

POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

JANUARY 2025

Environmental Monitoring and Technical Services
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February 28, 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 January 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:

- Station D8 was replaced by alternate station D8-A during July 2016, which was subsequently replaced by station D8-B in March 2018, after which sampling at station D8-A resumed in December 2020. Due to recent access issues at D8-A, sampling resumed at D8-B during February 2021.

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, chromomorphpic 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

Single Sample Maximums:

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.

- (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 shore stations (D4, D5, D7, D8-B, D9, D10, D11, D12) were sampled on January 2, 8, 13, 22, and 29.

- During the January reporting period, each of the eight shore stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Nothing of sewage origin was observed at PLOO shore stations in January.
- 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 January 6, 14, 21, and 28.
- During the January reporting period, each of the eight kelp stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Water column temperatures ranged from 11.52 to 13.57°C. The difference between surface and bottom waters ranged from 0.00 to 1.42°C.

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

- Chlorophyll *a* concentrations ranged from 0.22 to 11.21 µg/L.
 - o Chlorophyll data are not available for some depths at station A1 on January 21 due to sensor failure.
- Nothing of sewage origin was observed at PLOO kelp stations in January.

Offshore Stations

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



TABLES AND FIGURES

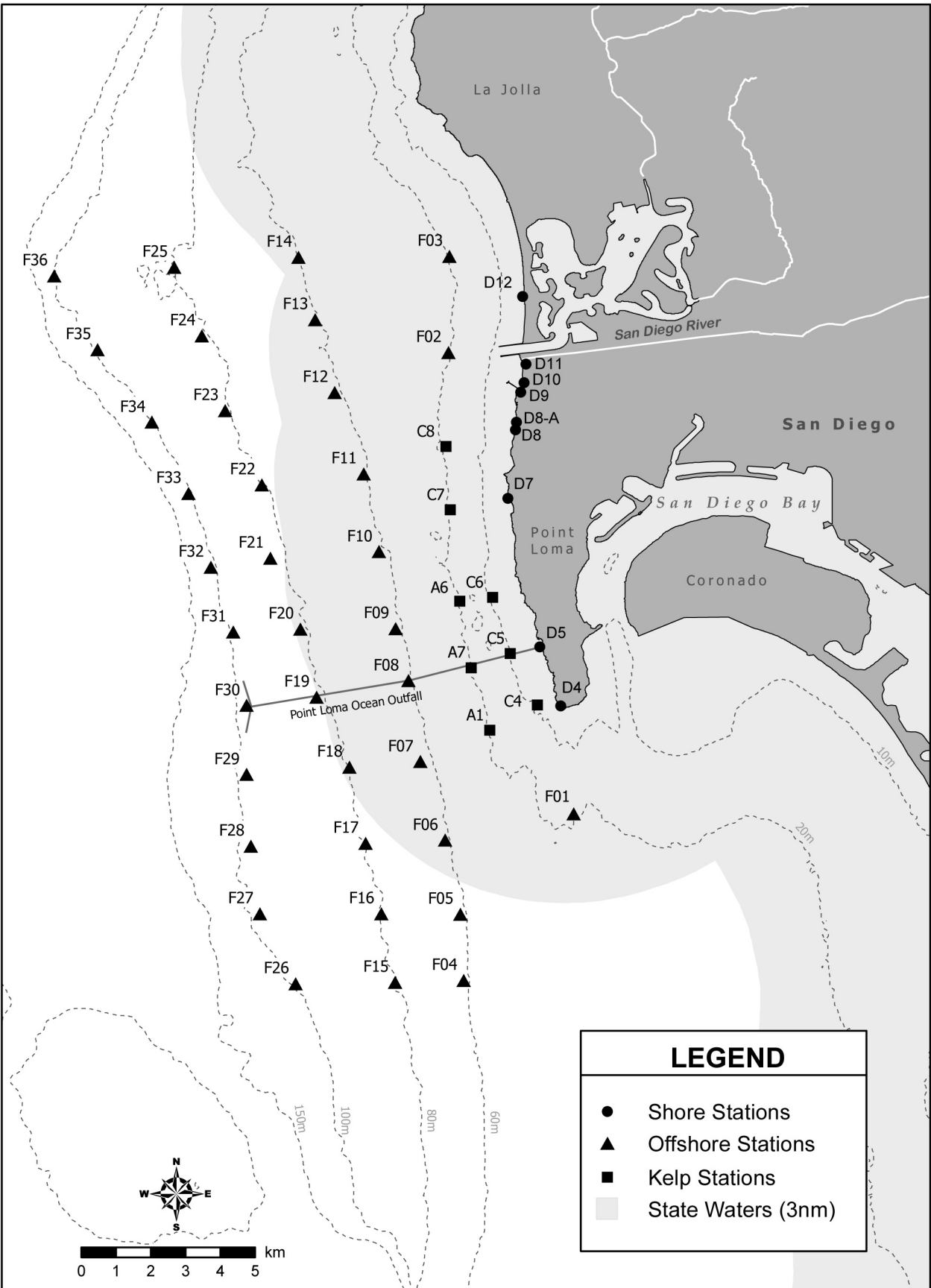


Figure 1.1 Station Map

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

* Geometric mean calculated using n<5

Table 2.2

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

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

* 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-B	D9	D10	D11	D12
02 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
13 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Jan 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-B	D9	D10	D11	D12
01 Jan 2025	*6	*34	*3	*63	*53	*20	*24	*20
02 Jan 2025	5	30	2	91	69	25	26	20
03 Jan 2025	*4	*24	*3	*63	*94	*26	*28	*20
04 Jan 2025	*4	*24	*3	*63	*94	*26	*28	*20
05 Jan 2025	*4	*24	*3	*63	*94	*26	*28	*20
06 Jan 2025	*4	*24	*3	*63	*94	*26	*28	*20
07 Jan 2025	*4	*24	*3	*63	*94	*26	*28	*20
08 Jan 2025	4	23	2	58	69	25	26	13
09 Jan 2025	4	23	2	58	69	25	26	13
10 Jan 2025	*4	*20	*2	*50	*94	*26	*24	*11
11 Jan 2025	*4	*20	*2	*50	*94	*26	*24	*11
12 Jan 2025	*4	*20	*2	*50	*94	*26	*24	*11
13 Jan 2025	4	20	2	55	57	21	23	13
14 Jan 2025	4	20	2	55	57	21	23	13
15 Jan 2025	4	20	2	55	57	21	23	13
16 Jan 2025	4	20	2	55	57	21	23	13
17 Jan 2025	*3	*20	*2	*71	*34	*21	*24	*11
18 Jan 2025	*3	*20	*2	*71	*34	*21	*24	*11
19 Jan 2025	*3	*20	*2	*71	*34	*21	*24	*11
20 Jan 2025	*3	*20	*2	*71	*34	*21	*24	*11
21 Jan 2025	*3	*20	*2	*71	*34	*21	*24	*11
22 Jan 2025	3	13	2	35	19	16	26	8
23 Jan 2025	3	13	2	35	19	16	26	8
24 Jan 2025	3	13	2	35	19	16	26	8
25 Jan 2025	*3	*11	*2	*40	*16	*15	*28	*6
26 Jan 2025	*3	*11	*2	*40	*16	*15	*28	*6
27 Jan 2025	*3	*11	*2	*40	*16	*15	*28	*6
28 Jan 2025	*3	*11	*2	*40	*16	*15	*28	*6
29 Jan 2025	3	8	2	30	11	18	32	7
30 Jan 2025	3	8	2	30	11	18	32	7
31 Jan 2025	3	8	2	30	11	18	32	7

* 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-B	D9	D10	D11	D12
02 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
13 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Jan 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-B	D9	D10	D11	D12
02 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
08 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
13 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
29 Jan 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	02 Jan 2025	840	60e	12e	22e
D10	08 Jan 2025	911	<20	2e	2e
D10	13 Jan 2025	904	8e	8e	<2
D10	22 Jan 2025	853	6e	<2	<2
D10	29 Jan 2025	1007	34e	18e	<2
D11	02 Jan 2025	831	40e	28e	14e
D11	08 Jan 2025	858	<20	22e	20e
D11	13 Jan 2025	849	20e	16e	24e
D11	22 Jan 2025	844	36e	16e	2e
D11	29 Jan 2025	949	56	4e	8e
D12	02 Jan 2025	815	<20	4e	2e
D12	08 Jan 2025	837	2e	2e	<2
D12	13 Jan 2025	824	20e	16e	<2
D12	22 Jan 2025	828	2e	<20	<2
D12	29 Jan 2025	930	14e	4e	2e
D4	02 Jan 2025	1008	4e	<2	<2
D4	08 Jan 2025	1034	4e	2e	<2
D4	13 Jan 2025	1024	2e	2e	<2
D4	22 Jan 2025	1025	<2	<2	<2
D4	29 Jan 2025	1112	2e	<2	<2
D5	02 Jan 2025	958	<20	2e	<2
D5	08 Jan 2025	1056	<20	<2	<2
D5	13 Jan 2025	1037	20e	<2	<2
D5	22 Jan 2025	1016	2e	<2	<2
D5	29 Jan 2025	1124	<2	<2	<2
D7	02 Jan 2025	922	<2	<2	<2
D7	08 Jan 2025	955	<2	<2	<2
D7	13 Jan 2025	944	<2	<2	<2
D7	22 Jan 2025	937	<2	<2	<2
D7	29 Jan 2025	1047	4e	2e	8e
D8-B	02 Jan 2025	902	400e	74	<20
D8-B	08 Jan 2025	941	40e	8e	4e
D8-B	13 Jan 2025	930	80e	6e	4e
D8-B	22 Jan 2025	923	2e	<2	<2
D8-B	29 Jan 2025	1032	10e	4e	6e
D9	02 Jan 2025	859	<200	6e	<20
D9	08 Jan 2025	925	<20	<2	2e
D9	13 Jan 2025	919	8e	<2	<2
D9	22 Jan 2025	914	<2	<2	<2
D9	29 Jan 2025	1020	2e	<2	<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	02 Jan 2025	Arrive Time	1008
D4	02 Jan 2025	Wind Speed (kts)	0
D4	02 Jan 2025	Wind Dir	E
D4	02 Jan 2025	Animal Life	
D4	02 Jan 2025	Floatables	None
D4	02 Jan 2025	Current Direction	E
D4	02 Jan 2025	Water Temp (C)	11.2
D4	02 Jan 2025	High Tide Time	
D4	02 Jan 2025	Low Tide Time	
D4	02 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris;Algae
D4	08 Jan 2025	Arrive Time	1034
D4	08 Jan 2025	Wind Speed (kts)	4.6
D4	08 Jan 2025	Wind Dir	NW
D4	08 Jan 2025	Animal Life	
D4	08 Jan 2025	Floatables	None
D4	08 Jan 2025	Current Direction	S
D4	08 Jan 2025	Water Temp (C)	12.8
D4	08 Jan 2025	High Tide Time	
D4	08 Jan 2025	Low Tide Time	
D4	08 Jan 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae
D4	13 Jan 2025	Arrive Time	1024
D4	13 Jan 2025	Wind Speed (kts)	0
D4	13 Jan 2025	Wind Dir	E
D4	13 Jan 2025	Animal Life	
D4	13 Jan 2025	Floatables	None
D4	13 Jan 2025	Current Direction	S
D4	13 Jan 2025	Water Temp (C)	12.2
D4	13 Jan 2025	High Tide Time	
D4	13 Jan 2025	Low Tide Time	
D4	13 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-4; Algae;Sea-grass
D4	22 Jan 2025	Arrive Time	1025
D4	22 Jan 2025	Wind Speed (kts)	1.5
D4	22 Jan 2025	Wind Dir	W
D4	22 Jan 2025	Animal Life	
D4	22 Jan 2025	Floatables	None
D4	22 Jan 2025	Current Direction	S
D4	22 Jan 2025	Water Temp (C)	10.5
D4	22 Jan 2025	High Tide Time	
D4	22 Jan 2025	Low Tide Time	
D4	22 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D4	29 Jan 2025	Arrive Time	1112
D4	29 Jan 2025	Wind Speed (kts)	0.6
D4	29 Jan 2025	Wind Dir	SW
D4	29 Jan 2025	Animal Life	
D4	29 Jan 2025	Floatables	None
D4	29 Jan 2025	Current Direction	S
D4	29 Jan 2025	Water Temp (C)	13.7
D4	29 Jan 2025	High Tide Time	
D4	29 Jan 2025	Low Tide Time	
D4	29 Jan 2025	Comments	Water clear; Trash-5; Algae;Debris

Station	Date	Parameter	Value
D5	02 Jan 2025	Arrive Time	958
D5	02 Jan 2025	Wind Speed (kts)	1.9
D5	02 Jan 2025	Wind Dir	SW
D5	02 Jan 2025	Animal Life	
D5	02 Jan 2025	Floatables	None
D5	02 Jan 2025	Current Direction	E
D5	02 Jan 2025	Water Temp (C)	12.6
D5	02 Jan 2025	High Tide Time	
D5	02 Jan 2025	Low Tide Time	
D5	02 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D5	08 Jan 2025	Arrive Time	1046
D5	08 Jan 2025	Wind Speed (kts)	7.8
D5	08 Jan 2025	Wind Dir	W
D5	08 Jan 2025	Animal Life	
D5	08 Jan 2025	Floatables	None
D5	08 Jan 2025	Current Direction	S
D5	08 Jan 2025	Water Temp (C)	12.9
D5	08 Jan 2025	High Tide Time	
D5	08 Jan 2025	Low Tide Time	
D5	08 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	13 Jan 2025	Arrive Time	1037
D5	13 Jan 2025	Wind Speed (kts)	3.7
D5	13 Jan 2025	Wind Dir	NW
D5	13 Jan 2025	Animal Life	Bird-2;
D5	13 Jan 2025	Floatables	None
D5	13 Jan 2025	Current Direction	S
D5	13 Jan 2025	Water Temp (C)	11.5
D5	13 Jan 2025	High Tide Time	
D5	13 Jan 2025	Low Tide Time	
D5	13 Jan 2025	Comments	Water clear; Trash-2; Algae
D5	22 Jan 2025	Arrive Time	1016
D5	22 Jan 2025	Wind Speed (kts)	0
D5	22 Jan 2025	Wind Dir	XX
D5	22 Jan 2025	Animal Life	
D5	22 Jan 2025	Floatables	None
D5	22 Jan 2025	Current Direction	S
D5	22 Jan 2025	Water Temp (C)	12.9
D5	22 Jan 2025	High Tide Time	
D5	22 Jan 2025	Low Tide Time	
D5	22 Jan 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
D5	29 Jan 2025	Arrive Time	1124
D5	29 Jan 2025	Wind Speed (kts)	0
D5	29 Jan 2025	Wind Dir	SW
D5	29 Jan 2025	Animal Life	
D5	29 Jan 2025	Floatables	None
D5	29 Jan 2025	Current Direction	S
D5	29 Jan 2025	Water Temp (C)	14.4
D5	29 Jan 2025	High Tide Time	
D5	29 Jan 2025	Low Tide Time	
D5	29 Jan 2025	Comments	Water clear; Trash-1
D7	02 Jan 2025	Arrive Time	922
D7	02 Jan 2025	Wind Speed (kts)	0
D7	02 Jan 2025	Wind Dir	SW
D7	02 Jan 2025	Animal Life	
D7	02 Jan 2025	Floatables	None
D7	02 Jan 2025	Current Direction	E

Station	Date	Parameter	Value
D7	02 Jan 2025	Water Temp (C)	10.4
D7	02 Jan 2025	High Tide Time	
D7	02 Jan 2025	Low Tide Time	
D7	02 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-1
D7	08 Jan 2025	Arrive Time	955
D7	08 Jan 2025	Wind Speed (kts)	0
D7	08 Jan 2025	Wind Dir	XX
D7	08 Jan 2025	Animal Life	
D7	08 Jan 2025	Floatables	None
D7	08 Jan 2025	Current Direction	S
D7	08 Jan 2025	Water Temp (C)	12.8
D7	08 Jan 2025	High Tide Time	
D7	08 Jan 2025	Low Tide Time	
D7	08 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-8; Trash-1; Kelp;Seagrass;Algae
D7	13 Jan 2025	Arrive Time	944
D7	13 Jan 2025	Wind Speed (kts)	0
D7	13 Jan 2025	Wind Dir	E
D7	13 Jan 2025	Animal Life	
D7	13 Jan 2025	Floatables	None
D7	13 Jan 2025	Current Direction	S
D7	13 Jan 2025	Water Temp (C)	11.7
D7	13 Jan 2025	High Tide Time	
D7	13 Jan 2025	Low Tide Time	
D7	13 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Algae; Person/Walker/Jogger-1
D7	22 Jan 2025	Arrive Time	937
D7	22 Jan 2025	Wind Speed (kts)	0
D7	22 Jan 2025	Wind Dir	XX
D7	22 Jan 2025	Animal Life	
D7	22 Jan 2025	Floatables	None
D7	22 Jan 2025	Current Direction	S
D7	22 Jan 2025	Water Temp (C)	12
D7	22 Jan 2025	High Tide Time	
D7	22 Jan 2025	Low Tide Time	
D7	22 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-10; Trash-1; Kelp;Algae;Seagrass
D7	29 Jan 2025	Arrive Time	1047
D7	29 Jan 2025	Wind Speed (kts)	0.3
D7	29 Jan 2025	Wind Dir	SW
D7	29 Jan 2025	Animal Life	Flies-50;
D7	29 Jan 2025	Floatables	None
D7	29 Jan 2025	Current Direction	S
D7	29 Jan 2025	Water Temp (C)	13.3
D7	29 Jan 2025	High Tide Time	
D7	29 Jan 2025	Low Tide Time	
D7	29 Jan 2025	Comments	Water clear; Trash-1; Algae
D8-B	02 Jan 2025	Arrive Time	908
D8-B	02 Jan 2025	Wind Speed (kts)	0
D8-B	02 Jan 2025	Wind Dir	SW
D8-B	02 Jan 2025	Animal Life	
D8-B	02 Jan 2025	Floatables	None
D8-B	02 Jan 2025	Current Direction	E
D8-B	02 Jan 2025	Water Temp (C)	11.3
D8-B	02 Jan 2025	High Tide Time	

Station	Date	Parameter	Value
D8-B	02 Jan 2025	Low Tide Time	
D8-B	02 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D8-B	08 Jan 2025	Arrive Time	941
D8-B	08 Jan 2025	Wind Speed (kts)	2.2
D8-B	08 Jan 2025	Wind Dir	W
D8-B	08 Jan 2025	Animal Life	
D8-B	08 Jan 2025	Floatables	None
D8-B	08 Jan 2025	Current Direction	S
D8-B	08 Jan 2025	Water Temp (C)	11.4
D8-B	08 Jan 2025	High Tide Time	
D8-B	08 Jan 2025	Low Tide Time	
D8-B	08 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Kelp;Sea-grass;Algae
D8-B	13 Jan 2025	Arrive Time	930
D8-B	13 Jan 2025	Wind Speed (kts)	2.4
D8-B	13 Jan 2025	Wind Dir	E
D8-B	13 Jan 2025	Animal Life	
D8-B	13 Jan 2025	Floatables	None
D8-B	13 Jan 2025	Current Direction	S
D8-B	13 Jan 2025	Water Temp (C)	10.8
D8-B	13 Jan 2025	High Tide Time	
D8-B	13 Jan 2025	Low Tide Time	
D8-B	13 Jan 2025	Comments	Water clear; Trash-2
D8-B	22 Jan 2025	Arrive Time	923
D8-B	22 Jan 2025	Wind Speed (kts)	1.6
D8-B	22 Jan 2025	Wind Dir	W
D8-B	22 Jan 2025	Animal Life	
D8-B	22 Jan 2025	Floatables	None
D8-B	22 Jan 2025	Current Direction	S
D8-B	22 Jan 2025	Water Temp (C)	10.1
D8-B	22 Jan 2025	High Tide Time	
D8-B	22 Jan 2025	Low Tide Time	
D8-B	22 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-5; Trash-1; Kelp;Sea-grass;Algae
D8-B	29 Jan 2025	Arrive Time	1032
D8-B	29 Jan 2025	Wind Speed (kts)	2
D8-B	29 Jan 2025	Wind Dir	S
D8-B	29 Jan 2025	Animal Life	
D8-B	29 Jan 2025	Floatables	None
D8-B	29 Jan 2025	Current Direction	S
D8-B	29 Jan 2025	Water Temp (C)	13.5
D8-B	29 Jan 2025	High Tide Time	
D8-B	29 Jan 2025	Low Tide Time	
D8-B	29 Jan 2025	Comments	Water clear; Trash-3; Seagrass;Debris
D9	02 Jan 2025	Arrive Time	859
D9	02 Jan 2025	Wind Speed (kts)	1.3
D9	02 Jan 2025	Wind Dir	SW
D9	02 Jan 2025	Animal Life	
D9	02 Jan 2025	Floatables	None
D9	02 Jan 2025	Current Direction	E
D9	02 Jan 2025	Water Temp (C)	10.1
D9	02 Jan 2025	High Tide Time	
D9	02 Jan 2025	Low Tide Time	
D9	02 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Per-son/Walker/Jogger-1

Station	Date	Parameter	Value
D9	08 Jan 2025	Arrive Time	929
D9	08 Jan 2025	Wind Speed (kts)	1.9
D9	08 Jan 2025	Wind Dir	W
D9	08 Jan 2025	Animal Life	
D9	08 Jan 2025	Floatables	None
D9	08 Jan 2025	Current Direction	S
D9	08 Jan 2025	Water Temp (C)	12.4
D9	08 Jan 2025	High Tide Time	
D9	08 Jan 2025	Low Tide Time	
D9	08 Jan 2025	Comments	Water clear; Trash-1; Seagrass;Algae;Kelp
D9	13 Jan 2025	Arrive Time	919
D9	13 Jan 2025	Wind Speed (kts)	0
D9	13 Jan 2025	Wind Dir	E
D9	13 Jan 2025	Animal Life	
D9	13 Jan 2025	Floatables	None
D9	13 Jan 2025	Current Direction	S
D9	13 Jan 2025	Water Temp (C)	11.8
D9	13 Jan 2025	High Tide Time	
D9	13 Jan 2025	Low Tide Time	
D9	13 Jan 2025	Comments	Water clear; Trash-3; Algae
D9	22 Jan 2025	Arrive Time	914
D9	22 Jan 2025	Wind Speed (kts)	0.5
D9	22 Jan 2025	Wind Dir	W
D9	22 Jan 2025	Animal Life	
D9	22 Jan 2025	Floatables	None
D9	22 Jan 2025	Current Direction	S
D9	22 Jan 2025	Water Temp (C)	9.8
D9	22 Jan 2025	High Tide Time	
D9	22 Jan 2025	Low Tide Time	
D9	22 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D9	29 Jan 2025	Arrive Time	1020
D9	29 Jan 2025	Wind Speed (kts)	2.3
D9	29 Jan 2025	Wind Dir	S
D9	29 Jan 2025	Animal Life	
D9	29 Jan 2025	Floatables	None
D9	29 Jan 2025	Current Direction	S
D9	29 Jan 2025	Water Temp (C)	13.8
D9	29 Jan 2025	High Tide Time	
D9	29 Jan 2025	Low Tide Time	
D9	29 Jan 2025	Comments	Water clear; Boogie boarder/Swimmer-1; Trash-1; Algae
D10	02 Jan 2025	Arrive Time	840
D10	02 Jan 2025	Wind Speed (kts)	0.1
D10	02 Jan 2025	Wind Dir	SW
D10	02 Jan 2025	Animal Life	
D10	02 Jan 2025	Floatables	None
D10	02 Jan 2025	Current Direction	E
D10	02 Jan 2025	Water Temp (C)	10.9
D10	02 Jan 2025	High Tide Time	
D10	02 Jan 2025	Low Tide Time	
D10	02 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Kelp;Sea-grass;Debris; Person/Walker/Jogger-2
D10	08 Jan 2025	Arrive Time	911
D10	08 Jan 2025	Wind Speed (kts)	5.9
D10	08 Jan 2025	Wind Dir	W
D10	08 Jan 2025	Animal Life	
D10	08 Jan 2025	Floatables	None

