SD Public Utilities

POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

MARCH 2025

Environmental Monitoring and Technical Services
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CERTIFIED
Public Utilities Department
Continual Improvement, Prevention of Pollution, Regulatory Compliance
ISO 14001

The City *of*
SAN DIEGO
Public Utilities Department
Environmental Monitoring & Technical Services Division

April 30, 2025

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the March 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 access issues at D8-A, sampling resumed at D8-B during February 2021. Access to site D8 was recently restored and sampling at D8 resumed in March 2025.

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

Kelp Bed Stations

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

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

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

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

Offshore Stations

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

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

Bacteriological Reporting and Quality Assurance

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

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

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

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

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

Single Sample Maximums:

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987[2]) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2025 Quality Assurance Report, which will be completed in March 2026.

SUMMARY OF RESULTS

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

Shore Stations

- The eight shore stations (D4, D5, D7, D8, D9, D10, D11, D12) were sampled on March 5, 12, 19, and 26.
- During the March reporting period, each of the eight shore stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
    - Access to site D8 was recently restored and as a result, sampling it D8-B has been discontinued in favor of sampling at D8 beginning on March 5, 2025. In this report, running-calculation compliance metrics are reported for each station separately.
- Nothing of sewage origin was observed at PLOO shore stations in March.
- 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 March 5, 10, 19, and 25.

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

- During the March 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 10.85 to 15.14°C. The difference between surface and bottom waters ranged from 0.66 to 4.17°C.
- Chlorophyll *a* concentrations ranged from 0.25 to 18.95 µg/L.
- Nothing of sewage origin was observed at PLOO kelp stations in March.

