15 Oct 2025	Arrive Time	1043
D9	15 Oct 2025	Wind Speed (kts)	3.3
D9	15 Oct 2025	Wind Dir	SW
D9	15 Oct 2025	Animal Life	
D9	15 Oct 2025	Floatables	
D9	15 Oct 2025	Current Direction	S
D9	15 Oct 2025	Water Temp (C)	16
D9	15 Oct 2025	High Tide Time	649
D9	15 Oct 2025	Low Tide Time	4
D9	15 Oct 2025	Comments	Water clear; Trash-1; Algae;Kelp
D9	22 Oct 2025	Arrive Time	920
D9	22 Oct 2025	Wind Speed (kts)	0
D9	22 Oct 2025	Wind Dir	XX
D9	22 Oct 2025	Animal Life	
D9	22 Oct 2025	Floatables	
D9	22 Oct 2025	Current Direction	S
D9	22 Oct 2025	Water Temp (C)	16
D9	22 Oct 2025	High Tide Time	930
D9	22 Oct 2025	Low Tide Time	323
D9	22 Oct 2025	Comments	Water clear; Trash-3; Kelp;Algae;Seagrass; Person/Walker/Jogger-2
D9	29 Oct 2025	Arrive Time	1012
D9	29 Oct 2025	Wind Speed (kts)	0.2
D9	29 Oct 2025	Wind Dir	SW
D9	29 Oct 2025	Animal Life	
D9	29 Oct 2025	Floatables	
D9	29 Oct 2025	Current Direction	SW
D9	29 Oct 2025	Water Temp (C)	18.2
D9	29 Oct 2025	High Tide Time	630
D9	29 Oct 2025	Low Tide Time	944
D9	29 Oct 2025	Comments	Water clear; Trash-2; Algae;Seagrass
D10	01 Oct 2025	Arrive Time	808
D10	01 Oct 2025	Wind Speed (kts)	0
D10	01 Oct 2025	Wind Dir	XX
D10	01 Oct 2025	Animal Life	Dog-1;
D10	01 Oct 2025	Floatables	
D10	01 Oct 2025	Current Direction	S
D10	01 Oct 2025	Water Temp (C)	11
D10	01 Oct 2025	High Tide Time	726
D10	01 Oct 2025	Low Tide Time	16
D10	01 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-12; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-3
D10	08 Oct 2025	Arrive Time	932
D10	08 Oct 2025	Wind Speed (kts)	4.2
D10	08 Oct 2025	Wind Dir	W
D10	08 Oct 2025	Animal Life	
D10	08 Oct 2025	Floatables	
D10	08 Oct 2025	Current Direction	S
D10	08 Oct 2025	Water Temp (C)	15
D10	08 Oct 2025	High Tide Time	958
D10	08 Oct 2025	Low Tide Time	353

Station	Date	Parameter	Value
D10	08 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-3; Kelp;Sea-grass;Debris; Person/Walker/Jogger-2
D10	15 Oct 2025	Arrive Time	1031
D10	15 Oct 2025	Wind Speed (kts)	3.3
D10	15 Oct 2025	Wind Dir	SW
D10	15 Oct 2025	Animal Life	
D10	15 Oct 2025	Floatables	
D10	15 Oct 2025	Current Direction	S
D10	15 Oct 2025	Water Temp (C)	16
D10	15 Oct 2025	High Tide Time	649
D10	15 Oct 2025	Low Tide Time	4
D10	15 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Sea-grass;Kelp;Debris; Person/Walker/Jogger-9
D10	22 Oct 2025	Arrive Time	936
D10	22 Oct 2025	Wind Speed (kts)	3
D10	22 Oct 2025	Wind Dir	N
D10	22 Oct 2025	Animal Life	
D10	22 Oct 2025	Floatables	
D10	22 Oct 2025	Current Direction	S
D10	22 Oct 2025	Water Temp (C)	16
D10	22 Oct 2025	High Tide Time	930
D10	22 Oct 2025	Low Tide Time	323
D10	22 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-4; Trash-2; Kelp;Sea-grass; Person/Walker/Jogger-9
D10	29 Oct 2025	Arrive Time	946
D10	29 Oct 2025	Wind Speed (kts)	2.9
D10	29 Oct 2025	Wind Dir	SW
D10	29 Oct 2025	Animal Life	
D10	29 Oct 2025	Floatables	
D10	29 Oct 2025	Current Direction	S
D10	29 Oct 2025	Water Temp (C)	18.2
D10	29 Oct 2025	High Tide Time	630
D10	29 Oct 2025	Low Tide Time	944
D10	29 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-2; Trash-2; Kelp;Sea-grass;Debris
D11	01 Oct 2025	Arrive Time	748
D11	01 Oct 2025	Wind Speed (kts)	0
D11	01 Oct 2025	Wind Dir	XX
D11	01 Oct 2025	Animal Life	Dog-3;
D11	01 Oct 2025	Floatables	
D11	01 Oct 2025	Current Direction	S
D11	01 Oct 2025	Water Temp (C)	12
D11	01 Oct 2025	High Tide Time	726
D11	01 Oct 2025	Low Tide Time	16
D11	01 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-14; Trash-1; Kelp;Sea-grass;Algae; Person/Walker/Jogger-3
D11	08 Oct 2025	Arrive Time	912
D11	08 Oct 2025	Wind Speed (kts)	2.3
D11	08 Oct 2025	Wind Dir	W
D11	08 Oct 2025	Animal Life	Dog-1;
D11	08 Oct 2025	Floatables	
D11	08 Oct 2025	Current Direction	S
D11	08 Oct 2025	Water Temp (C)	16
D11	08 Oct 2025	High Tide Time	958
D11	08 Oct 2025	Low Tide Time	353

Station	Date	Parameter	Value
D11	08 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-16; Trash-4; Kelp;Algae;Seagrass;Debris; Person/Walker/Jogger-5
D11	15 Oct 2025	Arrive Time	1018
D11	15 Oct 2025	Wind Speed (kts)	0.3
D11	15 Oct 2025	Wind Dir	SW
D11	15 Oct 2025	Animal Life	
D11	15 Oct 2025	Floatables	
D11	15 Oct 2025	Current Direction	S
D11	15 Oct 2025	Water Temp (C)	15
D11	15 Oct 2025	High Tide Time	649
D11	15 Oct 2025	Low Tide Time	4
D11	15 Oct 2025	Comments	Water clear; Trash-1; Algae;Kelp;Debris
D11	22 Oct 2025	Arrive Time	951
D11	22 Oct 2025	Wind Speed (kts)	1.4
D11	22 Oct 2025	Wind Dir	W
D11	22 Oct 2025	Animal Life	
D11	22 Oct 2025	Floatables	
D11	22 Oct 2025	Current Direction	S
D11	22 Oct 2025	Water Temp (C)	16
D11	22 Oct 2025	High Tide Time	930
D11	22 Oct 2025	Low Tide Time	323
D11	22 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-9; Trash-2; Kelp;Seagrass;Algae; Person/Walker/Jogger-5
D11	29 Oct 2025	Arrive Time	929
D11	29 Oct 2025	Wind Speed (kts)	0
D11	29 Oct 2025	Wind Dir	XX
D11	29 Oct 2025	Animal Life	
D11	29 Oct 2025	Floatables	
D11	29 Oct 2025	Current Direction	S
D11	29 Oct 2025	Water Temp (C)	18.2
D11	29 Oct 2025	High Tide Time	630
D11	29 Oct 2025	Low Tide Time	944
D11	29 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-8; Trash-3; Algae;Kelp;Seagrass;Debris
D12	01 Oct 2025	Arrive Time	728
D12	01 Oct 2025	Wind Speed (kts)	9
D12	01 Oct 2025	Wind Dir	XX
D12	01 Oct 2025	Animal Life	
D12	01 Oct 2025	Floatables	
D12	01 Oct 2025	Current Direction	S
D12	01 Oct 2025	Water Temp (C)	14
D12	01 Oct 2025	High Tide Time	726
D12	01 Oct 2025	Low Tide Time	16
D12	01 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-4; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-5
D12	08 Oct 2025	Arrive Time	842
D12	08 Oct 2025	Wind Speed (kts)	3.1
D12	08 Oct 2025	Wind Dir	W
D12	08 Oct 2025	Animal Life	
D12	08 Oct 2025	Floatables	
D12	08 Oct 2025	Current Direction	S
D12	08 Oct 2025	Water Temp (C)	16
D12	08 Oct 2025	High Tide Time	958
D12	08 Oct 2025	Low Tide Time	353
D12	08 Oct 2025	Comments	Water clear; Surfer/Paddle boarder-1; Fisherpersion-1; Trash-2; Kelp;Seagrass;Debris

Station	Date	Parameter	Value
D12	15 Oct 2025	Arrive Time	943
D12	15 Oct 2025	Wind Speed (kts)	0.9
D12	15 Oct 2025	Wind Dir	E
D12	15 Oct 2025	Animal Life	
D12	15 Oct 2025	Floatables	
D12	15 Oct 2025	Current Direction	S
D12	15 Oct 2025	Water Temp (C)	16
D12	15 Oct 2025	High Tide Time	649
D12	15 Oct 2025	Low Tide Time	4
D12	15 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
D12	22 Oct 2025	Arrive Time	1019
D12	22 Oct 2025	Wind Speed (kts)	2.4
D12	22 Oct 2025	Wind Dir	W
D12	22 Oct 2025	Animal Life	
D12	22 Oct 2025	Floatables	
D12	22 Oct 2025	Current Direction	S
D12	22 Oct 2025	Water Temp (C)	16
D12	22 Oct 2025	High Tide Time	930
D12	22 Oct 2025	Low Tide Time	323
D12	22 Oct 2025	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-5
D12	29 Oct 2025	Arrive Time	857
D12	29 Oct 2025	Wind Speed (kts)	1.2
D12	29 Oct 2025	Wind Dir	N
D12	29 Oct 2025	Animal Life	Bird-5;
D12	29 Oct 2025	Floatables	
D12	29 Oct 2025	Current Direction	S
D12	29 Oct 2025	Water Temp (C)	16.4
D12	29 Oct 2025	High Tide Time	630
D12	29 Oct 2025	Low Tide Time	944
D12	29 Oct 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris

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 Oct 2025	3	2	2	2	2	2	3	2
02 Oct 2025	*3	*3	*2	*2	*2	*2	*3	*2
03 Oct 2025	*3	*3	*2	*2	*2	*2	*3	*2
04 Oct 2025	*3	*3	*2	*2	*2	*2	*3	*2
05 Oct 2025	*3	*3	*2	*2	*2	*2	*3	*2
06 Oct 2025	*3	*3	*2	*2	*2	*2	*3	*2
07 Oct 2025	3	3	4	2	2	2	3	2
08 Oct 2025	*3	*3	*5	*2	*2	*2	*2	*2
09 Oct 2025	*3	*3	*5	*2	*2	*2	*2	*2
10 Oct 2025	*3	*3	*5	*2	*2	*2	*2	*2
11 Oct 2025	*3	*3	*5	*2	*2	*2	*2	*2
12 Oct 2025	*3	*3	*5	*2	*2	*2	*2	*2
13 Oct 2025	*3	*3	*5	*2	*2	*2	*2	*2
14 Oct 2025	*3	*3	*5	*2	*2	*2	*2	*2
15 Oct 2025	3	4	4	2	2	2	2	2
16 Oct 2025	*3	*4	*5	*2	*2	*2	*2	*2
17 Oct 2025	*3	*4	*5	*2	*2	*2	*2	*2
18 Oct 2025	*3	*4	*5	*2	*2	*2	*2	*2
19 Oct 2025	*3	*4	*5	*2	*2	*2	*2	*2
20 Oct 2025	*3	*4	*5	*2	*2	*2	*2	*2
21 Oct 2025	3	4	5	2	2	2	2	2
22 Oct 2025	3	4	5	2	2	2	2	2
23 Oct 2025	*2	*4	*6	*2	*2	*2	*2	*2
24 Oct 2025	*2	*4	*6	*2	*2	*2	*2	*2
25 Oct 2025	*2	*4	*6	*2	*2	*2	*2	*2
26 Oct 2025	*2	*4	*6	*2	*2	*2	*2	*2
27 Oct 2025	2	4	5	2	2	2	2	2
28 Oct 2025	2	4	5	2	2	2	2	2
29 Oct 2025	*2	*4	*6	*2	*2	*2	*2	*2
30 Oct 2025	*2	*4	*6	*2	*2	*2	*2	*2
31 Oct 2025	*2	*4	*6	*2	*2	*2	*2	*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
07 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
21 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
27 Oct 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 Oct 2025	2	2	2	2	2	2	2	2
02 Oct 2025	*2	*2	*2	*2	*2	*2	*2	*2
03 Oct 2025	*2	*2	*2	*2	*2	*2	*2	*2
04 Oct 2025	*2	*2	*2	*2	*2	*2	*2	*2
05 Oct 2025	*2	*2	*2	*2	*2	*2	*2	*2
06 Oct 2025	*2	*2	*2	*2	*2	*2	*2	*2
07 Oct 2025	2	2	3	2	2	2	2	2
08 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
09 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
10 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
11 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
12 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
13 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
14 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
15 Oct 2025	2	2	2	2	2	2	2	2
16 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
17 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
18 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
19 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
20 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
21 Oct 2025	2	2	2	2	2	2	2	2
22 Oct 2025	2	2	2	2	2	2	2	2
23 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
24 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
25 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
26 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
27 Oct 2025	2	2	2	2	2	2	2	2
28 Oct 2025	2	2	2	2	2	2	2	2
29 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
30 Oct 2025	*2	*2	*3	*2	*2	*2	*2	*2
31 Oct 2025	*2	*2	*3	*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
07 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
21 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
27 Oct 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 Oct 2025	7	3	4	4	3	2	7	3
02 Oct 2025	*10	*4	*4	*5	*4	*2	*7	*3
03 Oct 2025	*10	*4	*4	*5	*4	*2	*7	*3
04 Oct 2025	*10	*4	*4	*5	*4	*2	*7	*3
05 Oct 2025	*10	*4	*4	*5	*4	*2	*7	*3
06 Oct 2025	*10	*4	*4	*5	*4	*2	*7	*3
07 Oct 2025	11	5	9	6	3	2	7	4
08 Oct 2025	*9	*3	*7	*5	*4	*3	*6	*4
09 Oct 2025	*9	*3	*7	*5	*4	*3	*6	*4
10 Oct 2025	*9	*3	*7	*5	*4	*3	*6	*4
11 Oct 2025	*9	*3	*7	*5	*4	*3	*6	*4
12 Oct 2025	*9	*3	*7	*5	*4	*3	*6	*4
13 Oct 2025	*9	*3	*7	*5	*4	*3	*6	*4
14 Oct 2025	*9	*3	*7	*5	*4	*3	*6	*4
15 Oct 2025	8	5	11	4	5	2	5	6
16 Oct 2025	*12	*6	*16	*5	*7	*3	*7	*8
17 Oct 2025	*12	*6	*16	*5	*7	*3	*7	*8
18 Oct 2025	*12	*6	*16	*5	*7	*3	*7	*8
19 Oct 2025	*12	*6	*16	*5	*7	*3	*7	*8
20 Oct 2025	*12	*6	*16	*5	*7	*3	*7	*8
21 Oct 2025	9	7	14	4	6	2	5	6
22 Oct 2025	9	7	14	4	6	2	5	6
23 Oct 2025	*7	*9	*22	*5	*8	*3	*4	*7
24 Oct 2025	*7	*9	*22	*5	*8	*3	*4	*7
25 Oct 2025	*7	*9	*22	*5	*8	*3	*4	*7
26 Oct 2025	*7	*9	*22	*5	*8	*3	*4	*7
27 Oct 2025	7	9	18	6	9	3	7	6
28 Oct 2025	7	9	18	6	9	3	7	6
29 Oct 2025	*6	*12	*31	*4	*7	*4	*7	*9
30 Oct 2025	*6	*12	*31	*4	*7	*4	*7	*9
31 Oct 2025	*6	*12	*31	*4	*7	*4	*7	*9

- 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
07 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
21 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
27 Oct 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
07 Oct 2025	IC	IC	E	IC	IC	IC	IC	IC
15 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
21 Oct 2025	IC	IC	IC	IC	IC	IC	IC	IC
27 Oct 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	07 Oct 2025	800	1	<2	<2	<2
A1	07 Oct 2025	800	12	<20	<2	<2
A1	07 Oct 2025	800	18	34e	6e	2e
A1	15 Oct 2025	801	1	<2	<2	<2
A1	15 Oct 2025	801	12	6e	2e	<2
A1	15 Oct 2025	801	18	14e	<2	2e
A1	21 Oct 2025	754	1	<2	<2	<2
A1	21 Oct 2025	754	12	<2	<2	<2
A1	21 Oct 2025	754	18	4e	<2	<2
A1	27 Oct 2025	753	1	<2	<2	<2
A1	27 Oct 2025	753	12	<2	<2	<2
A1	27 Oct 2025	753	18	10e	2e	<2
A6	07 Oct 2025	826	1	<2	<2	<2
A6	07 Oct 2025	826	12	14e	6e	<2
A6	07 Oct 2025	826	18	40e	20e	<2
A6	15 Oct 2025	829	1	<2	<2	2e
A6	15 Oct 2025	829	12	16e	12e	<2
A6	15 Oct 2025	829	18	34e	10e	<2
A6	21 Oct 2025	820	1	<2	<2	<2
A6	21 Oct 2025	820	12	6e	<2	<2
A6	21 Oct 2025	820	18	22e	<2	2e
A6	27 Oct 2025	820	1	<2	<2	<2
A6	27 Oct 2025	820	12	4e	<2	<2
A6	27 Oct 2025	820	18	16e	<2	<2
A7	07 Oct 2025	813	1	<2	<2	<2
A7	07 Oct 2025	813	12	40e	6e	<2
A7	07 Oct 2025	813	18	1100	160e	14e
A7	15 Oct 2025	814	1	<2	<2	<2
A7	15 Oct 2025	814	12	2e	<2	<2
A7	15 Oct 2025	814	18	140e	6e	<2
A7	21 Oct 2025	810	1	<2	<2	<2
A7	21 Oct 2025	810	12	<2	<2	<2
A7	21 Oct 2025	810	18	16e	4e	<2
A7	27 Oct 2025	807	1	4e	<2	<2
A7	27 Oct 2025	807	12	6e	<2	2e
A7	27 Oct 2025	807	18	14e	4e	<2
C4	07 Oct 2025	934	1	<20	<2	<2
C4	07 Oct 2025	934	3	<2	2e	<2
C4	07 Oct 2025	934	9	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Enteroc
C4	15 Oct 2025	943	1	<2	<2	<2
C4	15 Oct 2025	943	3	<2	<2	<2
C4	15 Oct 2025	943	9	<2	<2	4e
C4	21 Oct 2025	926	1	<2	<2	<2
C4	21 Oct 2025	926	3	<2	<2	<2
C4	21 Oct 2025	926	9	2e	<2	<2
C4	27 Oct 2025	1029	1	<20	<2	<2
C4	27 Oct 2025	1029	3	<2	<2	<2
C4	27 Oct 2025	1029	9	<2	<2	<2
C5	07 Oct 2025	921	1	2e	<2	<2
C5	07 Oct 2025	921	3	<2	<2	<2
C5	07 Oct 2025	921	9	<2	<2	<2
C5	15 Oct 2025	933	1	<20	6e	4e
C5	15 Oct 2025	933	3	<20	2e	2e
C5	15 Oct 2025	933	9	<20	<2	<2
C5	21 Oct 2025	916	1	<2	<2	<2
C5	21 Oct 2025	916	3	6e	<2	<2
C5	21 Oct 2025	916	9	<2	<2	<2
C5	27 Oct 2025	1019	1	<20	<2	<2
C5	27 Oct 2025	1019	3	<20	<2	<2
C5	27 Oct 2025	1019	9	4e	<2	<2
C6	07 Oct 2025	910	1	<2	<2	<2
C6	07 Oct 2025	910	3	<2	<2	<2
C6	07 Oct 2025	910	9	14e	<2	<2
C6	15 Oct 2025	922	1	2e	<2	<2
C6	15 Oct 2025	922	3	2e	<2	<2
C6	15 Oct 2025	922	9	<2	<2	<2
C6	21 Oct 2025	906	1	<2	<2	<2
C6	21 Oct 2025	906	3	<2	<2	<2
C6	21 Oct 2025	906	9	<2	<2	<2
C6	27 Oct 2025	1006	1	<2	<2	<2
C6	27 Oct 2025	1006	3	<2	<2	<2
C6	27 Oct 2025	1006	9	<20	<2	<2
C7	07 Oct 2025	838	1	<2	<2	<2
C7	07 Oct 2025	838	12	4e	<2	<2
C7	07 Oct 2025	838	18	8e	2e	<2
C7	15 Oct 2025	845	1	8e	2e	4e
C7	15 Oct 2025	845	12	2e	2e	<2
C7	15 Oct 2025	845	18	<2	<2	<2
C7	21 Oct 2025	834	1	<2	<2	<2
C7	21 Oct 2025	834	12	<2	<2	<2
C7	21 Oct 2025	834	18	2e	<2	<2
C7	27 Oct 2025	935	1	<2	<2	<2
C7	27 Oct 2025	935	12	2e	<2	<2
C7	27 Oct 2025	935	18	140e	4e	2e