Station	Date	Parameter	Value
D10	08 Jan 2025	Current Direction	S
D10	08 Jan 2025	Water Temp (C)	12.7
D10	08 Jan 2025	High Tide Time	
D10	08 Jan 2025	Low Tide Time	
D10	08 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
D10	13 Jan 2025	Arrive Time	904
D10	13 Jan 2025	Wind Speed (kts)	1.2
D10	13 Jan 2025	Wind Dir	NW
D10	13 Jan 2025	Animal Life	
D10	13 Jan 2025	Floatables	None
D10	13 Jan 2025	Current Direction	S
D10	13 Jan 2025	Water Temp (C)	10.9
D10	13 Jan 2025	High Tide Time	
D10	13 Jan 2025	Low Tide Time	
D10	13 Jan 2025	Comments	Water clear; Trash-1; Person/Walker/Jogger-1
D10	22 Jan 2025	Arrive Time	853
D10	22 Jan 2025	Wind Speed (kts)	0.5
D10	22 Jan 2025	Wind Dir	W
D10	22 Jan 2025	Animal Life	
D10	22 Jan 2025	Floatables	None
D10	22 Jan 2025	Current Direction	S
D10	22 Jan 2025	Water Temp (C)	10.1
D10	22 Jan 2025	High Tide Time	
D10	22 Jan 2025	Low Tide Time	
D10	22 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-8; Trash-1; Kelp;Sea-grass;Algae
D10	29 Jan 2025	Arrive Time	1007
D10	29 Jan 2025	Wind Speed (kts)	1.9
D10	29 Jan 2025	Wind Dir	S
D10	29 Jan 2025	Animal Life	Bird-35;
D10	29 Jan 2025	Floatables	None
D10	29 Jan 2025	Current Direction	S
D10	29 Jan 2025	Water Temp (C)	14.1
D10	29 Jan 2025	High Tide Time	
D10	29 Jan 2025	Low Tide Time	
D10	29 Jan 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-2
D11	02 Jan 2025	Arrive Time	831
D11	02 Jan 2025	Wind Speed (kts)	1.7
D11	02 Jan 2025	Wind Dir	W
D11	02 Jan 2025	Animal Life	
D11	02 Jan 2025	Floatables	None
D11	02 Jan 2025	Current Direction	E
D11	02 Jan 2025	Water Temp (C)	11.5
D11	02 Jan 2025	High Tide Time	
D11	02 Jan 2025	Low Tide Time	
D11	02 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Sea-grass;Algae;Debris; Person/Walker/Jogger-4
D11	08 Jan 2025	Arrive Time	858
D11	08 Jan 2025	Wind Speed (kts)	3.5
D11	08 Jan 2025	Wind Dir	NW
D11	08 Jan 2025	Animal Life	Dog-2;
D11	08 Jan 2025	Floatables	None
D11	08 Jan 2025	Current Direction	S
D11	08 Jan 2025	Water Temp (C)	11.4
D11	08 Jan 2025	High Tide Time	

Station	Date	Parameter	Value
D11	08 Jan 2025	Low Tide Time	
D11	08 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-5
D11	13 Jan 2025	Arrive Time	849
D11	13 Jan 2025	Wind Speed (kts)	3
D11	13 Jan 2025	Wind Dir	E
D11	13 Jan 2025	Animal Life	
D11	13 Jan 2025	Floatables	None
D11	13 Jan 2025	Current Direction	S
D11	13 Jan 2025	Water Temp (C)	12.3
D11	13 Jan 2025	High Tide Time	
D11	13 Jan 2025	Low Tide Time	
D11	13 Jan 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
D11	22 Jan 2025	Arrive Time	844
D11	22 Jan 2025	Wind Speed (kts)	3.4
D11	22 Jan 2025	Wind Dir	NW
D11	22 Jan 2025	Animal Life	
D11	22 Jan 2025	Floatables	None
D11	22 Jan 2025	Current Direction	S
D11	22 Jan 2025	Water Temp (C)	11.4
D11	22 Jan 2025	High Tide Time	
D11	22 Jan 2025	Low Tide Time	
D11	22 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-5; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
D11	29 Jan 2025	Arrive Time	949
D11	29 Jan 2025	Wind Speed (kts)	2.6
D11	29 Jan 2025	Wind Dir	S
D11	29 Jan 2025	Animal Life	Bird-1;
D11	29 Jan 2025	Floatables	None
D11	29 Jan 2025	Current Direction	S
D11	29 Jan 2025	Water Temp (C)	14.8
D11	29 Jan 2025	High Tide Time	
D11	29 Jan 2025	Low Tide Time	
D11	29 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-4; Trash-2; Kelp;Seagrass;Debris
D12	02 Jan 2025	Arrive Time	815
D12	02 Jan 2025	Wind Speed (kts)	0
D12	02 Jan 2025	Wind Dir	XX
D12	02 Jan 2025	Animal Life	Dog-1;
D12	02 Jan 2025	Floatables	None
D12	02 Jan 2025	Current Direction	E
D12	02 Jan 2025	Water Temp (C)	12.3
D12	02 Jan 2025	High Tide Time	
D12	02 Jan 2025	Low Tide Time	
D12	02 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-1
D12	08 Jan 2025	Arrive Time	837
D12	08 Jan 2025	Wind Speed (kts)	4.6
D12	08 Jan 2025	Wind Dir	W
D12	08 Jan 2025	Animal Life	
D12	08 Jan 2025	Floatables	None
D12	08 Jan 2025	Current Direction	S
D12	08 Jan 2025	Water Temp (C)	12
D12	08 Jan 2025	High Tide Time	
D12	08 Jan 2025	Low Tide Time	
D12	08 Jan 2025	Comments	Water clear; Trash-1; Kelp;Seagrass

Station	Date	Parameter	Value
D12	13 Jan 2025	Arrive Time	824
D12	13 Jan 2025	Wind Speed (kts)	3.3
D12	13 Jan 2025	Wind Dir	NW
D12	13 Jan 2025	Animal Life	
D12	13 Jan 2025	Floatables	None
D12	13 Jan 2025	Current Direction	S
D12	13 Jan 2025	Water Temp (C)	12.1
D12	13 Jan 2025	High Tide Time	
D12	13 Jan 2025	Low Tide Time	
D12	13 Jan 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
D12	22 Jan 2025	Arrive Time	828
D12	22 Jan 2025	Wind Speed (kts)	1.1
D12	22 Jan 2025	Wind Dir	W
D12	22 Jan 2025	Animal Life	
D12	22 Jan 2025	Floatables	None
D12	22 Jan 2025	Current Direction	S
D12	22 Jan 2025	Water Temp (C)	11.6
D12	22 Jan 2025	High Tide Time	
D12	22 Jan 2025	Low Tide Time	
D12	22 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Sea-grass; Person/Walker/Jogger-5
D12	29 Jan 2025	Arrive Time	930
D12	29 Jan 2025	Wind Speed (kts)	2.8
D12	29 Jan 2025	Wind Dir	S
D12	29 Jan 2025	Animal Life	Bird-2;
D12	29 Jan 2025	Floatables	None
D12	29 Jan 2025	Current Direction	S
D12	29 Jan 2025	Water Temp (C)	15.5
D12	29 Jan 2025	High Tide Time	
D12	29 Jan 2025	Low Tide Time	
D12	29 Jan 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-3; Kelp;Sea-grass;Debris; Person/Walker/Jogger-6

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

* Geometric mean calculated using n<5

Table 3.2

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

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

* Geometric mean calculated using n<5

Table 3.4

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
06 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
14 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
21 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
28 Jan 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 Jan 2025	*8	*10	*13	*3	*2	*2	*3	*9
02 Jan 2025	*8	*10	*13	*3	*2	*2	*3	*9
03 Jan 2025	*8	*10	*13	*3	*2	*2	*3	*9
04 Jan 2025	*8	*10	*13	*3	*2	*2	*3	*9
05 Jan 2025	*8	*10	*13	*3	*2	*2	*3	*9
06 Jan 2025	7	10	10	3	2	3	5	8
07 Jan 2025	7	10	10	3	2	3	5	8
08 Jan 2025	7	10	10	3	2	3	5	8
09 Jan 2025	7	10	10	3	2	3	5	8
10 Jan 2025	*9	*15	*15	*3	*3	*3	*6	*7
11 Jan 2025	*9	*15	*15	*3	*3	*3	*6	*7
12 Jan 2025	*9	*15	*15	*3	*3	*3	*6	*7
13 Jan 2025	*9	*15	*15	*3	*3	*3	*6	*7
14 Jan 2025	7	13	18	3	2	3	8	7
15 Jan 2025	7	13	18	3	2	3	8	7
16 Jan 2025	*6	*12	*17	*3	*3	*2	*11	*5
17 Jan 2025	*6	*12	*17	*3	*3	*2	*11	*5
18 Jan 2025	*6	*12	*17	*3	*3	*2	*11	*5
19 Jan 2025	*6	*12	*17	*3	*3	*2	*11	*5
20 Jan 2025	*6	*12	*17	*3	*3	*2	*11	*5
21 Jan 2025	9	16	20	3	3	2	12	5
22 Jan 2025	9	16	20	3	3	2	12	5
23 Jan 2025	9	16	20	3	3	2	12	5
24 Jan 2025	9	16	20	3	3	2	12	5
25 Jan 2025	*11	*23	*24	*3	*3	*2	*12	*5
26 Jan 2025	*11	*23	*24	*3	*3	*2	*12	*5
27 Jan 2025	*11	*23	*24	*3	*3	*2	*12	*5
28 Jan 2025	8	14	15	3	3	2	10	5
29 Jan 2025	*6	*9	*10	*3	*3	*2	*13	*6
30 Jan 2025	*6	*9	*10	*3	*3	*2	*13	*6
31 Jan 2025	*6	*9	*10	*3	*3	*2	*13	*6

- 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 400 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
06 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
14 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
21 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
28 Jan 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
06 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
14 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
21 Jan 2025	IC	IC	IC	IC	IC	IC	IC	IC
28 Jan 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	06 Jan 2025	749	1	6e	<2	<2
A1	06 Jan 2025	749	12	<2	<2	<2
A1	06 Jan 2025	749	18	4e	2e	<2
A1	14 Jan 2025	746	1	<2	<2	<2
A1	14 Jan 2025	746	12	4e	<2	<2
A1	14 Jan 2025	746	18	2e	<2	<2
A1	21 Jan 2025	832	1	12e	<2	<2
A1	21 Jan 2025	832	12	34e	14e	2e
A1	21 Jan 2025	832	18	100e	16e	<2
A1	28 Jan 2025	739	1	2e	<2	<2
A1	28 Jan 2025	739	12	2e	<2	<2
A1	28 Jan 2025	739	18	4e	<2	<2
A6	06 Jan 2025	819	1	<2	<2	<2
A6	06 Jan 2025	819	12	8e	<2	<2
A6	06 Jan 2025	819	18	24e	2e	<2
A6	14 Jan 2025	832	1	4e	<2	<2
A6	14 Jan 2025	832	12	<2	<2	<2
A6	14 Jan 2025	832	18	16e	<2	<2
A6	21 Jan 2025	853	1	2e	<2	<2
A6	21 Jan 2025	853	12	34e	12e	2e
A6	21 Jan 2025	853	18	110	18e	<2
A6	28 Jan 2025	801	1	2e	<2	<2
A6	28 Jan 2025	801	12	2e	<2	<2
A6	28 Jan 2025	801	18	<2	<2	<2
A7	06 Jan 2025	807	1	<2	<2	<2
A7	06 Jan 2025	807	12	<2	<2	<2
A7	06 Jan 2025	807	18	6e	4e	<2
A7	14 Jan 2025	821	1	2e	<2	<2
A7	14 Jan 2025	821	12	28e	8e	<2
A7	14 Jan 2025	821	18	80e	12e	2e
A7	21 Jan 2025	843	1	2e	<2	<2
A7	21 Jan 2025	843	12	10e	2e	<2
A7	21 Jan 2025	843	18	120e	28e	<2
A7	28 Jan 2025	751	1	<2	<2	<2
A7	28 Jan 2025	751	12	2e	2e	<2
A7	28 Jan 2025	751	18	2e	<2	<2
C4	06 Jan 2025	945	1	<2	<2	<2
C4	06 Jan 2025	945	3	<2	<2	<2
C4	06 Jan 2025	945	9	2e	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
C4	14 Jan 2025	933	1	<2	<2	<2
C4	14 Jan 2025	933	3	<2	<2	<2
C4	14 Jan 2025	933	9	6e	<2	<2
C4	21 Jan 2025	957	1	<2	<2	<2
C4	21 Jan 2025	957	3	<2	<2	2e
C4	21 Jan 2025	957	9	10e	2e	<2
C4	28 Jan 2025	901	1	<2	<2	<2
C4	28 Jan 2025	901	3	2e	<2	<2
C4	28 Jan 2025	901	9	2e	<2	<2
C5	06 Jan 2025	934	1	<2	<2	<2
C5	06 Jan 2025	934	3	<2	<2	<2
C5	06 Jan 2025	934	9	6e	<2	<2
C5	14 Jan 2025	924	1	<2	<2	<2
C5	14 Jan 2025	924	3	<2	<2	<2
C5	14 Jan 2025	924	9	<2	<2	<2
C5	21 Jan 2025	948	1	<2	<2	<2
C5	21 Jan 2025	948	3	<2	<2	<2
C5	21 Jan 2025	948	9	12e	<2	<2
C5	28 Jan 2025	851	1	4e	<2	<2
C5	28 Jan 2025	851	3	<2	<2	<2
C5	28 Jan 2025	851	9	<2	<2	<2
C6	06 Jan 2025	923	1	<2	<2	<2
C6	06 Jan 2025	923	3	2e	<2	<2
C6	06 Jan 2025	923	9	10e	2e	<2
C6	14 Jan 2025	918	1	2e	<2	<2
C6	14 Jan 2025	918	3	<2	<2	<2
C6	14 Jan 2025	918	9	<2	<2	<2
C6	21 Jan 2025	939	1	<2	<2	<2
C6	21 Jan 2025	939	3	<2	<2	<2
C6	21 Jan 2025	939	9	2e	<2	<2
C6	28 Jan 2025	838	1	<2	<2	<2
C6	28 Jan 2025	838	3	<2	<2	<2
C6	28 Jan 2025	838	9	<2	<2	<2
C7	06 Jan 2025	854	1	<2	<2	<2
C7	06 Jan 2025	854	12	16e	<2	<2
C7	06 Jan 2025	854	18	50	4e	<2
C7	14 Jan 2025	844	1	4e	<2	<2
C7	14 Jan 2025	844	12	8e	<2	<2
C7	14 Jan 2025	844	18	40	4e	<2
C7	21 Jan 2025	908	1	<2	<2	<2
C7	21 Jan 2025	908	12	12e	<2	4e
C7	21 Jan 2025	908	18	36e	10e	2e
C7	28 Jan 2025	813	1	<2	<2	<2
C7	28 Jan 2025	813	12	4e	<2	<2
C7	28 Jan 2025	813	18	6e	<2	4e

Station	Date	Time	Depth	Total	Fecal	Entero
C8	06 Jan 2025	905	1	<2	<2	<2
C8	06 Jan 2025	905	12	2e	<2	<2
C8	06 Jan 2025	905	18	6e	<2	<2
C8	14 Jan 2025	855	1	4e	<2	<2
C8	14 Jan 2025	855	12	4e	<2	<2
C8	14 Jan 2025	855	18	16e	<2	<2
C8	21 Jan 2025	920	1	<2	<2	<2
C8	21 Jan 2025	920	12	4e	<2	<2
C8	21 Jan 2025	920	18	20e	<2	<2
C8	28 Jan 2025	824	1	2e	<2	2e
C8	28 Jan 2025	824	12	10e	<2	2e
C8	28 Jan 2025	824	18	6e	2e	4e

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	06 Jan 2025	Arrive Time	749
A1	06 Jan 2025	Depart Time	759
A1	06 Jan 2025	Air Temp (C)	13.4
A1	06 Jan 2025	Visibility (mi)	7
A1	06 Jan 2025	Wind Speed (kts)	4.4
A1	06 Jan 2025	Wind Dir	E
A1	06 Jan 2025	Sea State	Confused Swell
A1	06 Jan 2025	High Tide Time	212
A1	06 Jan 2025	Low Tide Time	1959
A1	06 Jan 2025	Comments	Kelp; Lobster Floats
A1	14 Jan 2025	Arrive Time	746
A1	14 Jan 2025	Depart Time	751
A1	14 Jan 2025	Air Temp (C)	12.4
A1	14 Jan 2025	Visibility (mi)	10
A1	14 Jan 2025	Wind Speed (kts)	2.7
A1	14 Jan 2025	Wind Dir	NW
A1	14 Jan 2025	Sea State	Calm
A1	14 Jan 2025	High Tide Time	846
A1	14 Jan 2025	Low Tide Time	1558
A1	14 Jan 2025	Comments	Lobster Floats
A1	21 Jan 2025	Arrive Time	832
A1	21 Jan 2025	Depart Time	835
A1	21 Jan 2025	Air Temp (C)	11.7
A1	21 Jan 2025	Visibility (mi)	10
A1	21 Jan 2025	Wind Speed (kts)	3.9
A1	21 Jan 2025	Wind Dir	E
A1	21 Jan 2025	Sea State	Regular Swell
A1	21 Jan 2025	High Tide Time	204
A1	21 Jan 2025	Low Tide Time	928
A1	21 Jan 2025	Comments	Kelp; Kelp Debris
A1	28 Jan 2025	Arrive Time	739
A1	28 Jan 2025	Depart Time	748
A1	28 Jan 2025	Air Temp (C)	9.1
A1	28 Jan 2025	Visibility (mi)	10
A1	28 Jan 2025	Wind Speed (kts)	7.6
A1	28 Jan 2025	Wind Dir	E
A1	28 Jan 2025	Sea State	Light Chop
A1	28 Jan 2025	High Tide Time	752
A1	28 Jan 2025	Low Tide Time	1510
A1	28 Jan 2025	Comments	Kelp; Lobster Floats
C4	06 Jan 2025	Arrive Time	945
C4	06 Jan 2025	Depart Time	948
C4	06 Jan 2025	Air Temp (C)	14.3
C4	06 Jan 2025	Visibility (mi)	7
C4	06 Jan 2025	Wind Speed (kts)	2.2
C4	06 Jan 2025	Wind Dir	N
C4	06 Jan 2025	Sea State	Confused Swell
C4	06 Jan 2025	High Tide Time	212
C4	06 Jan 2025	Low Tide Time	1959
C4	06 Jan 2025	Comments	
C4	14 Jan 2025	Arrive Time	933

Station	Date	Parameter	Value
C4	14 Jan 2025	Depart Time	937
C4	14 Jan 2025	Air Temp (C)	13.6
C4	14 Jan 2025	Visibility (mi)	10
C4	14 Jan 2025	Wind Speed (kts)	1.6
C4	14 Jan 2025	Wind Dir	W
C4	14 Jan 2025	Sea State	Calm
C4	14 Jan 2025	High Tide Time	846
C4	14 Jan 2025	Low Tide Time	1558
C4	14 Jan 2025	Comments	Kelp; Kelp Debris; Lobster Floats
C4	21 Jan 2025	Arrive Time	957
C4	21 Jan 2025	Depart Time	1016
C4	21 Jan 2025	Air Temp (C)	13.9
C4	21 Jan 2025	Visibility (mi)	10
C4	21 Jan 2025	Wind Speed (kts)	0
C4	21 Jan 2025	Wind Dir	E
C4	21 Jan 2025	Sea State	Regular Swell
C4	21 Jan 2025	High Tide Time	204
C4	21 Jan 2025	Low Tide Time	928
C4	21 Jan 2025	Comments	Seagrass; Lobster Floats
C4	28 Jan 2025	Arrive Time	901
C4	28 Jan 2025	Depart Time	905
C4	28 Jan 2025	Air Temp (C)	10.1
C4	28 Jan 2025	Visibility (mi)	10
C4	28 Jan 2025	Wind Speed (kts)	2.8
C4	28 Jan 2025	Wind Dir	E
C4	28 Jan 2025	Sea State	Regular Swell
C4	28 Jan 2025	High Tide Time	752
C4	28 Jan 2025	Low Tide Time	1510
C4	28 Jan 2025	Comments	Kelp Debris; Lobster Floats
A7	06 Jan 2025	Arrive Time	807
A7	06 Jan 2025	Depart Time	812
A7	06 Jan 2025	Air Temp (C)	13.8
A7	06 Jan 2025	Visibility (mi)	7
A7	06 Jan 2025	Wind Speed (kts)	0
A7	06 Jan 2025	Wind Dir	N
A7	06 Jan 2025	Sea State	Confused Swell
A7	06 Jan 2025	High Tide Time	212
A7	06 Jan 2025	Low Tide Time	1959
A7	06 Jan 2025	Comments	Kelp; Lobster Floats
A7	14 Jan 2025	Arrive Time	821
A7	14 Jan 2025	Depart Time	825
A7	14 Jan 2025	Air Temp (C)	13.2
A7	14 Jan 2025	Visibility (mi)	10
A7	14 Jan 2025	Wind Speed (kts)	2.9
A7	14 Jan 2025	Wind Dir	SW
A7	14 Jan 2025	Sea State	Calm
A7	14 Jan 2025	High Tide Time	846
A7	14 Jan 2025	Low Tide Time	1558
A7	14 Jan 2025	Comments	Lobster Floats
A7	21 Jan 2025	Arrive Time	843
A7	21 Jan 2025	Depart Time	848
A7	21 Jan 2025	Air Temp (C)	12
A7	21 Jan 2025	Visibility (mi)	10
A7	21 Jan 2025	Wind Speed (kts)	3.7
A7	21 Jan 2025	Wind Dir	E
A7	21 Jan 2025	Sea State	Regular Swell