Offshore Stations

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

TABLES AND FIGURES

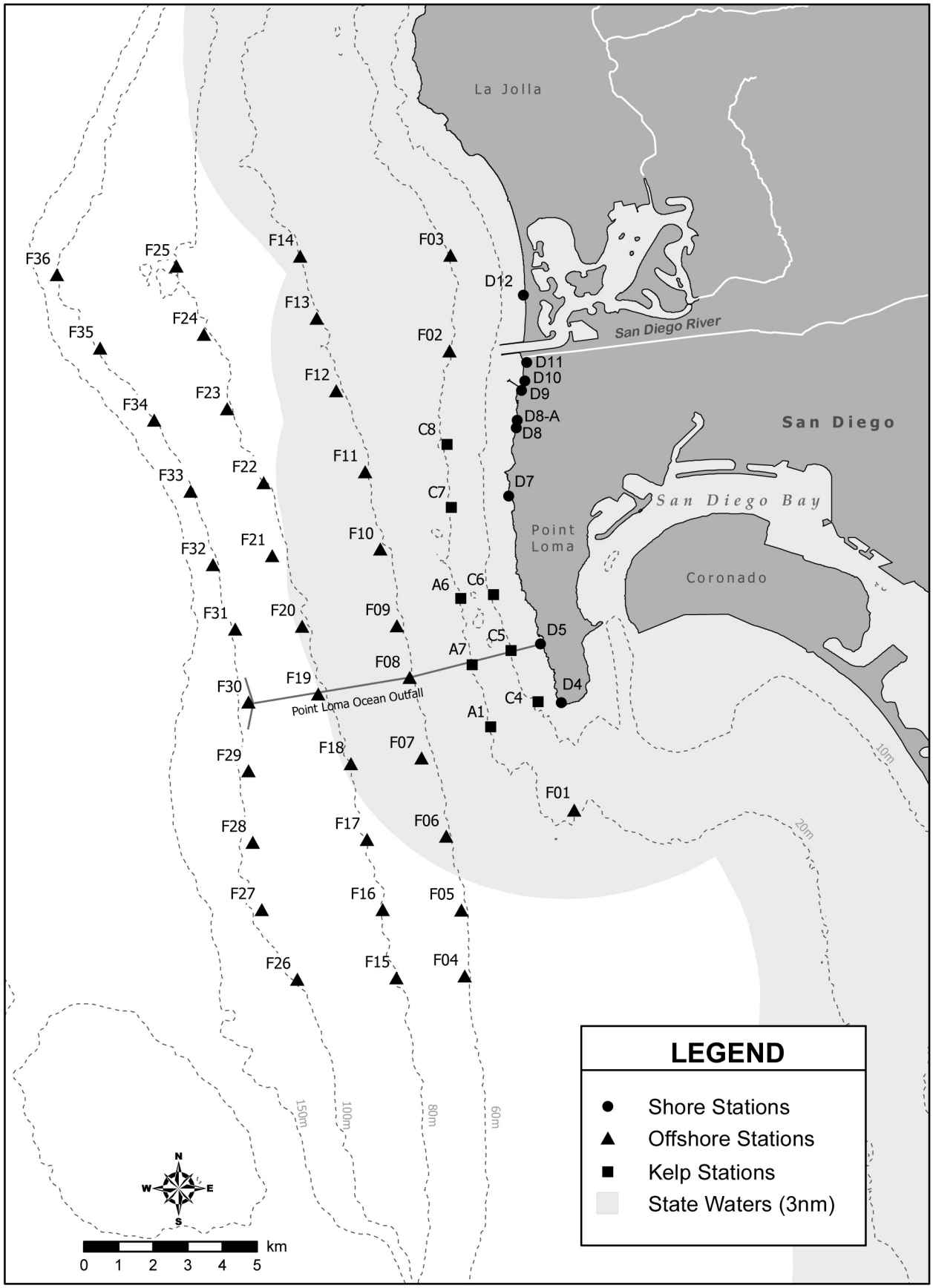

Figure 1.1 Station Map

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

* Geometric mean calculated using n<5

Table 2.2

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

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

* Geometric mean calculated using n<5

Table 2.4

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

Date	D4	D5	D7	D8	D9	D10	D11	D12
05 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
12 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
19 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
26 Mar 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	D8-B	D9	D10	D11	D12
01 Mar 2025	*2	*6	*4		*36	*13	*28	*47	*11
02 Mar 2025	*2	*6	*4		*36	*13	*28	*47	*11
03 Mar 2025	*2	*6	*4		*36	*13	*28	*47	*11
04 Mar 2025	*2	*6	*4		*36	*13	*28	*47	*11
05 Mar 2025	2	5	5	*20	*36	11	26	91	10
06 Mar 2025	2	5	5	*20	*36	11	26	91	10
07 Mar 2025	*2	*6	*6	*20	*49	*13	*50	*101	*15
08 Mar 2025	*2	*6	*6	*20	*49	*13	*50	*101	*15
09 Mar 2025	*2	*6	*6	*20	*49	*13	*50	*101	*15
10 Mar 2025	*2	*6	*6	*20	*49	*13	*50	*101	*15
11 Mar 2025	*2	*6	*6	*20	*49	*13	*50	*101	*15
12 Mar 2025	2	8	7	*80	*49	23	66	111	16
13 Mar 2025	2	8	7	*80	*49	23	66	111	16
14 Mar 2025	*2	*6	*10	*80	*20	*24	*75	*170	*15
15 Mar 2025	*2	*6	*10	*80	*20	*24	*75	*170	*15
16 Mar 2025	*2	*6	*10	*80	*20	*24	*75	*170	*15
17 Mar 2025	*2	*6	*10	*80	*20	*24	*75	*170	*15
18 Mar 2025	*2	*6	*10	*80	*20	*24	*75	*170	*15
19 Mar 2025	4	5	7	*50	*20	23	58	175	25
20 Mar 2025	4	5	7	*50	*20	23	58	175	25
21 Mar 2025	*4	*6	*10	*50		*24	*42	*170	*26
22 Mar 2025	*4	*6	*10	*50		*24	*42	*170	*26
23 Mar 2025	*4	*6	*10	*50		*24	*42	*170	*26
24 Mar 2025	*4	*6	*10	*50		*24	*42	*170	*26
25 Mar 2025	*4	*6	*10	*50		*24	*42	*170	*26
26 Mar 2025	6	11	11	*40		27	42	111	25
27 Mar 2025	6	11	11	*40		27	42	111	25
28 Mar 2025	*8	*9	*8	*40		*29	*42	*170	*26
29 Mar 2025	*8	*9	*8	*40		*29	*42	*170	*26
30 Mar 2025	*8	*9	*8	*40		*29	*42	*170	*26
31 Mar 2025	*8	*9	*8	*40		*29	*42	*170	*26

* Median calculated using n<5

Table 2.6

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

Date	D4	D5	D7	D8	D9	D10	D11	D12
05 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
12 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
19 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
26 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC

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

Table 2.7

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

Date	D4	D5	D7	D8	D9	D10	D11	D12
05 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
12 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
19 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
26 Mar 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	05 Mar 2025	856	20e	<2	2e
D10	12 Mar 2025	1026	200e	58	86
D10	19 Mar 2025	1008	<20	6e	4e
D10	26 Mar 2025	902	40e	4e	26e
D11	05 Mar 2025	846	1300	18e	10e
D11	12 Mar 2025	1015	160e	40e	34e
D11	19 Mar 2025	957	200e	<20	6e
D11	26 Mar 2025	852	<20	<2	16e
D12	05 Mar 2025	827	6e	4e	<2
D12	12 Mar 2025	954	<20	6e	20e
D12	19 Mar 2025	937	<200	20e	4e
D12	26 Mar 2025	833	<20	6e	8e
D4	05 Mar 2025	1032	<2	<2	<2
D4	12 Mar 2025	1154	4e	<2	<2
D4	19 Mar 2025	1122	<20	<2	<2
D4	26 Mar 2025	1018	20e	16e	<2
D5	05 Mar 2025	1015	<2	<2	<2
D5	12 Mar 2025	1139	20e	20e	<2
D5	19 Mar 2025	1111	<2	<2	<2
D5	26 Mar 2025	1008	80e	12e	<2
D7	05 Mar 2025	931	6e	<2	4e
D7	12 Mar 2025	1110	20e	4e	6e
D7	19 Mar 2025	1043	2e	<2	8e
D7	26 Mar 2025	938	<20	8e	4e
D8	05 Mar 2025	919	20e	<2	2e
D8	12 Mar 2025	1058	320e	28e	60e
D8	19 Mar 2025	1031	<20	<2	<2
D8	26 Mar 2025	925	20e	14e	30e
D9	05 Mar 2025	906	4e	<2	<2
D9	12 Mar 2025	1041	220e	46	42
D9	19 Mar 2025	1018	20e	<2	<2
D9	26 Mar 2025	911	40e	4e	4e