Station	Date	Time	Depth	Total	Fecal	Entero
C8	07 Oct 2025	849	1	<20	<2	<2
C8	07 Oct 2025	849	12	<20	<2	<2
C8	07 Oct 2025	849	18	2e	<2	<2
C8	15 Oct 2025	857	1	80e	2e	10e
C8	15 Oct 2025	857	12	4e	2e	<2
C8	15 Oct 2025	857	18	16e	<2	<2
C8	21 Oct 2025	845	1	<2	<2	<2
C8	21 Oct 2025	845	12	<2	<2	<2
C8	21 Oct 2025	845	18	<2	<2	<2
C8	27 Oct 2025	948	1	<2	<2	<2
C8	27 Oct 2025	948	12	2e	<2	<2
C8	27 Oct 2025	948	18	14e	10e	<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	07 Oct 2025	Arrive Time	800
A1	07 Oct 2025	Depart Time	805
A1	07 Oct 2025	Air Temp (C)	17.9
A1	07 Oct 2025	Visibility (mi)	10
A1	07 Oct 2025	Wind Speed (kts)	2.3
A1	07 Oct 2025	Wind Dir	SE
A1	07 Oct 2025	Sea State	Wind Ripples
A1	07 Oct 2025	High Tide Time	936
A1	07 Oct 2025	Low Tide Time	1600
A1	07 Oct 2025	Comments	Kelp Debris; Lobster Floats
A1	15 Oct 2025	Arrive Time	801
A1	15 Oct 2025	Depart Time	811
A1	15 Oct 2025	Air Temp (C)	18.3
A1	15 Oct 2025	Visibility (mi)	10
A1	15 Oct 2025	Wind Speed (kts)	2.1
A1	15 Oct 2025	Wind Dir	SE
A1	15 Oct 2025	Sea State	Regular Swell
A1	15 Oct 2025	High Tide Time	1754
A1	15 Oct 2025	Low Tide Time	6
A1	15 Oct 2025	Comments	surface kelp and lobster pots
A1	21 Oct 2025	Arrive Time	754
A1	21 Oct 2025	Depart Time	801
A1	21 Oct 2025	Air Temp (C)	16.8
A1	21 Oct 2025	Visibility (mi)	5
A1	21 Oct 2025	Wind Speed (kts)	2
A1	21 Oct 2025	Wind Dir	NE
A1	21 Oct 2025	Sea State	Light Chop
A1	21 Oct 2025	High Tide Time	912
A1	21 Oct 2025	Low Tide Time	1554
A1	21 Oct 2025	Comments	
A1	27 Oct 2025	Arrive Time	753
A1	27 Oct 2025	Depart Time	759
A1	27 Oct 2025	Air Temp (C)	17.4
A1	27 Oct 2025	Visibility (mi)	9
A1	27 Oct 2025	Wind Speed (kts)	1.3
A1	27 Oct 2025	Wind Dir	E
A1	27 Oct 2025	Sea State	Calm
A1	27 Oct 2025	High Tide Time	1200
A1	27 Oct 2025	Low Tide Time	2048
A1	27 Oct 2025	Comments	CTD recovered with blanket of kelp
C4	07 Oct 2025	Arrive Time	934
C4	07 Oct 2025	Depart Time	937
C4	07 Oct 2025	Air Temp (C)	19.1
C4	07 Oct 2025	Visibility (mi)	10
C4	07 Oct 2025	Wind Speed (kts)	1
C4	07 Oct 2025	Wind Dir	SE
C4	07 Oct 2025	Sea State	Wind Ripples
C4	07 Oct 2025	High Tide Time	936
C4	07 Oct 2025	Low Tide Time	1600
C4	07 Oct 2025	Comments	Kelp Debris; Seagrass; Lobster Floats
C4	15 Oct 2025	Arrive Time	943

Station	Date	Parameter	Value
C4	15 Oct 2025	Depart Time	953
C4	15 Oct 2025	Air Temp (C)	18
C4	15 Oct 2025	Visibility (mi)	10
C4	15 Oct 2025	Wind Speed (kts)	5.8
C4	15 Oct 2025	Wind Dir	S
C4	15 Oct 2025	Sea State	Regular Swell
C4	15 Oct 2025	High Tide Time	1754
C4	15 Oct 2025	Low Tide Time	6
C4	15 Oct 2025	Comments	surface kelp lobster pots
C4	21 Oct 2025	Arrive Time	926
C4	21 Oct 2025	Depart Time	929
C4	21 Oct 2025	Air Temp (C)	18.8
C4	21 Oct 2025	Visibility (mi)	7
C4	21 Oct 2025	Wind Speed (kts)	2.9
C4	21 Oct 2025	Wind Dir	N
C4	21 Oct 2025	Sea State	Light Chop
C4	21 Oct 2025	High Tide Time	912
C4	21 Oct 2025	Low Tide Time	1554
C4	21 Oct 2025	Comments	
C4	27 Oct 2025	Arrive Time	1029
C4	27 Oct 2025	Depart Time	1034
C4	27 Oct 2025	Air Temp (C)	18.9
C4	27 Oct 2025	Visibility (mi)	9
C4	27 Oct 2025	Wind Speed (kts)	2.9
C4	27 Oct 2025	Wind Dir	S
C4	27 Oct 2025	Sea State	Wind Ripples
C4	27 Oct 2025	High Tide Time	1200
C4	27 Oct 2025	Low Tide Time	2048
C4	27 Oct 2025	Comments	lots of lobster pots
A7	07 Oct 2025	Arrive Time	813
A7	07 Oct 2025	Depart Time	817
A7	07 Oct 2025	Air Temp (C)	18.2
A7	07 Oct 2025	Visibility (mi)	10
A7	07 Oct 2025	Wind Speed (kts)	1.4
A7	07 Oct 2025	Wind Dir	S
A7	07 Oct 2025	Sea State	Wind Ripples
A7	07 Oct 2025	High Tide Time	936
A7	07 Oct 2025	Low Tide Time	1600
A7	07 Oct 2025	Comments	Lobster Floats
A7	15 Oct 2025	Arrive Time	814
A7	15 Oct 2025	Depart Time	821
A7	15 Oct 2025	Air Temp (C)	16.2
A7	15 Oct 2025	Visibility (mi)	10
A7	15 Oct 2025	Wind Speed (kts)	1.7
A7	15 Oct 2025	Wind Dir	E
A7	15 Oct 2025	Sea State	Regular Swell
A7	15 Oct 2025	High Tide Time	1754
A7	15 Oct 2025	Low Tide Time	6
A7	15 Oct 2025	Comments	floating kelp lobster pots
A7	21 Oct 2025	Arrive Time	810
A7	21 Oct 2025	Depart Time	812
A7	21 Oct 2025	Air Temp (C)	16.6
A7	21 Oct 2025	Visibility (mi)	5
A7	21 Oct 2025	Wind Speed (kts)	4.7
A7	21 Oct 2025	Wind Dir	E
A7	21 Oct 2025	Sea State	Light Chop

Station	Date	Parameter	Value
A7	21 Oct 2025	High Tide Time	912
A7	21 Oct 2025	Low Tide Time	1554
A7	21 Oct 2025	Comments	
A7	27 Oct 2025	Arrive Time	807
A7	27 Oct 2025	Depart Time	814
A7	27 Oct 2025	Air Temp (C)	17.6
A7	27 Oct 2025	Visibility (mi)	9
A7	27 Oct 2025	Wind Speed (kts)	1.9
A7	27 Oct 2025	Wind Dir	N
A7	27 Oct 2025	Sea State	Calm
A7	27 Oct 2025	High Tide Time	1200
A7	27 Oct 2025	Low Tide Time	2048
A7	27 Oct 2025	Comments	Kelp debris
C5	07 Oct 2025	Arrive Time	921
C5	07 Oct 2025	Depart Time	927
C5	07 Oct 2025	Air Temp (C)	19.7
C5	07 Oct 2025	Visibility (mi)	10
C5	07 Oct 2025	Wind Speed (kts)	2.1
C5	07 Oct 2025	Wind Dir	N
C5	07 Oct 2025	Sea State	Wind Ripples
C5	07 Oct 2025	High Tide Time	936
C5	07 Oct 2025	Low Tide Time	1600
C5	07 Oct 2025	Comments	Kelp Debris; Lobster Floats
C5	15 Oct 2025	Arrive Time	933
C5	15 Oct 2025	Depart Time	937
C5	15 Oct 2025	Air Temp (C)	17.7
C5	15 Oct 2025	Visibility (mi)	10
C5	15 Oct 2025	Wind Speed (kts)	2.5
C5	15 Oct 2025	Wind Dir	SE
C5	15 Oct 2025	Sea State	Regular Swell
C5	15 Oct 2025	High Tide Time	1754
C5	15 Oct 2025	Low Tide Time	6
C5	15 Oct 2025	Comments	Surface kelp and lobster pots.
C5	21 Oct 2025	Arrive Time	916
C5	21 Oct 2025	Depart Time	920
C5	21 Oct 2025	Air Temp (C)	19.6
C5	21 Oct 2025	Visibility (mi)	7
C5	21 Oct 2025	Wind Speed (kts)	3.3
C5	21 Oct 2025	Wind Dir	N
C5	21 Oct 2025	Sea State	Light Chop
C5	21 Oct 2025	High Tide Time	912
C5	21 Oct 2025	Low Tide Time	1554
C5	21 Oct 2025	Comments	
C5	27 Oct 2025	Arrive Time	1019
C5	27 Oct 2025	Depart Time	1024
C5	27 Oct 2025	Air Temp (C)	19.6
C5	27 Oct 2025	Visibility (mi)	9
C5	27 Oct 2025	Wind Speed (kts)	2.2
C5	27 Oct 2025	Wind Dir	S
C5	27 Oct 2025	Sea State	Wind Ripples
C5	27 Oct 2025	High Tide Time	1200
C5	27 Oct 2025	Low Tide Time	2048
C5	27 Oct 2025	Comments	lots of lobster pots
A6	07 Oct 2025	Arrive Time	826
A6	07 Oct 2025	Depart Time	828

Station	Date	Parameter	Value
A6	07 Oct 2025	Air Temp (C)	19.1
A6	07 Oct 2025	Visibility (mi)	10
A6	07 Oct 2025	Wind Speed (kts)	1.2
A6	07 Oct 2025	Wind Dir	N
A6	07 Oct 2025	Sea State	Wind Ripples
A6	07 Oct 2025	High Tide Time	936
A6	07 Oct 2025	Low Tide Time	1600
A6	07 Oct 2025	Comments	Lobster Floats
A6	15 Oct 2025	Arrive Time	829
A6	15 Oct 2025	Depart Time	837
A6	15 Oct 2025	Air Temp (C)	16
A6	15 Oct 2025	Visibility (mi)	10
A6	15 Oct 2025	Wind Speed (kts)	4.5
A6	15 Oct 2025	Wind Dir	SE
A6	15 Oct 2025	Sea State	Regular Swell
A6	15 Oct 2025	High Tide Time	1754
A6	15 Oct 2025	Low Tide Time	6
A6	15 Oct 2025	Comments	lobster pots
A6	21 Oct 2025	Arrive Time	820
A6	21 Oct 2025	Depart Time	824
A6	21 Oct 2025	Air Temp (C)	16.6
A6	21 Oct 2025	Visibility (mi)	5
A6	21 Oct 2025	Wind Speed (kts)	4.5
A6	21 Oct 2025	Wind Dir	N
A6	21 Oct 2025	Sea State	Light Chop
A6	21 Oct 2025	High Tide Time	912
A6	21 Oct 2025	Low Tide Time	1554
A6	21 Oct 2025	Comments	
A6	27 Oct 2025	Arrive Time	820
A6	27 Oct 2025	Depart Time	824
A6	27 Oct 2025	Air Temp (C)	17.8
A6	27 Oct 2025	Visibility (mi)	9
A6	27 Oct 2025	Wind Speed (kts)	2.5
A6	27 Oct 2025	Wind Dir	E
A6	27 Oct 2025	Sea State	Calm
A6	27 Oct 2025	High Tide Time	1200
A6	27 Oct 2025	Low Tide Time	2048
A6	27 Oct 2025	Comments	Kelp debris and lots of northern fulmar begging by ship swimming over CTD
C6	07 Oct 2025	Arrive Time	910
C6	07 Oct 2025	Depart Time	915
C6	07 Oct 2025	Air Temp (C)	19.4
C6	07 Oct 2025	Visibility (mi)	10
C6	07 Oct 2025	Wind Speed (kts)	2.7
C6	07 Oct 2025	Wind Dir	S
C6	07 Oct 2025	Sea State	Wind Ripples
C6	07 Oct 2025	High Tide Time	936
C6	07 Oct 2025	Low Tide Time	1600
C6	07 Oct 2025	Comments	Kelp Debris; Seagrass; Lobster Floats
C6	15 Oct 2025	Arrive Time	922
C6	15 Oct 2025	Depart Time	932
C6	15 Oct 2025	Air Temp (C)	17.1
C6	15 Oct 2025	Visibility (mi)	10
C6	15 Oct 2025	Wind Speed (kts)	4.3
C6	15 Oct 2025	Wind Dir	E
C6	15 Oct 2025	Sea State	Regular Swell

Station	Date	Parameter	Value
C6	15 Oct 2025	High Tide Time	1754
C6	15 Oct 2025	Low Tide Time	6
C6	15 Oct 2025	Comments	Surface kelp and lobster pots. Nearby lobster boats
C6	21 Oct 2025	Arrive Time	906
C6	21 Oct 2025	Depart Time	909
C6	21 Oct 2025	Air Temp (C)	17.3
C6	21 Oct 2025	Visibility (mi)	7
C6	21 Oct 2025	Wind Speed (kts)	1.5
C6	21 Oct 2025	Wind Dir	E
C6	21 Oct 2025	Sea State	Light Chop
C6	21 Oct 2025	High Tide Time	912
C6	21 Oct 2025	Low Tide Time	1554
C6	21 Oct 2025	Comments	
C6	27 Oct 2025	Arrive Time	1006
C6	27 Oct 2025	Depart Time	1011
C6	27 Oct 2025	Air Temp (C)	19.2
C6	27 Oct 2025	Visibility (mi)	9
C6	27 Oct 2025	Wind Speed (kts)	0.9
C6	27 Oct 2025	Wind Dir	SW
C6	27 Oct 2025	Sea State	Wind Ripples
C6	27 Oct 2025	High Tide Time	1200
C6	27 Oct 2025	Low Tide Time	2048
C6	27 Oct 2025	Comments	
C7	07 Oct 2025	Arrive Time	838
C7	07 Oct 2025	Depart Time	843
C7	07 Oct 2025	Air Temp (C)	18.9
C7	07 Oct 2025	Visibility (mi)	10
C7	07 Oct 2025	Wind Speed (kts)	5.5
C7	07 Oct 2025	Wind Dir	N
C7	07 Oct 2025	Sea State	Wind Ripples
C7	07 Oct 2025	High Tide Time	936
C7	07 Oct 2025	Low Tide Time	1600
C7	07 Oct 2025	Comments	Lobster Floats
C7	15 Oct 2025	Arrive Time	845
C7	15 Oct 2025	Depart Time	850
C7	15 Oct 2025	Air Temp (C)	17.1
C7	15 Oct 2025	Visibility (mi)	10
C7	15 Oct 2025	Wind Speed (kts)	4.6
C7	15 Oct 2025	Wind Dir	SE
C7	15 Oct 2025	Sea State	Regular Swell
C7	15 Oct 2025	High Tide Time	1754
C7	15 Oct 2025	Low Tide Time	6
C7	15 Oct 2025	Comments	lobster pots
C7	21 Oct 2025	Arrive Time	834
C7	21 Oct 2025	Depart Time	838
C7	21 Oct 2025	Air Temp (C)	16.5
C7	21 Oct 2025	Visibility (mi)	5
C7	21 Oct 2025	Wind Speed (kts)	4.2
C7	21 Oct 2025	Wind Dir	NE
C7	21 Oct 2025	Sea State	Light Chop
C7	21 Oct 2025	High Tide Time	912
C7	21 Oct 2025	Low Tide Time	1554
C7	21 Oct 2025	Comments	
C7	27 Oct 2025	Arrive Time	935
C7	27 Oct 2025	Depart Time	941

Station	Date	Parameter	Value
C7	27 Oct 2025	Air Temp (C)	18.5
C7	27 Oct 2025	Visibility (mi)	9
C7	27 Oct 2025	Wind Speed (kts)	2.6
C7	27 Oct 2025	Wind Dir	SE
C7	27 Oct 2025	Sea State	Wind Ripples
C7	27 Oct 2025	High Tide Time	1200
C7	27 Oct 2025	Low Tide Time	2048
C7	27 Oct 2025	Comments	lobster buoy close to CTD
C8	07 Oct 2025	Arrive Time	849
C8	07 Oct 2025	Depart Time	854
C8	07 Oct 2025	Air Temp (C)	19.1
C8	07 Oct 2025	Visibility (mi)	10
C8	07 Oct 2025	Wind Speed (kts)	3.1
C8	07 Oct 2025	Wind Dir	N
C8	07 Oct 2025	Sea State	Wind Ripples
C8	07 Oct 2025	High Tide Time	936
C8	07 Oct 2025	Low Tide Time	1600
C8	07 Oct 2025	Comments	Lobster Floats
C8	15 Oct 2025	Arrive Time	857
C8	15 Oct 2025	Depart Time	907
C8	15 Oct 2025	Air Temp (C)	16.9
C8	15 Oct 2025	Visibility (mi)	10
C8	15 Oct 2025	Wind Speed (kts)	2.3
C8	15 Oct 2025	Wind Dir	E
C8	15 Oct 2025	Sea State	Regular Swell
C8	15 Oct 2025	High Tide Time	1754
C8	15 Oct 2025	Low Tide Time	6
C8	15 Oct 2025	Comments	Transmissivity suspect at shallow depths. Recast with no bottles fired. Use 1st cast no difference
C8	21 Oct 2025	Arrive Time	845
C8	21 Oct 2025	Depart Time	849
C8	21 Oct 2025	Air Temp (C)	16.3
C8	21 Oct 2025	Visibility (mi)	7
C8	21 Oct 2025	Wind Speed (kts)	4.7
C8	21 Oct 2025	Wind Dir	N
C8	21 Oct 2025	Sea State	Light Chop
C8	21 Oct 2025	High Tide Time	912
C8	21 Oct 2025	Low Tide Time	1554
C8	21 Oct 2025	Comments	
C8	27 Oct 2025	Arrive Time	948
C8	27 Oct 2025	Depart Time	956
C8	27 Oct 2025	Air Temp (C)	18.9
C8	27 Oct 2025	Visibility (mi)	9
C8	27 Oct 2025	Wind Speed (kts)	1.4
C8	27 Oct 2025	Wind Dir	NE
C8	27 Oct 2025	Sea State	Wind Ripples
C8	27 Oct 2025	High Tide Time	1200
C8	27 Oct 2025	Low Tide Time	2048
C8	27 Oct 2025	Comments	