Station	Date	Parameter	Value
A7	21 Jan 2025	High Tide Time	204
A7	21 Jan 2025	Low Tide Time	928
A7	21 Jan 2025	Comments	Lobster Floats
A7	28 Jan 2025	Arrive Time	751
A7	28 Jan 2025	Depart Time	756
A7	28 Jan 2025	Air Temp (C)	9.7
A7	28 Jan 2025	Visibility (mi)	10
A7	28 Jan 2025	Wind Speed (kts)	7.5
A7	28 Jan 2025	Wind Dir	E
A7	28 Jan 2025	Sea State	Regular Swell
A7	28 Jan 2025	High Tide Time	752
A7	28 Jan 2025	Low Tide Time	1510
A7	28 Jan 2025	Comments	Kelp; Lobster Floats
C5	06 Jan 2025	Arrive Time	934
C5	06 Jan 2025	Depart Time	938
C5	06 Jan 2025	Air Temp (C)	14.2
C5	06 Jan 2025	Visibility (mi)	7
C5	06 Jan 2025	Wind Speed (kts)	3.2
C5	06 Jan 2025	Wind Dir	N
C5	06 Jan 2025	Sea State	Confused Swell
C5	06 Jan 2025	High Tide Time	212
C5	06 Jan 2025	Low Tide Time	1959
C5	06 Jan 2025	Comments	Kelp Debris; Lobster Floats
C5	14 Jan 2025	Arrive Time	924
C5	14 Jan 2025	Depart Time	928
C5	14 Jan 2025	Air Temp (C)	13.1
C5	14 Jan 2025	Visibility (mi)	10
C5	14 Jan 2025	Wind Speed (kts)	2.2
C5	14 Jan 2025	Wind Dir	NW
C5	14 Jan 2025	Sea State	Calm
C5	14 Jan 2025	High Tide Time	846
C5	14 Jan 2025	Low Tide Time	1558
C5	14 Jan 2025	Comments	
C5	21 Jan 2025	Arrive Time	948
C5	21 Jan 2025	Depart Time	950
C5	21 Jan 2025	Air Temp (C)	13.8
C5	21 Jan 2025	Visibility (mi)	10
C5	21 Jan 2025	Wind Speed (kts)	0
C5	21 Jan 2025	Wind Dir	SE
C5	21 Jan 2025	Sea State	Regular Swell
C5	21 Jan 2025	High Tide Time	204
C5	21 Jan 2025	Low Tide Time	928
C5	21 Jan 2025	Comments	Lobster Floats
C5	28 Jan 2025	Arrive Time	851
C5	28 Jan 2025	Depart Time	856
C5	28 Jan 2025	Air Temp (C)	10.1
C5	28 Jan 2025	Visibility (mi)	10
C5	28 Jan 2025	Wind Speed (kts)	6.3
C5	28 Jan 2025	Wind Dir	NE
C5	28 Jan 2025	Sea State	Regular Swell
C5	28 Jan 2025	High Tide Time	752
C5	28 Jan 2025	Low Tide Time	1510
C5	28 Jan 2025	Comments	Lobster Floats
A6	06 Jan 2025	Arrive Time	819
A6	06 Jan 2025	Depart Time	843

Station	Date	Parameter	Value
A6	06 Jan 2025	Air Temp (C)	13.9
A6	06 Jan 2025	Visibility (mi)	7
A6	06 Jan 2025	Wind Speed (kts)	0
A6	06 Jan 2025	Wind Dir	E
A6	06 Jan 2025	Sea State	Confused Swell
A6	06 Jan 2025	High Tide Time	212
A6	06 Jan 2025	Low Tide Time	1959
A6	06 Jan 2025	Comments	Multiple casts required to get depth.; Kelp; Kelp Debris; Lobster Floats
A6	14 Jan 2025	Arrive Time	832
A6	14 Jan 2025	Depart Time	835
A6	14 Jan 2025	Air Temp (C)	13.2
A6	14 Jan 2025	Visibility (mi)	10
A6	14 Jan 2025	Wind Speed (kts)	2.7
A6	14 Jan 2025	Wind Dir	SW
A6	14 Jan 2025	Sea State	Calm
A6	14 Jan 2025	High Tide Time	846
A6	14 Jan 2025	Low Tide Time	1558
A6	14 Jan 2025	Comments	lobster floats
A6	21 Jan 2025	Arrive Time	853
A6	21 Jan 2025	Depart Time	856
A6	21 Jan 2025	Air Temp (C)	12.3
A6	21 Jan 2025	Visibility (mi)	10
A6	21 Jan 2025	Wind Speed (kts)	0
A6	21 Jan 2025	Wind Dir	N
A6	21 Jan 2025	Sea State	Regular Swell
A6	21 Jan 2025	High Tide Time	204
A6	21 Jan 2025	Low Tide Time	928
A6	21 Jan 2025	Comments	Kelp; Kelp Debris; Lobster Floats
A6	28 Jan 2025	Arrive Time	801
A6	28 Jan 2025	Depart Time	805
A6	28 Jan 2025	Air Temp (C)	9.6
A6	28 Jan 2025	Visibility (mi)	10
A6	28 Jan 2025	Wind Speed (kts)	6.6
A6	28 Jan 2025	Wind Dir	NE
A6	28 Jan 2025	Sea State	Regular Swell
A6	28 Jan 2025	High Tide Time	752
A6	28 Jan 2025	Low Tide Time	1510
A6	28 Jan 2025	Comments	
C6	06 Jan 2025	Arrive Time	923
C6	06 Jan 2025	Depart Time	928
C6	06 Jan 2025	Air Temp (C)	13.8
C6	06 Jan 2025	Visibility (mi)	7
C6	06 Jan 2025	Wind Speed (kts)	0
C6	06 Jan 2025	Wind Dir	NW
C6	06 Jan 2025	Sea State	Confused Swell
C6	06 Jan 2025	High Tide Time	212
C6	06 Jan 2025	Low Tide Time	1959
C6	06 Jan 2025	Comments	
C6	14 Jan 2025	Arrive Time	918
C6	14 Jan 2025	Depart Time	918
C6	14 Jan 2025	Air Temp (C)	12.5
C6	14 Jan 2025	Visibility (mi)	10
C6	14 Jan 2025	Wind Speed (kts)	2.1
C6	14 Jan 2025	Wind Dir	NE
C6	14 Jan 2025	Sea State	Calm

Station	Date	Parameter	Value
C6	14 Jan 2025	High Tide Time	846
C6	14 Jan 2025	Low Tide Time	1558
C6	14 Jan 2025	Comments	
C6	21 Jan 2025	Arrive Time	939
C6	21 Jan 2025	Depart Time	941
C6	21 Jan 2025	Air Temp (C)	14.2
C6	21 Jan 2025	Visibility (mi)	10
C6	21 Jan 2025	Wind Speed (kts)	1.6
C6	21 Jan 2025	Wind Dir	S
C6	21 Jan 2025	Sea State	Regular Swell
C6	21 Jan 2025	High Tide Time	204
C6	21 Jan 2025	Low Tide Time	928
C6	21 Jan 2025	Comments	Kelp Debris; Lobster Floats
C6	28 Jan 2025	Arrive Time	838
C6	28 Jan 2025	Depart Time	848
C6	28 Jan 2025	Air Temp (C)	10
C6	28 Jan 2025	Visibility (mi)	10
C6	28 Jan 2025	Wind Speed (kts)	8.3
C6	28 Jan 2025	Wind Dir	NE
C6	28 Jan 2025	Sea State	Regular Swell
C6	28 Jan 2025	High Tide Time	752
C6	28 Jan 2025	Low Tide Time	1510
C6	28 Jan 2025	Comments	
C7	06 Jan 2025	Arrive Time	854
C7	06 Jan 2025	Depart Time	857
C7	06 Jan 2025	Air Temp (C)	13.2
C7	06 Jan 2025	Visibility (mi)	7
C7	06 Jan 2025	Wind Speed (kts)	3.2
C7	06 Jan 2025	Wind Dir	SE
C7	06 Jan 2025	Sea State	Confused Swell
C7	06 Jan 2025	High Tide Time	212
C7	06 Jan 2025	Low Tide Time	1959
C7	06 Jan 2025	Comments	
C7	14 Jan 2025	Arrive Time	844
C7	14 Jan 2025	Depart Time	848
C7	14 Jan 2025	Air Temp (C)	11.8
C7	14 Jan 2025	Visibility (mi)	10
C7	14 Jan 2025	Wind Speed (kts)	1.3
C7	14 Jan 2025	Wind Dir	NW
C7	14 Jan 2025	Sea State	Calm
C7	14 Jan 2025	High Tide Time	846
C7	14 Jan 2025	Low Tide Time	1558
C7	14 Jan 2025	Comments	
C7	21 Jan 2025	Arrive Time	908
C7	21 Jan 2025	Depart Time	914
C7	21 Jan 2025	Air Temp (C)	13.4
C7	21 Jan 2025	Visibility (mi)	10
C7	21 Jan 2025	Wind Speed (kts)	0
C7	21 Jan 2025	Wind Dir	NE
C7	21 Jan 2025	Sea State	Regular Swell
C7	21 Jan 2025	High Tide Time	204
C7	21 Jan 2025	Low Tide Time	928
C7	21 Jan 2025	Comments	Bottle 3 misfire; 2nd cast for bottom bottle only; Kelp Debris; Lobster Floats
C7	28 Jan 2025	Arrive Time	813

Station	Date	Parameter	Value
C7	28 Jan 2025	Depart Time	818
C7	28 Jan 2025	Air Temp (C)	10.2
C7	28 Jan 2025	Visibility (mi)	10
C7	28 Jan 2025	Wind Speed (kts)	6.5
C7	28 Jan 2025	Wind Dir	E
C7	28 Jan 2025	Sea State	Regular Swell
C7	28 Jan 2025	High Tide Time	752
C7	28 Jan 2025	Low Tide Time	1510
C7	28 Jan 2025	Comments	
C8	06 Jan 2025	Arrive Time	905
C8	06 Jan 2025	Depart Time	909
C8	06 Jan 2025	Air Temp (C)	13.7
C8	06 Jan 2025	Visibility (mi)	7
C8	06 Jan 2025	Wind Speed (kts)	3.5
C8	06 Jan 2025	Wind Dir	N
C8	06 Jan 2025	Sea State	Confused Swell
C8	06 Jan 2025	High Tide Time	212
C8	06 Jan 2025	Low Tide Time	1959
C8	06 Jan 2025	Comments	Kelp; Kelp Debris; Lobster Floats
C8	14 Jan 2025	Arrive Time	855
C8	14 Jan 2025	Depart Time	900
C8	14 Jan 2025	Air Temp (C)	10.5
C8	14 Jan 2025	Visibility (mi)	10
C8	14 Jan 2025	Wind Speed (kts)	2
C8	14 Jan 2025	Wind Dir	N
C8	14 Jan 2025	Sea State	Calm
C8	14 Jan 2025	High Tide Time	846
C8	14 Jan 2025	Low Tide Time	1558
C8	14 Jan 2025	Comments	
C8	21 Jan 2025	Arrive Time	920
C8	21 Jan 2025	Depart Time	939
C8	21 Jan 2025	Air Temp (C)	13.7
C8	21 Jan 2025	Visibility (mi)	10
C8	21 Jan 2025	Wind Speed (kts)	0
C8	21 Jan 2025	Wind Dir	S
C8	21 Jan 2025	Sea State	Regular Swell
C8	21 Jan 2025	High Tide Time	204
C8	21 Jan 2025	Low Tide Time	928
C8	21 Jan 2025	Comments	Lobster Floats
C8	28 Jan 2025	Arrive Time	824
C8	28 Jan 2025	Depart Time	828
C8	28 Jan 2025	Air Temp (C)	10.2
C8	28 Jan 2025	Visibility (mi)	10
C8	28 Jan 2025	Wind Speed (kts)	4.5
C8	28 Jan 2025	Wind Dir	E
C8	28 Jan 2025	Sea State	Regular Swell
C8	28 Jan 2025	High Tide Time	752
C8	28 Jan 2025	Low Tide Time	1510
C8	28 Jan 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	06 Jan 2025	1	12.99	84.11	7.5	33.42	8.0	25.2	2.93
A1	06 Jan 2025	2	12.97	84.01	7.4	33.42	8.0	25.2	2.91
A1	06 Jan 2025	3	12.94	84.05	7.4	33.42	8.0	25.2	2.93
A1	06 Jan 2025	4	12.92	84.08	7.3	33.42	8.0	25.2	2.83
A1	06 Jan 2025	5	12.86	84.00	7.2	33.43	8.0	25.2	2.44
A1	06 Jan 2025	6	12.84	83.90	7.2	33.43	8.0	25.2	2.31
A1	06 Jan 2025	7	12.83	83.74	7.2	33.43	8.0	25.2	2.18
A1	06 Jan 2025	8	12.83	83.54	7.1	33.43	8.0	25.2	2.11
A1	06 Jan 2025	9	12.82	83.72	7.1	33.43	8.0	25.2	2.07
A1	06 Jan 2025	10	12.82	83.52	7.1	33.43	8.0	25.2	2.04
A1	06 Jan 2025	11	12.80	83.47	7.0	33.43	8.0	25.2	2.02
A1	06 Jan 2025	12	12.79	83.50	7.0	33.44	8.0	25.2	3.07
A1	06 Jan 2025	13	12.76	82.51	6.9	33.44	8.0	25.2	2.94
A1	06 Jan 2025	14	12.73	81.92	6.8	33.44	8.0	25.2	1.83
A1	06 Jan 2025	15	12.70	82.71	6.7	33.45	8.0	25.2	1.93
A1	06 Jan 2025	16	12.65	83.00	6.6	33.45	8.0	25.3	4.30
A1	06 Jan 2025	17	12.42	81.34	6.2	33.48	8.0	25.3	1.72
A1	06 Jan 2025	18	12.35	81.40	5.8	33.48	8.0	25.3	2.34
A1	06 Jan 2025	19	12.08	79.71	5.6	33.53	7.9	25.4	3.53
A1	06 Jan 2025	20	12.09	77.84	5.5	33.52	7.9	25.4	1.50
A1	14 Jan 2025	1	12.84	85.61	8.2	33.43	8.1	25.2	6.25
A1	14 Jan 2025	2	12.84	85.18	8.1	33.43	8.1	25.2	5.83
A1	14 Jan 2025	3	12.84	85.41	8.1	33.42	8.1	25.2	5.93
A1	14 Jan 2025	4	12.84	85.42	8.1	33.42	8.1	25.2	5.53
A1	14 Jan 2025	5	12.84	85.62	8.1	33.43	8.1	25.2	5.72
A1	14 Jan 2025	6	12.84	85.71	8.1	33.43	8.1	25.2	5.79
A1	14 Jan 2025	7	12.81	86.03	7.9	33.43	8.1	25.2	5.43
A1	14 Jan 2025	8	12.76	86.30	7.5	33.44	8.1	25.2	4.28
A1	14 Jan 2025	9	12.74	86.50	7.3	33.45	8.1	25.2	3.44
A1	14 Jan 2025	10	12.72	88.24	7.2	33.45	8.1	25.2	3.29
A1	14 Jan 2025	11	12.72	88.69	7.2	33.45	8.1	25.2	3.32
A1	14 Jan 2025	12	12.70	88.27	7.1	33.46	8.1	25.3	2.97
A1	14 Jan 2025	13	12.68	88.58	7.0	33.46	8.1	25.3	2.70
A1	14 Jan 2025	14	12.63	88.69	6.8	33.47	8.1	25.3	2.19
A1	14 Jan 2025	15	12.59	89.49	6.6	33.47	8.0	25.3	1.77
A1	14 Jan 2025	16	12.54	89.74	6.5	33.47	8.0	25.3	1.62
A1	14 Jan 2025	17	12.44	89.93	6.2	33.49	8.0	25.3	1.49
A1	14 Jan 2025	18	12.29	90.11	5.7	33.50	8.0	25.4	1.10
A1	14 Jan 2025	19	12.18	90.44	5.2	33.51	8.0	25.4	0.78
A1	14 Jan 2025	20	12.27	90.10	5.5	33.50	7.9	25.4	0.88
A1	21 Jan 2025	1	13.32	91.34	7.4	33.43	8.1	25.1	0.95
A1	21 Jan 2025	2	13.32	91.26	7.4	33.43	8.1	25.1	0.95
A1	21 Jan 2025	3	13.32	91.33	7.3	33.43	8.1	25.1	1.06
A1	21 Jan 2025	4	13.32	91.03	7.3	33.43	8.1	25.1	1.31
A1	21 Jan 2025	5	13.28	91.02	7.2	33.44	8.1	25.1	1.46
A1	21 Jan 2025	6	13.15	91.17	7.0	33.45	8.1	25.2	1.57
A1	21 Jan 2025	7	13.05	91.18	6.8	33.45	8.1	25.2	1.32
A1	21 Jan 2025	8	13.01	91.70	6.6	33.45	8.1	25.2	NA
A1	21 Jan 2025	9	12.96	91.96	6.5	33.45	8.0	25.2	NA
A1	21 Jan 2025	10	12.91	92.14	6.4	33.46	8.0	25.2	NA
A1	21 Jan 2025	11	12.86	92.59	6.3	33.46	8.0	25.2	NA
A1	21 Jan 2025	12	12.81	92.80	6.2	33.46	8.0	25.2	NA
A1	21 Jan 2025	13	12.72	92.97	6.0	33.47	8.0	25.3	NA
A1	21 Jan 2025	14	12.60	92.84	5.8	33.48	8.0	25.3	NA
A1	21 Jan 2025	15	12.46	92.61	5.6	33.50	8.0	25.3	NA
A1	21 Jan 2025	16	12.37	92.05	5.4	33.51	8.0	25.4	NA
A1	21 Jan 2025	17	12.29	91.80	5.3	33.52	7.9	25.4	NA
A1	21 Jan 2025	18	12.25	91.51	5.1	33.52	7.9	25.4	NA
A1	21 Jan 2025	19	12.27	90.88	5.1	33.51	7.9	25.4	NA
A1	28 Jan 2025	1	13.57	92.98	8.6	33.39	8.2	25.0	1.80
A1	28 Jan 2025	2	13.56	92.78	8.6	33.39	8.2	25.0	1.83
A1	28 Jan 2025	3	13.56	92.40	8.6	33.39	8.2	25.0	1.85
A1	28 Jan 2025	4	13.56	92.91	8.6	33.39	8.2	25.0	1.96
A1	28 Jan 2025	5	13.56	92.91	8.6	33.39	8.2	25.0	2.02
A1	28 Jan 2025	6	13.56	92.85	8.6	33.39	8.2	25.0	2.01