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	05 Mar 2025	Arrive Time	1032
D4	05 Mar 2025	Wind Speed (kts)	1.3
D4	05 Mar 2025	Wind Dir	SW
D4	05 Mar 2025	Animal Life	
D4	05 Mar 2025	Floatables	
D4	05 Mar 2025	Current Direction	E
D4	05 Mar 2025	Water Temp (C)	16
D4	05 Mar 2025	High Tide Time	
D4	05 Mar 2025	Low Tide Time	
D4	05 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D4	12 Mar 2025	Arrive Time	1154
D4	12 Mar 2025	Wind Speed (kts)	3.5
D4	12 Mar 2025	Wind Dir	S
D4	12 Mar 2025	Animal Life	
D4	12 Mar 2025	Floatables	
D4	12 Mar 2025	Current Direction	S
D4	12 Mar 2025	Water Temp (C)	13.2
D4	12 Mar 2025	High Tide Time	
D4	12 Mar 2025	Low Tide Time	
D4	12 Mar 2025	Comments	Water clear; Trash-2; Kelp;Algae
D4	19 Mar 2025	Arrive Time	1122
D4	19 Mar 2025	Wind Speed (kts)	0.6
D4	19 Mar 2025	Wind Dir	NW
D4	19 Mar 2025	Animal Life	
D4	19 Mar 2025	Floatables	
D4	19 Mar 2025	Current Direction	S
D4	19 Mar 2025	Water Temp (C)	14.6
D4	19 Mar 2025	High Tide Time	
D4	19 Mar 2025	Low Tide Time	
D4	19 Mar 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
D4	26 Mar 2025	Arrive Time	1018
D4	26 Mar 2025	Wind Speed (kts)	1.3
D4	26 Mar 2025	Wind Dir	W
D4	26 Mar 2025	Animal Life	
D4	26 Mar 2025	Floatables	
D4	26 Mar 2025	Current Direction	S
D4	26 Mar 2025	Water Temp (C)	13.3
D4	26 Mar 2025	High Tide Time	
D4	26 Mar 2025	Low Tide Time	
D4	26 Mar 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
D5	05 Mar 2025	Arrive Time	1015
D5	05 Mar 2025	Wind Speed (kts)	0.8
D5	05 Mar 2025	Wind Dir	W
D5	05 Mar 2025	Animal Life	
D5	05 Mar 2025	Floatables	
D5	05 Mar 2025	Current Direction	E
D5	05 Mar 2025	Water Temp (C)	14.2
D5	05 Mar 2025	High Tide Time	
D5	05 Mar 2025	Low Tide Time	
D5	05 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D5	12 Mar 2025	Arrive Time	1139

Station	Date	Parameter	Value
D5	12 Mar 2025	Wind Speed (kts)	4.2
D5	12 Mar 2025	Wind Dir	SW
D5	12 Mar 2025	Animal Life	
D5	12 Mar 2025	Floatables	
D5	12 Mar 2025	Current Direction	S
D5	12 Mar 2025	Water Temp (C)	13.3
D5	12 Mar 2025	High Tide Time	
D5	12 Mar 2025	Low Tide Time	
D5	12 Mar 2025	Comments	Water clear; Trash-1; Kelp
D5	19 Mar 2025	Arrive Time	1111
D5	19 Mar 2025	Wind Speed (kts)	6.1
D5	19 Mar 2025	Wind Dir	NW
D5	19 Mar 2025	Animal Life	
D5	19 Mar 2025	Floatables	
D5	19 Mar 2025	Current Direction	S
D5	19 Mar 2025	Water Temp (C)	13.9
D5	19 Mar 2025	High Tide Time	
D5	19 Mar 2025	Low Tide Time	
D5	19 Mar 2025	Comments	Water clear; Trash-1; Debris;Kelp
D5	26 Mar 2025	Arrive Time	1008
D5	26 Mar 2025	Wind Speed (kts)	3.6
D5	26 Mar 2025	Wind Dir	W
D5	26 Mar 2025	Animal Life	
D5	26 Mar 2025	Floatables	
D5	26 Mar 2025	Current Direction	S
D5	26 Mar 2025	Water Temp (C)	14.6
D5	26 Mar 2025	High Tide Time	
D5	26 Mar 2025	Low Tide Time	
D5	26 Mar 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
D7	05 Mar 2025	Arrive Time	931
D7	05 Mar 2025	Wind Speed (kts)	1.2
D7	05 Mar 2025	Wind Dir	SW
D7	05 Mar 2025	Animal Life	
D7	05 Mar 2025	Floatables	
D7	05 Mar 2025	Current Direction	E
D7	05 Mar 2025	Water Temp (C)	13.4
D7	05 Mar 2025	High Tide Time	
D7	05 Mar 2025	Low Tide Time	
D7	05 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris;Algae
D7	12 Mar 2025	Arrive Time	1110
D7	12 Mar 2025	Wind Speed (kts)	4
D7	12 Mar 2025	Wind Dir	SW
D7	12 Mar 2025	Animal Life	Flies-50;
D7	12 Mar 2025	Floatables	
D7	12 Mar 2025	Current Direction	S
D7	12 Mar 2025	Water Temp (C)	11.7
D7	12 Mar 2025	High Tide Time	
D7	12 Mar 2025	Low Tide Time	
D7	12 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
D7	19 Mar 2025	Arrive Time	1043
D7	19 Mar 2025	Wind Speed (kts)	0
D7	19 Mar 2025	Wind Dir	XX
D7	19 Mar 2025	Animal Life	
D7	19 Mar 2025	Floatables	
D7	19 Mar 2025	Current Direction	S
D7	19 Mar 2025	Water Temp (C)	13.6