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	07 Oct 2025	1	16.19	94.14	8.0	33.30	8.0	24.4	1.22
A1	07 Oct 2025	2	16.10	93.80	7.8	33.30	8.0	24.4	1.26
A1	07 Oct 2025	3	15.09	93.94	7.6	33.30	8.0	24.6	1.31
A1	07 Oct 2025	4	14.03	94.30	7.5	33.28	7.9	24.9	1.08
A1	07 Oct 2025	5	13.87	94.91	7.4	33.27	7.9	24.9	0.96
A1	07 Oct 2025	6	13.85	96.05	7.4	33.27	7.9	24.9	0.96
A1	07 Oct 2025	7	13.83	96.36	7.3	33.27	7.9	24.9	0.95
A1	07 Oct 2025	8	13.73	96.45	7.3	33.27	7.9	24.9	0.93
A1	07 Oct 2025	9	13.63	96.30	7.2	33.28	7.9	24.9	0.92
A1	07 Oct 2025	10	13.61	96.41	7.2	33.28	7.9	24.9	0.92
A1	07 Oct 2025	11	13.55	96.57	7.1	33.29	7.9	25.0	0.97
A1	07 Oct 2025	12	13.51	96.51	7.1	33.29	7.9	25.0	1.74
A1	07 Oct 2025	13	13.47	96.41	7.0	33.29	7.9	25.0	1.19
A1	07 Oct 2025	14	13.42	96.19	7.0	33.30	7.9	25.0	0.90
A1	07 Oct 2025	15	13.33	95.77	7.0	33.30	7.9	25.0	0.88
A1	07 Oct 2025	16	13.28	96.23	6.9	33.31	7.9	25.0	0.87
A1	07 Oct 2025	17	13.21	96.68	6.9	33.31	7.9	25.0	0.87
A1	07 Oct 2025	18	13.15	96.70	6.8	33.32	7.9	25.1	0.77
A1	07 Oct 2025	19	12.97	96.20	6.6	33.35	7.8	25.1	0.69
A1	07 Oct 2025	20	12.92	95.42	6.5	33.35	7.8	25.1	0.61
A1	15 Oct 2025	1	16.53	89.52	8.1	33.25	8.0	24.3	1.52
A1	15 Oct 2025	2	16.53	89.35	8.1	33.25	8.0	24.3	1.53
A1	15 Oct 2025	3	16.52	88.52	8.1	33.25	8.0	24.3	1.64
A1	15 Oct 2025	4	16.51	88.86	8.1	33.25	8.0	24.3	1.70
A1	15 Oct 2025	5	16.51	89.01	8.1	33.25	8.0	24.3	1.72
A1	15 Oct 2025	6	16.51	89.04	8.1	33.25	8.0	24.3	1.69
A1	15 Oct 2025	7	16.50	89.11	8.1	33.25	8.0	24.3	1.65
A1	15 Oct 2025	8	16.50	89.06	8.1	33.25	8.0	24.3	1.60
A1	15 Oct 2025	9	16.50	89.11	8.1	33.25	8.0	24.3	1.72
A1	15 Oct 2025	10	16.49	88.86	8.1	33.25	8.0	24.3	1.66
A1	15 Oct 2025	11	16.49	88.83	8.1	33.25	8.0	24.3	1.66
A1	15 Oct 2025	12	16.47	89.00	8.1	33.25	8.0	24.3	1.76
A1	15 Oct 2025	13	16.44	88.81	8.1	33.24	8.0	24.3	3.59
A1	15 Oct 2025	14	16.45	88.24	8.1	33.24	8.0	24.3	4.16
A1	15 Oct 2025	15	16.44	88.45	8.1	33.24	8.0	24.3	1.68
A1	15 Oct 2025	16	16.44	88.60	8.1	33.24	8.0	24.3	1.68
A1	15 Oct 2025	17	16.42	87.26	8.0	33.25	8.0	24.3	1.65
A1	15 Oct 2025	18	15.95	85.09	7.8	33.26	8.0	24.4	4.37
A1	21 Oct 2025	1	17.62	95.15	8.2	33.32	8.0	24.1	0.81
A1	21 Oct 2025	2	17.59	94.95	8.2	33.32	8.0	24.1	0.84
A1	21 Oct 2025	3	17.55	94.43	8.2	33.32	8.0	24.1	0.90
A1	21 Oct 2025	4	17.53	94.51	8.2	33.32	8.0	24.1	0.96
A1	21 Oct 2025	5	17.49	94.14	8.2	33.31	8.0	24.1	0.99
A1	21 Oct 2025	6	17.40	93.99	8.2	33.31	8.0	24.1	1.05
A1	21 Oct 2025	7	17.34	93.23	8.2	33.31	8.0	24.1	1.14
A1	21 Oct 2025	8	17.34	92.38	8.1	33.31	8.0	24.1	1.18
A1	21 Oct 2025	9	17.32	92.13	8.1	33.30	8.0	24.1	1.22
A1	21 Oct 2025	10	17.26	92.12	8.1	33.30	8.0	24.2	1.21
A1	21 Oct 2025	11	17.21	91.89	8.1	33.30	8.0	24.2	1.26
A1	21 Oct 2025	12	17.19	91.75	8.1	33.30	8.0	24.2	1.23
A1	21 Oct 2025	13	17.16	91.65	8.0	33.30	8.0	24.2	1.30
A1	21 Oct 2025	14	17.04	91.60	7.9	33.29	8.0	24.2	1.31
A1	21 Oct 2025	15	16.72	91.56	7.8	33.30	8.0	24.3	1.20
A1	21 Oct 2025	16	16.50	92.06	7.5	33.29	8.0	24.3	1.11
A1	21 Oct 2025	17	15.71	92.40	7.2	33.30	8.0	24.5	0.97
A1	21 Oct 2025	18	15.50	91.37	7.0	33.31	7.9	24.6	0.71
A1	21 Oct 2025	19	15.21	89.80	6.8	33.31	7.9	24.6	0.63
A1	27 Oct 2025	1	17.30	85.46	7.7	33.34	8.0	24.2	2.37
A1	27 Oct 2025	2	17.26	84.94	7.7	33.34	8.0	24.2	2.36
A1	27 Oct 2025	3	17.13	85.21	7.6	33.33	8.0	24.2	1.91
A1	27 Oct 2025	4	16.91	86.44	7.5	33.32	8.0	24.2	1.75
A1	27 Oct 2025	5	16.38	87.36	7.5	33.33	7.9	24.4	1.68
A1	27 Oct 2025	6	16.26	88.52	7.3	33.32	7.9	24.4	1.63
A1	27 Oct 2025	7	15.69	89.67	7.2	33.33	7.9	24.5	1.46
A1	27 Oct 2025	8	15.44	90.68	7.1	33.32	7.9	24.6	1.46

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A1	27 Oct 2025	9	15.15	91.35	7.0	33.33	7.9	24.7	1.37
A1	27 Oct 2025	10	15.12	91.74	6.8	33.33	7.9	24.7	1.47
A1	27 Oct 2025	11	15.00	91.69	6.8	33.37	7.9	24.7	1.61
A1	27 Oct 2025	12	14.99	90.40	6.9	33.34	7.9	24.7	NA
A1	27 Oct 2025	13	14.79	90.65	6.7	33.34	7.9	24.7	NA
A1	27 Oct 2025	14	14.44	89.52	6.4	33.35	7.9	24.8	NA
A1	27 Oct 2025	15	14.20	89.55	6.3	33.35	7.8	24.9	1.15
A1	27 Oct 2025	16	14.17	89.08	6.3	33.35	7.8	24.9	NA
A1	27 Oct 2025	17	14.23	88.40	6.3	33.35	7.9	24.9	0.81
A1	27 Oct 2025	18	14.04	88.05	6.2	33.36	7.8	24.9	0.74
C4	07 Oct 2025	1	17.64	88.37	7.3	33.34	7.9	24.1	0.86
C4	07 Oct 2025	2	17.63	88.38	7.3	33.34	7.9	24.1	0.89
C4	07 Oct 2025	3	17.58	88.26	7.3	33.33	7.9	24.1	1.01
C4	07 Oct 2025	4	17.54	87.82	7.2	33.33	7.9	24.1	1.03
C4	07 Oct 2025	5	17.25	87.27	7.1	33.29	7.9	24.1	1.03
C4	07 Oct 2025	6	15.56	87.54	7.4	33.32	7.9	24.6	1.08
C4	07 Oct 2025	7	15.16	90.57	7.4	33.28	7.9	24.6	1.00
C4	07 Oct 2025	8	14.70	92.37	7.3	33.29	7.9	24.7	0.81
C4	07 Oct 2025	9	14.62	91.91	7.2	33.29	7.9	24.7	0.56
C4	07 Oct 2025	10	14.56	91.22	7.1	33.28	7.9	24.7	0.55
C4	07 Oct 2025	11	14.53	89.85	7.1	33.28	7.9	24.7	0.50
C4	07 Oct 2025	12	14.53	88.80	7.1	33.28	7.9	24.7	0.50
C4	07 Oct 2025	13	14.54	89.02	7.0	33.28	7.9	24.7	0.56
C4	15 Oct 2025	1	17.04	86.70	8.1	33.25	8.0	24.2	0.62
C4	15 Oct 2025	2	17.03	86.66	8.1	33.25	8.0	24.2	0.61
C4	15 Oct 2025	3	17.00	84.45	8.1	33.25	8.0	24.2	0.58
C4	15 Oct 2025	4	16.98	86.56	8.1	33.25	8.0	24.2	0.64
C4	15 Oct 2025	5	16.68	86.50	8.1	33.25	8.0	24.2	0.85
C4	15 Oct 2025	6	16.56	87.27	8.1	33.25	8.0	24.3	1.40
C4	15 Oct 2025	7	16.49	87.97	8.1	33.24	8.0	24.3	1.60
C4	15 Oct 2025	8	16.45	88.27	8.1	33.24	8.0	24.3	1.63
C4	15 Oct 2025	9	16.41	87.85	8.0	33.24	8.0	24.3	1.55
C4	15 Oct 2025	10	16.40	87.47	8.0	33.24	8.0	24.3	1.52
C4	15 Oct 2025	11	16.40	87.02	8.0	33.24	8.0	24.3	1.36
C4	21 Oct 2025	1	17.39	88.58	8.1	33.31	8.0	24.1	1.21
C4	21 Oct 2025	2	17.39	88.70	8.1	33.30	8.0	24.1	1.17
C4	21 Oct 2025	3	17.37	88.84	8.1	33.30	8.0	24.1	1.28
C4	21 Oct 2025	4	17.35	89.10	8.1	33.31	8.0	24.1	1.52
C4	21 Oct 2025	5	17.34	88.96	8.1	33.30	8.0	24.1	1.80
C4	21 Oct 2025	6	17.26	88.97	7.9	33.30	8.0	24.1	1.80
C4	21 Oct 2025	7	17.02	89.16	7.6	33.30	8.0	24.2	1.53
C4	21 Oct 2025	8	16.85	89.36	7.3	33.30	8.0	24.2	1.28
C4	21 Oct 2025	9	16.66	88.89	6.9	33.29	8.0	24.3	1.05
C4	21 Oct 2025	10	16.36	84.54	6.5	33.30	7.9	24.4	0.76
C4	21 Oct 2025	11	16.21	77.80	6.0	33.30	7.9	24.4	0.55
C4	21 Oct 2025	12	16.19	74.59	5.8	33.30	7.8	24.4	0.52
C4	27 Oct 2025	1	17.29	79.72	8.1	33.33	8.0	24.2	1.64
C4	27 Oct 2025	2	17.27	79.86	8.1	33.33	8.0	24.2	1.65
C4	27 Oct 2025	3	17.20	79.86	8.0	33.33	8.0	24.2	1.95
C4	27 Oct 2025	4	17.21	79.59	7.9	33.33	8.0	24.2	2.51
C4	27 Oct 2025	5	16.98	79.47	7.8	33.30	8.0	24.2	2.53
C4	27 Oct 2025	6	16.42	80.71	7.6	33.32	8.0	24.4	2.77
C4	27 Oct 2025	7	16.16	82.77	7.4	33.33	8.0	24.4	2.72
C4	27 Oct 2025	8	16.00	84.83	7.1	33.32	8.0	24.5	2.23
C4	27 Oct 2025	9	15.78	83.70	6.6	33.33	7.9	24.5	1.70
C4	27 Oct 2025	10	15.39	76.49	5.9	33.33	7.9	24.6	1.11
C4	27 Oct 2025	11	14.97	58.21	5.3	33.34	7.8	24.7	0.97
A7	07 Oct 2025	1	17.06	89.73	7.6	33.32	8.0	24.2	1.81
A7	07 Oct 2025	2	16.30	89.99	7.4	33.29	7.9	24.4	1.80
A7	07 Oct 2025	3	15.07	91.03	7.3	33.29	7.9	24.6	1.23
A7	07 Oct 2025	4	14.02	93.00	7.4	33.28	7.9	24.9	0.95
A7	07 Oct 2025	5	13.87	95.49	7.3	33.28	7.9	24.9	0.93
A7	07 Oct 2025	6	13.79	96.01	7.3	33.27	7.9	24.9	0.96
A7	07 Oct 2025	7	13.76	96.22	7.3	33.27	7.9	24.9	0.95
A7	07 Oct 2025	8	13.77	96.37	7.2	33.27	7.9	24.9	0.95
A7	07 Oct 2025	9	13.64	96.38	7.2	33.28	7.9	24.9	0.96
A7	07 Oct 2025	10	13.56	96.42	7.0	33.29	7.9	25.0	0.87
A7	07 Oct 2025	11	13.54	96.20	7.0	33.30	7.9	25.0	0.80
A7	07 Oct 2025	12	13.52	96.14	7.0	33.30	7.9	25.0	0.80

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	07 Oct 2025	13	13.50	96.16	6.9	33.30	7.9	25.0	0.79
A7	07 Oct 2025	14	13.45	95.96	6.8	33.31	7.9	25.0	0.74
A7	07 Oct 2025	15	13.39	95.84	6.7	33.31	7.9	25.0	0.69
A7	07 Oct 2025	16	13.16	95.34	6.6	33.34	7.8	25.1	0.61
A7	07 Oct 2025	17	13.07	94.79	6.4	33.35	7.8	25.1	0.54
A7	07 Oct 2025	18	13.03	94.03	6.4	33.36	7.8	25.1	0.51
A7	07 Oct 2025	19	13.02	93.75	6.4	33.36	7.8	25.1	0.51
A7	07 Oct 2025	20	13.01	93.60	6.3	33.36	7.8	25.1	0.50
A7	15 Oct 2025	1	16.99	90.85	7.8	33.26	8.0	24.2	0.85
A7	15 Oct 2025	2	16.98	90.43	7.7	33.26	8.0	24.2	0.86
A7	15 Oct 2025	3	16.98	90.59	7.7	33.26	8.0	24.2	0.89
A7	15 Oct 2025	4	16.93	90.22	7.8	33.27	8.0	24.2	0.93
A7	15 Oct 2025	5	16.85	89.70	7.8	33.27	8.0	24.2	0.95
A7	15 Oct 2025	6	16.81	89.79	7.8	33.27	8.0	24.2	0.97
A7	15 Oct 2025	7	16.75	89.65	7.8	33.27	8.0	24.2	1.00
A7	15 Oct 2025	8	16.74	89.41	7.7	33.27	8.0	24.3	0.97
A7	15 Oct 2025	9	16.67	89.38	7.6	33.27	8.0	24.3	0.98
A7	15 Oct 2025	10	16.19	89.01	7.5	33.29	8.0	24.4	0.98
A7	15 Oct 2025	11	15.94	89.07	7.4	33.29	7.9	24.4	0.95
A7	15 Oct 2025	12	15.87	88.56	7.3	33.29	7.9	24.5	0.94
A7	15 Oct 2025	13	15.82	88.10	7.3	33.29	7.9	24.5	1.00
A7	15 Oct 2025	14	15.44	87.51	7.4	33.30	7.9	24.6	1.25
A7	15 Oct 2025	15	15.52	87.48	7.3	33.29	7.9	24.5	1.43
A7	15 Oct 2025	16	14.92	88.02	7.4	33.31	7.9	24.7	1.58
A7	15 Oct 2025	17	14.85	88.63	7.4	33.31	7.9	24.7	1.75
A7	15 Oct 2025	18	14.80	88.82	7.3	33.31	7.9	24.7	1.81
A7	15 Oct 2025	19	14.73	88.99	7.3	33.32	7.9	24.7	2.58
A7	21 Oct 2025	1	17.88	95.40	8.4	33.32	8.1	24.0	0.64
A7	21 Oct 2025	2	17.88	95.42	8.4	33.32	8.1	24.0	0.60
A7	21 Oct 2025	3	17.89	95.29	8.4	33.32	8.1	24.0	0.62
A7	21 Oct 2025	4	17.89	95.29	8.4	33.32	8.1	24.0	0.63
A7	21 Oct 2025	5	17.88	95.30	8.4	33.32	8.1	24.0	0.64
A7	21 Oct 2025	6	17.85	95.41	8.4	33.32	8.1	24.0	0.62
A7	21 Oct 2025	7	17.74	95.48	8.3	33.31	8.1	24.0	0.63
A7	21 Oct 2025	8	17.51	95.49	8.2	33.31	8.0	24.1	0.71
A7	21 Oct 2025	9	17.19	94.56	8.1	33.30	8.0	24.2	0.84
A7	21 Oct 2025	10	16.98	93.42	8.0	33.30	8.0	24.2	0.98
A7	21 Oct 2025	11	16.65	92.58	7.7	33.29	8.0	24.3	0.87
A7	21 Oct 2025	12	16.38	92.59	7.6	33.30	8.0	24.4	0.69
A7	21 Oct 2025	13	16.29	92.38	7.3	33.30	8.0	24.4	0.72
A7	21 Oct 2025	14	15.38	91.95	7.0	33.28	8.0	24.6	0.66
A7	21 Oct 2025	15	14.25	91.23	6.8	33.32	7.9	24.8	0.58
A7	21 Oct 2025	16	13.81	91.22	6.6	33.34	7.9	24.9	0.50
A7	21 Oct 2025	17	13.69	91.75	6.5	33.34	7.9	25.0	0.45
A7	21 Oct 2025	18	13.65	91.61	6.5	33.34	7.9	25.0	0.44
A7	21 Oct 2025	19	13.66	90.83	6.5	33.34	7.9	25.0	0.44
A7	21 Oct 2025	20	13.66	90.50	6.4	33.34	7.9	25.0	0.44
A7	21 Oct 2025	21	13.72	90.27	6.4	33.34	7.9	25.0	0.46
A7	27 Oct 2025	1	18.02	92.43	8.1	33.36	8.0	24.0	1.31
A7	27 Oct 2025	2	18.00	92.30	8.1	33.36	8.0	24.0	1.33
A7	27 Oct 2025	3	17.89	92.04	7.9	33.35	8.0	24.0	1.24
A7	27 Oct 2025	4	17.46	92.23	7.6	33.34	8.0	24.1	1.35
A7	27 Oct 2025	5	16.66	91.29	7.2	33.33	8.0	24.3	1.43
A7	27 Oct 2025	6	16.20	87.87	6.8	33.33	7.9	24.4	1.13
A7	27 Oct 2025	7	15.80	86.98	6.5	33.33	7.9	24.5	0.96
A7	27 Oct 2025	8	15.28	86.61	6.6	33.32	7.9	24.6	0.80
A7	27 Oct 2025	9	14.99	86.58	6.6	33.33	7.9	24.7	0.88
A7	27 Oct 2025	10	14.82	89.11	6.5	33.32	7.9	24.7	0.88
A7	27 Oct 2025	11	14.44	90.57	6.5	33.34	7.9	24.8	0.79
A7	27 Oct 2025	12	14.34	91.09	6.4	33.34	7.9	24.8	0.77
A7	27 Oct 2025	13	14.22	91.47	6.4	33.34	7.9	24.9	0.81
A7	27 Oct 2025	14	14.18	91.23	6.4	33.34	7.9	24.9	0.82
A7	27 Oct 2025	15	14.07	91.00	6.4	33.34	7.9	24.9	0.92
A7	27 Oct 2025	16	13.92	91.07	6.4	33.35	7.9	24.9	0.79
A7	27 Oct 2025	17	13.85	91.17	6.3	33.35	7.9	24.9	0.73
A7	27 Oct 2025	18	13.90	90.96	6.3	33.35	7.9	24.9	0.72
A7	27 Oct 2025	19	13.70	90.56	6.2	33.36	7.9	25.0	0.66
A7	27 Oct 2025	20	13.65	87.40	6.1	33.37	7.8	25.0	0.60
C5	07 Oct 2025	1	17.93	83.48	7.4	33.34	7.9	24.0	2.32
C5	07 Oct 2025	2	17.78	82.26	7.3	33.33	7.9	24.0	2.34