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A1	28 Jan 2025	7	13.54	92.73	8.6	33.39	8.2	25.0	1.96
A1	28 Jan 2025	8	13.54	92.92	8.6	33.39	8.2	25.0	1.97
A1	28 Jan 2025	9	13.54	92.86	8.6	33.39	8.2	25.0	1.98
A1	28 Jan 2025	10	13.52	92.89	8.6	33.39	8.2	25.0	1.99
A1	28 Jan 2025	11	13.52	92.87	8.5	33.39	8.2	25.0	1.98
A1	28 Jan 2025	12	13.51	92.79	8.6	33.39	8.2	25.0	1.95
A1	28 Jan 2025	13	13.51	92.94	8.6	33.39	8.2	25.0	1.90
A1	28 Jan 2025	14	13.49	92.88	8.5	33.39	8.2	25.0	1.95
A1	28 Jan 2025	15	13.46	91.65	8.5	33.40	8.2	25.1	1.89
A1	28 Jan 2025	16	13.43	92.85	8.5	33.40	8.2	25.1	1.79
A1	28 Jan 2025	17	13.43	93.18	8.4	33.40	8.2	25.1	1.76
A1	28 Jan 2025	18	13.42	93.52	8.4	33.40	8.2	25.1	1.64
A1	28 Jan 2025	19	13.41	93.68	8.4	33.40	8.2	25.1	1.54
A1	28 Jan 2025	20	13.42	93.83	8.4	33.40	8.2	25.1	1.55
C4	06 Jan 2025	1	13.00	54.31	8.4	33.44	8.0	25.2	1.27
C4	06 Jan 2025	2	13.00	54.24	8.4	33.44	8.0	25.2	1.31
C4	06 Jan 2025	3	12.98	53.35	8.4	33.44	8.0	25.2	1.38
C4	06 Jan 2025	4	12.96	52.06	8.3	33.44	8.0	25.2	1.38
C4	06 Jan 2025	5	12.96	48.33	8.2	33.44	8.0	25.2	1.39
C4	06 Jan 2025	6	12.95	47.03	8.2	33.44	8.0	25.2	1.44
C4	06 Jan 2025	7	12.93	46.65	7.9	33.44	8.0	25.2	1.38
C4	06 Jan 2025	8	12.91	46.91	7.6	33.44	8.0	25.2	1.25
C4	06 Jan 2025	9	12.88	48.98	7.3	33.45	8.0	25.2	1.18
C4	06 Jan 2025	10	12.84	47.09	6.8	33.44	8.0	25.2	8.52
C4	14 Jan 2025	1	12.86	84.31	8.6	33.46	8.1	25.2	3.38
C4	14 Jan 2025	2	12.85	84.49	8.6	33.46	8.1	25.2	3.76
C4	14 Jan 2025	3	12.81	83.09	8.4	33.46	8.1	25.2	8.16
C4	14 Jan 2025	4	12.79	79.75	8.3	33.46	8.1	25.2	11.21
C4	14 Jan 2025	5	12.77	79.37	8.1	33.47	8.1	25.2	9.71
C4	14 Jan 2025	6	12.74	80.04	8.0	33.47	8.1	25.3	8.12
C4	14 Jan 2025	7	12.71	81.83	7.9	33.47	8.1	25.3	6.81
C4	14 Jan 2025	8	12.70	82.68	7.8	33.47	8.1	25.3	5.70
C4	14 Jan 2025	9	12.68	83.77	7.6	33.47	8.1	25.3	4.03
C4	14 Jan 2025	10	12.66	85.86	7.3	33.47	8.1	25.3	2.60
C4	14 Jan 2025	11	12.64	87.97	7.0	33.48	8.1	25.3	1.79
C4	14 Jan 2025	12	12.60	86.97	6.6	33.48	8.1	25.3	1.24
C4	14 Jan 2025	13	12.61	90.95	6.4	33.48	8.0	25.3	0.99
C4	21 Jan 2025	1	13.41	89.66	7.1	33.44	8.1	25.1	0.22
C4	21 Jan 2025	2	13.39	89.61	7.1	33.44	8.1	25.1	0.24
C4	21 Jan 2025	3	13.33	88.68	7.1	33.44	8.1	25.1	0.34
C4	21 Jan 2025	4	13.28	88.62	7.0	33.44	8.1	25.1	0.37
C4	21 Jan 2025	5	13.15	88.41	6.8	33.46	8.1	25.2	0.38
C4	21 Jan 2025	6	13.04	88.19	6.7	33.47	8.1	25.2	0.40
C4	21 Jan 2025	7	12.95	88.13	6.5	33.47	8.0	25.2	0.38
C4	21 Jan 2025	8	12.82	88.53	6.2	33.48	8.0	25.2	0.36
C4	21 Jan 2025	9	12.74	88.76	5.9	33.48	8.0	25.3	0.33
C4	21 Jan 2025	10	12.68	88.77	5.6	33.48	8.0	25.3	0.34
C4	21 Jan 2025	11	12.65	85.92	5.5	33.48	8.0	25.3	1.03
C4	21 Jan 2025	12	12.66	81.94	5.5	33.48	8.0	25.3	1.29
C4	28 Jan 2025	1	13.32	90.55	8.8	33.40	8.2	25.1	1.80
C4	28 Jan 2025	2	13.32	90.42	8.8	33.40	8.2	25.1	1.71
C4	28 Jan 2025	3	13.32	90.41	8.8	33.40	8.2	25.1	1.75
C4	28 Jan 2025	4	13.32	90.39	8.8	33.40	8.2	25.1	1.85
C4	28 Jan 2025	5	13.32	90.24	8.8	33.40	8.2	25.1	2.22
C4	28 Jan 2025	6	13.32	90.26	8.8	33.40	8.2	25.1	2.44
C4	28 Jan 2025	7	13.32	90.50	8.8	33.40	8.2	25.1	2.69
C4	28 Jan 2025	8	13.32	90.49	8.8	33.40	8.2	25.1	2.57
C4	28 Jan 2025	9	13.32	90.79	8.8	33.40	8.2	25.1	2.61
C4	28 Jan 2025	10	13.32	91.04	8.8	33.40	8.2	25.1	2.67
C4	28 Jan 2025	11	13.32	91.38	8.8	33.40	8.2	25.1	-1.00
A7	06 Jan 2025	1	13.15	85.30	7.9	33.41	8.1	25.1	3.22
A7	06 Jan 2025	2	13.13	85.24	7.8	33.41	8.1	25.1	3.35
A7	06 Jan 2025	3	13.08	85.29	7.5	33.43	8.1	25.2	3.15
A7	06 Jan 2025	4	13.05	85.42	7.4	33.44	8.1	25.2	2.62
A7	06 Jan 2025	5	13.03	85.67	7.4	33.44	8.1	25.2	2.56
A7	06 Jan 2025	6	13.00	85.10	7.4	33.44	8.1	25.2	2.70
A7	06 Jan 2025	7	12.99	85.01	7.3	33.44	8.1	25.2	2.71
A7	06 Jan 2025	8	12.97	84.66	7.3	33.44	8.0	25.2	2.77
A7	06 Jan 2025	9	12.93	84.75	7.2	33.45	8.0	25.2	2.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	06 Jan 2025	10	12.88	84.82	7.1	33.45	8.0	25.2	2.51
A7	06 Jan 2025	11	12.71	85.10	6.7	33.47	8.0	25.3	2.13
A7	06 Jan 2025	12	12.63	86.02	6.4	33.47	8.0	25.3	1.39
A7	06 Jan 2025	13	12.56	86.34	6.3	33.48	8.0	25.3	1.30
A7	06 Jan 2025	14	12.53	86.18	6.2	33.48	8.0	25.3	1.22
A7	06 Jan 2025	15	12.49	86.16	6.1	33.49	8.0	25.3	1.18
A7	06 Jan 2025	16	12.47	86.16	6.0	33.49	8.0	25.3	1.16
A7	06 Jan 2025	17	12.38	86.17	5.9	33.50	8.0	25.4	1.06
A7	06 Jan 2025	18	12.18	86.08	5.5	33.52	8.0	25.4	0.83
A7	06 Jan 2025	19	12.27	85.11	5.4	33.51	7.9	25.4	0.79
A7	14 Jan 2025	1	12.87	80.16	8.0	33.44	8.1	25.2	4.95
A7	14 Jan 2025	2	12.87	80.29	8.0	33.44	8.1	25.2	4.93
A7	14 Jan 2025	3	12.88	80.65	8.0	33.44	8.1	25.2	4.95
A7	14 Jan 2025	4	12.87	81.02	7.9	33.44	8.1	25.2	5.12
A7	14 Jan 2025	5	12.83	81.21	7.6	33.45	8.1	25.2	3.89
A7	14 Jan 2025	6	12.78	82.50	7.3	33.45	8.1	25.2	2.94
A7	14 Jan 2025	7	12.67	84.71	7.1	33.47	8.1	25.3	2.62
A7	14 Jan 2025	8	12.62	85.93	6.8	33.47	8.1	25.3	1.86
A7	14 Jan 2025	9	12.60	86.99	6.7	33.47	8.0	25.3	1.67
A7	14 Jan 2025	10	12.56	87.63	6.6	33.48	8.0	25.3	1.52
A7	14 Jan 2025	11	12.53	88.03	6.5	33.48	8.0	25.3	1.49
A7	14 Jan 2025	12	12.52	88.32	6.4	33.48	8.0	25.3	1.36
A7	14 Jan 2025	13	12.52	88.64	6.3	33.48	8.0	25.3	1.32
A7	14 Jan 2025	14	12.50	88.85	6.3	33.48	8.0	25.3	1.24
A7	14 Jan 2025	15	12.43	89.03	6.1	33.49	8.0	25.3	1.13
A7	14 Jan 2025	16	12.40	89.42	5.9	33.50	8.0	25.3	0.98
A7	14 Jan 2025	17	12.34	89.92	5.7	33.51	8.0	25.4	0.91
A7	14 Jan 2025	18	12.29	90.10	5.5	33.51	8.0	25.4	0.74
A7	14 Jan 2025	19	12.19	90.17	5.3	33.52	8.0	25.4	0.71
A7	14 Jan 2025	20	12.17	90.00	5.0	33.52	7.9	25.4	0.64
A7	21 Jan 2025	1	13.40	92.45	7.7	33.42	8.1	25.1	1.25
A7	21 Jan 2025	2	13.40	92.44	7.7	33.42	8.1	25.1	1.23
A7	21 Jan 2025	3	13.40	92.39	7.7	33.42	8.1	25.1	1.42
A7	21 Jan 2025	4	13.40	92.15	7.7	33.42	8.1	25.1	1.51
A7	21 Jan 2025	5	13.40	92.12	7.7	33.42	8.1	25.1	1.70
A7	21 Jan 2025	6	13.40	92.11	7.6	33.42	8.1	25.1	1.86
A7	21 Jan 2025	7	13.40	92.20	7.6	33.42	8.1	25.1	2.09
A7	21 Jan 2025	8	13.40	92.13	7.6	33.42	8.1	25.1	2.09
A7	21 Jan 2025	9	13.39	92.00	7.7	33.42	8.1	25.1	2.21
A7	21 Jan 2025	10	13.39	92.12	7.7	33.42	8.1	25.1	2.13
A7	21 Jan 2025	11	13.38	92.16	7.6	33.42	8.1	25.1	2.11
A7	21 Jan 2025	12	13.35	92.10	7.4	33.42	8.1	25.1	2.09
A7	21 Jan 2025	13	13.16	92.24	7.1	33.43	8.1	25.1	1.84
A7	21 Jan 2025	14	12.92	92.67	6.6	33.45	8.1	25.2	1.22
A7	21 Jan 2025	15	12.72	93.04	6.2	33.46	8.1	25.3	0.81
A7	21 Jan 2025	16	12.32	93.17	5.6	33.50	8.0	25.4	0.56
A7	21 Jan 2025	17	12.08	92.81	5.1	33.53	8.0	25.4	0.39
A7	21 Jan 2025	18	12.20	92.44	5.0	33.52	7.9	25.4	0.70
A7	28 Jan 2025	1	13.50	92.48	8.6	33.40	8.2	25.1	1.73
A7	28 Jan 2025	2	13.51	92.26	8.6	33.40	8.2	25.0	1.85
A7	28 Jan 2025	3	13.51	92.67	8.5	33.40	8.2	25.0	1.96
A7	28 Jan 2025	4	13.51	92.59	8.5	33.40	8.2	25.0	2.05
A7	28 Jan 2025	5	13.51	92.60	8.6	33.40	8.2	25.0	2.15
A7	28 Jan 2025	6	13.52	92.43	8.5	33.40	8.2	25.0	2.24
A7	28 Jan 2025	7	13.52	92.43	8.5	33.40	8.2	25.0	2.25
A7	28 Jan 2025	8	13.51	92.34	8.5	33.40	8.2	25.1	2.17
A7	28 Jan 2025	9	13.51	92.46	8.5	33.40	8.2	25.1	2.09
A7	28 Jan 2025	10	13.51	92.32	8.5	33.40	8.2	25.1	2.11
A7	28 Jan 2025	11	13.51	92.45	8.5	33.40	8.2	25.1	2.10
A7	28 Jan 2025	12	13.50	92.44	8.5	33.40	8.2	25.1	2.03
A7	28 Jan 2025	13	13.50	92.54	8.5	33.40	8.2	25.1	2.07
A7	28 Jan 2025	14	13.49	92.49	8.5	33.40	8.2	25.1	2.05
A7	28 Jan 2025	15	13.49	92.40	8.5	33.40	8.2	25.1	2.03
A7	28 Jan 2025	16	13.41	92.44	8.4	33.39	8.2	25.1	1.99
A7	28 Jan 2025	17	13.30	92.65	8.4	33.41	8.2	25.1	1.41
A7	28 Jan 2025	18	13.32	93.38	8.3	33.41	8.2	25.1	1.23
A7	28 Jan 2025	19	13.28	93.74	8.3	33.41	8.2	25.1	1.19
A7	28 Jan 2025	20	13.27	93.95	8.2	33.41	8.2	25.1	1.04
A7	28 Jan 2025	21	13.26	94.35	8.2	33.41	8.2	25.1	0.92
C5	06 Jan 2025	1	12.99	79.94	7.9	33.45	8.1	25.2	0.94

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C5	06 Jan 2025	2	12.95	77.98	7.9	33.45	8.1	25.2	0.98
C5	06 Jan 2025	3	12.89	75.65	7.9	33.45	8.1	25.2	1.71
C5	06 Jan 2025	4	12.87	77.62	7.8	33.45	8.1	25.2	2.96
C5	06 Jan 2025	5	12.88	74.87	7.7	33.45	8.0	25.2	2.93
C5	06 Jan 2025	6	12.83	73.16	7.5	33.46	8.0	25.2	1.92
C5	06 Jan 2025	7	12.60	69.61	6.7	33.49	8.0	25.3	0.72
C5	06 Jan 2025	8	12.42	68.91	5.7	33.50	8.0	25.3	0.46
C5	06 Jan 2025	9	12.34	75.39	5.3	33.51	8.0	25.4	0.42
C5	06 Jan 2025	10	12.17	77.09	5.1	33.52	8.0	25.4	0.49
C5	06 Jan 2025	11	12.20	68.50	5.1	33.52	7.9	25.4	7.71
C5	14 Jan 2025	1	12.84	89.04	7.9	33.45	8.1	25.2	1.13
C5	14 Jan 2025	2	12.83	89.10	7.9	33.45	8.1	25.2	1.09
C5	14 Jan 2025	3	12.79	89.05	7.9	33.45	8.1	25.2	1.72
C5	14 Jan 2025	4	12.78	88.68	7.8	33.45	8.1	25.2	2.79
C5	14 Jan 2025	5	12.75	87.96	7.7	33.45	8.1	25.2	3.32
C5	14 Jan 2025	6	12.74	87.50	7.6	33.45	8.1	25.2	3.51
C5	14 Jan 2025	7	12.71	87.44	7.6	33.46	8.1	25.3	3.55
C5	14 Jan 2025	8	12.68	87.36	7.4	33.46	8.1	25.3	2.97
C5	14 Jan 2025	9	12.66	88.69	7.3	33.46	8.1	25.3	2.46
C5	14 Jan 2025	10	12.62	89.28	7.1	33.47	8.1	25.3	1.98
C5	14 Jan 2025	11	12.61	88.39	6.9	33.47	8.0	25.3	1.65
C5	21 Jan 2025	1	13.36	86.09	7.1	33.45	8.1	25.1	0.29
C5	21 Jan 2025	2	13.34	85.37	7.1	33.45	8.1	25.1	0.30
C5	21 Jan 2025	3	13.32	85.67	7.1	33.45	8.1	25.1	0.34
C5	21 Jan 2025	4	13.31	84.85	7.1	33.45	8.1	25.1	0.40
C5	21 Jan 2025	5	13.30	84.24	7.0	33.45	8.1	25.1	0.42
C5	21 Jan 2025	6	13.28	83.71	7.0	33.45	8.1	25.1	0.43
C5	21 Jan 2025	7	13.24	83.40	6.9	33.45	8.1	25.1	0.44
C5	21 Jan 2025	8	13.13	84.02	6.6	33.45	8.1	25.2	0.38
C5	21 Jan 2025	9	13.06	86.17	6.3	33.45	8.0	25.2	0.35
C5	21 Jan 2025	10	12.89	88.51	6.0	33.46	8.0	25.2	0.32
C5	21 Jan 2025	11	12.85	82.89	5.8	33.46	8.0	25.2	0.36
C5	28 Jan 2025	1	13.21	91.88	8.3	33.42	8.2	25.1	1.22
C5	28 Jan 2025	2	13.21	91.81	8.3	33.42	8.2	25.1	1.24
C5	28 Jan 2025	3	13.20	91.82	8.3	33.42	8.2	25.1	1.31
C5	28 Jan 2025	4	13.20	91.81	8.3	33.42	8.2	25.1	1.37
C5	28 Jan 2025	5	13.20	91.82	8.3	33.42	8.2	25.1	1.51
C5	28 Jan 2025	6	13.18	91.86	8.3	33.42	8.2	25.1	1.62
C5	28 Jan 2025	7	13.17	92.04	8.3	33.42	8.2	25.1	1.60
C5	28 Jan 2025	8	13.16	92.00	8.2	33.42	8.2	25.1	1.66
C5	28 Jan 2025	9	13.15	92.14	8.2	33.42	8.2	25.1	1.60
C5	28 Jan 2025	10	13.15	92.25	8.2	33.42	8.2	25.1	1.58
C5	28 Jan 2025	11	13.15	92.22	8.2	33.42	8.2	25.1	1.52
A6	06 Jan 2025	1	12.96	85.81	7.7	33.41	8.1	25.2	3.04
A6	06 Jan 2025	2	12.95	85.95	7.7	33.41	8.1	25.2	3.18
A6	06 Jan 2025	3	12.95	85.87	7.7	33.41	8.1	25.2	3.52
A6	06 Jan 2025	4	12.95	85.69	7.7	33.41	8.1	25.2	3.47
A6	06 Jan 2025	5	12.94	85.69	7.7	33.41	8.1	25.2	3.55
A6	06 Jan 2025	6	12.94	85.85	7.7	33.41	8.1	25.2	3.67
A6	06 Jan 2025	7	12.94	86.17	7.7	33.41	8.1	25.2	3.42
A6	06 Jan 2025	8	12.93	86.29	7.7	33.41	8.1	25.2	3.38
A6	06 Jan 2025	9	12.93	86.18	7.7	33.41	8.1	25.2	3.23
A6	06 Jan 2025	10	12.92	86.24	7.7	33.42	8.1	25.2	3.09
A6	06 Jan 2025	11	12.91	86.50	7.6	33.42	8.1	25.2	2.95
A6	06 Jan 2025	12	12.90	86.40	7.5	33.43	8.1	25.2	2.84
A6	06 Jan 2025	13	12.90	86.09	7.5	33.43	8.1	25.2	2.66
A6	06 Jan 2025	14	12.88	85.77	7.5	33.44	8.1	25.2	2.39
A6	06 Jan 2025	15	12.82	85.24	7.3	33.44	8.1	25.2	2.20
A6	06 Jan 2025	16	12.79	85.38	7.2	33.45	8.1	25.2	2.09
A6	06 Jan 2025	17	12.73	85.57	7.0	33.45	8.1	25.2	2.02
A6	06 Jan 2025	18	12.60	86.02	6.8	33.47	8.0	25.3	1.79
A6	06 Jan 2025	19	12.56	85.37	6.6	33.47	8.0	25.3	1.41
A6	14 Jan 2025	1	12.83	87.06	7.8	33.44	8.1	25.2	3.25
A6	14 Jan 2025	2	12.82	86.74	7.8	33.44	8.1	25.2	3.13
A6	14 Jan 2025	3	12.82	87.09	7.7	33.44	8.1	25.2	3.21
A6	14 Jan 2025	4	12.82	87.62	7.7	33.44	8.1	25.2	3.28
A6	14 Jan 2025	5	12.82	87.80	7.7	33.44	8.1	25.2	3.12
A6	14 Jan 2025	6	12.81	87.76	7.6	33.44	8.1	25.2	2.95
A6	14 Jan 2025	7	12.81	88.10	7.6	33.44	8.1	25.2	2.76