Station	Date	Parameter	Value
D7	19 Mar 2025	High Tide Time	
D7	19 Mar 2025	Low Tide Time	
D7	19 Mar 2025	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Algae;Seagrass; Person/Walker/Jogger-1
D7	26 Mar 2025	Arrive Time	938
D7	26 Mar 2025	Wind Speed (kts)	1.1
D7	26 Mar 2025	Wind Dir	W
D7	26 Mar 2025	Animal Life	
D7	26 Mar 2025	Floatables	
D7	26 Mar 2025	Current Direction	S
D7	26 Mar 2025	Water Temp (C)	14.1
D7	26 Mar 2025	High Tide Time	
D7	26 Mar 2025	Low Tide Time	
D7	26 Mar 2025	Comments	Water clear; Trash-1; Seagrass;Kelp;Algae
D8	05 Mar 2025	Arrive Time	919
D8	05 Mar 2025	Wind Speed (kts)	0.4
D8	05 Mar 2025	Wind Dir	SW
D8	05 Mar 2025	Animal Life	Bird-1;
D8	05 Mar 2025	Floatables	
D8	05 Mar 2025	Current Direction	E
D8	05 Mar 2025	Water Temp (C)	13
D8	05 Mar 2025	High Tide Time	
D8	05 Mar 2025	Low Tide Time	
D8	05 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D8	12 Mar 2025	Arrive Time	1058
D8	12 Mar 2025	Wind Speed (kts)	4.6
D8	12 Mar 2025	Wind Dir	SW
D8	12 Mar 2025	Animal Life	
D8	12 Mar 2025	Floatables	
D8	12 Mar 2025	Current Direction	S
D8	12 Mar 2025	Water Temp (C)	12.9
D8	12 Mar 2025	High Tide Time	
D8	12 Mar 2025	Low Tide Time	
D8	12 Mar 2025	Comments	Water clear; Trash-1; Seagrass;Kelp;Debris
D8	19 Mar 2025	Arrive Time	1031
D8	19 Mar 2025	Wind Speed (kts)	2.3
D8	19 Mar 2025	Wind Dir	NW
D8	19 Mar 2025	Animal Life	
D8	19 Mar 2025	Floatables	
D8	19 Mar 2025	Current Direction	S
D8	19 Mar 2025	Water Temp (C)	13.9
D8	19 Mar 2025	High Tide Time	
D8	19 Mar 2025	Low Tide Time	
D8	19 Mar 2025	Comments	Water clear; Trash-2; Seagrass;Kelp; Person/Walker/Jogger-7
D8	26 Mar 2025	Arrive Time	925
D8	26 Mar 2025	Wind Speed (kts)	2.5
D8	26 Mar 2025	Wind Dir	W
D8	26 Mar 2025	Animal Life	
D8	26 Mar 2025	Floatables	
D8	26 Mar 2025	Current Direction	S
D8	26 Mar 2025	Water Temp (C)	14.1
D8	26 Mar 2025	High Tide Time	
D8	26 Mar 2025	Low Tide Time	
D8	26 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae

Station	Date	Parameter	Value
D9	05 Mar 2025	Arrive Time	906
D9	05 Mar 2025	Wind Speed (kts)	0
D9	05 Mar 2025	Wind Dir	W
D9	05 Mar 2025	Animal Life	
D9	05 Mar 2025	Floatables	
D9	05 Mar 2025	Current Direction	E
D9	05 Mar 2025	Water Temp (C)	13.6
D9	05 Mar 2025	High Tide Time	
D9	05 Mar 2025	Low Tide Time	
D9	05 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D9	12 Mar 2025	Arrive Time	1041
D9	12 Mar 2025	Wind Speed (kts)	10.8
D9	12 Mar 2025	Wind Dir	S
D9	12 Mar 2025	Animal Life	
D9	12 Mar 2025	Floatables	
D9	12 Mar 2025	Current Direction	S
D9	12 Mar 2025	Water Temp (C)	12.2
D9	12 Mar 2025	High Tide Time	
D9	12 Mar 2025	Low Tide Time	
D9	12 Mar 2025	Comments	Water clear; Trash-1; Algae
D9	19 Mar 2025	Arrive Time	1018
D9	19 Mar 2025	Wind Speed (kts)	3
D9	19 Mar 2025	Wind Dir	SW
D9	19 Mar 2025	Animal Life	
D9	19 Mar 2025	Floatables	
D9	19 Mar 2025	Current Direction	S
D9	19 Mar 2025	Water Temp (C)	14.8
D9	19 Mar 2025	High Tide Time	
D9	19 Mar 2025	Low Tide Time	
D9	19 Mar 2025	Comments	Water clear; Trash-1; Algae; Person/Walker/Jogger-2
D9	26 Mar 2025	Arrive Time	911
D9	26 Mar 2025	Wind Speed (kts)	3.4
D9	26 Mar 2025	Wind Dir	W
D9	26 Mar 2025	Animal Life	
D9	26 Mar 2025	Floatables	Foam
D9	26 Mar 2025	Current Direction	S
D9	26 Mar 2025	Water Temp (C)	13.8
D9	26 Mar 2025	High Tide Time	
D9	26 Mar 2025	Low Tide Time	
D9	26 Mar 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Seagrass;Algae
D10	05 Mar 2025	Arrive Time	856
D10	05 Mar 2025	Wind Speed (kts)	0
D10	05 Mar 2025	Wind Dir	W
D10	05 Mar 2025	Animal Life	
D10	05 Mar 2025	Floatables	
D10	05 Mar 2025	Current Direction	E
D10	05 Mar 2025	Water Temp (C)	13.1
D10	05 Mar 2025	High Tide Time	
D10	05 Mar 2025	Low Tide Time	
D10	05 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D10	12 Mar 2025	Arrive Time	1026
D10	12 Mar 2025	Wind Speed (kts)	9.2
D10	12 Mar 2025	Wind Dir	W
D10	12 Mar 2025	Animal Life	