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C5	07 Oct 2025	3	17.05	83.31	7.0	33.30	7.9	24.2	2.58
C5	07 Oct 2025	4	15.63	87.05	7.0	33.31	7.9	24.5	1.14
C5	07 Oct 2025	5	15.42	92.57	6.9	33.30	7.9	24.6	0.60
C5	07 Oct 2025	6	14.99	93.37	6.8	33.29	7.9	24.7	0.58
C5	07 Oct 2025	7	14.79	94.02	6.8	33.30	7.9	24.7	0.51
C5	07 Oct 2025	8	14.72	93.90	6.9	33.29	7.9	24.7	0.57
C5	07 Oct 2025	9	14.63	93.87	7.0	33.29	7.9	24.7	0.66
C5	07 Oct 2025	10	14.60	94.09	7.0	33.29	7.9	24.7	0.63
C5	07 Oct 2025	11	14.60	93.69	7.0	33.29	7.9	24.7	0.62
C5	15 Oct 2025	1	17.35	77.88	7.3	33.31	8.0	24.1	0.93
C5	15 Oct 2025	2	17.32	77.68	7.3	33.31	8.0	24.1	0.99
C5	15 Oct 2025	3	17.30	77.43	7.3	33.31	8.0	24.1	1.12
C5	15 Oct 2025	4	17.27	77.46	7.2	33.30	8.0	24.1	1.10
C5	15 Oct 2025	5	17.23	77.04	7.2	33.30	8.0	24.2	0.95
C5	15 Oct 2025	6	17.20	77.06	7.1	33.29	8.0	24.2	0.86
C5	15 Oct 2025	7	17.13	77.06	6.9	33.28	8.0	24.2	0.80
C5	15 Oct 2025	8	16.61	75.50	6.8	33.27	7.9	24.3	0.64
C5	15 Oct 2025	9	16.18	75.93	6.7	33.29	7.9	24.4	0.52
C5	15 Oct 2025	10	15.80	76.58	6.6	33.30	7.9	24.5	0.52
C5	21 Oct 2025	1	17.68	74.05	6.8	33.30	7.9	24.1	0.61
C5	21 Oct 2025	2	17.66	73.70	6.8	33.30	7.9	24.1	0.63
C5	21 Oct 2025	3	17.62	73.35	6.9	33.30	7.9	24.1	0.72
C5	21 Oct 2025	4	17.59	73.69	7.2	33.31	7.9	24.1	0.78
C5	21 Oct 2025	5	17.57	75.67	7.3	33.31	8.0	24.1	0.79
C5	21 Oct 2025	6	17.56	82.99	7.4	33.31	8.0	24.1	0.79
C5	21 Oct 2025	7	17.54	86.23	7.3	33.31	8.0	24.1	0.81
C5	21 Oct 2025	8	17.46	86.99	7.2	33.30	8.0	24.1	0.76
C5	21 Oct 2025	9	17.28	86.75	6.9	33.30	8.0	24.1	0.66
C5	21 Oct 2025	10	16.91	85.80	6.6	33.30	7.9	24.2	0.50
C5	21 Oct 2025	11	16.68	82.50	6.4	33.30	7.9	24.3	0.47
C5	27 Oct 2025	1	17.60	56.10	6.6	33.33	7.8	24.1	0.91
C5	27 Oct 2025	2	17.61	55.84	6.6	33.33	7.8	24.1	0.86
C5	27 Oct 2025	3	17.47	55.13	6.5	33.33	7.8	24.1	0.89
C5	27 Oct 2025	4	17.31	55.62	6.5	33.33	7.8	24.2	0.87
C5	27 Oct 2025	5	17.03	60.61	6.3	33.33	7.9	24.2	0.82
C5	27 Oct 2025	6	16.49	66.29	5.8	33.32	7.8	24.3	0.69
C5	27 Oct 2025	7	15.82	67.57	5.5	33.33	7.8	24.5	0.54
C5	27 Oct 2025	8	15.59	64.06	5.4	33.33	7.8	24.6	0.45
C5	27 Oct 2025	9	15.39	63.43	5.5	33.33	7.8	24.6	0.45
C5	27 Oct 2025	10	15.09	66.70	5.4	33.34	7.8	24.7	0.46
C5	27 Oct 2025	11	15.00	51.21	5.1	33.33	7.8	24.7	5.66
A6	07 Oct 2025	1	18.20	86.17	7.8	33.33	8.0	23.9	2.65
A6	07 Oct 2025	2	17.42	87.15	7.7	33.32	8.0	24.1	2.42
A6	07 Oct 2025	3	16.79	88.65	7.7	33.31	8.0	24.3	2.00
A6	07 Oct 2025	4	16.42	89.92	7.8	33.31	8.0	24.4	1.72
A6	07 Oct 2025	5	15.48	91.73	7.6	33.27	8.0	24.5	1.50
A6	07 Oct 2025	6	14.30	93.27	7.5	33.29	7.9	24.8	1.23
A6	07 Oct 2025	7	14.22	95.18	7.4	33.28	7.9	24.8	1.00
A6	07 Oct 2025	8	14.14	95.83	7.3	33.28	7.9	24.8	0.95
A6	07 Oct 2025	9	14.07	95.99	7.3	33.28	7.9	24.8	0.89
A6	07 Oct 2025	10	14.02	96.12	7.2	33.28	7.9	24.9	0.89
A6	07 Oct 2025	11	13.91	96.40	7.2	33.28	7.9	24.9	0.84
A6	07 Oct 2025	12	13.86	96.57	7.1	33.29	7.9	24.9	0.79
A6	07 Oct 2025	13	13.84	96.64	7.1	33.29	7.9	24.9	0.78
A6	07 Oct 2025	14	13.77	96.75	7.1	33.29	7.9	24.9	0.73
A6	07 Oct 2025	15	13.74	96.70	7.0	33.30	7.9	24.9	0.75
A6	07 Oct 2025	16	13.73	96.78	7.0	33.30	7.9	24.9	0.73
A6	07 Oct 2025	17	13.71	96.79	7.0	33.30	7.9	24.9	0.76
A6	07 Oct 2025	18	13.70	96.75	7.0	33.30	7.9	24.9	0.71
A6	07 Oct 2025	19	13.69	96.90	7.0	33.30	7.9	24.9	0.70
A6	07 Oct 2025	20	13.69	96.76	7.0	33.30	7.9	24.9	0.68
A6	07 Oct 2025	21	13.69	96.69	6.9	33.31	7.9	24.9	0.69
A6	15 Oct 2025	1	16.54	88.03	7.8	33.28	8.0	24.3	1.15
A6	15 Oct 2025	2	16.28	88.16	7.7	33.29	8.0	24.4	1.14
A6	15 Oct 2025	3	16.21	88.73	7.6	33.29	8.0	24.4	1.25
A6	15 Oct 2025	4	15.99	89.35	7.7	33.29	8.0	24.4	1.34
A6	15 Oct 2025	5	15.59	90.09	7.7	33.29	8.0	24.5	1.74
A6	15 Oct 2025	6	15.27	89.11	7.8	33.30	8.0	24.6	2.25
A6	15 Oct 2025	7	15.25	88.29	7.8	33.29	8.0	24.6	2.30

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A6	15 Oct 2025	8	15.16	88.41	7.8	33.30	8.0	24.6	2.28
A6	15 Oct 2025	9	15.11	88.61	7.7	33.30	8.0	24.6	2.38
A6	15 Oct 2025	10	15.07	88.57	7.7	33.30	8.0	24.6	2.20
A6	15 Oct 2025	11	15.02	88.37	7.7	33.30	8.0	24.7	2.34
A6	15 Oct 2025	12	15.00	88.44	7.6	33.30	8.0	24.7	2.20
A6	15 Oct 2025	13	14.93	87.98	7.6	33.30	8.0	24.7	2.22
A6	15 Oct 2025	14	14.92	88.85	7.6	33.30	8.0	24.7	2.15
A6	15 Oct 2025	15	14.88	89.17	7.6	33.30	8.0	24.7	2.07
A6	15 Oct 2025	16	14.81	89.80	7.5	33.31	7.9	24.7	2.02
A6	15 Oct 2025	17	14.84	89.68	7.5	33.31	7.9	24.7	2.08
A6	15 Oct 2025	18	14.80	89.04	7.5	33.31	7.9	24.7	1.99
A6	15 Oct 2025	19	14.81	88.60	7.5	33.31	7.9	24.7	1.90
A6	15 Oct 2025	20	14.76	88.68	7.4	33.31	7.9	24.7	1.87
A6	15 Oct 2025	21	14.75	87.64	7.4	33.31	7.9	24.7	1.81
A6	21 Oct 2025	1	17.77	94.84	8.4	33.32	8.1	24.0	0.73
A6	21 Oct 2025	2	17.76	92.08	8.4	33.31	8.1	24.0	0.77
A6	21 Oct 2025	3	17.59	94.37	8.5	33.31	8.1	24.1	0.77
A6	21 Oct 2025	4	17.46	95.05	8.4	33.30	8.1	24.1	0.79
A6	21 Oct 2025	5	17.12	95.05	8.3	33.29	8.0	24.2	0.83
A6	21 Oct 2025	6	16.89	94.45	8.1	33.30	8.0	24.2	1.01
A6	21 Oct 2025	7	16.86	93.99	8.0	33.30	8.0	24.2	1.02
A6	21 Oct 2025	8	16.59	93.51	7.9	33.29	8.0	24.3	0.98
A6	21 Oct 2025	9	16.41	92.81	7.8	33.30	8.0	24.3	0.83
A6	21 Oct 2025	10	16.08	92.89	7.6	33.29	8.0	24.4	0.96
A6	21 Oct 2025	11	15.62	93.03	7.5	33.29	8.0	24.5	0.85
A6	21 Oct 2025	12	15.25	92.83	7.3	33.31	7.9	24.6	0.91
A6	21 Oct 2025	13	15.02	92.35	7.1	33.29	7.9	24.6	0.96
A6	21 Oct 2025	14	14.44	91.92	7.0	33.32	7.9	24.8	0.86
A6	21 Oct 2025	15	14.33	91.68	6.8	33.33	7.9	24.8	0.74
A6	21 Oct 2025	16	14.25	91.69	6.8	33.33	7.9	24.8	0.70
A6	21 Oct 2025	17	14.23	91.62	6.7	33.33	7.9	24.8	0.63
A6	21 Oct 2025	18	14.13	91.55	6.6	33.34	7.9	24.9	0.61
A6	27 Oct 2025	1	17.92	89.72	7.9	33.35	8.0	24.0	1.57
A6	27 Oct 2025	2	17.83	89.61	7.8	33.34	8.0	24.0	1.58
A6	27 Oct 2025	3	17.57	89.02	7.5	33.33	8.0	24.1	1.55
A6	27 Oct 2025	4	17.43	85.19	7.4	33.34	7.9	24.1	1.26
A6	27 Oct 2025	5	17.36	81.02	7.5	33.34	8.0	24.2	1.27
A6	27 Oct 2025	6	17.21	82.73	7.6	33.33	8.0	24.2	1.52
A6	27 Oct 2025	7	16.85	87.33	7.6	33.32	8.0	24.3	1.47
A6	27 Oct 2025	8	16.44	90.43	7.4	33.32	8.0	24.4	1.44
A6	27 Oct 2025	9	15.90	90.75	7.2	33.34	7.9	24.5	1.28
A6	27 Oct 2025	10	15.80	88.65	7.0	33.34	7.9	24.5	1.26
A6	27 Oct 2025	11	15.57	83.63	6.9	33.34	7.9	24.6	1.13
A6	27 Oct 2025	12	15.01	81.51	6.8	33.37	7.9	24.7	1.03
A6	27 Oct 2025	13	14.74	81.73	6.7	33.34	7.9	24.8	1.06
A6	27 Oct 2025	14	14.49	85.65	6.6	33.34	7.9	24.8	1.88
A6	27 Oct 2025	15	14.36	89.70	6.4	33.34	7.9	24.8	0.93
A6	27 Oct 2025	16	14.14	91.04	6.3	33.34	7.9	24.9	0.81
A6	27 Oct 2025	17	13.73	90.48	6.2	33.37	7.8	25.0	0.67
A6	27 Oct 2025	18	13.59	88.76	6.0	33.37	7.8	25.0	0.50
A6	27 Oct 2025	19	13.55	85.28	6.0	33.38	7.8	25.0	0.47
C6	07 Oct 2025	1	18.26	82.09	6.7	33.34	7.9	23.9	1.28
C6	07 Oct 2025	2	17.75	82.20	6.7	33.31	7.9	24.0	1.26
C6	07 Oct 2025	3	16.68	83.62	6.8	33.33	7.9	24.3	1.25
C6	07 Oct 2025	4	15.53	86.10	6.8	33.31	7.9	24.6	1.10
C6	07 Oct 2025	5	15.22	90.77	6.7	33.31	7.9	24.6	0.58
C6	07 Oct 2025	6	15.14	92.81	6.7	33.30	7.9	24.6	0.54
C6	07 Oct 2025	7	14.96	93.37	6.7	33.30	7.9	24.7	0.56
C6	07 Oct 2025	8	14.86	93.28	6.8	33.30	7.9	24.7	0.59
C6	07 Oct 2025	9	14.75	92.66	6.8	33.29	7.9	24.7	0.59
C6	07 Oct 2025	10	14.70	91.03	6.7	33.30	7.9	24.7	0.58
C6	15 Oct 2025	1	16.84	82.51	7.3	33.28	8.0	24.2	0.61
C6	15 Oct 2025	2	16.83	82.89	7.4	33.28	8.0	24.2	0.64
C6	15 Oct 2025	3	16.79	83.53	7.3	33.28	8.0	24.2	0.79
C6	15 Oct 2025	4	16.75	84.16	7.2	33.28	7.9	24.3	0.69
C6	15 Oct 2025	5	16.75	83.21	7.2	33.28	7.9	24.3	0.60
C6	15 Oct 2025	6	16.73	82.61	7.1	33.28	7.9	24.3	0.61
C6	15 Oct 2025	7	16.65	81.88	7.0	33.27	7.9	24.3	0.60
C6	15 Oct 2025	8	16.32	81.13	6.8	33.28	7.9	24.4	0.54
C6	15 Oct 2025	9	16.05	77.00	6.5	33.30	7.9	24.4	0.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C6	15 Oct 2025	10	16.04	74.25	6.5	33.30	7.9	24.4	0.58
C6	21 Oct 2025	1	17.72	85.94	7.9	33.31	8.0	24.0	0.70
C6	21 Oct 2025	2	17.72	85.73	8.0	33.31	8.0	24.0	0.73
C6	21 Oct 2025	3	17.70	88.61	8.2	33.31	8.0	24.1	0.83
C6	21 Oct 2025	4	17.66	90.55	8.1	33.31	8.0	24.1	0.91
C6	21 Oct 2025	5	17.62	90.52	7.9	33.31	8.0	24.1	0.94
C6	21 Oct 2025	6	17.54	89.38	7.6	33.30	8.0	24.1	0.94
C6	21 Oct 2025	7	17.43	86.85	7.3	33.30	8.0	24.1	0.83
C6	21 Oct 2025	8	17.25	84.05	7.0	33.29	8.0	24.1	0.68
C6	21 Oct 2025	9	16.51	82.59	6.7	33.29	7.9	24.3	0.50
C6	21 Oct 2025	10	16.34	73.97	6.5	33.29	7.9	24.4	0.46
C6	27 Oct 2025	1	17.67	64.89	7.2	33.34	7.9	24.1	0.87
C6	27 Oct 2025	2	17.60	64.82	7.2	33.34	7.9	24.1	0.91
C6	27 Oct 2025	3	17.53	64.70	7.0	33.33	7.9	24.1	1.03
C6	27 Oct 2025	4	17.08	65.65	6.7	33.32	7.9	24.2	0.89
C6	27 Oct 2025	5	16.66	65.44	6.4	33.34	7.9	24.3	0.68
C6	27 Oct 2025	6	16.33	65.83	6.1	33.33	7.9	24.4	0.64
C6	27 Oct 2025	7	15.63	65.97	5.9	33.33	7.8	24.5	0.55
C6	27 Oct 2025	8	15.43	63.81	5.7	33.34	7.8	24.6	0.56
C6	27 Oct 2025	9	15.43	56.73	5.6	33.34	7.8	24.6	0.84
C7	07 Oct 2025	1	18.38	90.73	8.0	33.35	8.0	23.9	1.98
C7	07 Oct 2025	2	18.22	90.67	7.8	33.34	8.0	23.9	1.91
C7	07 Oct 2025	3	17.27	91.15	7.7	33.33	8.0	24.2	1.83
C7	07 Oct 2025	4	16.23	91.86	7.4	33.33	8.0	24.4	1.75
C7	07 Oct 2025	5	15.93	91.81	7.1	33.31	7.9	24.5	1.46
C7	07 Oct 2025	6	15.56	92.08	7.0	33.30	7.9	24.5	1.22
C7	07 Oct 2025	7	15.46	92.44	7.0	33.30	7.9	24.6	0.90
C7	07 Oct 2025	8	15.42	92.79	6.9	33.30	7.9	24.6	0.80
C7	07 Oct 2025	9	15.28	93.14	6.8	33.30	7.9	24.6	0.70
C7	07 Oct 2025	10	15.01	93.57	6.7	33.30	7.9	24.7	0.62
C7	07 Oct 2025	11	14.69	93.90	6.8	33.31	7.9	24.7	0.55
C7	07 Oct 2025	12	14.57	94.18	6.9	33.30	7.9	24.8	0.62
C7	07 Oct 2025	13	14.55	94.39	6.9	33.30	7.9	24.8	0.70
C7	07 Oct 2025	14	14.45	94.55	6.9	33.30	7.9	24.8	0.71
C7	07 Oct 2025	15	14.24	94.97	6.8	33.31	7.9	24.8	0.65
C7	07 Oct 2025	16	14.09	95.15	6.8	33.31	7.9	24.9	0.59
C7	07 Oct 2025	17	13.95	95.03	6.7	33.31	7.9	24.9	0.58
C7	07 Oct 2025	18	13.94	94.70	6.7	33.31	7.9	24.9	0.56
C7	07 Oct 2025	19	13.94	94.32	6.6	33.31	7.9	24.9	0.58
C7	15 Oct 2025	1	17.04	90.19	7.9	33.26	8.0	24.2	0.89
C7	15 Oct 2025	2	16.89	90.10	7.9	33.27	8.0	24.2	1.14
C7	15 Oct 2025	3	16.68	90.33	7.8	33.23	8.0	24.2	1.38
C7	15 Oct 2025	4	16.27	88.86	7.8	33.28	8.0	24.4	1.65
C7	15 Oct 2025	5	16.23	88.71	7.8	33.29	8.0	24.4	1.69
C7	15 Oct 2025	6	16.10	89.04	7.8	33.28	8.0	24.4	1.84
C7	15 Oct 2025	7	16.02	88.97	8.0	33.28	8.0	24.4	2.59
C7	15 Oct 2025	8	15.93	88.69	8.1	33.27	8.0	24.4	2.98
C7	15 Oct 2025	9	15.86	88.42	8.1	33.28	8.0	24.5	3.17
C7	15 Oct 2025	10	15.82	88.51	8.1	33.28	8.0	24.5	3.07
C7	15 Oct 2025	11	15.84	88.49	8.0	33.28	8.0	24.5	2.63
C7	15 Oct 2025	12	15.80	88.86	8.0	33.28	8.0	24.5	2.73
C7	15 Oct 2025	13	15.80	89.19	7.9	33.29	8.0	24.5	2.33
C7	15 Oct 2025	14	15.80	89.51	7.8	33.29	8.0	24.5	1.88
C7	15 Oct 2025	15	15.78	90.22	7.7	33.29	8.0	24.5	1.57
C7	15 Oct 2025	16	15.70	90.39	7.6	33.29	8.0	24.5	1.16
C7	15 Oct 2025	17	15.67	89.84	7.5	33.30	8.0	24.5	0.95
C7	15 Oct 2025	18	15.67	89.55	7.5	33.30	8.0	24.5	0.81
C7	21 Oct 2025	1	17.77	94.59	8.4	33.32	8.1	24.0	0.72
C7	21 Oct 2025	2	17.77	91.46	8.4	33.32	8.1	24.0	0.74
C7	21 Oct 2025	3	17.77	94.39	8.4	33.32	8.1	24.0	0.76
C7	21 Oct 2025	4	17.77	94.62	8.4	33.32	8.1	24.0	0.83
C7	21 Oct 2025	5	17.69	94.77	8.5	33.31	8.1	24.1	0.85
C7	21 Oct 2025	6	17.61	94.71	8.5	33.31	8.1	24.1	0.82
C7	21 Oct 2025	7	17.55	94.72	8.5	33.31	8.1	24.1	0.87
C7	21 Oct 2025	8	17.35	94.98	8.5	33.29	8.1	24.1	0.86
C7	21 Oct 2025	9	17.05	95.23	8.5	33.29	8.1	24.2	0.87
C7	21 Oct 2025	10	16.89	95.00	8.5	33.29	8.1	24.2	1.01
C7	21 Oct 2025	11	16.69	94.64	8.4	33.28	8.0	24.3	1.21
C7	21 Oct 2025	12	16.49	94.01	8.4	33.29	8.0	24.3	1.39