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A6	14 Jan 2025	8	12.82	88.32	7.7	33.44	8.1	25.2	2.96
A6	14 Jan 2025	9	12.82	88.41	7.7	33.44	8.1	25.2	2.97
A6	14 Jan 2025	10	12.81	88.24	7.6	33.44	8.1	25.2	2.77
A6	14 Jan 2025	11	12.82	88.20	7.7	33.44	8.1	25.2	2.84
A6	14 Jan 2025	12	12.82	88.15	7.7	33.44	8.1	25.2	2.94
A6	14 Jan 2025	13	12.81	87.92	7.7	33.44	8.1	25.2	3.11
A6	14 Jan 2025	14	12.80	87.85	7.6	33.44	8.1	25.2	2.94
A6	14 Jan 2025	15	12.78	88.22	7.5	33.45	8.1	25.2	2.79
A6	14 Jan 2025	16	12.72	88.30	7.2	33.45	8.1	25.2	2.45
A6	14 Jan 2025	17	12.66	88.67	6.9	33.46	8.1	25.3	1.78
A6	14 Jan 2025	18	12.56	89.77	6.5	33.47	8.0	25.3	1.30
A6	14 Jan 2025	19	12.47	90.76	6.2	33.48	8.0	25.3	0.95
A6	14 Jan 2025	20	12.44	91.40	6.0	33.48	8.0	25.3	0.76
A6	14 Jan 2025	21	12.43	91.36	5.9	33.48	8.0	25.3	0.68
A6	21 Jan 2025	1	13.49	92.20	7.9	33.41	8.1	25.1	1.13
A6	21 Jan 2025	2	13.49	92.12	7.9	33.41	8.1	25.1	1.11
A6	21 Jan 2025	3	13.49	92.14	7.9	33.41	8.1	25.1	1.18
A6	21 Jan 2025	4	13.49	92.10	7.8	33.41	8.1	25.1	1.42
A6	21 Jan 2025	5	13.49	92.01	7.9	33.41	8.1	25.1	1.61
A6	21 Jan 2025	6	13.49	91.81	7.9	33.41	8.1	25.1	1.81
A6	21 Jan 2025	7	13.47	91.76	7.8	33.41	8.1	25.1	2.02
A6	21 Jan 2025	8	13.43	91.71	7.7	33.42	8.1	25.1	2.12
A6	21 Jan 2025	9	13.35	91.66	7.5	33.42	8.1	25.1	1.99
A6	21 Jan 2025	10	13.20	91.97	7.2	33.42	8.1	25.1	1.63
A6	21 Jan 2025	11	13.03	92.93	6.8	33.43	8.1	25.2	1.14
A6	21 Jan 2025	12	12.77	93.62	6.3	33.45	8.1	25.2	0.76
A6	21 Jan 2025	13	12.64	94.21	6.0	33.47	8.0	25.3	0.52
A6	21 Jan 2025	14	12.42	93.88	5.6	33.49	8.0	25.3	0.49
A6	21 Jan 2025	15	12.29	93.36	5.4	33.50	8.0	25.4	0.46
A6	21 Jan 2025	16	12.18	92.76	5.1	33.51	8.0	25.4	0.45
A6	21 Jan 2025	17	12.07	92.33	4.9	33.53	7.9	25.4	0.43
A6	21 Jan 2025	18	12.17	91.44	4.9	33.52	7.9	25.4	0.40
A6	21 Jan 2025	19	12.08	90.51	4.8	33.53	7.9	25.4	0.41
A6	21 Jan 2025	20	12.07	89.25	4.7	33.53	7.9	25.4	0.34
A6	28 Jan 2025	1	13.54	90.83	8.6	33.40	8.2	25.0	2.65
A6	28 Jan 2025	2	13.54	90.95	8.6	33.40	8.2	25.0	2.87
A6	28 Jan 2025	3	13.54	90.81	8.6	33.40	8.2	25.0	3.07
A6	28 Jan 2025	4	13.54	90.77	8.6	33.40	8.2	25.0	3.15
A6	28 Jan 2025	5	13.54	90.85	8.5	33.40	8.2	25.0	3.21
A6	28 Jan 2025	6	13.54	90.69	8.6	33.40	8.2	25.0	3.14
A6	28 Jan 2025	7	13.54	90.83	8.6	33.40	8.2	25.0	3.12
A6	28 Jan 2025	8	13.54	90.68	8.6	33.40	8.2	25.0	3.16
A6	28 Jan 2025	9	13.54	90.78	8.6	33.40	8.2	25.0	3.09
A6	28 Jan 2025	10	13.54	90.81	8.5	33.40	8.2	25.0	3.13
A6	28 Jan 2025	11	13.54	90.81	8.5	33.40	8.2	25.0	3.15
A6	28 Jan 2025	12	13.53	90.82	8.6	33.40	8.2	25.0	3.07
A6	28 Jan 2025	13	13.52	90.80	8.5	33.40	8.2	25.0	3.08
A6	28 Jan 2025	14	13.49	90.92	8.5	33.40	8.2	25.1	2.92
A6	28 Jan 2025	15	13.47	91.34	8.5	33.40	8.2	25.1	2.69
A6	28 Jan 2025	16	13.47	92.00	8.5	33.40	8.2	25.1	2.56
A6	28 Jan 2025	17	13.46	92.11	8.4	33.40	8.2	25.1	2.44
A6	28 Jan 2025	18	13.46	92.87	8.4	33.40	8.2	25.1	2.18
C6	06 Jan 2025	1	12.89	79.80	7.7	33.45	8.0	25.2	1.34
C6	06 Jan 2025	2	12.88	79.60	7.7	33.45	8.0	25.2	1.44
C6	06 Jan 2025	3	12.83	79.14	7.6	33.45	8.0	25.2	1.39
C6	06 Jan 2025	4	12.74	77.30	7.4	33.46	8.0	25.3	1.51
C6	06 Jan 2025	5	12.63	75.03	7.0	33.48	8.0	25.3	1.04
C6	06 Jan 2025	6	12.55	73.69	6.6	33.48	8.0	25.3	0.96
C6	06 Jan 2025	7	12.38	71.75	6.0	33.50	8.0	25.4	0.74
C6	06 Jan 2025	8	12.09	71.28	5.2	33.53	8.0	25.4	0.58
C6	06 Jan 2025	9	11.91	72.39	4.6	33.54	7.9	25.5	0.50
C6	06 Jan 2025	10	11.94	71.88	4.6	33.53	7.9	25.5	0.83
C6	14 Jan 2025	1	12.74	87.00	7.4	33.45	8.1	25.2	1.35
C6	14 Jan 2025	2	12.72	86.93	7.3	33.45	8.1	25.2	1.57
C6	14 Jan 2025	3	12.69	86.97	7.3	33.45	8.1	25.3	1.79
C6	14 Jan 2025	4	12.67	87.38	7.3	33.45	8.1	25.3	2.17
C6	14 Jan 2025	5	12.66	87.44	7.3	33.45	8.1	25.3	2.68
C6	14 Jan 2025	6	12.63	87.09	7.3	33.46	8.1	25.3	3.06
C6	14 Jan 2025	7	12.62	87.13	7.3	33.46	8.1	25.3	3.54
C6	14 Jan 2025	8	12.58	86.70	7.2	33.47	8.1	25.3	3.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C6	14 Jan 2025	9	12.54	86.57	7.0	33.47	8.0	25.3	2.93
C6	14 Jan 2025	10	12.51	87.75	6.8	33.47	8.0	25.3	1.48
C6	14 Jan 2025	11	12.50	89.31	6.6	33.47	8.0	25.3	1.05
C6	21 Jan 2025	1	13.50	79.91	7.5	33.43	8.1	25.1	0.39
C6	21 Jan 2025	2	13.52	79.91	7.5	33.43	8.1	25.1	0.36
C6	21 Jan 2025	3	13.49	79.59	7.5	33.43	8.1	25.1	0.40
C6	21 Jan 2025	4	13.46	77.33	7.4	33.43	8.1	25.1	0.51
C6	21 Jan 2025	5	13.45	77.77	7.3	33.43	8.1	25.1	0.52
C6	21 Jan 2025	6	13.42	79.70	7.2	33.43	8.1	25.1	0.52
C6	21 Jan 2025	7	13.10	79.92	6.5	33.45	8.1	25.2	0.41
C6	21 Jan 2025	8	12.95	80.73	6.0	33.45	8.0	25.2	0.30
C6	21 Jan 2025	9	12.95	84.68	6.0	33.44	8.0	25.2	0.32
C6	28 Jan 2025	1	13.28	91.13	8.1	33.42	8.2	25.1	0.62
C6	28 Jan 2025	2	13.28	93.40	8.1	33.42	8.2	25.1	0.73
C6	28 Jan 2025	3	13.28	93.35	8.1	33.42	8.2	25.1	0.84
C6	28 Jan 2025	4	13.28	93.30	8.1	33.42	8.2	25.1	0.98
C6	28 Jan 2025	5	13.28	93.34	8.1	33.42	8.2	25.1	1.10
C6	28 Jan 2025	6	13.28	93.65	8.2	33.42	8.2	25.1	1.11
C6	28 Jan 2025	7	13.28	93.69	8.2	33.42	8.2	25.1	1.22
C6	28 Jan 2025	8	13.28	93.67	8.2	33.42	8.2	25.1	1.21
C6	28 Jan 2025	9	13.28	93.65	8.2	33.42	8.2	25.1	1.22
C6	28 Jan 2025	10	13.28	94.27	8.1	33.42	8.2	25.1	0.98
C6	28 Jan 2025	11	13.28	94.34	8.2	33.42	8.2	25.1	0.95
C7	06 Jan 2025	1	12.87	86.93	7.7	33.41	8.1	25.2	2.32
C7	06 Jan 2025	2	12.87	87.35	7.7	33.41	8.1	25.2	2.49
C7	06 Jan 2025	3	12.87	87.14	7.7	33.41	8.1	25.2	2.40
C7	06 Jan 2025	4	12.86	87.14	7.6	33.41	8.1	25.2	2.54
C7	06 Jan 2025	5	12.82	87.80	7.4	33.41	8.1	25.2	2.63
C7	06 Jan 2025	6	12.68	88.67	6.8	33.43	8.1	25.2	2.06
C7	06 Jan 2025	7	12.62	88.85	6.6	33.44	8.1	25.3	1.99
C7	06 Jan 2025	8	12.60	88.89	6.5	33.45	8.0	25.3	1.84
C7	06 Jan 2025	9	12.56	88.81	6.4	33.45	8.0	25.3	1.76
C7	06 Jan 2025	10	12.53	88.45	6.3	33.46	8.0	25.3	1.71
C7	06 Jan 2025	11	12.49	88.07	6.2	33.47	8.0	25.3	1.63
C7	06 Jan 2025	12	12.46	88.06	6.1	33.47	8.0	25.3	1.54
C7	06 Jan 2025	13	12.41	88.44	5.9	33.48	8.0	25.3	1.36
C7	06 Jan 2025	14	12.37	88.79	5.7	33.48	8.0	25.3	1.11
C7	06 Jan 2025	15	12.28	89.25	5.5	33.50	8.0	25.4	0.90
C7	06 Jan 2025	16	12.19	89.03	5.2	33.51	8.0	25.4	0.94
C7	06 Jan 2025	17	11.58	88.17	4.4	33.59	7.9	25.6	0.56
C7	06 Jan 2025	18	11.52	87.42	4.1	33.59	7.9	25.6	0.39
C7	14 Jan 2025	1	12.73	88.51	7.4	33.44	8.1	25.2	1.67
C7	14 Jan 2025	2	12.73	88.41	7.5	33.44	8.1	25.2	1.60
C7	14 Jan 2025	3	12.72	88.50	7.4	33.44	8.1	25.2	1.69
C7	14 Jan 2025	4	12.70	88.53	7.3	33.45	8.1	25.2	2.24
C7	14 Jan 2025	5	12.69	88.50	7.2	33.45	8.1	25.2	2.46
C7	14 Jan 2025	6	12.67	88.95	7.1	33.45	8.0	25.3	2.40
C7	14 Jan 2025	7	12.64	89.06	6.9	33.45	8.0	25.3	2.21
C7	14 Jan 2025	8	12.62	89.34	6.7	33.45	8.0	25.3	2.09
C7	14 Jan 2025	9	12.54	89.70	6.5	33.46	8.0	25.3	1.87
C7	14 Jan 2025	10	12.51	90.28	6.3	33.47	8.0	25.3	1.50
C7	14 Jan 2025	11	12.51	90.66	6.3	33.47	8.0	25.3	1.37
C7	14 Jan 2025	12	12.50	90.77	6.2	33.47	8.0	25.3	1.34
C7	14 Jan 2025	13	12.49	90.83	6.2	33.47	8.0	25.3	1.30
C7	14 Jan 2025	14	12.46	91.01	6.1	33.47	8.0	25.3	1.13
C7	14 Jan 2025	15	12.44	91.32	6.0	33.48	8.0	25.3	1.03
C7	14 Jan 2025	16	12.34	91.37	5.7	33.49	8.0	25.3	1.05
C7	14 Jan 2025	17	12.26	91.70	5.5	33.49	8.0	25.4	0.76
C7	14 Jan 2025	18	12.22	92.63	5.3	33.49	7.9	25.4	0.60
C7	14 Jan 2025	19	12.19	93.26	5.2	33.50	7.9	25.4	0.56
C7	21 Jan 2025	1	13.54	91.42	8.1	33.41	8.2	25.1	0.98
C7	21 Jan 2025	2	13.54	91.59	8.1	33.41	8.2	25.1	0.94
C7	21 Jan 2025	3	13.54	91.42	8.1	33.41	8.2	25.1	1.07
C7	21 Jan 2025	4	13.54	91.26	8.0	33.41	8.2	25.1	1.23
C7	21 Jan 2025	5	13.53	91.50	8.0	33.41	8.2	25.1	1.47
C7	21 Jan 2025	6	13.48	91.27	7.9	33.41	8.1	25.1	1.62
C7	21 Jan 2025	7	13.35	91.18	7.6	33.42	8.1	25.1	1.56
C7	21 Jan 2025	8	13.20	91.32	7.2	33.42	8.1	25.1	1.24
C7	21 Jan 2025	9	13.05	91.67	6.8	33.43	8.1	25.2	1.13

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C7	21 Jan 2025	10	12.94	92.27	6.6	33.43	8.1	25.2	0.71
C7	21 Jan 2025	11	12.85	92.72	6.4	33.43	8.1	25.2	0.65
C7	21 Jan 2025	12	12.79	93.44	6.3	33.43	8.0	25.2	0.62
C7	21 Jan 2025	13	12.71	93.81	6.2	33.44	8.0	25.2	0.61
C7	21 Jan 2025	14	12.66	93.87	6.1	33.45	8.0	25.3	0.59
C7	21 Jan 2025	15	12.59	93.87	5.9	33.45	8.0	25.3	0.60
C7	21 Jan 2025	16	12.42	93.84	5.7	33.46	8.0	25.3	0.54
C7	21 Jan 2025	17	12.34	93.62	5.6	33.47	8.0	25.3	0.48
C7	21 Jan 2025	18	12.38	92.68	5.5	33.46	8.0	25.3	0.60
C7	28 Jan 2025	1	13.35	90.45	8.6	33.40	8.2	25.1	2.73
C7	28 Jan 2025	2	13.35	90.11	8.5	33.40	8.2	25.1	2.97
C7	28 Jan 2025	3	13.35	89.62	8.6	33.40	8.2	25.1	3.14
C7	28 Jan 2025	4	13.35	87.74	8.6	33.40	8.2	25.1	3.32
C7	28 Jan 2025	5	13.35	90.40	8.6	33.40	8.2	25.1	3.56
C7	28 Jan 2025	6	13.35	89.97	8.5	33.40	8.2	25.1	3.50
C7	28 Jan 2025	7	13.34	90.46	8.5	33.41	8.2	25.1	3.45
C7	28 Jan 2025	8	13.34	90.74	8.5	33.41	8.2	25.1	3.32
C7	28 Jan 2025	9	13.34	90.87	8.5	33.40	8.2	25.1	3.26
C7	28 Jan 2025	10	13.34	90.81	8.5	33.41	8.2	25.1	3.30
C7	28 Jan 2025	11	13.34	90.95	8.4	33.41	8.2	25.1	3.16
C7	28 Jan 2025	12	13.32	91.21	8.3	33.41	8.2	25.1	2.93
C7	28 Jan 2025	13	13.28	91.31	8.3	33.41	8.2	25.1	2.21
C7	28 Jan 2025	14	13.28	92.24	8.2	33.41	8.2	25.1	1.88
C7	28 Jan 2025	15	13.27	93.00	8.2	33.41	8.2	25.1	1.79
C7	28 Jan 2025	16	13.27	93.21	8.2	33.41	8.2	25.1	1.69
C7	28 Jan 2025	17	13.26	93.21	8.1	33.41	8.2	25.1	1.60
C7	28 Jan 2025	18	13.24	93.47	8.0	33.42	8.1	25.1	1.12
C7	28 Jan 2025	19	13.23	95.13	7.8	33.42	8.1	25.1	0.54
C7	28 Jan 2025	20	13.23	96.18	7.8	33.42	8.1	25.1	0.41
C8	06 Jan 2025	1	12.91	86.44	7.8	33.42	8.1	25.2	2.38
C8	06 Jan 2025	2	12.90	86.61	7.8	33.42	8.1	25.2	2.21
C8	06 Jan 2025	3	12.89	86.69	7.7	33.42	8.1	25.2	2.64
C8	06 Jan 2025	4	12.85	86.32	7.5	33.42	8.1	25.2	4.00
C8	06 Jan 2025	5	12.79	85.68	7.2	33.43	8.1	25.2	4.04
C8	06 Jan 2025	6	12.74	85.77	7.0	33.43	8.1	25.2	2.98
C8	06 Jan 2025	7	12.69	86.82	6.8	33.43	8.1	25.2	2.67
C8	06 Jan 2025	8	12.66	87.47	6.7	33.43	8.0	25.2	2.53
C8	06 Jan 2025	9	12.63	88.10	6.6	33.43	8.0	25.2	2.36
C8	06 Jan 2025	10	12.61	88.39	6.5	33.43	8.0	25.3	2.23
C8	06 Jan 2025	11	12.59	88.53	6.5	33.44	8.0	25.3	2.24
C8	06 Jan 2025	12	12.56	88.63	6.4	33.44	8.0	25.3	2.11
C8	06 Jan 2025	13	12.54	88.65	6.3	33.44	8.0	25.3	2.17
C8	06 Jan 2025	14	12.50	88.68	6.2	33.44	8.0	25.3	2.00
C8	06 Jan 2025	15	12.47	88.80	6.1	33.45	8.0	25.3	1.80
C8	06 Jan 2025	16	12.41	88.86	5.9	33.46	8.0	25.3	1.66
C8	06 Jan 2025	17	12.32	88.92	5.7	33.48	8.0	25.3	1.42
C8	06 Jan 2025	18	12.24	88.75	5.5	33.49	8.0	25.4	1.25
C8	06 Jan 2025	19	11.79	87.60	4.7	33.58	7.9	25.5	0.73
C8	06 Jan 2025	20	11.63	83.43	4.1	33.61	7.9	25.6	0.50
C8	14 Jan 2025	1	12.60	83.00	7.3	33.44	8.0	25.3	0.97
C8	14 Jan 2025	2	12.59	82.97	7.3	33.44	8.0	25.3	0.98
C8	14 Jan 2025	3	12.59	82.73	7.2	33.44	8.0	25.3	1.20
C8	14 Jan 2025	4	12.58	82.83	7.2	33.44	8.0	25.3	1.49
C8	14 Jan 2025	5	12.58	83.09	7.2	33.44	8.0	25.3	1.70
C8	14 Jan 2025	6	12.57	83.01	7.2	33.44	8.0	25.3	1.83
C8	14 Jan 2025	7	12.57	83.16	7.1	33.44	8.0	25.3	1.91
C8	14 Jan 2025	8	12.57	83.69	7.0	33.44	8.0	25.3	1.91
C8	14 Jan 2025	9	12.57	84.06	7.0	33.45	8.0	25.3	1.92
C8	14 Jan 2025	10	12.53	84.46	6.8	33.45	8.0	25.3	1.90
C8	14 Jan 2025	11	12.48	85.27	6.5	33.46	8.0	25.3	1.57
C8	14 Jan 2025	12	12.44	86.18	6.3	33.47	8.0	25.3	1.52
C8	14 Jan 2025	13	12.36	86.51	6.0	33.48	8.0	25.3	1.30
C8	14 Jan 2025	14	12.24	86.95	5.7	33.49	8.0	25.4	1.04
C8	14 Jan 2025	15	12.16	87.15	5.5	33.49	8.0	25.4	0.89
C8	14 Jan 2025	16	12.13	86.17	5.3	33.49	8.0	25.4	0.82
C8	14 Jan 2025	17	12.07	85.82	5.2	33.50	7.9	25.4	0.85
C8	14 Jan 2025	18	11.98	85.26	5.0	33.51	7.9	25.4	0.73
C8	14 Jan 2025	19	11.83	85.95	4.7	33.53	7.9	25.5	0.63
C8	14 Jan 2025	20	11.80	81.99	4.4	33.54	7.9	25.5	0.65
C8	21 Jan 2025	1	13.57	90.18	8.1	33.41	8.2	25.0	0.86

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	21 Jan 2025	2	13.56	90.41	8.2	33.41	8.2	25.0	0.87
C8	21 Jan 2025	3	13.56	90.79	8.1	33.41	8.2	25.0	1.06
C8	21 Jan 2025	4	13.56	91.06	8.2	33.41	8.2	25.0	1.36
C8	21 Jan 2025	5	13.55	91.04	8.1	33.41	8.2	25.0	1.62
C8	21 Jan 2025	6	13.53	90.92	8.1	33.41	8.2	25.1	1.79
C8	21 Jan 2025	7	13.44	91.04	7.8	33.41	8.2	25.1	1.70
C8	21 Jan 2025	8	13.23	91.19	7.3	33.42	8.1	25.1	1.24
C8	21 Jan 2025	9	13.03	91.27	6.9	33.42	8.1	25.2	0.89
C8	21 Jan 2025	10	12.97	91.52	6.7	33.42	8.1	25.2	0.72
C8	21 Jan 2025	11	12.94	91.66	6.6	33.42	8.1	25.2	0.72
C8	21 Jan 2025	12	12.88	92.46	6.6	33.42	8.1	25.2	0.68
C8	21 Jan 2025	13	12.81	93.18	6.4	33.43	8.1	25.2	0.75
C8	21 Jan 2025	14	12.72	93.35	6.3	33.43	8.0	25.2	0.67
C8	21 Jan 2025	15	12.67	93.32	6.1	33.43	8.0	25.2	0.63
C8	21 Jan 2025	16	12.52	92.94	6.0	33.44	8.0	25.3	0.61
C8	21 Jan 2025	17	12.43	92.28	5.8	33.45	8.0	25.3	0.54
C8	21 Jan 2025	18	12.38	91.90	5.7	33.45	8.0	25.3	0.52
C8	21 Jan 2025	19	12.38	91.51	5.7	33.45	8.0	25.3	0.59
C8	28 Jan 2025	1	13.45	90.03	8.6	33.39	8.2	25.1	2.69
C8	28 Jan 2025	2	13.45	90.00	8.6	33.39	8.2	25.1	2.67
C8	28 Jan 2025	3	13.45	90.16	8.6	33.39	8.2	25.1	2.76
C8	28 Jan 2025	4	13.45	90.11	8.5	33.39	8.2	25.1	3.14
C8	28 Jan 2025	5	13.44	89.95	8.5	33.39	8.2	25.1	3.51
C8	28 Jan 2025	6	13.43	90.02	8.5	33.40	8.2	25.1	3.74
C8	28 Jan 2025	7	13.42	90.04	8.5	33.40	8.2	25.1	3.46
C8	28 Jan 2025	8	13.42	90.27	8.5	33.40	8.2	25.1	3.22
C8	28 Jan 2025	9	13.41	90.46	8.5	33.40	8.2	25.1	3.22
C8	28 Jan 2025	10	13.41	90.61	8.4	33.40	8.2	25.1	3.10
C8	28 Jan 2025	11	13.34	90.88	8.4	33.41	8.2	25.1	2.80
C8	28 Jan 2025	12	13.30	91.23	8.3	33.41	8.2	25.1	2.74
C8	28 Jan 2025	13	13.28	91.69	8.2	33.41	8.2	25.1	2.35
C8	28 Jan 2025	14	13.27	92.20	8.2	33.41	8.2	25.1	2.19
C8	28 Jan 2025	15	13.26	92.76	8.2	33.41	8.2	25.1	1.88
C8	28 Jan 2025	16	13.25	93.11	8.2	33.41	8.1	25.1	1.56
C8	28 Jan 2025	17	13.24	93.79	8.1	33.42	8.1	25.1	1.25
C8	28 Jan 2025	18	13.21	94.36	8.0	33.42	8.1	25.1	0.94
C8	28 Jan 2025	19	13.20	95.03	7.9	33.42	8.1	25.1	0.71
C8	28 Jan 2025	20	13.20	95.59	7.9	33.42	8.1	25.1	0.60