Station	Date	Parameter	Value
D10	12 Mar 2025	Floatables	
D10	12 Mar 2025	Current Direction	S
D10	12 Mar 2025	Water Temp (C)	13.3
D10	12 Mar 2025	High Tide Time	
D10	12 Mar 2025	Low Tide Time	
D10	12 Mar 2025	Comments	Water clear; Surfer/Paddle boarder-2; Trash-5; Kelp;Seagrass;Debris
D10	19 Mar 2025	Arrive Time	1008
D10	19 Mar 2025	Wind Speed (kts)	4.6
D10	19 Mar 2025	Wind Dir	W
D10	19 Mar 2025	Animal Life	Dog-1;
D10	19 Mar 2025	Floatables	
D10	19 Mar 2025	Current Direction	S
D10	19 Mar 2025	Water Temp (C)	13.4
D10	19 Mar 2025	High Tide Time	
D10	19 Mar 2025	Low Tide Time	
D10	19 Mar 2025	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-10
D10	26 Mar 2025	Arrive Time	902
D10	26 Mar 2025	Wind Speed (kts)	5.4
D10	26 Mar 2025	Wind Dir	W
D10	26 Mar 2025	Animal Life	
D10	26 Mar 2025	Floatables	Foam
D10	26 Mar 2025	Current Direction	S
D10	26 Mar 2025	Water Temp (C)	13.6
D10	26 Mar 2025	High Tide Time	
D10	26 Mar 2025	Low Tide Time	
D10	26 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D11	05 Mar 2025	Arrive Time	846
D11	05 Mar 2025	Wind Speed (kts)	0
D11	05 Mar 2025	Wind Dir	NW
D11	05 Mar 2025	Animal Life	
D11	05 Mar 2025	Floatables	
D11	05 Mar 2025	Current Direction	E
D11	05 Mar 2025	Water Temp (C)	12.7
D11	05 Mar 2025	High Tide Time	
D11	05 Mar 2025	Low Tide Time	
D11	05 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D11	12 Mar 2025	Arrive Time	1015
D11	12 Mar 2025	Wind Speed (kts)	11.2
D11	12 Mar 2025	Wind Dir	W
D11	12 Mar 2025	Animal Life	Bird-1;
D11	12 Mar 2025	Floatables	
D11	12 Mar 2025	Current Direction	S
D11	12 Mar 2025	Water Temp (C)	13
D11	12 Mar 2025	High Tide Time	
D11	12 Mar 2025	Low Tide Time	
D11	12 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D11	19 Mar 2025	Arrive Time	957
D11	19 Mar 2025	Wind Speed (kts)	0.5
D11	19 Mar 2025	Wind Dir	W
D11	19 Mar 2025	Animal Life	Bird-1; Dog-1;
D11	19 Mar 2025	Floatables	
D11	19 Mar 2025	Current Direction	S

Station	Date	Parameter	Value
D11	19 Mar 2025	Water Temp (C)	13.8
D11	19 Mar 2025	High Tide Time	
D11	19 Mar 2025	Low Tide Time	
D11	19 Mar 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-2; Seagrass;Kelp;Debris; Person/Walker/Jogger-6
D11	26 Mar 2025	Arrive Time	852
D11	26 Mar 2025	Wind Speed (kts)	4
D11	26 Mar 2025	Wind Dir	W
D11	26 Mar 2025	Animal Life	
D11	26 Mar 2025	Floatables	
D11	26 Mar 2025	Current Direction	S
D11	26 Mar 2025	Water Temp (C)	13.7
D11	26 Mar 2025	High Tide Time	
D11	26 Mar 2025	Low Tide Time	
D11	26 Mar 2025	Comments	Water clear; Surfer/Paddle boarder-9; Trash-1; Seagrass;Kelp;Algae; Person/Walker/Jogger-5
D12	05 Mar 2025	Arrive Time	827
D12	05 Mar 2025	Wind Speed (kts)	0
D12	05 Mar 2025	Wind Dir	SW
D12	05 Mar 2025	Animal Life	Bird-1;
D12	05 Mar 2025	Floatables	
D12	05 Mar 2025	Current Direction	E
D12	05 Mar 2025	Water Temp (C)	13.5
D12	05 Mar 2025	High Tide Time	
D12	05 Mar 2025	Low Tide Time	
D12	05 Mar 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
D12	12 Mar 2025	Arrive Time	954
D12	12 Mar 2025	Wind Speed (kts)	8.1
D12	12 Mar 2025	Wind Dir	S
D12	12 Mar 2025	Animal Life	Bird-10;
D12	12 Mar 2025	Floatables	
D12	12 Mar 2025	Current Direction	S
D12	12 Mar 2025	Water Temp (C)	14.3
D12	12 Mar 2025	High Tide Time	
D12	12 Mar 2025	Low Tide Time	
D12	12 Mar 2025	Comments	Water clear; Trash-1; Kelp;Debris; Person/Walker/Jogger-5
D12	19 Mar 2025	Arrive Time	937
D12	19 Mar 2025	Wind Speed (kts)	3
D12	19 Mar 2025	Wind Dir	W
D12	19 Mar 2025	Animal Life	Bird-2; Dog-1;
D12	19 Mar 2025	Floatables	
D12	19 Mar 2025	Current Direction	S
D12	19 Mar 2025	Water Temp (C)	13.7
D12	19 Mar 2025	High Tide Time	
D12	19 Mar 2025	Low Tide Time	
D12	19 Mar 2025	Comments	Water clear; Boogie boarder/Swimmer-4; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-7
D12	26 Mar 2025	Arrive Time	833
D12	26 Mar 2025	Wind Speed (kts)	2.7
D12	26 Mar 2025	Wind Dir	W
D12	26 Mar 2025	Animal Life	
D12	26 Mar 2025	Floatables	
D12	26 Mar 2025	Current Direction	S
D12	26 Mar 2025	Water Temp (C)	13.8
D12	26 Mar 2025	High Tide Time	
D12	26 Mar 2025	Low Tide Time	