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C7	21 Oct 2025	13	16.35	93.84	8.3	33.29	8.0	24.4	1.57
C7	21 Oct 2025	14	16.13	93.61	8.2	33.28	8.0	24.4	1.74
C7	21 Oct 2025	15	15.94	93.69	8.1	33.29	8.0	24.4	2.01
C7	21 Oct 2025	16	15.86	93.22	8.0	33.29	8.0	24.5	2.43
C7	21 Oct 2025	17	15.77	92.63	7.8	33.28	8.0	24.5	2.18
C7	21 Oct 2025	18	15.32	92.28	7.4	33.29	8.0	24.6	1.48
C7	21 Oct 2025	19	15.25	90.26	7.3	33.30	7.9	24.6	0.64
C7	27 Oct 2025	1	18.14	90.08	8.2	33.36	8.1	24.0	1.58
C7	27 Oct 2025	2	18.13	90.00	8.2	33.36	8.1	24.0	1.62
C7	27 Oct 2025	3	18.12	89.94	8.2	33.36	8.1	24.0	1.75
C7	27 Oct 2025	4	18.12	88.96	8.2	33.36	8.1	24.0	1.78
C7	27 Oct 2025	5	18.10	89.95	8.1	33.36	8.1	24.0	1.69
C7	27 Oct 2025	6	18.01	90.26	8.1	33.35	8.1	24.0	1.67
C7	27 Oct 2025	7	17.85	90.24	8.0	33.35	8.0	24.0	1.60
C7	27 Oct 2025	8	17.54	90.75	7.8	33.32	8.0	24.1	1.54
C7	27 Oct 2025	9	16.72	91.37	7.7	33.31	8.0	24.3	1.57
C7	27 Oct 2025	10	16.17	91.84	7.4	33.32	8.0	24.4	1.59
C7	27 Oct 2025	11	15.70	90.99	7.1	33.33	8.0	24.5	1.37
C7	27 Oct 2025	12	15.31	90.41	6.7	33.32	7.9	24.6	1.17
C7	27 Oct 2025	13	14.77	90.11	6.4	33.32	7.9	24.7	0.89
C7	27 Oct 2025	14	14.31	89.06	6.4	33.33	7.9	24.8	0.69
C7	27 Oct 2025	15	13.90	88.37	6.6	33.33	7.9	24.9	0.98
C7	27 Oct 2025	16	13.74	91.58	6.7	33.33	7.9	24.9	0.86
C7	27 Oct 2025	17	13.67	94.28	6.6	33.34	7.9	25.0	0.86
C7	27 Oct 2025	18	13.49	92.34	6.4	33.35	7.9	25.0	0.74
C8	07 Oct 2025	1	18.95	83.92	7.7	33.35	8.0	23.8	1.96
C8	07 Oct 2025	2	18.96	84.02	7.7	33.35	8.0	23.8	1.99
C8	07 Oct 2025	3	18.96	83.93	7.7	33.35	8.0	23.8	2.09
C8	07 Oct 2025	4	18.92	83.83	7.7	33.35	8.0	23.8	2.24
C8	07 Oct 2025	5	18.82	84.13	7.8	33.35	8.0	23.8	2.00
C8	07 Oct 2025	6	18.67	87.00	7.8	33.34	8.0	23.8	1.57
C8	07 Oct 2025	7	18.05	89.12	7.8	33.32	8.0	24.0	1.47
C8	07 Oct 2025	8	17.41	90.77	7.9	33.33	8.0	24.1	1.49
C8	07 Oct 2025	9	17.02	91.83	8.0	33.31	8.0	24.2	1.54
C8	07 Oct 2025	10	16.82	92.53	7.9	33.31	8.0	24.3	1.55
C8	07 Oct 2025	11	16.69	92.23	7.8	33.31	8.0	24.3	1.60
C8	07 Oct 2025	12	16.23	92.12	7.5	33.30	8.0	24.4	1.72
C8	07 Oct 2025	13	15.75	91.75	7.5	33.29	8.0	24.5	1.52
C8	07 Oct 2025	14	15.41	91.82	7.6	33.30	8.0	24.6	1.38
C8	07 Oct 2025	15	15.39	92.62	7.4	33.29	8.0	24.6	1.32
C8	07 Oct 2025	16	15.22	93.18	7.0	33.29	7.9	24.6	1.03
C8	07 Oct 2025	17	14.83	93.27	6.8	33.29	7.9	24.7	0.73
C8	07 Oct 2025	18	14.59	93.12	6.7	33.31	7.9	24.8	0.66
C8	07 Oct 2025	19	14.44	93.26	6.6	33.30	7.9	24.8	0.60
C8	07 Oct 2025	20	14.39	92.86	6.5	33.30	7.9	24.8	0.51
C8	15 Oct 2025	1	16.82	84.87	8.0	33.24	8.0	24.2	1.15
C8	15 Oct 2025	2	16.82	78.88	8.0	33.26	8.0	24.2	1.13
C8	15 Oct 2025	3	16.56	80.88	8.0	33.26	8.0	24.3	1.28
C8	15 Oct 2025	4	16.20	85.22	8.0	33.28	8.0	24.4	1.78
C8	15 Oct 2025	5	16.11	86.89	8.1	33.28	8.0	24.4	2.41
C8	15 Oct 2025	6	16.07	87.20	8.1	33.27	8.0	24.4	2.65
C8	15 Oct 2025	7	16.05	87.17	8.0	33.27	8.0	24.4	2.75
C8	15 Oct 2025	8	16.04	87.28	8.1	33.27	8.0	24.4	2.82
C8	15 Oct 2025	9	16.03	87.33	8.1	33.27	8.0	24.4	2.79
C8	15 Oct 2025	10	15.99	87.47	8.1	33.27	8.0	24.4	2.81
C8	15 Oct 2025	11	15.92	87.75	8.1	33.27	8.0	24.4	2.77
C8	15 Oct 2025	12	15.87	87.75	8.1	33.27	8.0	24.4	2.99
C8	15 Oct 2025	13	15.73	87.94	8.1	33.28	8.0	24.5	2.79
C8	15 Oct 2025	14	15.71	88.09	8.0	33.28	8.0	24.5	2.74
C8	15 Oct 2025	15	15.70	88.47	8.0	33.28	8.0	24.5	2.52
C8	15 Oct 2025	16	15.69	88.66	7.9	33.28	8.0	24.5	2.28
C8	15 Oct 2025	17	15.67	88.39	7.9	33.29	8.0	24.5	2.14
C8	15 Oct 2025	18	15.65	87.63	7.8	33.29	8.0	24.5	1.72
C8	15 Oct 2025	19	15.62	85.82	7.7	33.29	8.0	24.5	1.50
C8	15 Oct 2025	20	15.62	84.47	7.7	33.29	8.0	24.5	1.36
C8	21 Oct 2025	1	17.69	94.67	8.4	33.32	8.1	24.1	0.68
C8	21 Oct 2025	2	17.68	94.76	8.5	33.31	8.1	24.1	0.67
C8	21 Oct 2025	3	17.65	94.83	8.5	33.31	8.1	24.1	0.67
C8	21 Oct 2025	4	17.57	94.86	8.5	33.31	8.1	24.1	0.71
C8	21 Oct 2025	5	17.51	94.81	8.5	33.31	8.1	24.1	0.77

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	21 Oct 2025	6	17.48	94.76	8.5	33.30	8.1	24.1	0.81
C8	21 Oct 2025	7	17.39	94.71	8.5	33.30	8.1	24.1	0.86
C8	21 Oct 2025	8	17.18	94.64	8.4	33.30	8.1	24.2	0.93
C8	21 Oct 2025	9	16.86	94.50	8.5	33.29	8.0	24.2	1.10
C8	21 Oct 2025	10	16.63	94.13	8.4	33.29	8.0	24.3	1.38
C8	21 Oct 2025	11	16.54	93.79	8.4	33.29	8.0	24.3	1.60
C8	21 Oct 2025	12	16.48	93.66	8.3	33.29	8.0	24.3	1.50
C8	21 Oct 2025	13	16.32	93.55	8.3	33.28	8.0	24.4	1.61
C8	21 Oct 2025	14	16.15	93.43	8.2	33.29	8.0	24.4	1.77
C8	21 Oct 2025	15	15.98	93.58	8.1	33.29	8.0	24.4	1.98
C8	21 Oct 2025	16	15.79	93.03	7.9	33.28	8.0	24.5	1.92
C8	21 Oct 2025	17	15.56	93.16	7.7	33.29	8.0	24.5	2.22
C8	21 Oct 2025	18	15.31	92.67	7.4	33.30	8.0	24.6	1.46
C8	21 Oct 2025	19	15.23	90.91	7.2	33.30	7.9	24.6	0.86
C8	21 Oct 2025	20	15.22	87.44	7.2	33.30	7.9	24.6	0.78
C8	27 Oct 2025	1	18.24	92.20	8.1	33.37	8.1	24.0	1.38
C8	27 Oct 2025	2	18.25	92.14	8.1	33.37	8.1	24.0	1.46
C8	27 Oct 2025	3	18.25	91.75	8.1	33.37	8.1	24.0	1.66
C8	27 Oct 2025	4	18.11	91.56	8.1	33.35	8.1	24.0	1.82
C8	27 Oct 2025	5	17.77	90.78	8.1	33.34	8.0	24.1	2.15
C8	27 Oct 2025	6	17.34	88.33	8.0	33.33	8.0	24.2	2.17
C8	27 Oct 2025	7	16.93	88.19	7.8	33.32	8.0	24.2	2.16
C8	27 Oct 2025	8	16.23	89.50	7.6	33.31	8.0	24.4	2.09
C8	27 Oct 2025	9	15.42	89.91	7.3	33.30	8.0	24.6	1.96
C8	27 Oct 2025	10	14.72	90.14	7.2	33.31	8.0	24.7	1.56
C8	27 Oct 2025	11	14.49	91.42	7.0	33.32	7.9	24.8	1.27
C8	27 Oct 2025	12	14.43	92.52	6.9	33.32	7.9	24.8	1.15
C8	27 Oct 2025	13	14.28	92.69	6.8	33.32	7.9	24.8	1.08
C8	27 Oct 2025	14	14.19	92.46	6.5	33.32	7.9	24.9	0.93
C8	27 Oct 2025	15	14.05	90.83	6.2	33.33	7.9	24.9	0.72
C8	27 Oct 2025	16	13.77	87.60	6.1	33.34	7.9	25.0	0.57
C8	27 Oct 2025	17	13.67	82.62	6.0	33.35	7.8	25.0	0.55
C8	27 Oct 2025	18	13.65	76.74	6.0	33.35	7.8	25.0	0.56
C8	27 Oct 2025	19	13.64	73.33	5.9	33.35	7.8	25.0	0.54
C8	27 Oct 2025	20	13.65	70.98	5.9	33.35	7.8	25.0	0.55