NA = not available

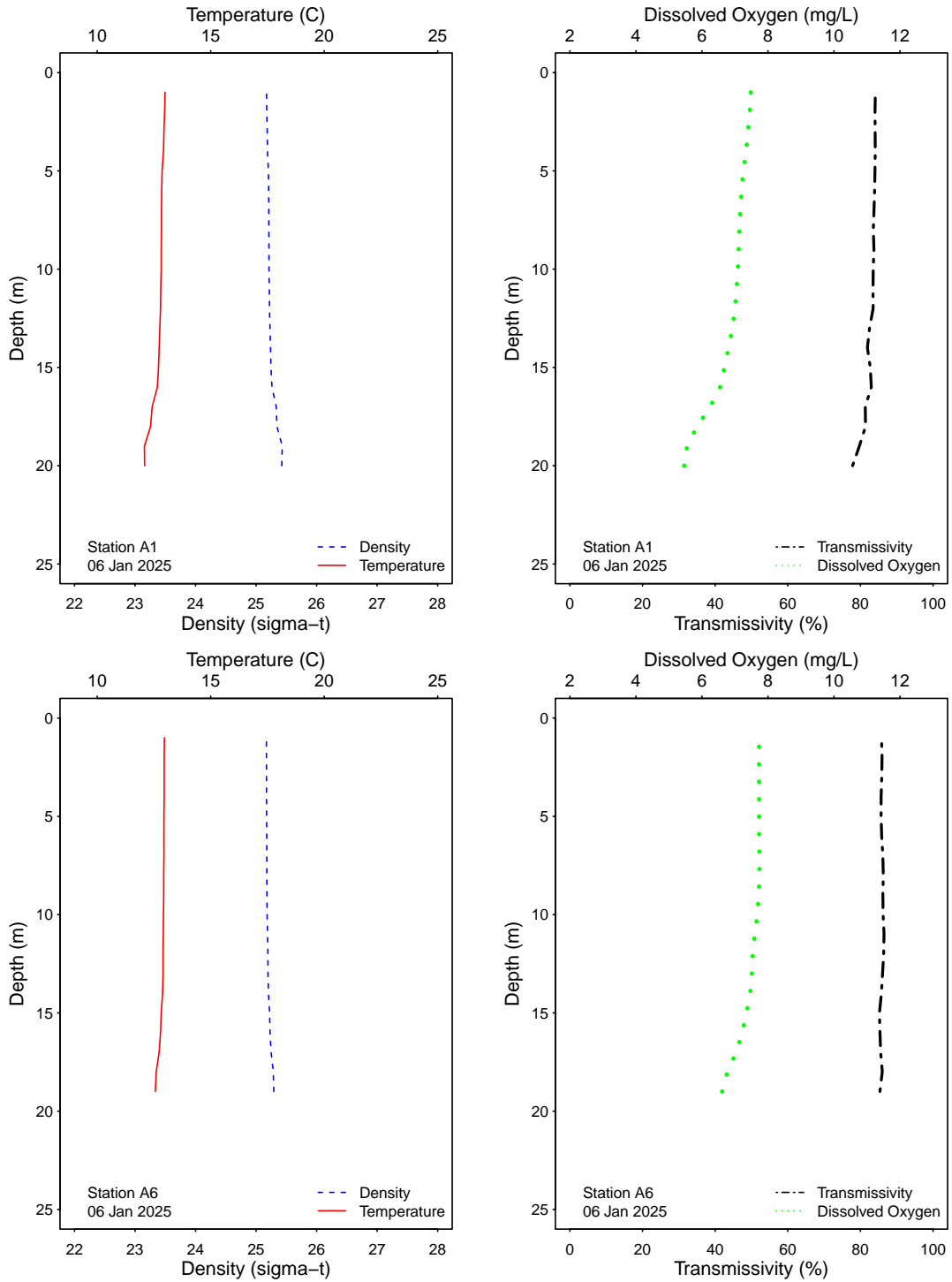


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

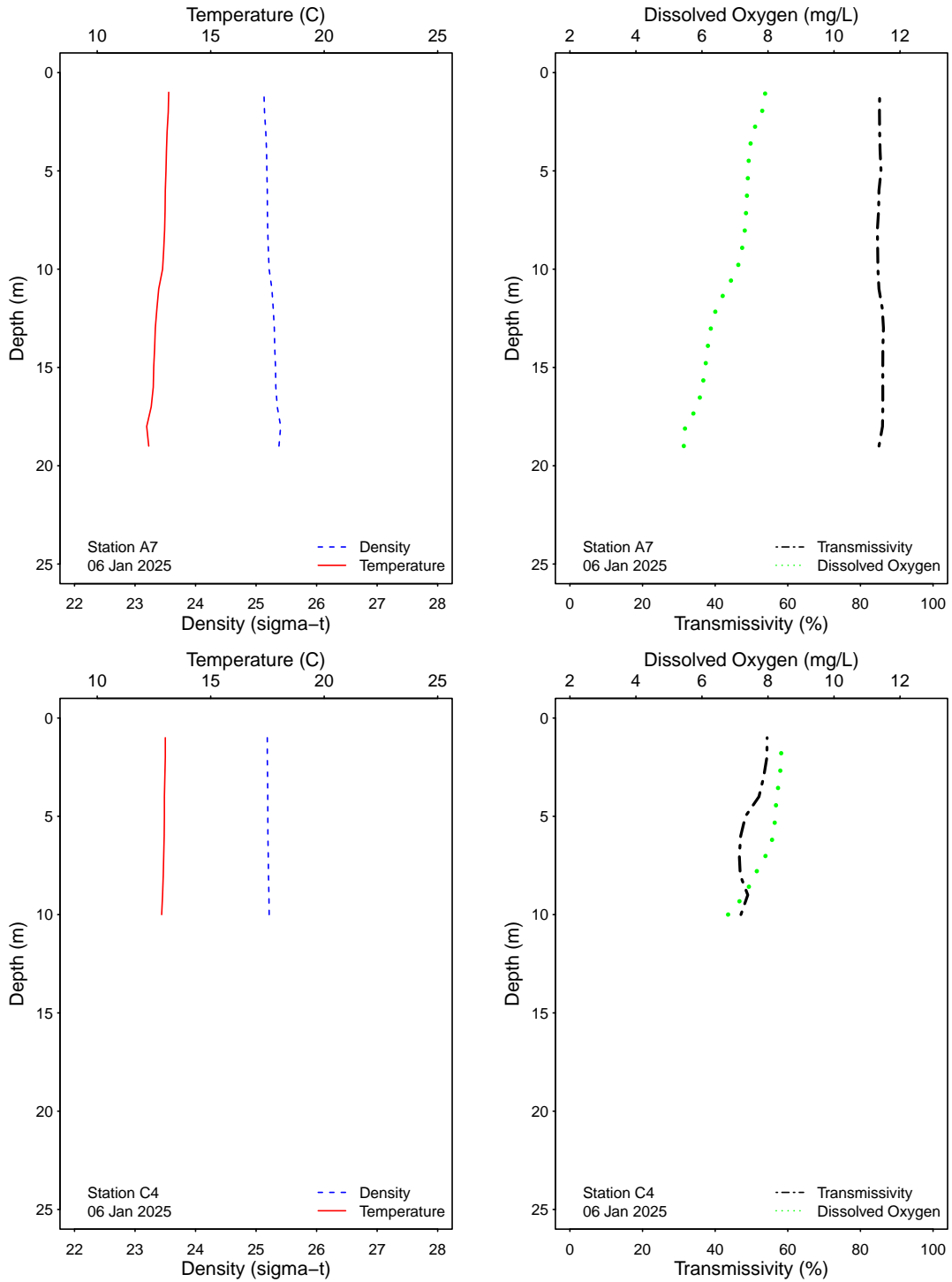


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

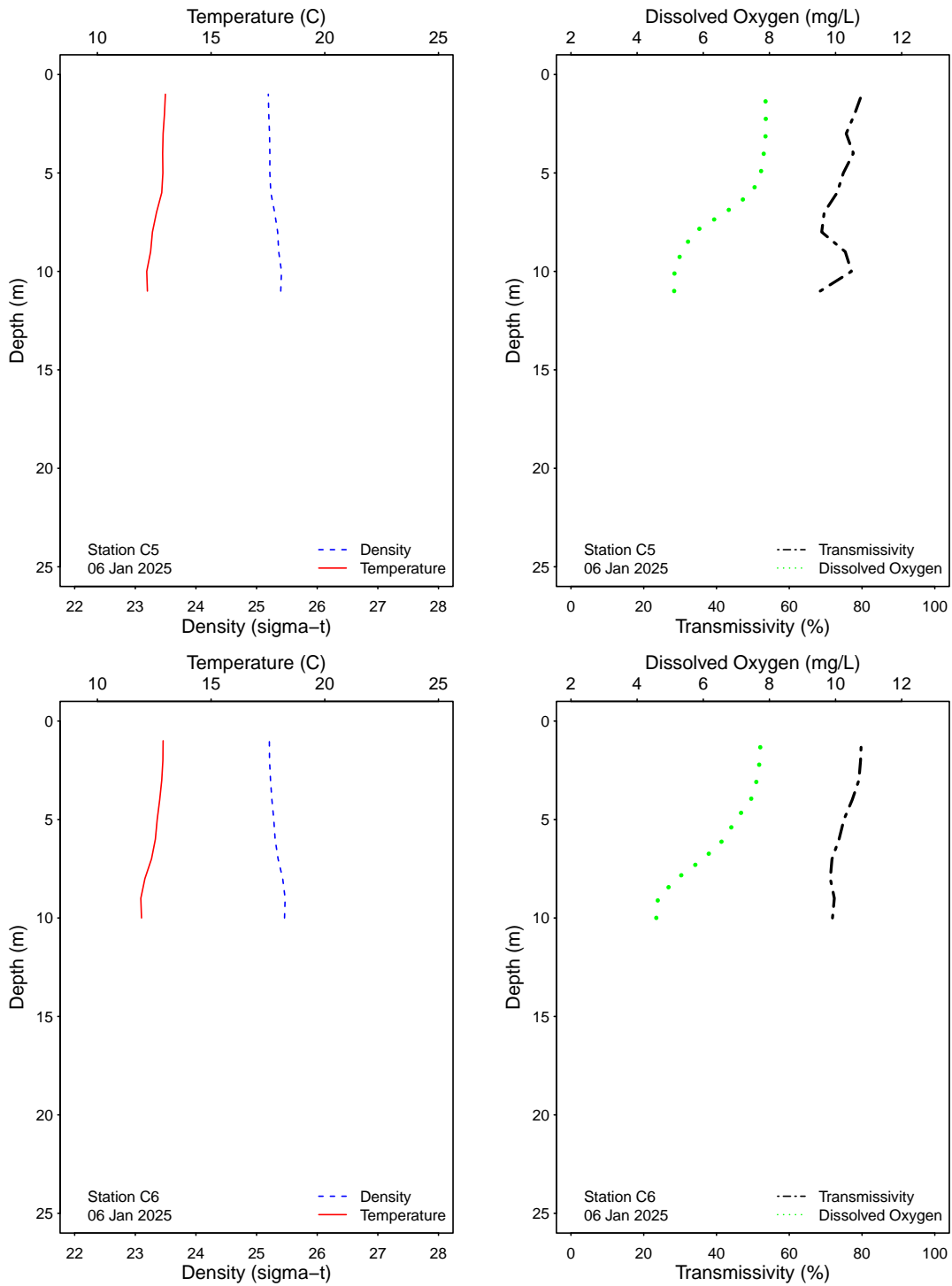


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

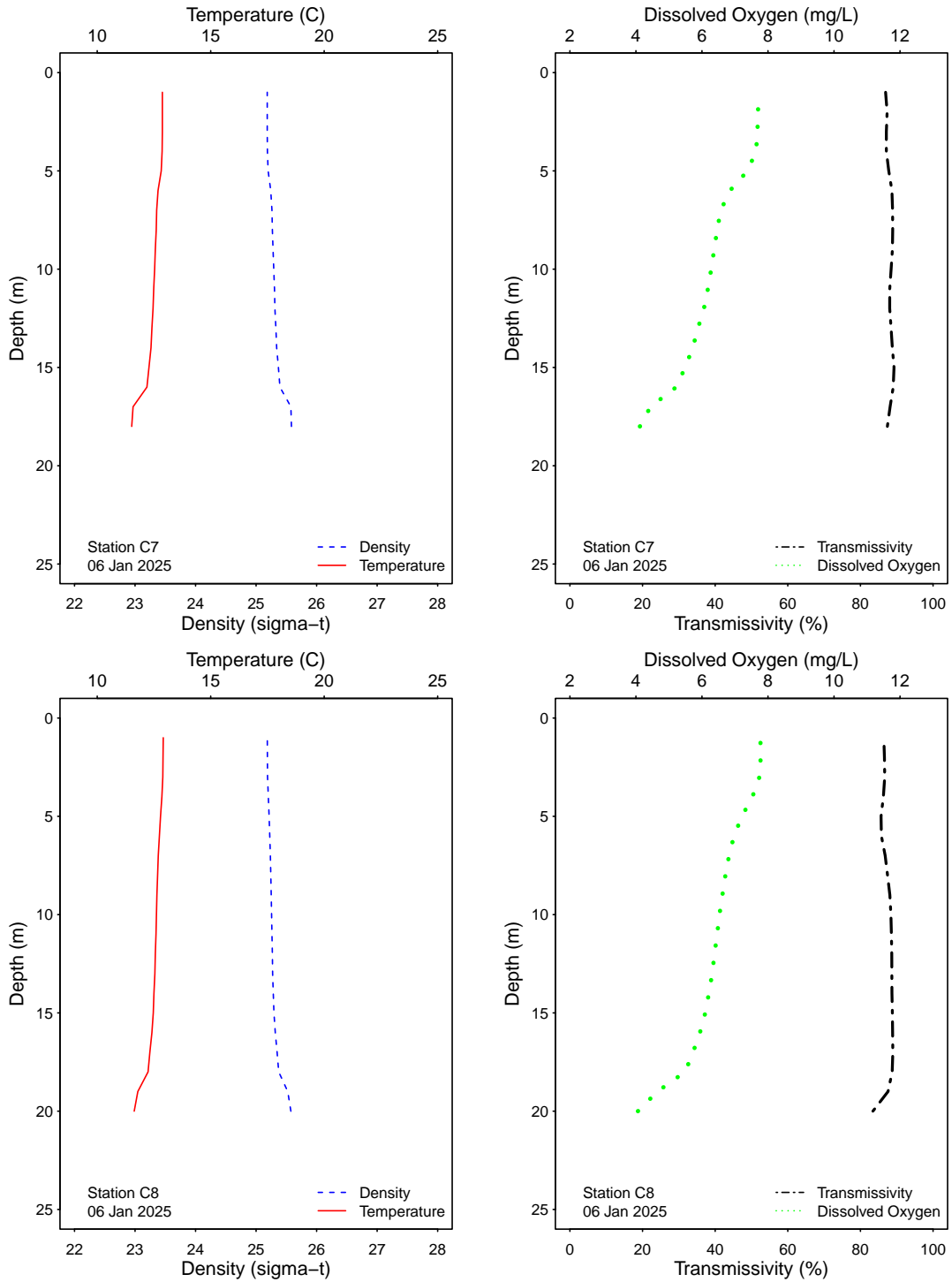


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

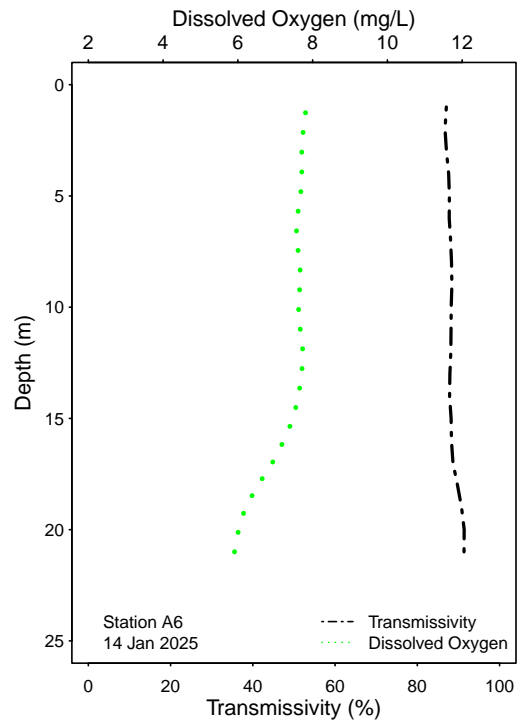
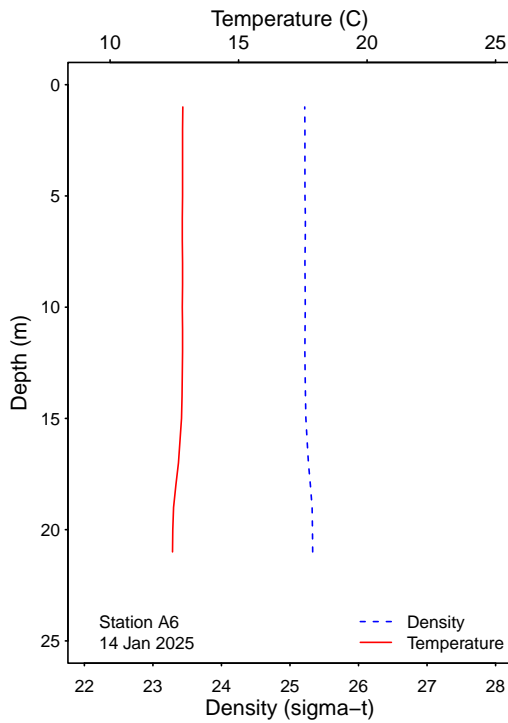
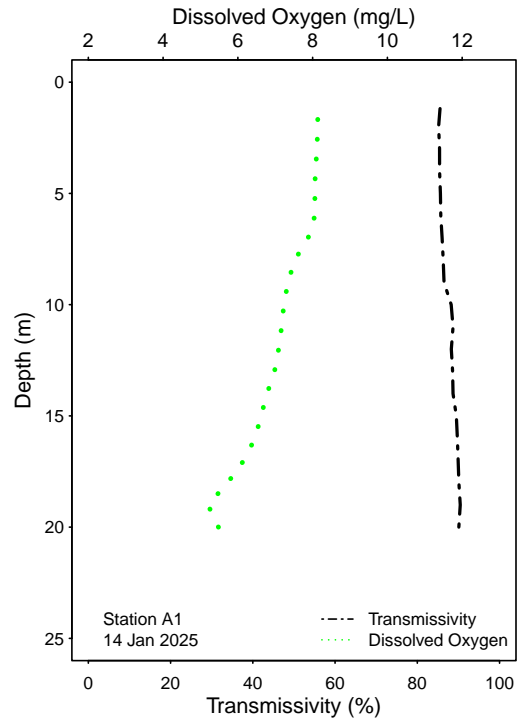
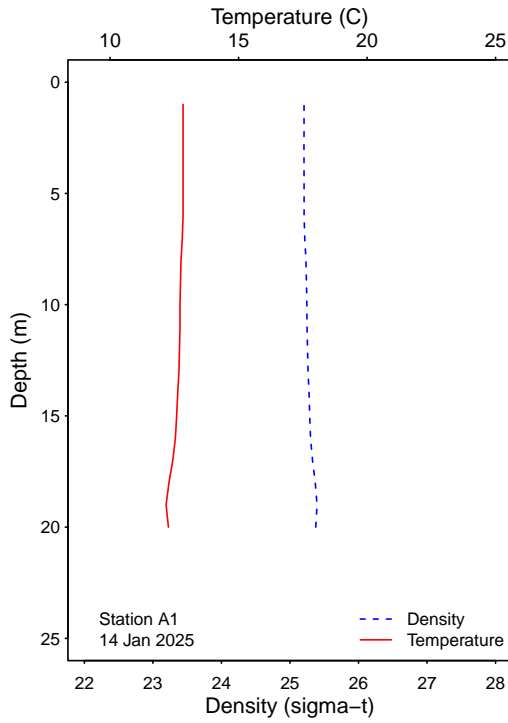


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

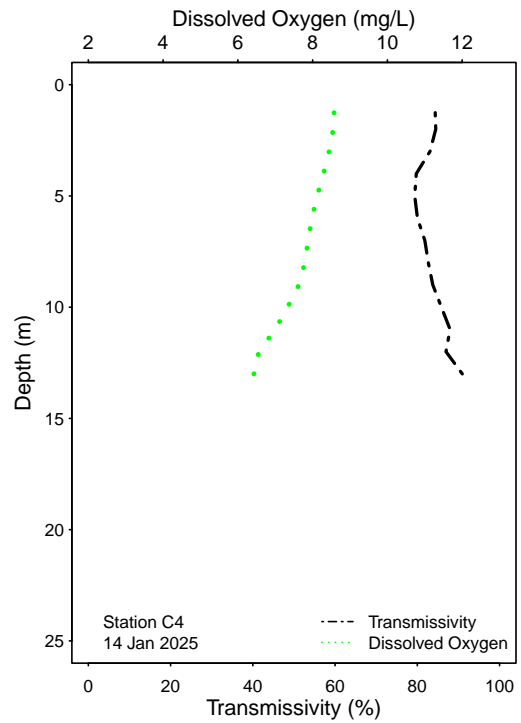
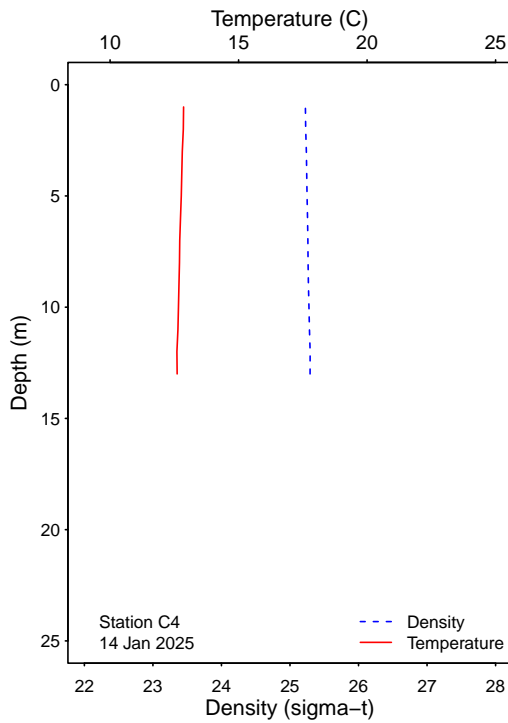
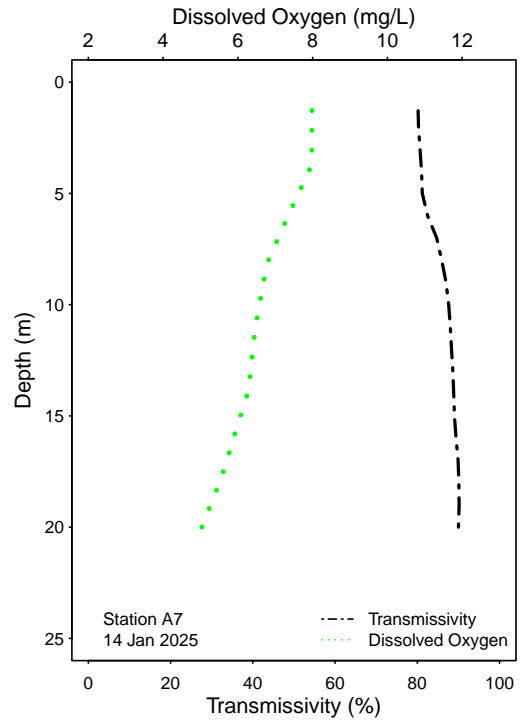
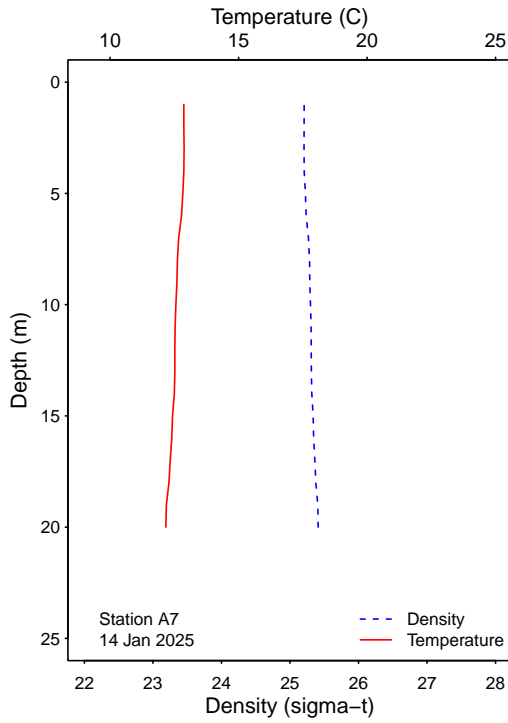