Station	Date	Parameter	Value
D12	26 Mar 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-2

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Kelp Stations

Table 3.1

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

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

* Geometric mean calculated using n<5

Table 3.4

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
05 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
10 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
19 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
25 Mar 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 Mar 2025	*16	*9	*27	*2	*3	*4	*10	*10
02 Mar 2025	*16	*9	*27	*2	*3	*4	*10	*10
03 Mar 2025	*16	*9	*27	*2	*3	*4	*10	*10
04 Mar 2025	*16	*9	*27	*2	*3	*4	*10	*10
05 Mar 2025	*16	*14	*25	*2	*2	*2	*9	*9
06 Mar 2025	*16	*14	*25	*2	*2	*2	*9	*9
07 Mar 2025	*16	*14	*25	*2	*2	*2	*9	*9
08 Mar 2025	*16	*14	*25	*2	*2	*2	*9	*9
09 Mar 2025	*16	*14	*25	*2	*2	*2	*9	*9
10 Mar 2025	23	15	28	2	2	2	7	8
11 Mar 2025	23	15	28	2	2	2	7	8
12 Mar 2025	*19	*13	*13	*2	*2	*2	*4	*6
13 Mar 2025	*19	*13	*13	*2	*2	*2	*4	*6
14 Mar 2025	*19	*13	*13	*2	*2	*2	*4	*6
15 Mar 2025	*19	*13	*13	*2	*2	*2	*4	*6
16 Mar 2025	*19	*13	*13	*2	*2	*2	*4	*6
17 Mar 2025	*19	*13	*13	*2	*2	*2	*4	*6
18 Mar 2025	*19	*13	*13	*2	*2	*2	*4	*6
19 Mar 2025	25	13	14	2	2	2	5	7
20 Mar 2025	25	13	14	2	2	2	5	7
21 Mar 2025	*31	*16	*16	*2	*2	*2	*5	*7
22 Mar 2025	*31	*16	*16	*2	*2	*2	*5	*7
23 Mar 2025	*31	*16	*16	*2	*2	*2	*5	*7
24 Mar 2025	*31	*16	*16	*2	*2	*2	*5	*7
25 Mar 2025	20	15	13	3	2	2	5	7
26 Mar 2025	*35	*25	*21	*3	*2	*2	*6	*8
27 Mar 2025	*35	*25	*21	*3	*2	*2	*6	*8
28 Mar 2025	*35	*25	*21	*3	*2	*2	*6	*8
29 Mar 2025	*35	*25	*21	*3	*2	*2	*6	*8
30 Mar 2025	*35	*25	*21	*3	*2	*2	*6	*8
31 Mar 2025	*35	*25	*21	*3	*2	*2	*6	*8

- Median calculated using n<5

Table 3.6

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
05 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
10 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
19 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
25 Mar 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
05 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
10 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
19 Mar 2025	IC	IC	IC	IC	IC	IC	IC	IC
25 Mar 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	05 Mar 2025	813	1	2e	<2	<2
A1	05 Mar 2025	813	12	62	6e	4e
A1	05 Mar 2025	813	18	120e	26e	4e
A1	10 Mar 2025	753	1	<2	<2	<2
A1	10 Mar 2025	753	12	6e	<2	<2
A1	10 Mar 2025	753	18	280e	14e	4e
A1	19 Mar 2025	808	1	<2	<2	<2
A1	19 Mar 2025	808	12	28e	8e	<2
A1	19 Mar 2025	808	18	<200	10e	6e
A1	25 Mar 2025	750	1	<2	<2	<2
A1	25 Mar 2025	750	12	<2	<2	<2
A1	25 Mar 2025	750	18	6e	2e	<2
A6	05 Mar 2025	840	1	2e	<2	<2
A6	05 Mar 2025	840	12	8e	<2	<2
A6	05 Mar 2025	840	18	340e	36e	6e
A6	10 Mar 2025	820	1	2e	<2	<2
A6	10 Mar 2025	820	12	2e	<2	<2
A6	10 Mar 2025	820	18	54	6e	10e
A6	19 Mar 2025	836	1	<2	<2	<2
A6	19 Mar 2025	836	12	2e	<2	<2
A6	19 Mar 2025	836	18	44	2e	<2
A6	25 Mar 2025	821	1	<2	<2	<2
A6	25 Mar 2025	821	12	6e	2e	<2
A6	25 Mar 2025	821	18	26e	2e	<2
A7	05 Mar 2025	825	1	<2	<2	2e
A7	05 Mar 2025	825	12	14e	6e	<2
A7	05 Mar 2025	825	18	100	18e	4e
A7	10 Mar 2025	805	1	<2	<2	<2
A7	10 Mar 2025	805	12	6e	4e	<2
A7	10 Mar 2025	805	18	140e	16e	10e
A7	19 Mar 2025	822	1	2e	<2	<2
A7	19 Mar 2025	822	12	12e	2e	<2
A7	19 Mar 2025	822	18	40	8e	<2
A7	25 Mar 2025	807	1	<2	<2	<2
A7	25 Mar 2025	807	12	<2	4e	<2
A7	25 Mar 2025	807	18	14e	2e	4e
C4	05 Mar 2025	1002	1	<2	<2	<2
C4	05 Mar 2025	1002	3	<2	<2	<2
C4	05 Mar 2025	1002	9	4e	4e	<2