NA = not available

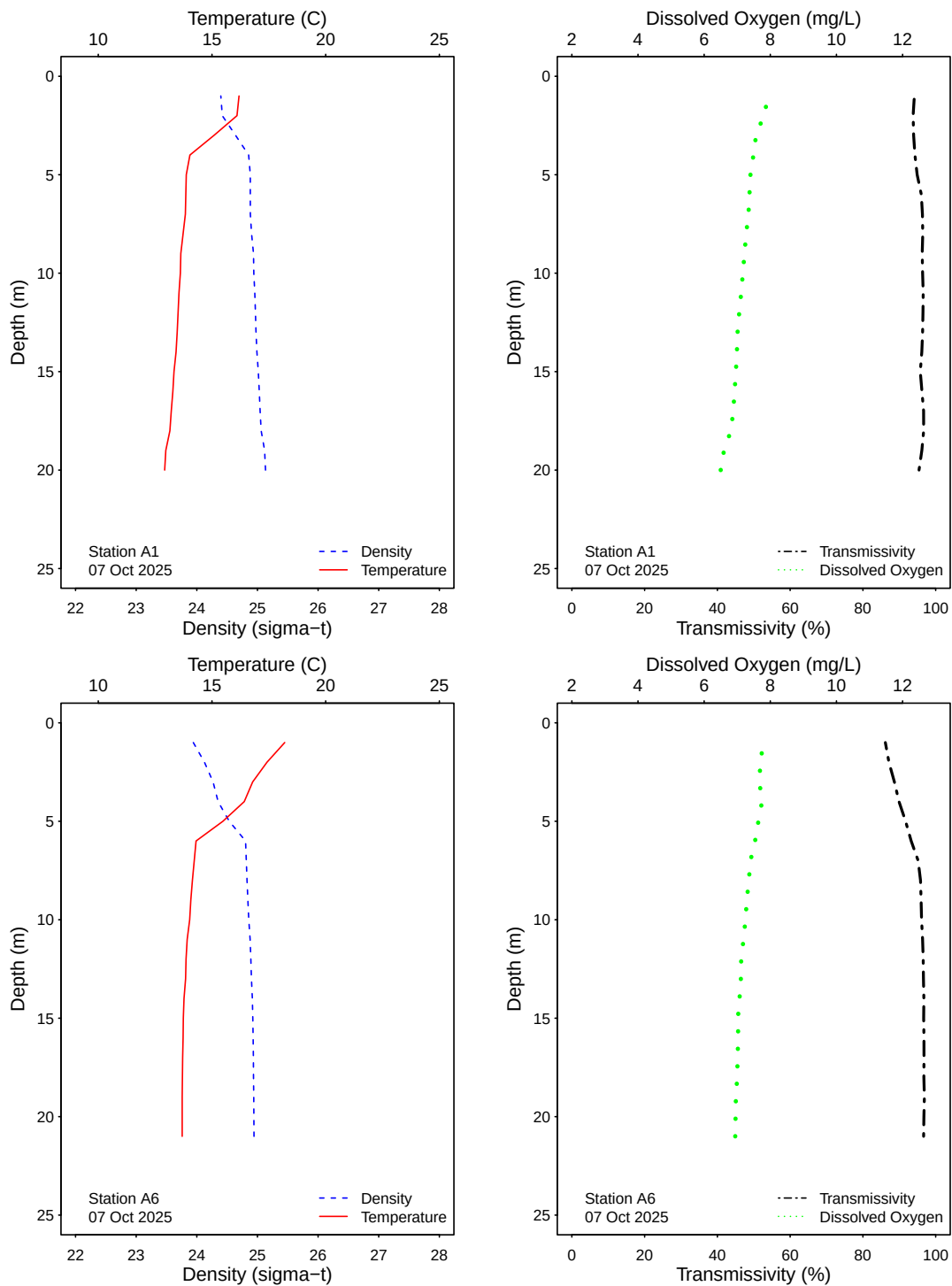


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

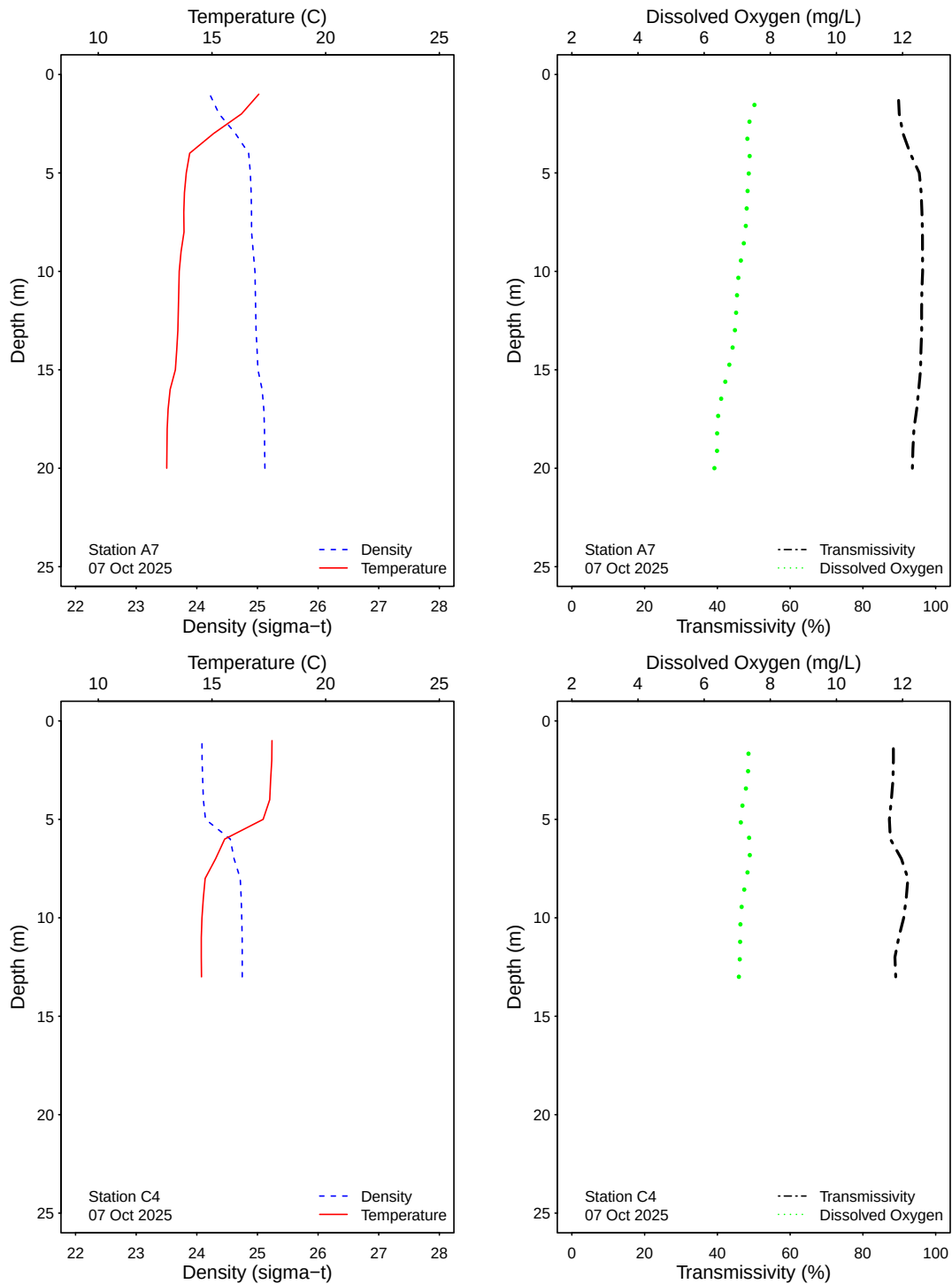


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

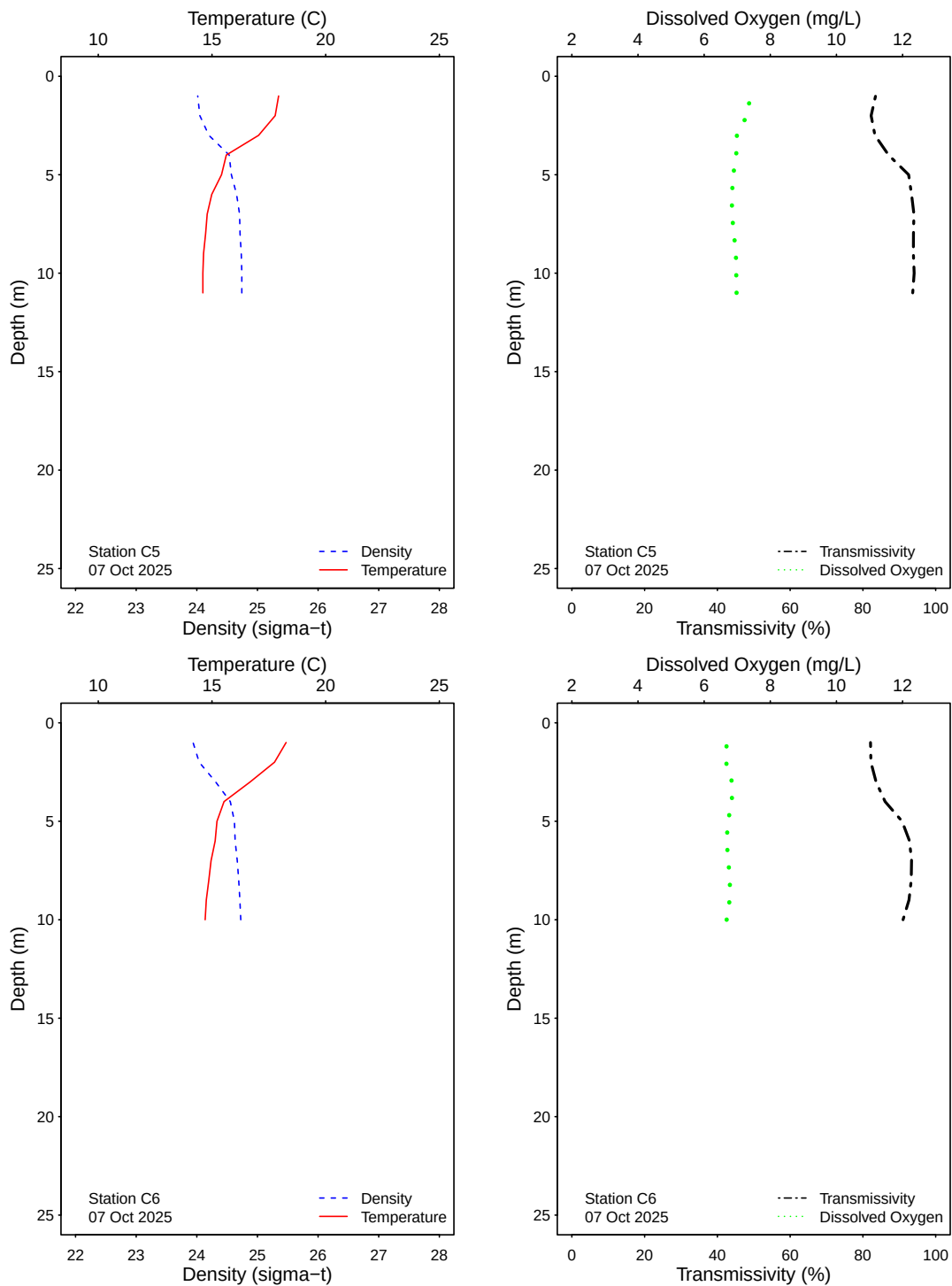


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

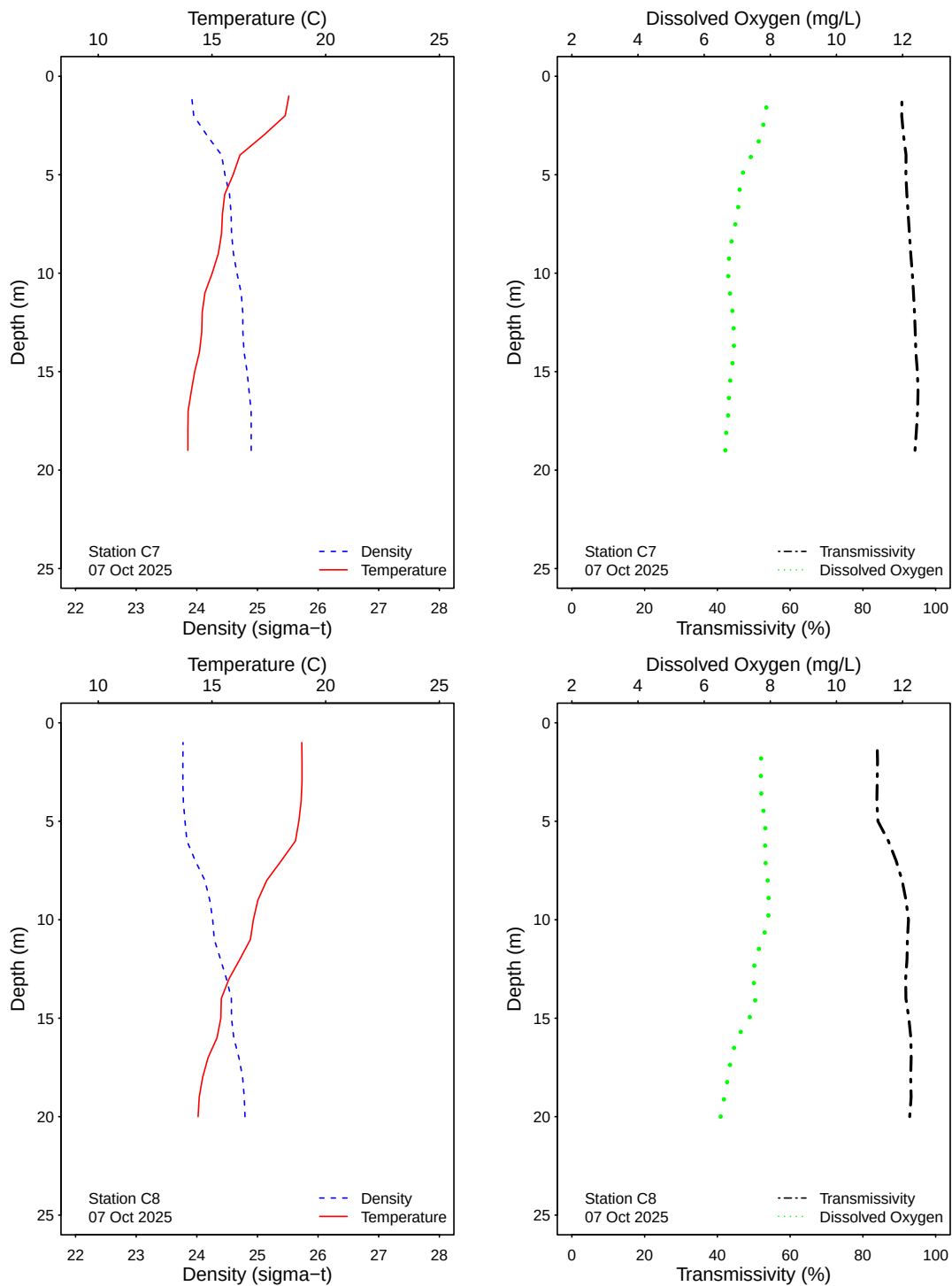


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

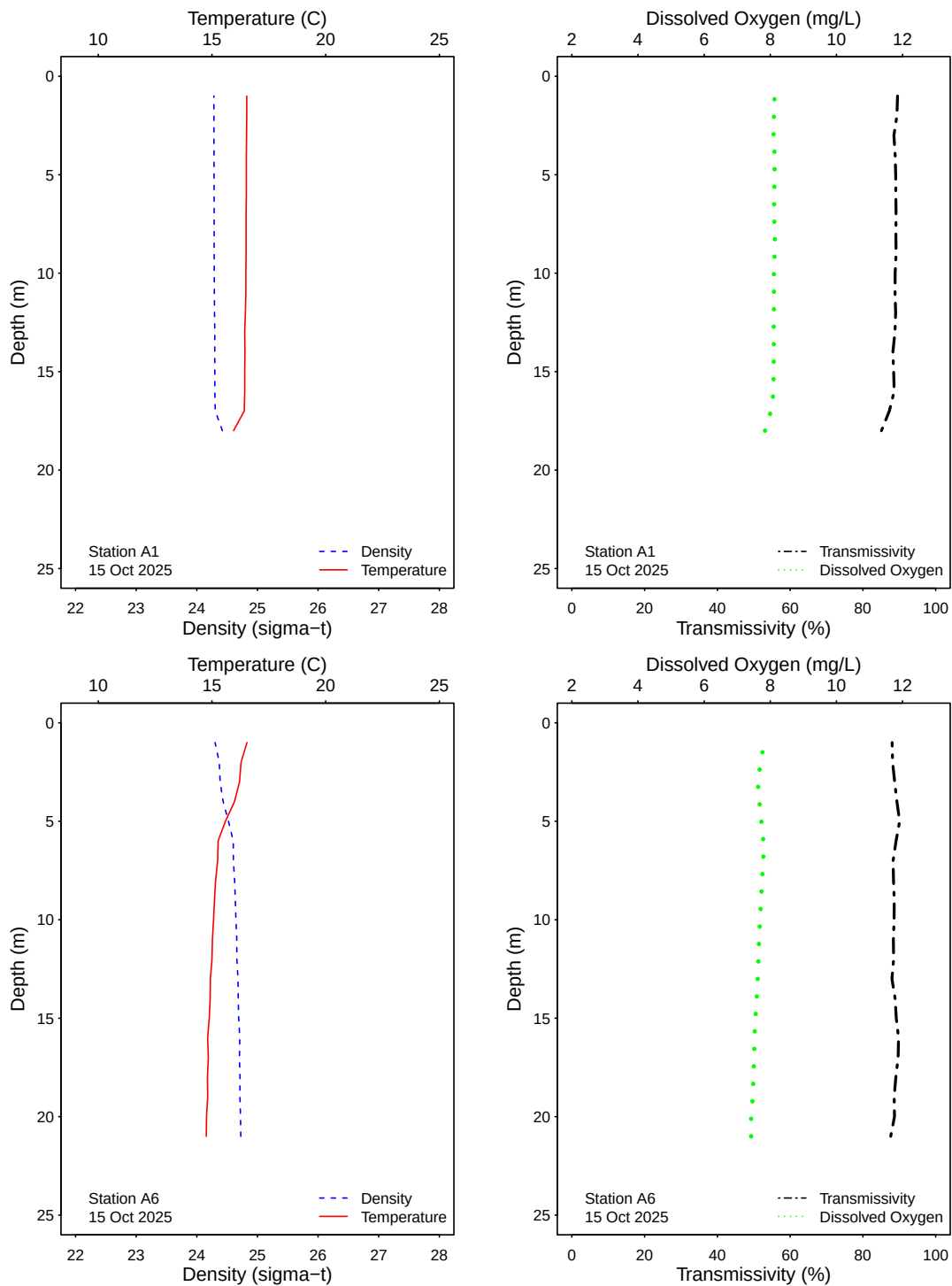


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

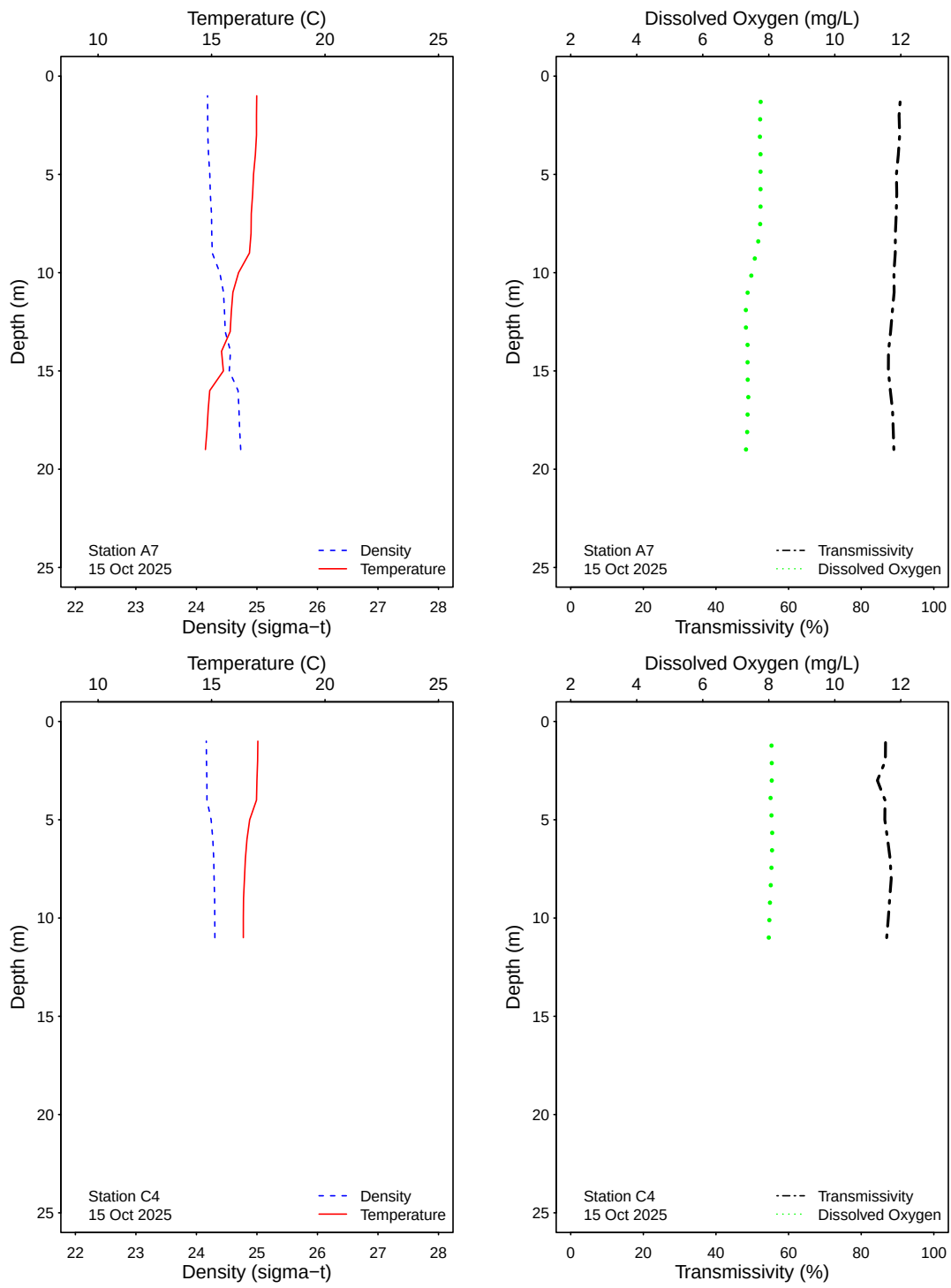


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

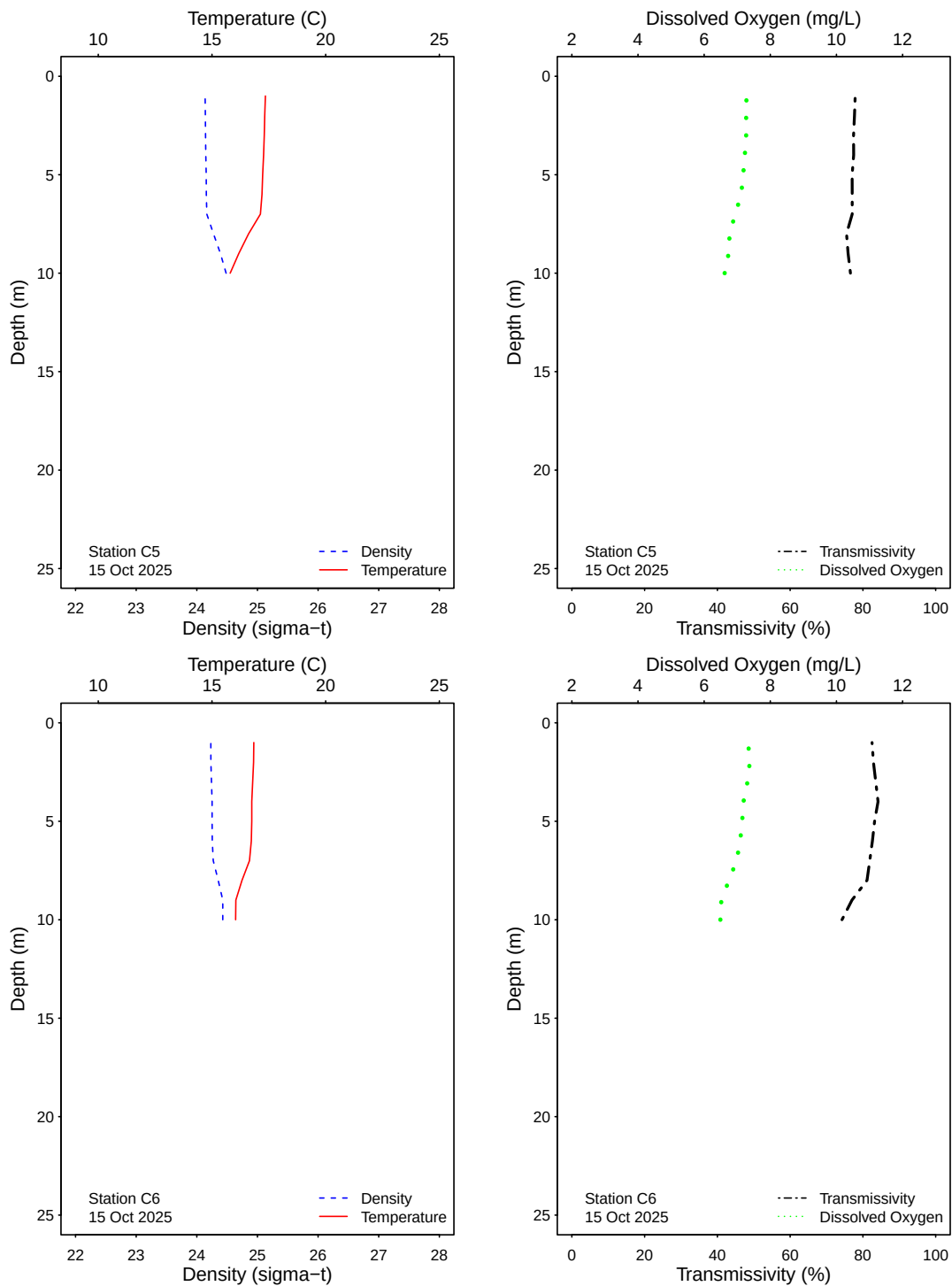


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

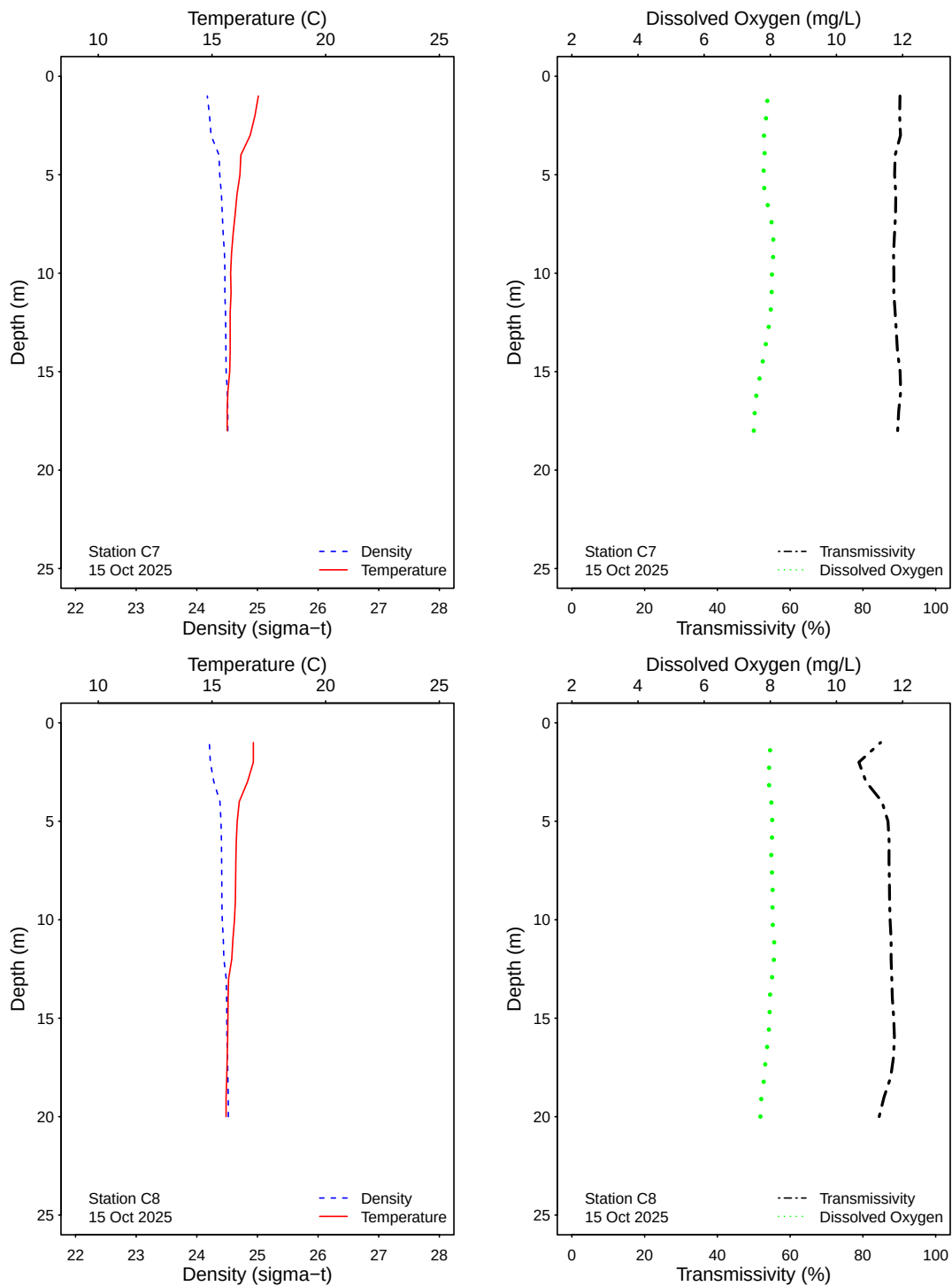


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

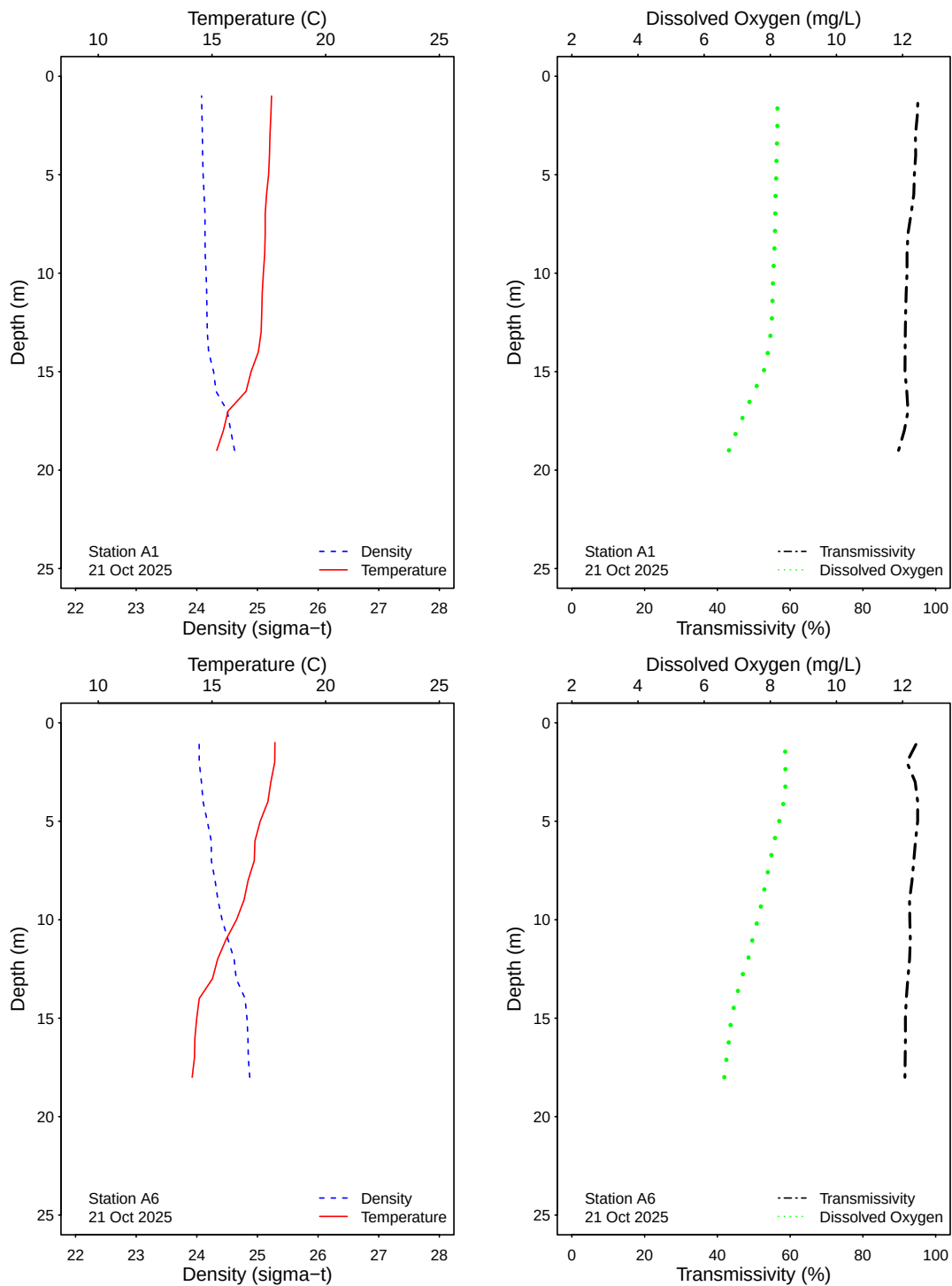


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

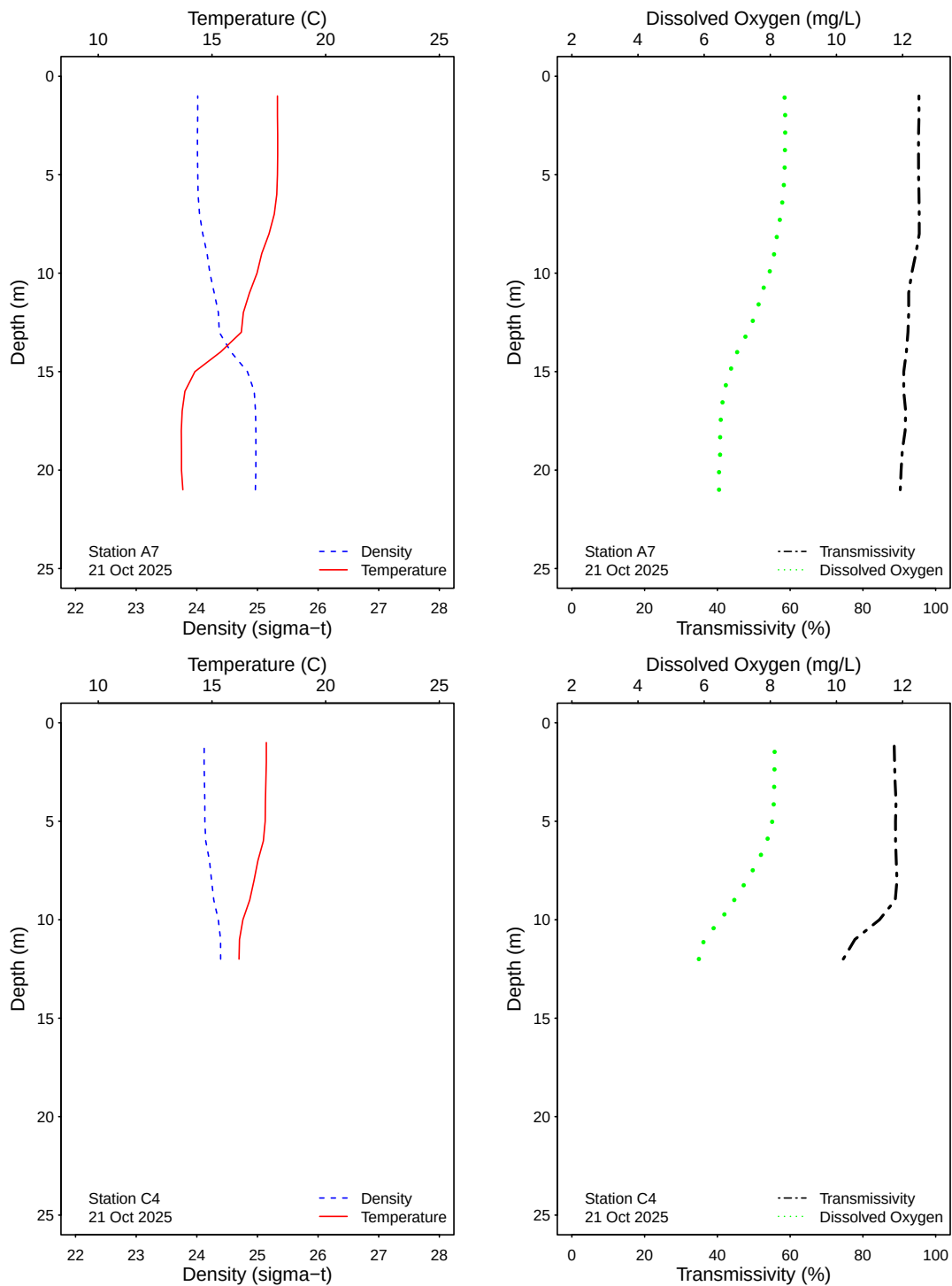


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

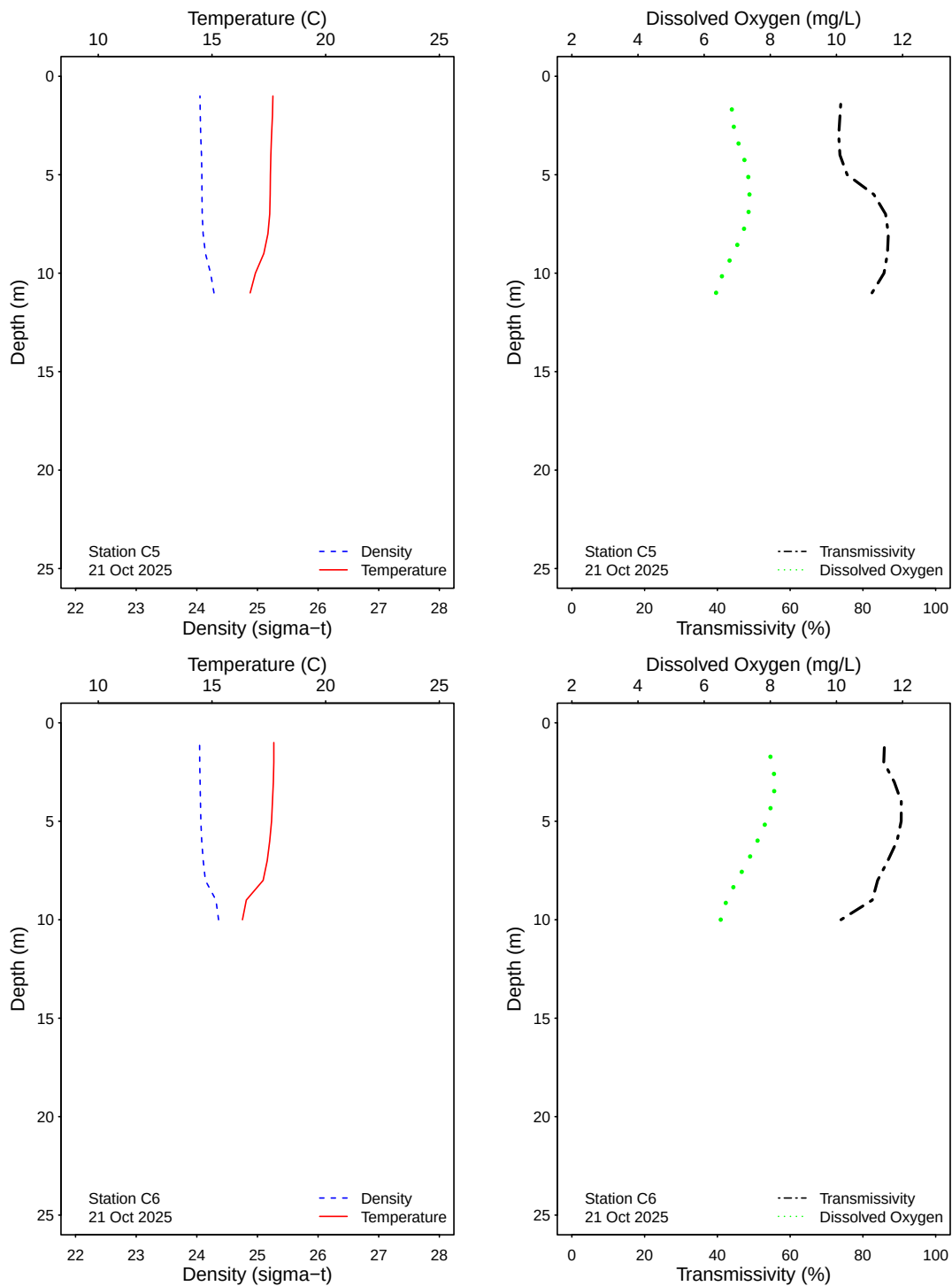


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

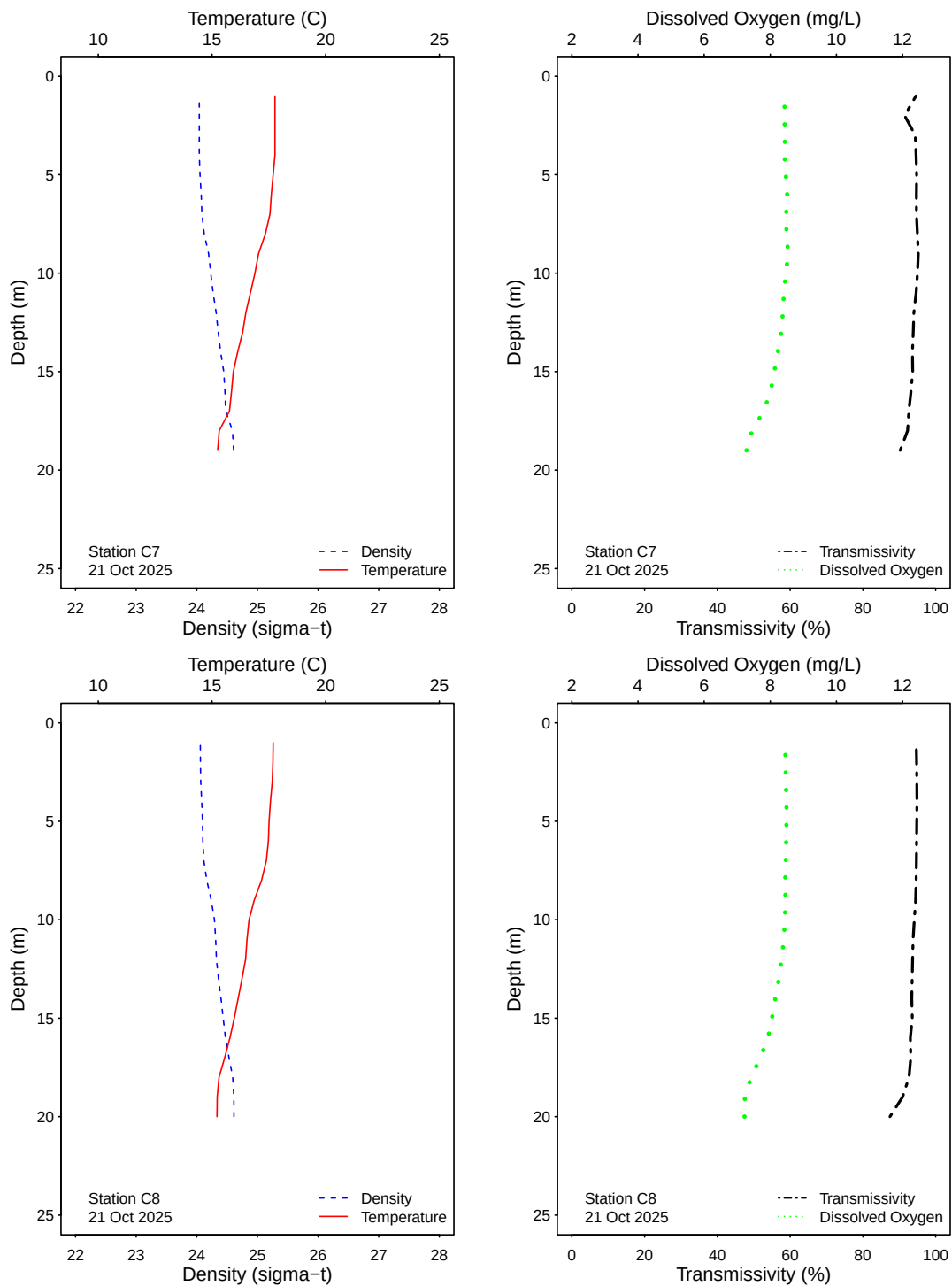


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

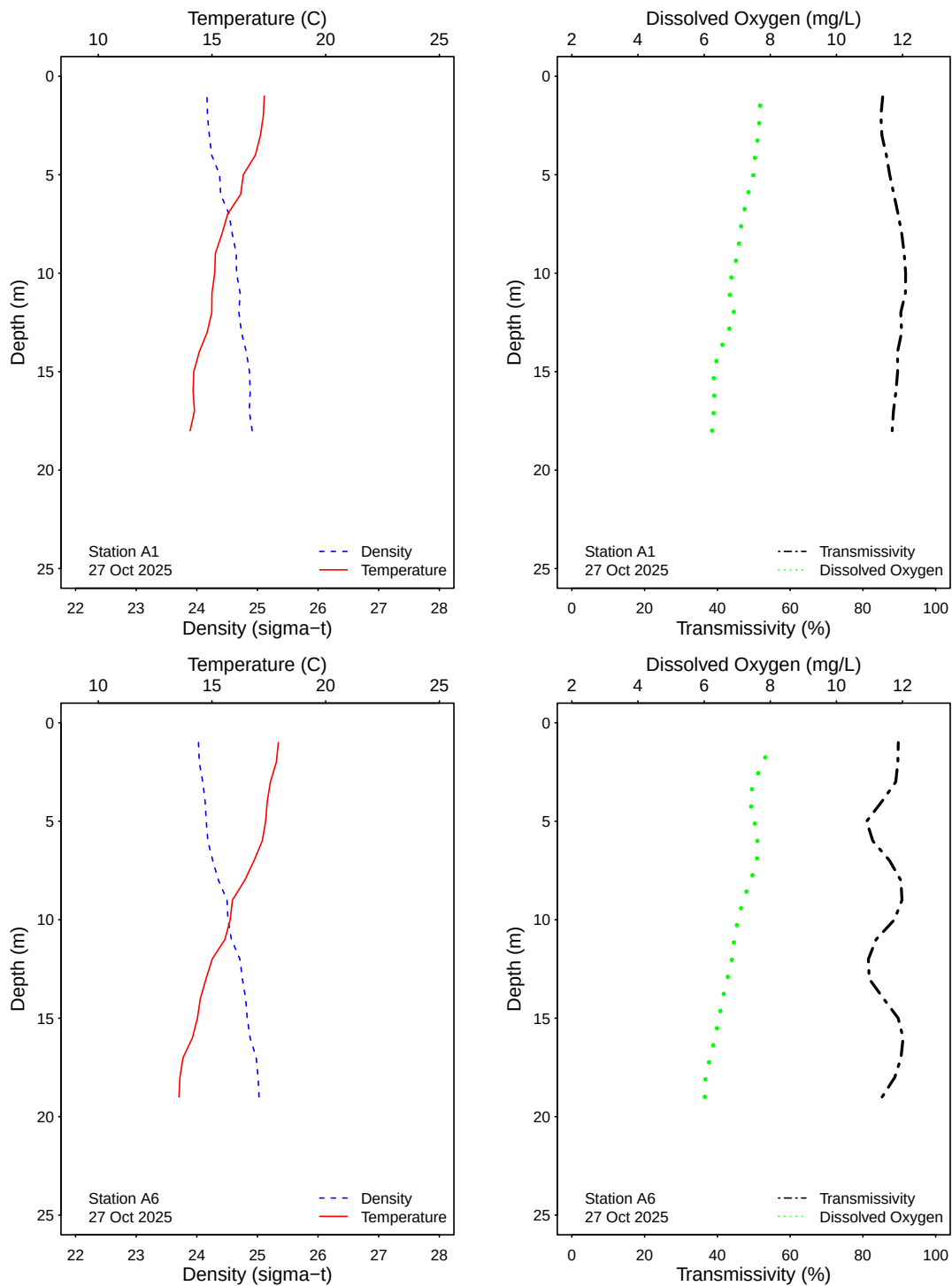


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

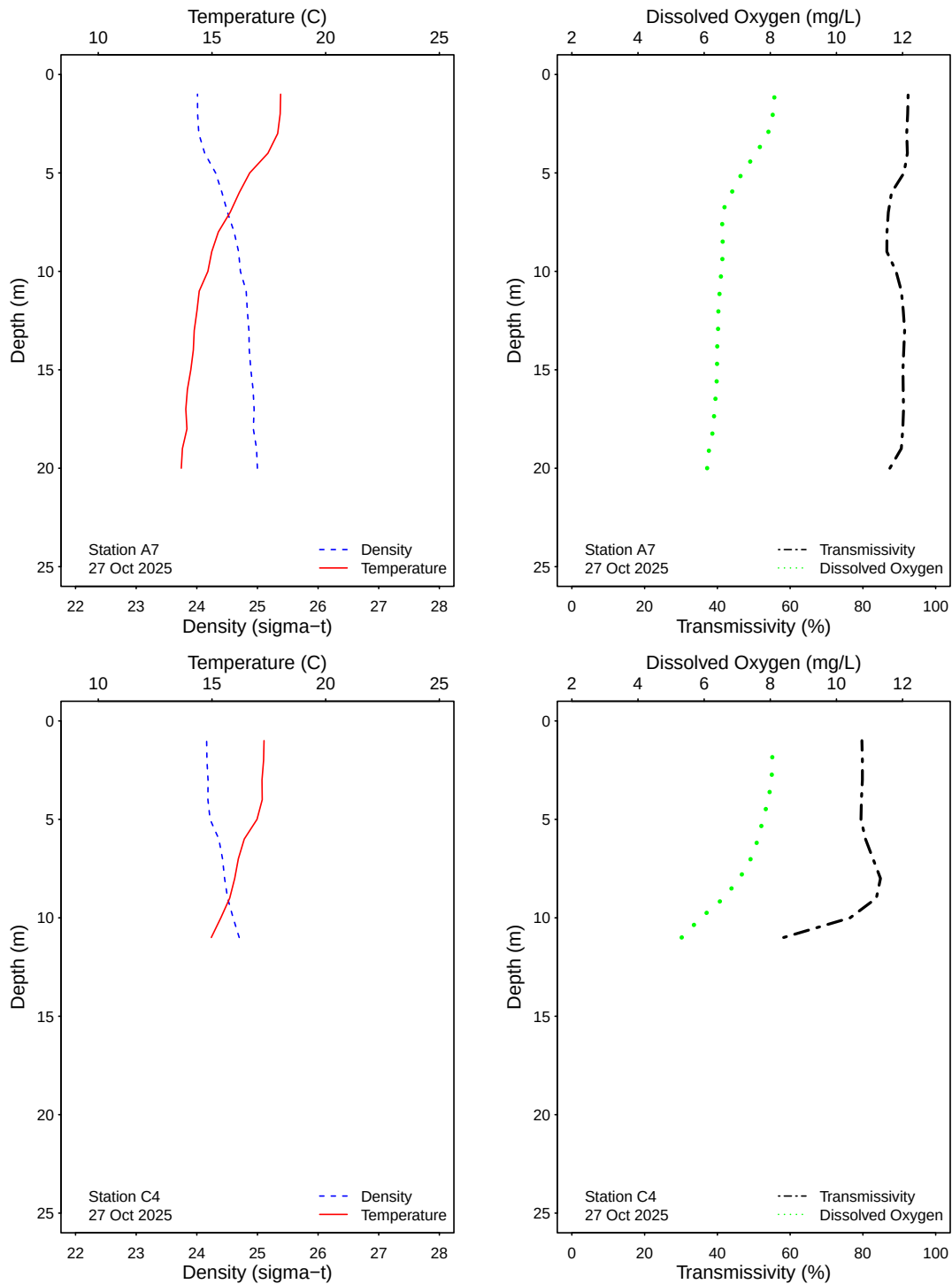


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

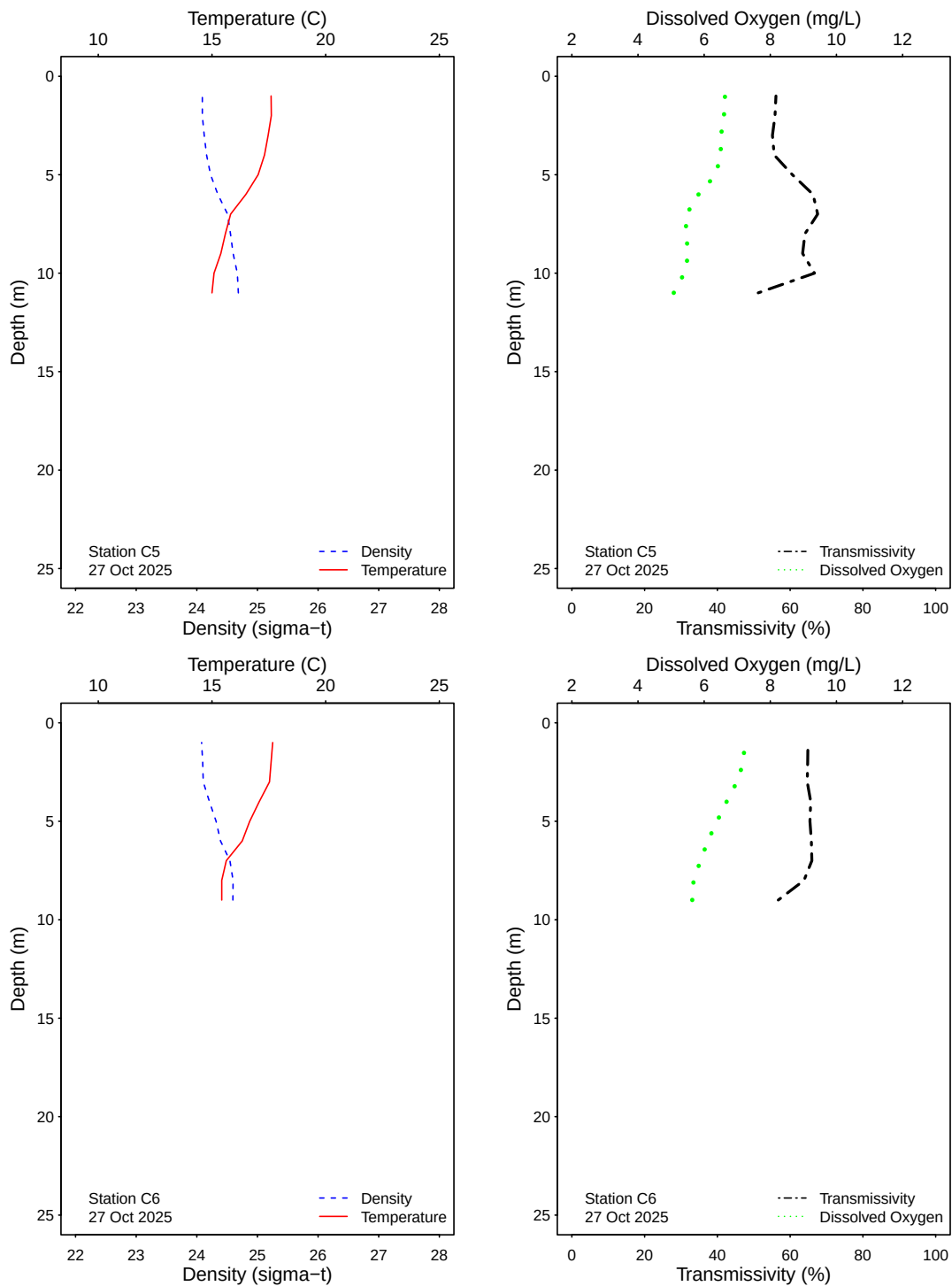


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

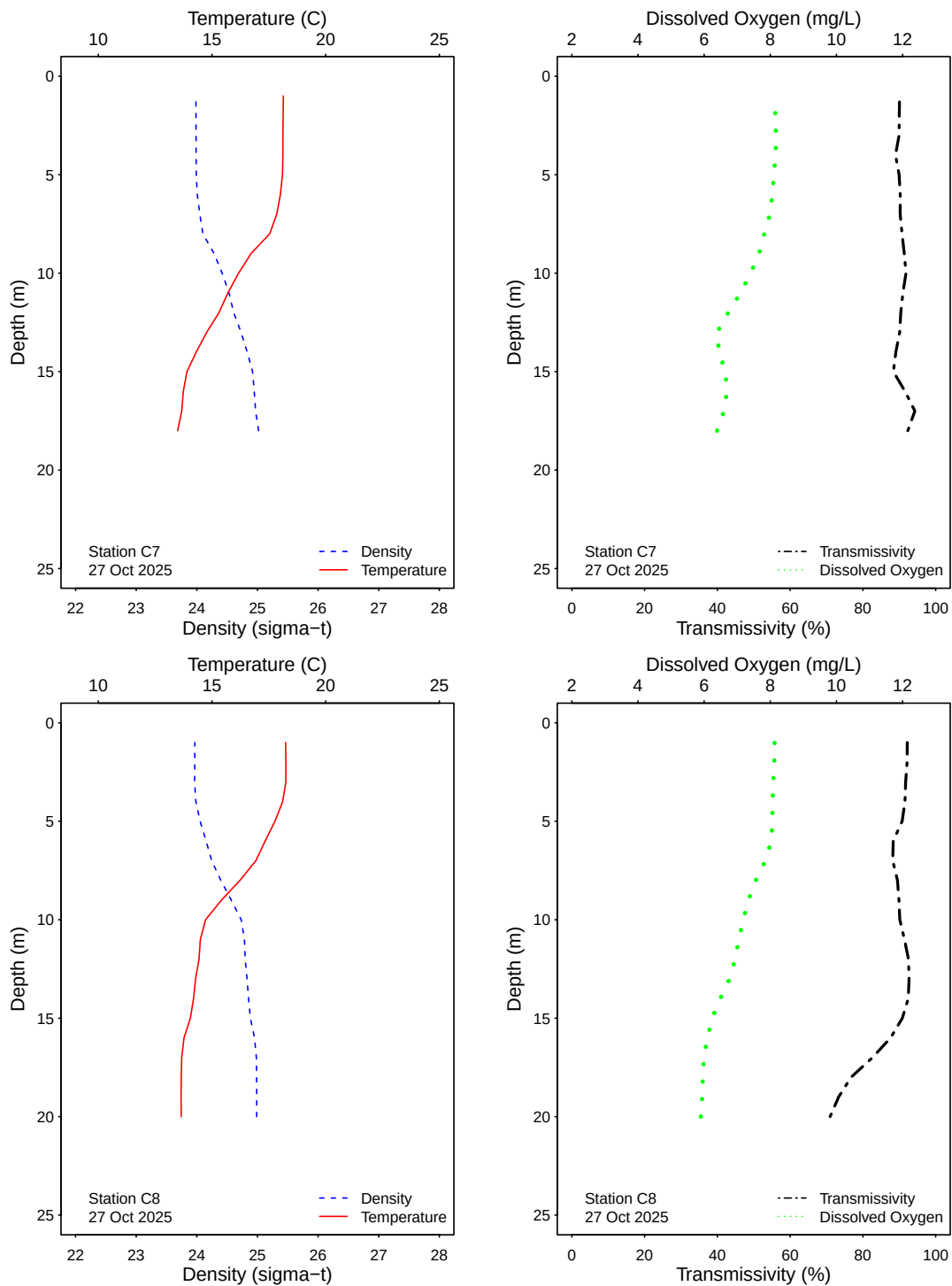


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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	07 Oct 2025	18	KT	LAB DUPLICATE	1000	300	8
A7	15 Oct 2025	18	KT	LAB DUPLICATE	48	10	2
A7	21 Oct 2025	18	SS	LAB DUPLICATE	12	4	2
A7	27 Oct 2025	18	KT	LAB DUPLICATE	16	2	2
C7	07 Oct 2025	18	KT	LAB DUPLICATE	4	2	2
C7	15 Oct 2025	18	KT	LAB DUPLICATE	2	2	2
C7	21 Oct 2025	18	SS	LAB DUPLICATE	2	2	2
C7	27 Oct 2025	18	KT	LAB DUPLICATE	60	38	2
C8	07 Oct 2025	12	KT	LAB DUPLICATE	2	2	2
C8	15 Oct 2025	12	KT	LAB DUPLICATE	8	2	2
C8	21 Oct 2025	12	SS	LAB DUPLICATE	2	2	2
C8	27 Oct 2025	12	KT	LAB DUPLICATE	2	2	2
D12	01 Oct 2025		ADG	FIELD DUPLICATE	20	2	2
D12	01 Oct 2025		ADG	LAB DUPLICATE	20	2	4
D12	08 Oct 2025		JF	FIELD DUPLICATE	20	2	2
D12	08 Oct 2025		JF	LAB DUPLICATE	20	2	2
D12	15 Oct 2025		SS	FIELD DUPLICATE	2	2	2
D12	15 Oct 2025		SS	LAB DUPLICATE	2	2	2
D12	22 Oct 2025		WT	FIELD DUPLICATE	20	16	22
D12	22 Oct 2025		WT	LAB DUPLICATE	200	14	8
D12	29 Oct 2025		WT	FIELD DUPLICATE	6	4	2
D12	29 Oct 2025		WT	LAB DUPLICATE	6	2	2

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

* 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