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

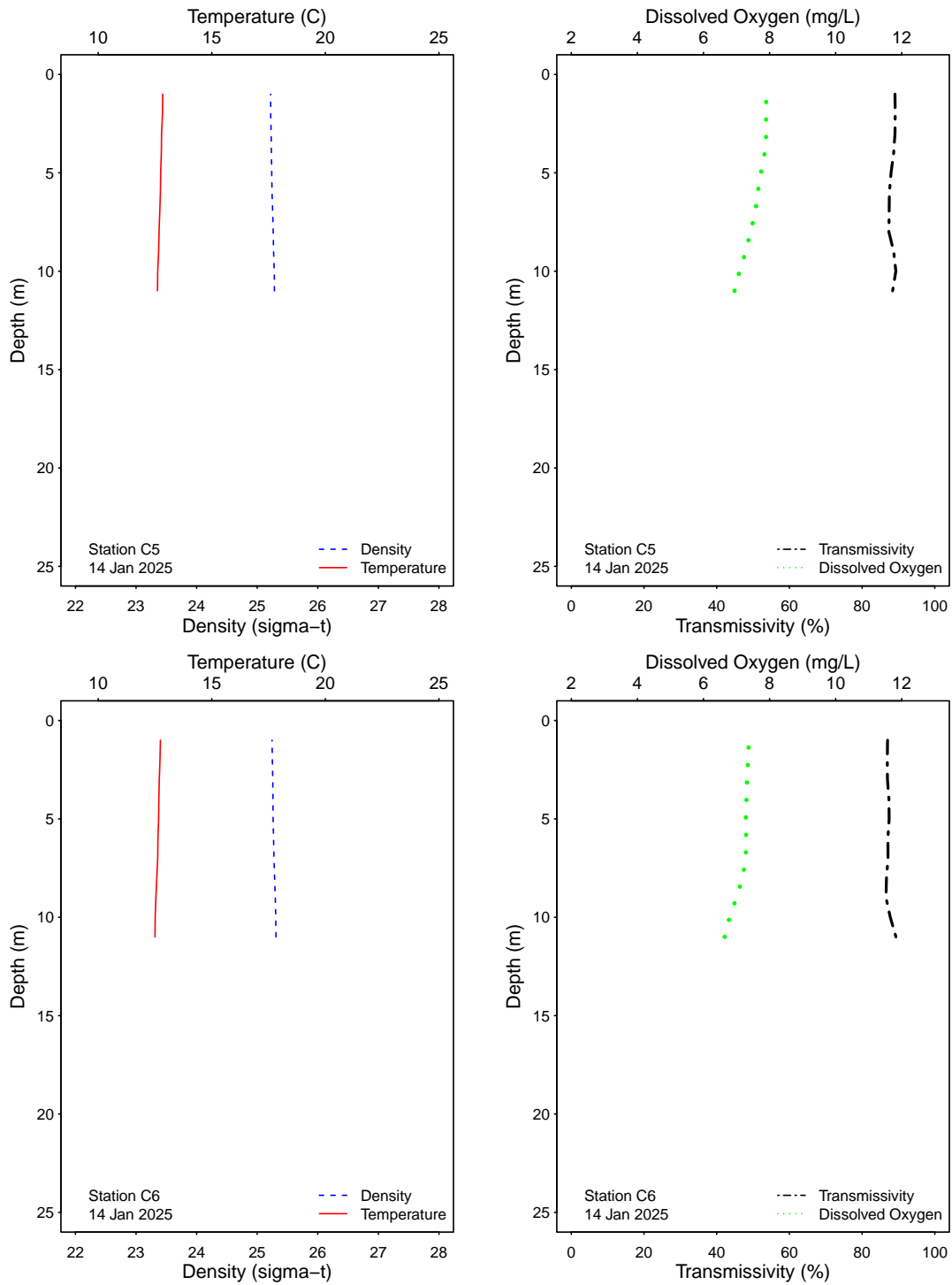


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

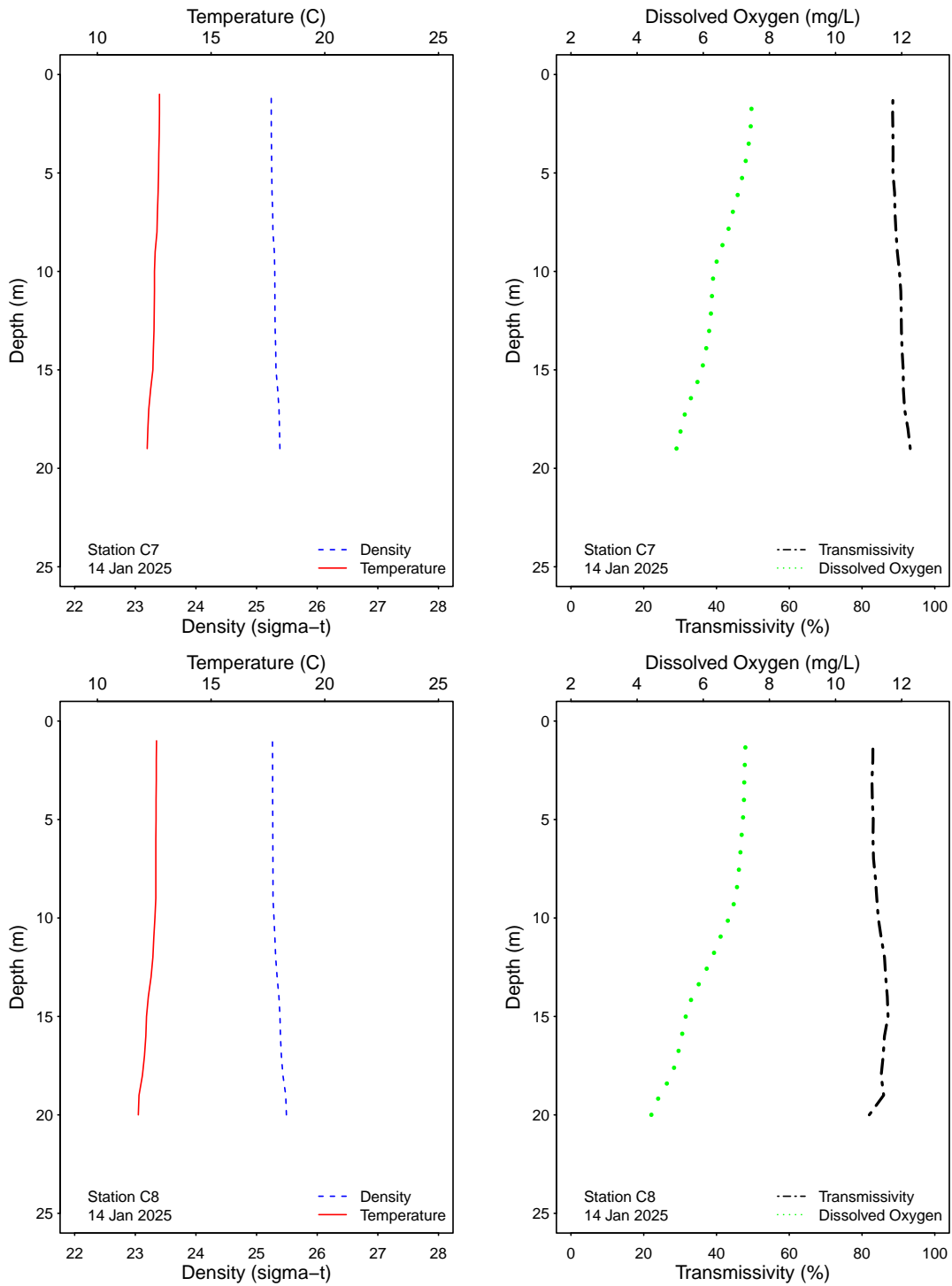


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

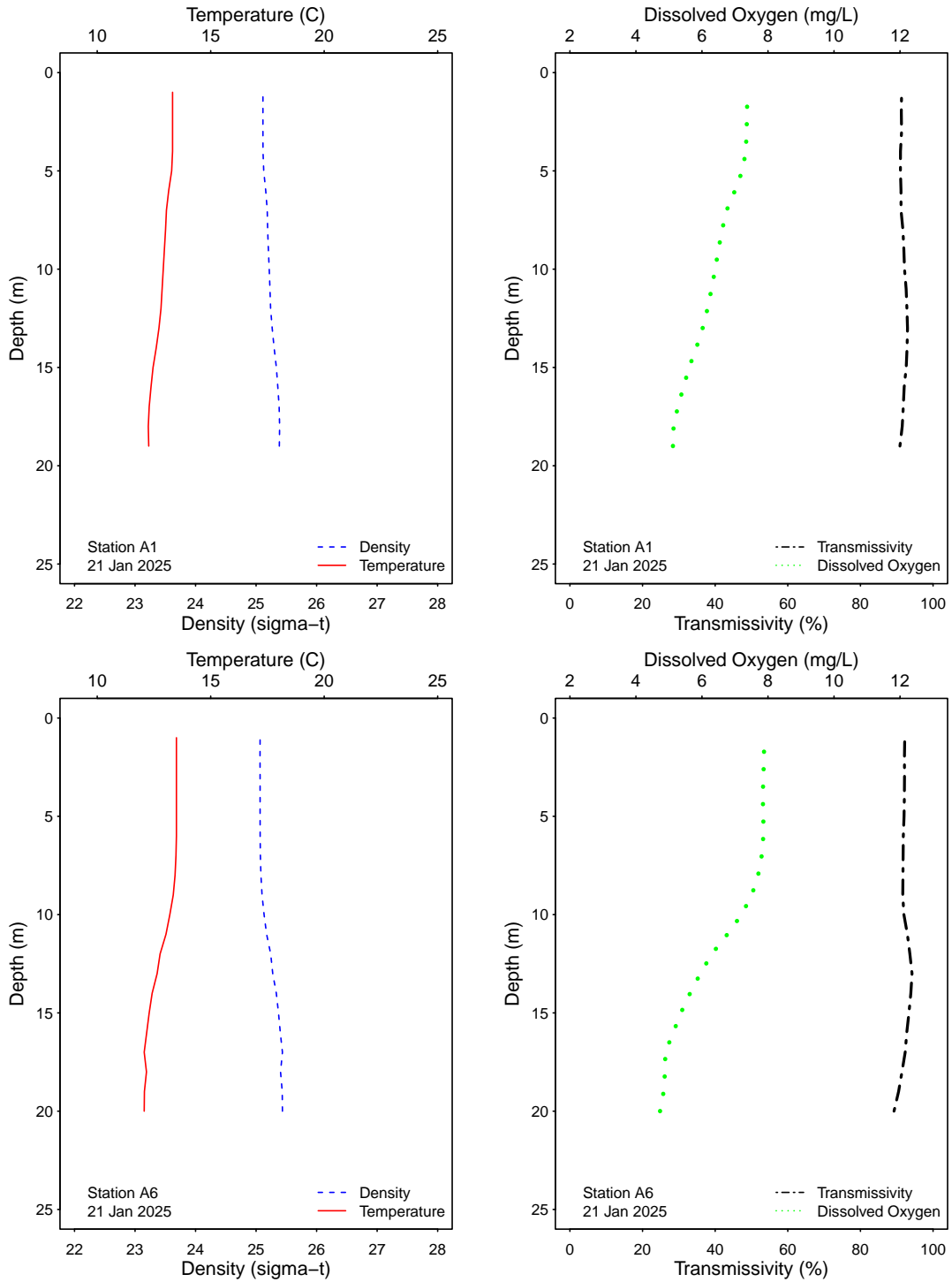


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

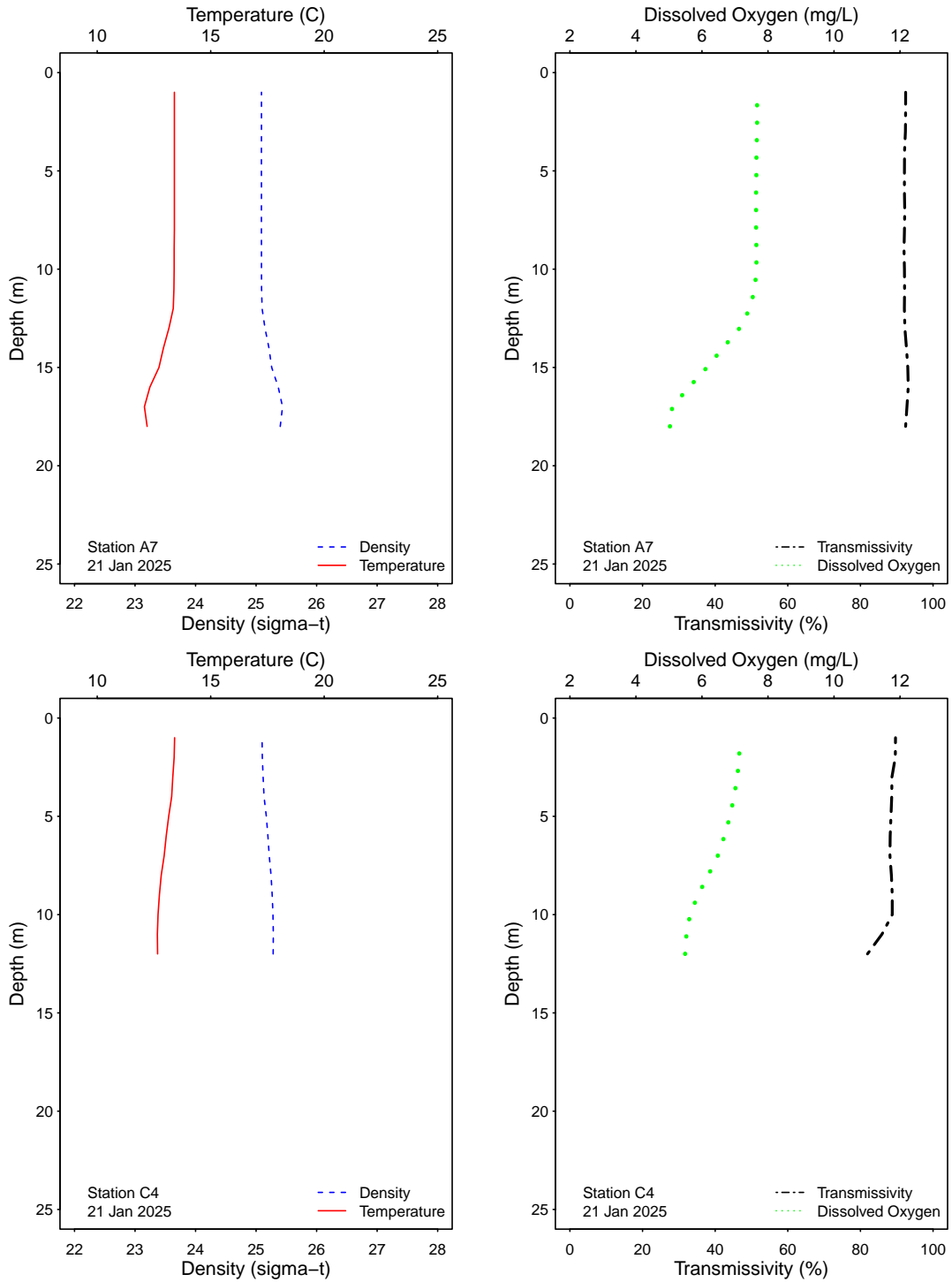


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

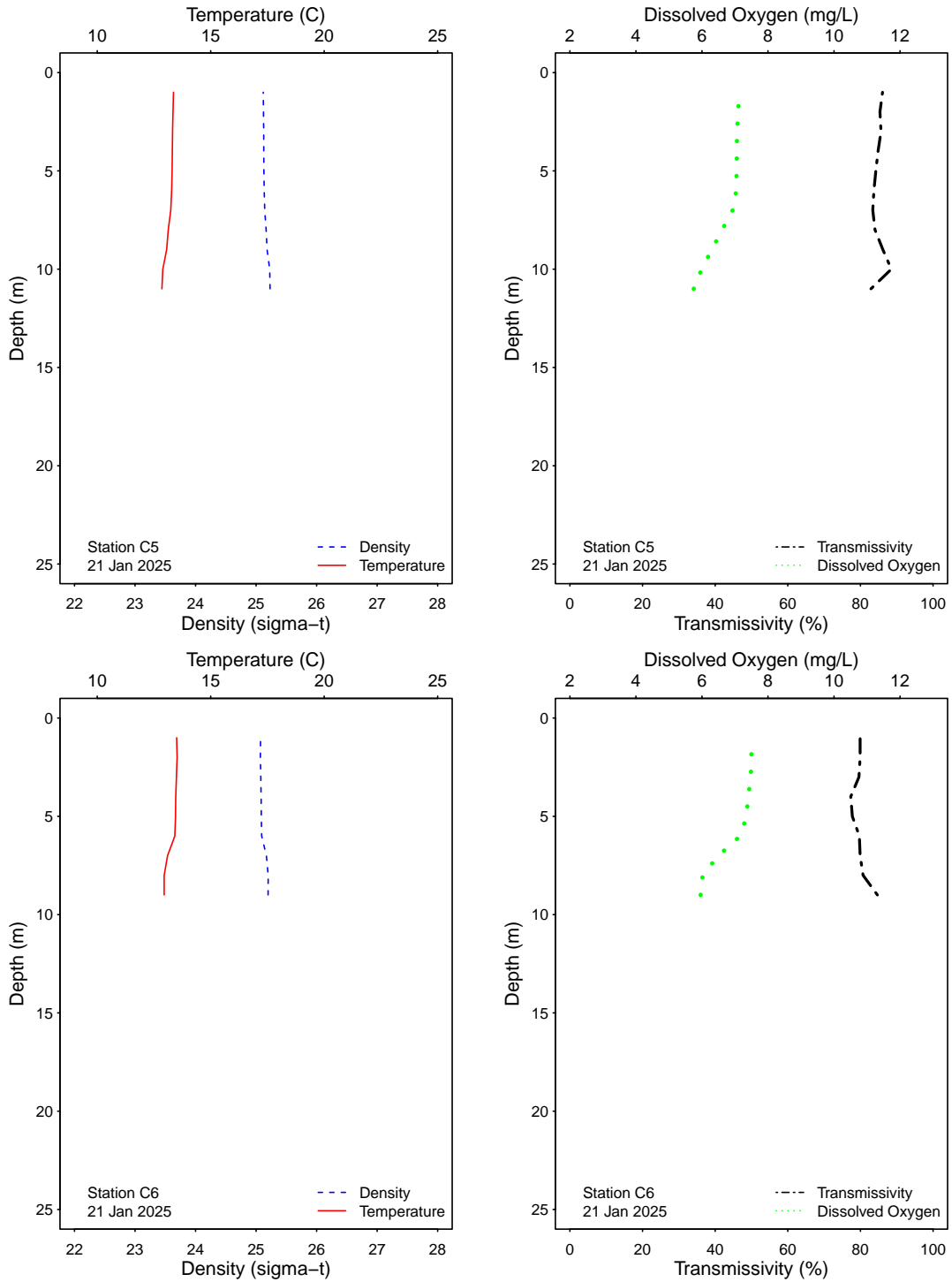


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

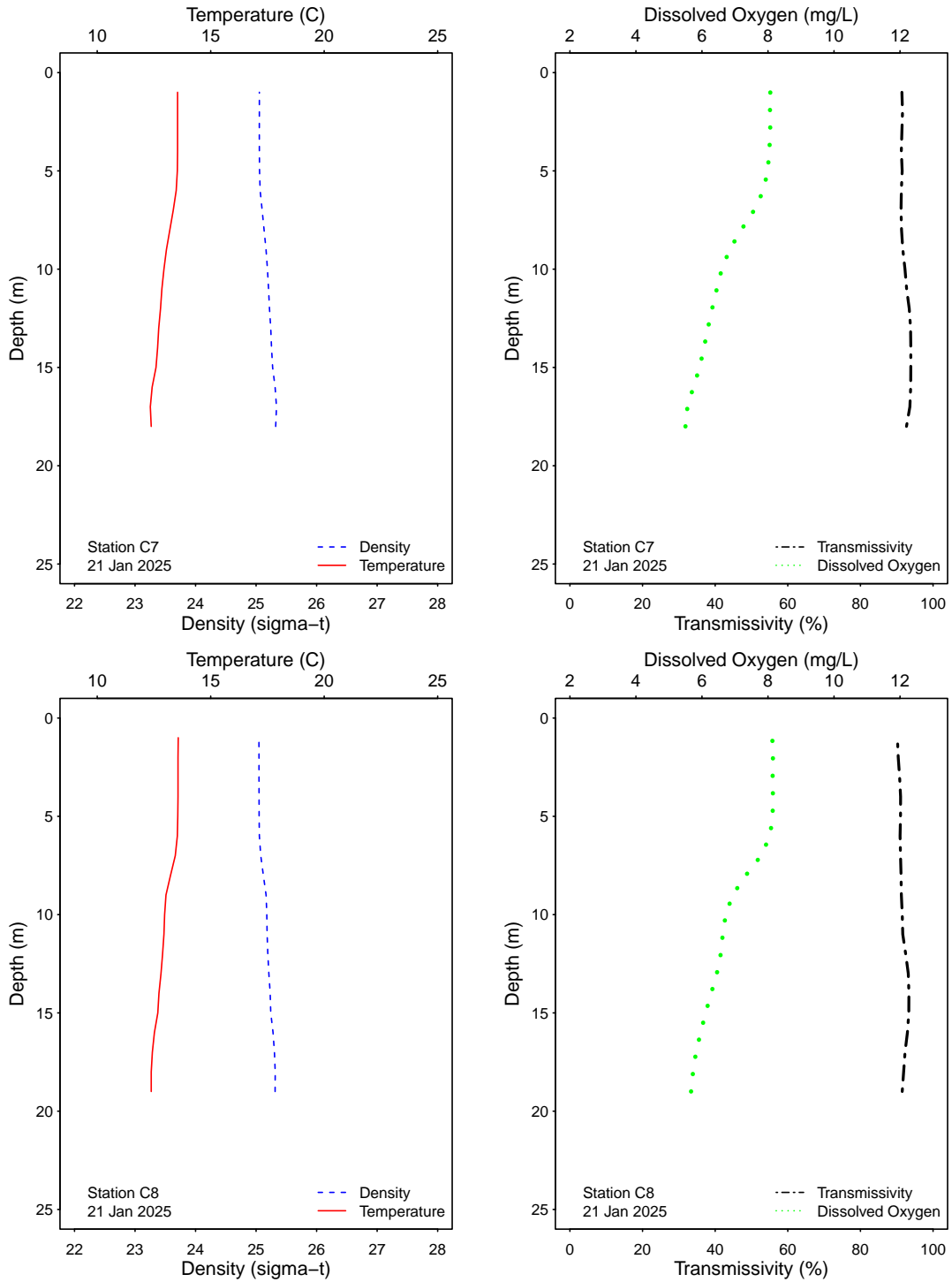


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

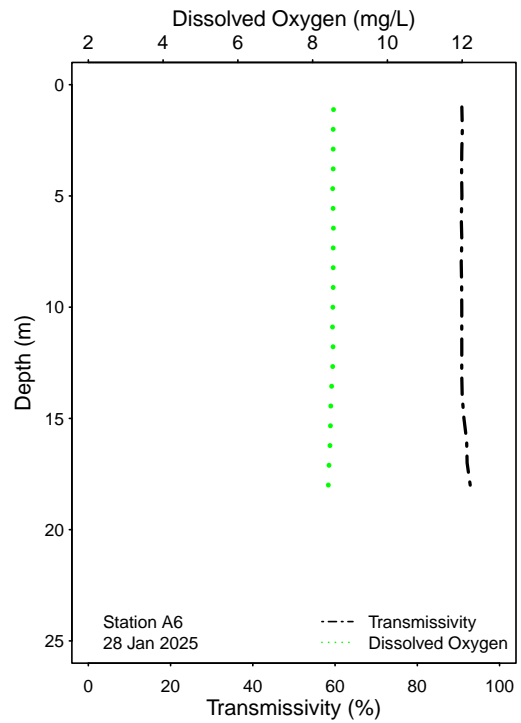
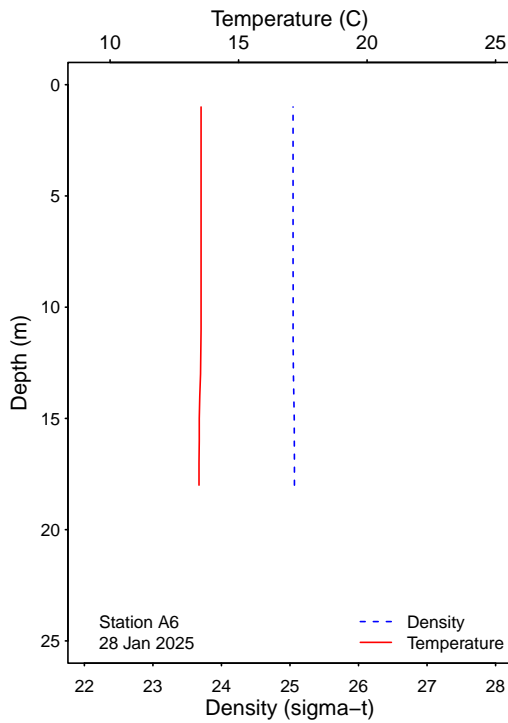
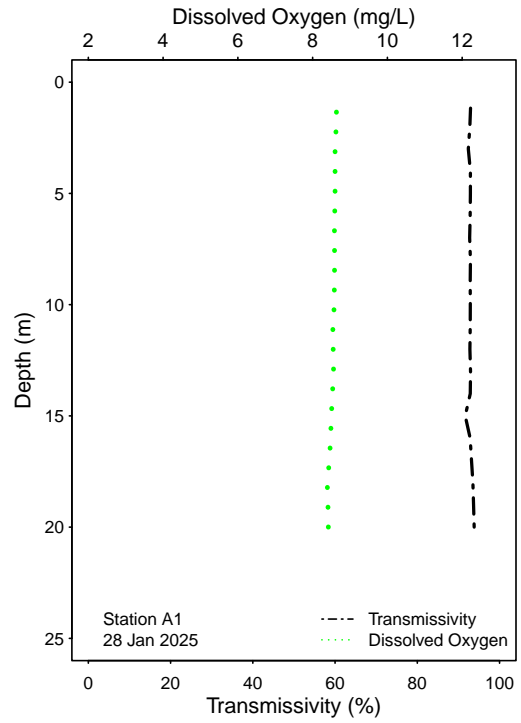
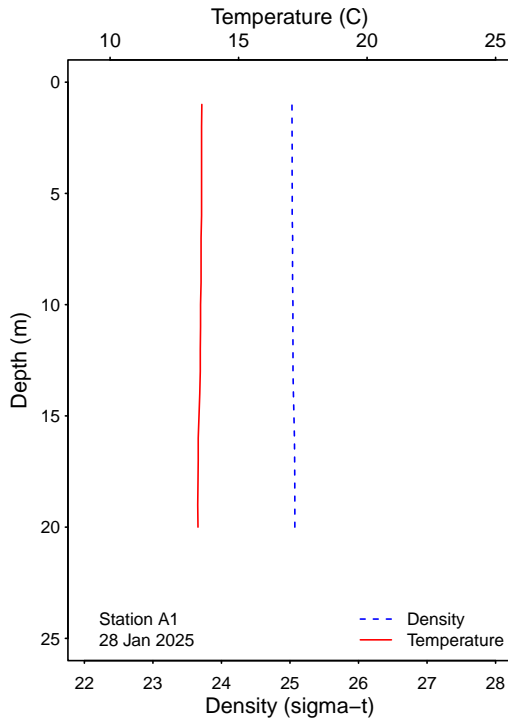