Station	Date	Time	Depth	Total	Fecal	Entero
C4	10 Mar 2025	928	1	<2	<2	<2
C4	10 Mar 2025	928	3	<2	<2	<2
C4	10 Mar 2025	928	9	<2	<2	<2
C4	19 Mar 2025	944	1	4e	<2	<2
C4	19 Mar 2025	944	3	<2	<2	<2
C4	19 Mar 2025	944	9	<2	<2	<2
C4	25 Mar 2025	932	1	6e	4e	<2
C4	25 Mar 2025	932	3	8e	<2	<2
C4	25 Mar 2025	932	9	<2	<2	<2
C5	05 Mar 2025	948	1	<2	<2	<2
C5	05 Mar 2025	948	3	<2	<2	<2
C5	05 Mar 2025	948	9	2e	<2	<2
C5	10 Mar 2025	917	1	<2	<2	<2
C5	10 Mar 2025	917	3	<2	<2	<2
C5	10 Mar 2025	917	9	2e	<2	<2
C5	19 Mar 2025	934	1	<2	<2	<2
C5	19 Mar 2025	934	3	6e	<2	<2
C5	19 Mar 2025	934	9	2e	<2	<2
C5	25 Mar 2025	921	1	<2	<2	<2
C5	25 Mar 2025	921	3	<2	<2	<2
C5	25 Mar 2025	921	9	<2	<2	<2
C6	05 Mar 2025	936	1	<2	<2	<2
C6	05 Mar 2025	936	3	<2	<2	<2
C6	05 Mar 2025	936	9	<2	<2	<2
C6	10 Mar 2025	906	1	<2	<2	<2
C6	10 Mar 2025	906	3	<2	2e	<2
C6	10 Mar 2025	906	9	<2	<2	<2
C6	19 Mar 2025	924	1	<2	<2	<2
C6	19 Mar 2025	924	3	<2	2e	<2
C6	19 Mar 2025	924	9	4e	<2	<2
C6	25 Mar 2025	910	1	<2	<2	<2
C6	25 Mar 2025	910	3	<2	<2	<2
C6	25 Mar 2025	910	9	<2	<2	<2
C7	05 Mar 2025	901	1	2e	<2	<2
C7	05 Mar 2025	901	12	18e	<2	<2
C7	05 Mar 2025	901	18	28e	2e	<2
C7	10 Mar 2025	834	1	<2	<2	<2
C7	10 Mar 2025	834	12	<2	<2	<2
C7	10 Mar 2025	834	18	4e	<2	4e
C7	19 Mar 2025	851	1	<2	<2	<2
C7	19 Mar 2025	851	12	4e	<2	<2
C7	19 Mar 2025	851	18	22e	6e	<2
C7	25 Mar 2025	837	1	<2	<2	<2
C7	25 Mar 2025	837	12	<2	<2	<2
C7	25 Mar 2025	837	18	4e	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
C8	05 Mar 2025	917	1	<2	<2	<2
C8	05 Mar 2025	917	12	36e	10e	<2
C8	05 Mar 2025	917	18	10e	<2	2e
C8	10 Mar 2025	846	1	4e	2e	<2
C8	10 Mar 2025	846	12	<2	<2	2e
C8	10 Mar 2025	846	18	10e	<2	<2
C8	19 Mar 2025	903	1	<2	<2	<2
C8	19 Mar 2025	903	12	6e	<2	<2
C8	19 Mar 2025	903	18	32e	6e	<2
C8	25 Mar 2025	852	1	4e	<2	<2
C8	25 Mar 2025	852	12	<2	<2	<2
C8	25 Mar 2025	852	18	6e	<2	<2

ns = not sampled
ND = no data

Table 3.9

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

Station	Date	Parameter	Value
A1	05 Mar 2025	Arrive Time	813
A1	05 Mar 2025	Depart Time	818
A1	05 Mar 2025	Air Temp (C)	12.1
A1	05 Mar 2025	Visibility (mi)	10
A1	05 Mar 2025	Wind Speed (kts)	0
A1	05 Mar 2025	Wind Dir	SE
A1	05 Mar 2025	Sea State	Regular Swell
A1	05 Mar 2025	High Tide Time	12
A1	05 Mar 2025	Low Tide Time	742
A1	05 Mar 2025	Comments	
A1	10 Mar 2025	Arrive Time	753
A1	10 Mar 2025	Depart Time	756
A1	10 Mar 2025	Air Temp (C)	15.2
A1	10 Mar 2025	Visibility (mi)	10
A1	10 Mar 2025	Wind Speed (kts)	0
A1	10 Mar 2025	Wind Dir	NE
A1	10 Mar 2025	Sea State	Wind Ripples
A1	10 Mar 2025	High Tide Time	730
A1	10 Mar 2025	Low Tide Time	1430
A1	10 Mar 2025	Comments	Kelp; Kelp Debris
A1	19 Mar 2025	Arrive Time	808
A1	19 Mar 2025	Depart Time	817
A1	19 Mar 2025	Air Temp (C)	14.3
A1	19 Mar 2025	Visibility (mi)	10
A1	19 Mar 2025	Wind Speed (kts)	0
A1	19 Mar 2025	Wind Dir	NE
A1	19 Mar 2025	Sea State	Regular Swell
A1	19 Mar 2025	High Tide Time	6
A1	19 Mar 2025	Low Tide Time	700
A1	19 Mar 2025	Comments	＜span style=”color:red; font-weight:bold”＞ ＜span style=”Something must’ve gotten in Wetstar CDOM path. Recomend using other CDOM sensors readings or upcast which don’t show spikes; Kelp Debris
A1	25 Mar 2025	Arrive Time	750
A1	25 Mar 2025	Depart Time	759
A1	25 Mar 2025	Air Temp (C)	14.2
A1	25 Mar 2025	Visibility (mi)	6
A1	25 Mar 2025	Wind Speed (kts)	11.6
A1	25 Mar 2025	Wind Dir	NW
A1	25 Mar 2025	Sea State	Confused Swell
A1	25 Mar 2025	High Tide Time	642
A1	25 Mar 2025	Low Tide Time	1348
A1	25 Mar 2025	Comments	
C4	05 Mar 2025	Arrive Time	1002
C4	05 Mar 2025	Depart Time	1006
C4	05 Mar 2025	Air Temp (C)	13.6
C4	05 Mar 2025	Visibility (mi)	10
C4	05 Mar 2025	Wind Speed (kts)	0
C4	05 Mar 2025	Wind Dir	W
C4	05 Mar 2025	Sea State	Regular Swell
C4	05 Mar 2025	High Tide Time	12
C4	05 Mar 2025	Low Tide Time	742