October	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 Oct 2025	20	20	20	20	26	40	20	20
02 Oct 2025	20	20	20	20	26	40	20	20
03 Oct 2025	*20	*20	*110	*30	*28	*50	*20	*20
04 Oct 2025	*20	*20	*110	*30	*28	*50	*20	*20
05 Oct 2025	*20	*20	*110	*30	*28	*50	*20	*20
06 Oct 2025	*20	*20	*110	*30	*28	*50	*20	*20
07 Oct 2025	*20	*20	*110	*30	*28	*50	*20	*20
08 Oct 2025	*20	*20	*110	*30	*28	*70	*30	*20
09 Oct 2025	*20	*20	*110	*30	*28	*70	*30	*20
10 Oct 2025	*20	*20	*110	*30	*28	*70	*30	*20
11 Oct 2025	*20	*20	*110	*30	*28	*70	*30	*20
12 Oct 2025	*20	*20	*110	*30	*28	*70	*30	*20
13 Oct 2025	*20	*20	*110	*30	*28	*70	*30	*20
14 Oct 2025	*20	*20	*110	*30	*28	*70	*30	*20
15 Oct 2025	20	20	20	40	36	80	40	20
16 Oct 2025	20	20	20	40	36	80	40	20
17 Oct 2025	*20	*110	*110	*130	*40	*340	*120	*18
18 Oct 2025	*20	*110	*110	*130	*40	*340	*120	*18
19 Oct 2025	*20	*110	*110	*130	*40	*340	*120	*18
20 Oct 2025	*20	*110	*110	*130	*40	*340	*120	*18
21 Oct 2025	*20	*110	*110	*130	*40	*340	*120	*18
22 Oct 2025	20	200	40	80	20	80	200	20
23 Oct 2025	20	200	40	80	20	80	200	20
24 Oct 2025	*20	*200	*30	*150	*20	*340	*200	*20
25 Oct 2025	*20	*200	*30	*150	*20	*340	*200	*20
26 Oct 2025	*20	*200	*30	*150	*20	*340	*200	*20
27 Oct 2025	*20	*200	*30	*150	*20	*340	*200	*20
28 Oct 2025	*20	*200	*30	*150	*20	*340	*200	*20
29 Oct 2025	20	200	20	80	20	80	200	20
30 Oct 2025	20	200	20	80	20	80	200	20
31 Oct 2025	*20	*200	*30	*150	*20	*50	*200	*13

* 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
October	IC	IC	IC	E	IC	E	E	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 Oct 2025	2	2	2	2	2	2	2	2
02 Oct 2025	2	2	2	2	2	2	2	2
03 Oct 2025	2	2	2	2	2	2	2	2
04 Oct 2025	2	2	2	2	2	2	2	2
05 Oct 2025	2	2	2	2	2	2	2	2
06 Oct 2025	2	2	2	2	2	2	2	2
07 Oct 2025	2	2	3	2	2	2	2	2
08 Oct 2025	2	2	3	2	2	2	2	2
09 Oct 2025	2	2	3	2	2	2	2	2
10 Oct 2025	2	2	3	2	2	2	2	2
11 Oct 2025	2	2	3	2	2	2	2	2
12 Oct 2025	2	2	3	2	2	2	2	2
13 Oct 2025	2	2	3	2	2	2	2	2
14 Oct 2025	2	2	3	2	2	2	2	2
15 Oct 2025	2	2	3	2	2	2	2	2
16 Oct 2025	2	2	3	2	2	2	2	2
17 Oct 2025	2	2	3	2	2	2	2	2
18 Oct 2025	2	2	3	2	2	2	2	2
19 Oct 2025	2	2	3	2	2	2	2	2
20 Oct 2025	2	2	2	2	2	2	2	2
21 Oct 2025	2	2	2	2	2	2	2	2
22 Oct 2025	2	2	2	2	2	2	2	2
23 Oct 2025	2	2	2	2	2	2	2	2
24 Oct 2025	2	2	2	2	2	2	2	2
25 Oct 2025	2	2	2	2	2	2	2	2
26 Oct 2025	2	2	2	2	2	2	2	2
27 Oct 2025	2	2	2	2	2	2	2	2
28 Oct 2025	2	2	2	2	2	2	2	2
29 Oct 2025	2	2	2	2	2	2	2	2
30 Oct 2025	2	2	2	2	2	2	2	2
31 Oct 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
October	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 Oct 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
02 Oct 2025	*2	*9	*21	*2	*2	*2	*2	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*15	*2	*2	*6