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

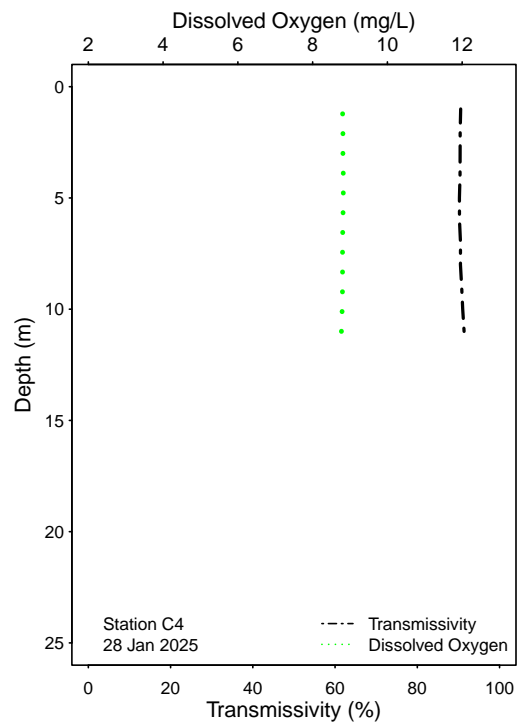
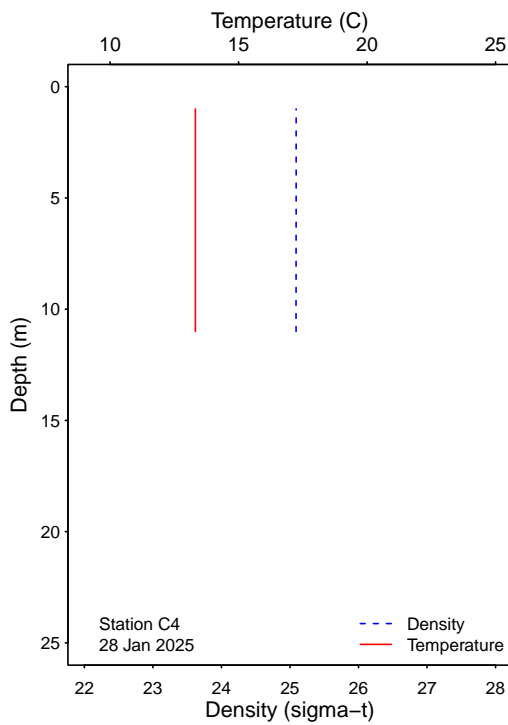
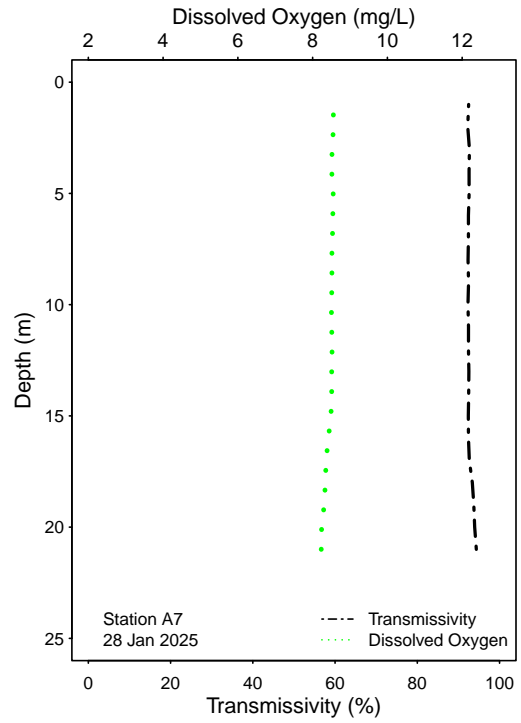
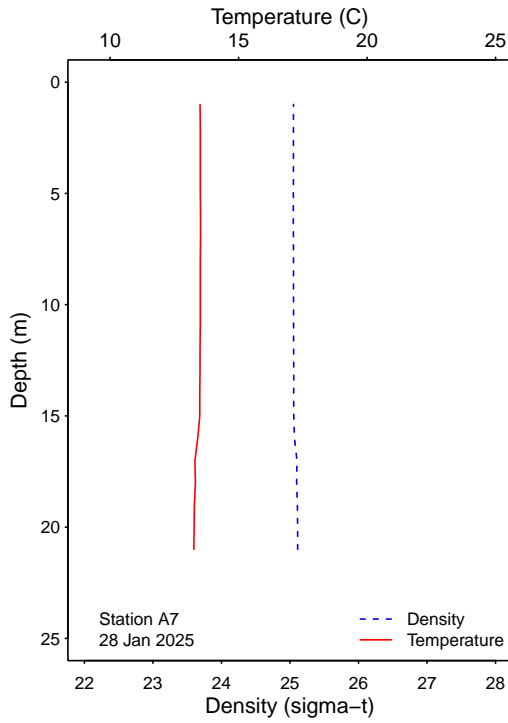


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

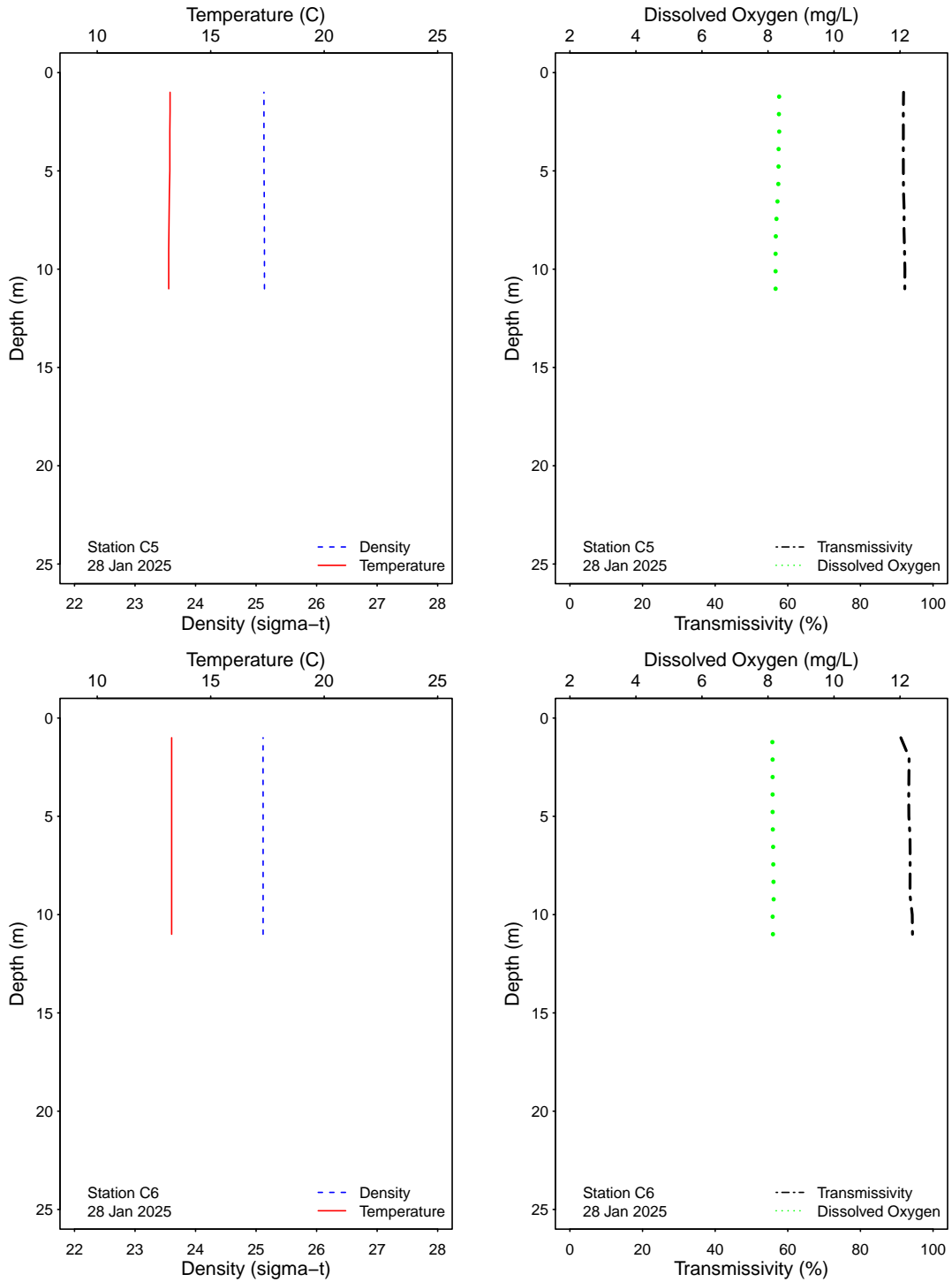


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

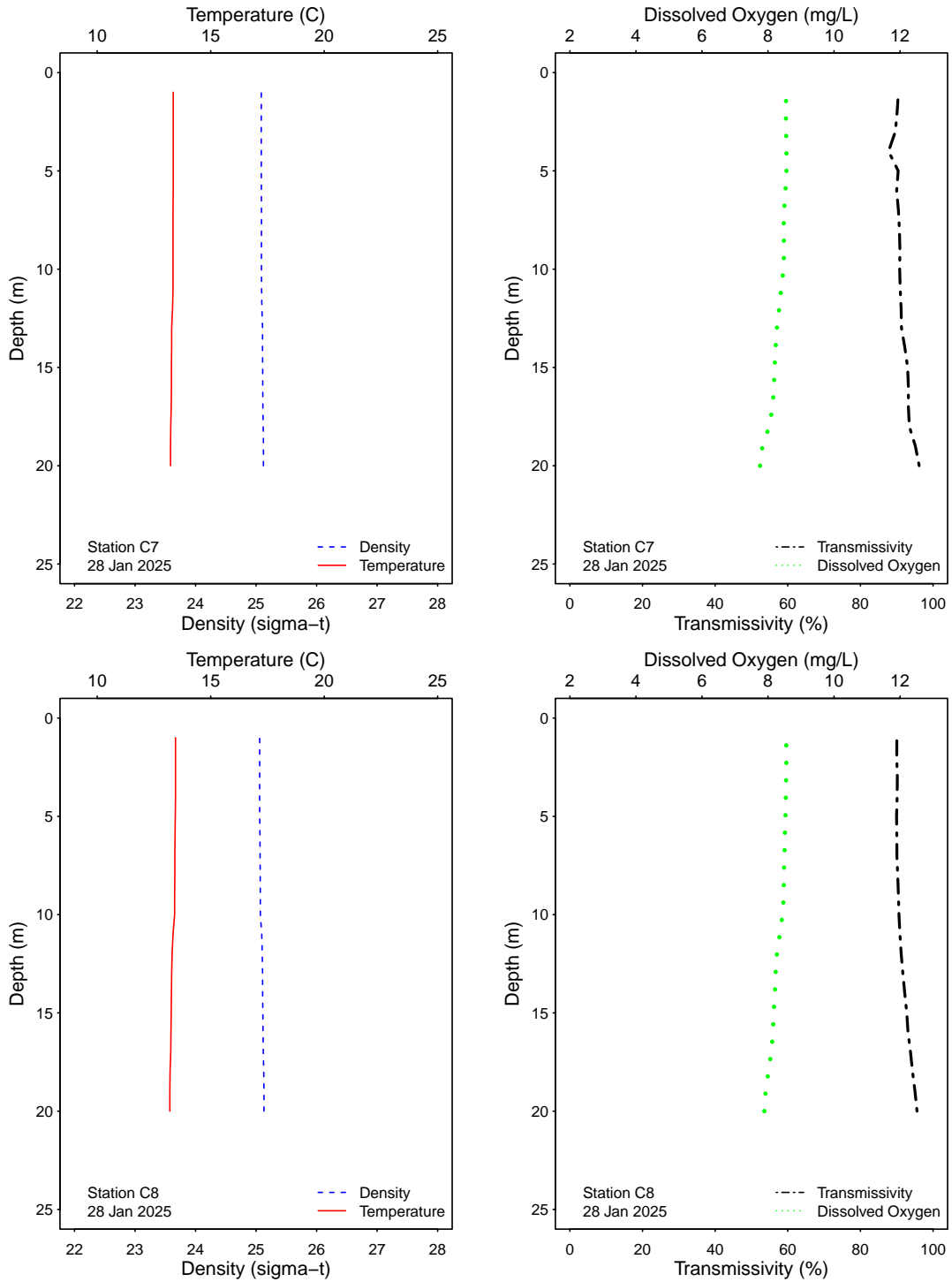


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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	06 Jan 2025	18	KT	LAB DUPLICATE	16	2	2
A7	14 Jan 2025	18	NCD	LAB DUPLICATE	60	20	2
A7	21 Jan 2025	18	ADG	LAB DUPLICATE	160	32	4
A7	28 Jan 2025	18	JF	LAB DUPLICATE	2	2	2
C7	06 Jan 2025	18	KT	LAB DUPLICATE	20	4	6
C7	14 Jan 2025	18	NCD	LAB DUPLICATE	14	4	2
C7	21 Jan 2025	18	ADG	LAB DUPLICATE	46	8	2
C7	28 Jan 2025	18	JF	LAB DUPLICATE	10	2	6
C8	06 Jan 2025	12	KT	LAB DUPLICATE	16	2	2
C8	14 Jan 2025	12	NCD	LAB DUPLICATE	2	4	2
C8	21 Jan 2025	12	ADG	LAB DUPLICATE	2	2	2
C8	28 Jan 2025	12	JF	LAB DUPLICATE	4	2	4
D12	02 Jan 2025		KA	FIELD DUPLICATE	20	2	4
D12	02 Jan 2025		KA	LAB DUPLICATE	20	2	4
D12	08 Jan 2025		ADG	FIELD DUPLICATE	2	2	2
D12	08 Jan 2025		ADG	LAB DUPLICATE	2	2	2
D12	13 Jan 2025		ND	FIELD DUPLICATE	4	4	2
D12	13 Jan 2025		ND	LAB DUPLICATE	20	14	4
D12	22 Jan 2025		WT	FIELD DUPLICATE	4	2	2
D12	22 Jan 2025		WT	LAB DUPLICATE	4	6	2
D12	29 Jan 2025		ADG	LAB DUPLICATE	4	2	2
D12	29 Jan 2025		ADG	FIELD DUPLICATE	2	2	6

ns = not sampled

ND = no data

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APPENDIX B

New 2019 Ocean Plan
Water Quality Objectives

Shore Stations

Table B.1

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

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

* 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-B	D9	D10	D11	D12
January	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-B	D9	D10	D11	D12
01 Jan 2025	*7	*30	*2	*60	*30	*20	*20	*20
02 Jan 2025	4	20	2	100	40	20	20	20
03 Jan 2025	*3	*20	*2	*60	*120	*20	*30	*20
04 Jan 2025	*3	*20	*2	*60	*120	*20	*30	*20
05 Jan 2025	*3	*20	*2	*60	*120	*20	*30	*20
06 Jan 2025	*3	*20	*2	*60	*120	*20	*30	*20
07 Jan 2025	*3	*20	*2	*60	*120	*20	*30	*20
08 Jan 2025	4	20	2	40	40	20	20	20
09 Jan 2025	4	20	2	40	40	20	20	20
10 Jan 2025	*4	*20	*2	*30	*120	*20	*20	*20
11 Jan 2025	*4	*20	*2	*30	*120	*20	*20	*20
12 Jan 2025	*4	*20	*2	*30	*120	*20	*20	*20
13 Jan 2025	4	20	2	40	40	20	20	20
14 Jan 2025	4	20	2	40	40	20	20	20
15 Jan 2025	4	20	2	40	40	20	20	20
16 Jan 2025	4	20	2	40	40	20	20	20
17 Jan 2025	*3	*20	*2	*60	*30	*20	*20	*20
18 Jan 2025	*3	*20	*2	*60	*30	*20	*20	*20
19 Jan 2025	*3	*20	*2	*60	*30	*20	*20	*20
20 Jan 2025	*3	*20	*2	*60	*30	*20	*20	*20
21 Jan 2025	*3	*20	*2	*60	*30	*20	*20	*20
22 Jan 2025	2	20	2	40	20	20	20	20
23 Jan 2025	2	20	2	40	20	20	20	20
24 Jan 2025	2	20	2	40	20	20	20	20
25 Jan 2025	*3	*20	*2	*60	*14	*14	*28	*11
26 Jan 2025	*3	*20	*2	*60	*14	*14	*28	*11
27 Jan 2025	*3	*20	*2	*60	*14	*14	*28	*11
28 Jan 2025	*3	*20	*2	*60	*14	*14	*28	*11
29 Jan 2025	2	20	2	40	8	20	36	14
30 Jan 2025	2	20	2	40	8	20	36	14
31 Jan 2025	2	20	2	40	8	20	36	14

* 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-B	D9	D10	D11	D12
January	IC	IC	IC	E	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Kelp Stations

Table B.5

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

* Geometric mean calculated using n<5

Table B.6

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	A1	A6	A7	C4	C5	C6	C7	C8
January	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 MedianTM 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 Jan 2025	*2	*6	*28	*2	*28	*28	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2	*12
02 Jan 2025	*2	*6	*28	*2	*28	*28	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2	*12
03 Jan 2025	*2	*6	*28	*2	*28	*28	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2	*12
04 Jan 2025	*2	*6	*28	*2	*28	*28	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2	*12
05 Jan 2025	*2	*6	*28	*2	*28	*28	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2	*12
06 Jan 2025	2	2	6	2	24	24	2	6	8	2	2	2	2	2	2	2	2	2	2	2	4	2	2	6	
07 Jan 2025	2	2	6	2	24	24	2	6	8	2	2	2	2	2	2	2	2	2	2	2	4	2	2	6	
08 Jan 2025	2	2	6	2	24	24	2	6	8	2	2	2	2	2	2	2	2	2	2	2	4	2	2	6	
09 Jan 2025	2	2	6	2	24	24	2	6	8	2	2	2	2	2	2	2	2	2	2	2	4	2	2	6	
10 Jan 2025	*2	*6	*28	*2	*36	*36	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*3	*2	*5	
11 Jan 2025	*2	*6	*28	*2	*36	*36	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*3	*2	*5	
12 Jan 2025	*2	*6	*28	*2	*36	*36	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*3	*2	*5	
13 Jan 2025	*2	*6	*28	*2	*36	*36	*2	*9	*15	*2	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*12	*3	*2	*5	
14 Jan 2025	2	4	6	2	24	24	2	12	22	2	4	2	2	2	2	2	2	2	2	6	20	4	2	6	
15 Jan 2025	2	4	6	2	24	24	2	12	22	2	4	2	2	2	2	2	2	2	2	6	20	4	2	6	
16 Jan 2025	*2	*3	*5	*3	*5	*20	*2	*9	*51	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*7	*30	*3	*2	*11	
17 Jan 2025	*2	*3	*5	*3	*5	*20	*2	*9	*51	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*7	*30	*3	*2	*11	
18 Jan 2025	*2	*3	*5	*3	*5	*20	*2	*9	*51	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*7	*30	*3	*2	*11	
19 Jan 2025	*2	*3	*5	*3	*5	*20	*2	*9	*51	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*7	*30	*3	*2	*11	
20 Jan 2025	*2	*3	*5	*3	*5	*20	*2	*9	*51	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*7	*30	*3	*2	*11	
21 Jan 2025	2	4	6	2	24	24	2	10	80	2	4	2	2	2	2	2	2	2	2	8	36	2	2	16	
22 Jan 2025	2	4	6	2	24	24	2	10	80	2	4	2	2	2	2	2	2	2	2	8	36	2	2	16	
23 Jan 2025	2	4	6	2	24	24	2	10	80	2	4	2	2	2	2	2	2	2	2	8	36	2	2	16	
24 Jan 2025	2	4	6	2	24	24	2	10	80	2	4	2	2	2	2	2	2	2	2	8	36	2	2	16	
25 Jan 2025	*4	*8	*35	*3	*20	*67	*2	*11	*100	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*10	*38	*2	*3	*11	
26 Jan 2025	*4	*8	*35	*3	*20	*67	*2	*11	*100	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*10	*38	*2	*3	*11	
27 Jan 2025	*4	*8	*35	*3	*20	*67	*2	*11	*100	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*10	*38	*2	*3	*11	
28 Jan 2025	2	4	4	2	8	24	2	10	80	2	2	2	2	2	2	2	2	2	2	8	36	2	4	6	
29 Jan 2025	*4	*3	*4	*2	*5	*20	*2	*6	*43	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*10	*38	*2	*4	*11	
30 Jan 2025	*4	*3	*4	*2	*5	*20	*2	*6	*43	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*10	*38	*2	*4	*11	
31 Jan 2025	*4	*3	*4	*2	*5	*20	*2	*6	*43	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*10	*38	*2	*4	*11	

* 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	18m	1m	12m	18m	1m	3m	9m	1m	3m	9m	1m	3m	9m	1m	12m	18m
January	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

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