03 Oct 2025	*2	*9	*21	*2	*2	*2	*2	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*15	*2	*2	*6
04 Oct 2025	*2	*9	*21	*2	*2	*2	*2	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*15	*2	*2	*6
05 Oct 2025	*2	*9	*21	*2	*2	*2	*2	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*15	*2	*2	*6
06 Oct 2025	*2	*9	*21	*2	*2	*2	*2	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*15	*2	*2	*6
07 Oct 2025	2	16	34	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	14	2	2	2
08 Oct 2025	*2	*18	*18	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*2	*2	*2
09 Oct 2025	*2	*18	*18	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*2	*2	*2
10 Oct 2025	*2	*18	*18	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*2	*2	*2
11 Oct 2025	*2	*18	*18	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*2	*2	*2
12 Oct 2025	*2	*18	*18	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*2	*2	*2
13 Oct 2025	*2	*18	*18	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*2	*2	*2
14 Oct 2025	*2	*18	*18	*2	*2	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*2	*2	*2
15 Oct 2025	2	16	14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2
16 Oct 2025	*2	*18	*24	*2	*8	*18	*11	*2	*71	*2	*2	*2	*11	*11	*11	*2	*2	*2	*5	*2	*12	*11	*3	*7
17 Oct 2025	*2	*18	*24	*2	*8	*18	*11	*2	*71	*2	*2	*2	*11	*11	*11	*2	*2	*2	*5	*2	*12	*11	*3	*7
18 Oct 2025	*2	*18	*24	*2	*8	*18	*11	*2	*71	*2	*2	*2	*11	*11	*11	*2	*2	*2	*5	*2	*12	*11	*3	*7
19 Oct 2025	*2	*18	*24	*2	*8	*18	*11	*2	*71	*2	*2	*2	*11	*11	*11	*2	*2	*2	*5	*2	*12	*11	*3	*7
20 Oct 2025	*2	*18	*24	*2	*8	*18	*11	*2	*71	*2	*2	*2	*11	*11	*11	*2	*2	*2	*5	*2	*12	*11	*3	*7
21 Oct 2025	2	16	14	2	6	22	2	2	16	2	2	2	2	6	2	2	2	2	2	2	8	2	2	2
22 Oct 2025	2	16	14	2	6	22	2	2	16	2	2	2	2	6	2	2	2	2	2	2	8	2	2	2
23 Oct 2025	*2	*13	*9	*2	*10	*28	*11	*2	*78	*11	*2	*2	*11	*13	*11	*2	*2	*2	*2	*2	*5	*11	*3	*2
24 Oct 2025	*2	*13	*9	*2	*10	*28	*11	*2	*78	*11	*2	*2	*11	*13	*11	*2	*2	*2	*2	*2	*5	*11	*3	*2
25 Oct 2025	*2	*13	*9	*2	*10	*28	*11	*2	*78	*11	*2	*2	*11	*13	*11	*2	*2	*2	*2	*2	*5	*11	*3	*2
26 Oct 2025	*2	*13	*9	*2	*10	*28	*11	*2	*78	*11	*2	*2	*11	*13	*11	*2	*2	*2	*2	*2	*5	*11	*3	*2
27 Oct 2025	2	6	10	2	6	22	2	2	16	20	2	2	20	20	4	2	2	2	2	2	8	2	2	2
28 Oct 2025	2	6	10	2	6	22	2	2	16	20	2	2	20	20	4	2	2	2	2	2	8	2	2	2
29 Oct 2025	*2	*4	*12	*2	*10	*28	*11	*2	*78	*11	*2	*2	*11	*13	*3	*2	*2	*8	*2	*2	*5	*11	*3	*8
30 Oct 2025	*2	*4	*12	*2	*10	*28	*11	*2	*78	*11	*2	*2	*11	*13	*3	*2	*2	*8	*2	*2	*5	*11	*3	*8
31 Oct 2025	*2	*4	*12	*2	*10	*28	*11	*2	*78	*11	*2	*2	*11	*13	*3	*2	*2	*8	*2	*2	*5	*11	*3	*8

* 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
October	IC	IC	IC	IC	IC	IC	IC	IC	E	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