Station	Date	Parameter	Value
C4	05 Mar 2025	Comments	
C4	10 Mar 2025	Arrive Time	928
C4	10 Mar 2025	Depart Time	931
C4	10 Mar 2025	Air Temp (C)	15.7
C4	10 Mar 2025	Visibility (mi)	10
C4	10 Mar 2025	Wind Speed (kts)	6.2
C4	10 Mar 2025	Wind Dir	E
C4	10 Mar 2025	Sea State	Wind Ripples
C4	10 Mar 2025	High Tide Time	730
C4	10 Mar 2025	Low Tide Time	1430
C4	10 Mar 2025	Comments	Seagrass
C4	19 Mar 2025	Arrive Time	944
C4	19 Mar 2025	Depart Time	955
C4	19 Mar 2025	Air Temp (C)	14.9
C4	19 Mar 2025	Visibility (mi)	10
C4	19 Mar 2025	Wind Speed (kts)	7.8
C4	19 Mar 2025	Wind Dir	N
C4	19 Mar 2025	Sea State	Regular Swell
C4	19 Mar 2025	High Tide Time	6
C4	19 Mar 2025	Low Tide Time	700
C4	19 Mar 2025	Comments	bottle 2 misfire. Recast required. Fired 2 niskins at mid depth to be extra sure.
C4	25 Mar 2025	Arrive Time	932
C4	25 Mar 2025	Depart Time	935
C4	25 Mar 2025	Air Temp (C)	14.6
C4	25 Mar 2025	Visibility (mi)	6
C4	25 Mar 2025	Wind Speed (kts)	0
C4	25 Mar 2025	Wind Dir	NW
C4	25 Mar 2025	Sea State	Confused Swell
C4	25 Mar 2025	High Tide Time	642
C4	25 Mar 2025	Low Tide Time	1348
C4	25 Mar 2025	Comments	
A7	05 Mar 2025	Arrive Time	825
A7	05 Mar 2025	Depart Time	834
A7	05 Mar 2025	Air Temp (C)	12.3
A7	05 Mar 2025	Visibility (mi)	10
A7	05 Mar 2025	Wind Speed (kts)	0
A7	05 Mar 2025	Wind Dir	NE
A7	05 Mar 2025	Sea State	Regular Swell
A7	05 Mar 2025	High Tide Time	12
A7	05 Mar 2025	Low Tide Time	742
A7	05 Mar 2025	Comments	
A7	10 Mar 2025	Arrive Time	805
A7	10 Mar 2025	Depart Time	811
A7	10 Mar 2025	Air Temp (C)	13.7
A7	10 Mar 2025	Visibility (mi)	10
A7	10 Mar 2025	Wind Speed (kts)	0
A7	10 Mar 2025	Wind Dir	NE
A7	10 Mar 2025	Sea State	Wind Ripples
A7	10 Mar 2025	High Tide Time	730
A7	10 Mar 2025	Low Tide Time	1430
A7	10 Mar 2025	Comments	Bubbles in 1st cast; use 2nd cast
A7	19 Mar 2025	Arrive Time	822
A7	19 Mar 2025	Depart Time	830
A7	19 Mar 2025	Air Temp (C)	14.1

Station	Date	Parameter	Value
A7	19 Mar 2025	Visibility (mi)	10
A7	19 Mar 2025	Wind Speed (kts)	0
A7	19 Mar 2025	Wind Dir	N
A7	19 Mar 2025	Sea State	Regular Swell
A7	19 Mar 2025	High Tide Time	6
A7	19 Mar 2025	Low Tide Time	700
A7	19 Mar 2025	Comments	Strange WetStar CDOM surface spike on downcast persists-but binned out in ascii file this time; Kelp Debris
A7	25 Mar 2025	Arrive Time	807
A7	25 Mar 2025	Depart Time	811
A7	25 Mar 2025	Air Temp (C)	14.1
A7	25 Mar 2025	Visibility (mi)	6
A7	25 Mar 2025	Wind Speed (kts)	11.9
A7	25 Mar 2025	Wind Dir	NW
A7	25 Mar 2025	Sea State	Confused Swell
A7	25 Mar 2025	High Tide Time	642
A7	25 Mar 2025	Low Tide Time	1348
A7	25 Mar 2025	Comments	
C5	05 Mar 2025	Arrive Time	948
C5	05 Mar 2025	Depart Time	955
C5	05 Mar 2025	Air Temp (C)	13.4
C5	05 Mar 2025	Visibility (mi)	10
C5	05 Mar 2025	Wind Speed (kts)	0
C5	05 Mar 2025	Wind Dir	NW
C5	05 Mar 2025	Sea State	Regular Swell
C5	05 Mar 2025	High Tide Time	12
C5	05 Mar 2025	Low Tide Time	742
C5	05 Mar 2025	Comments	
C5	10 Mar 2025	Arrive Time	917
C5	10 Mar 2025	Depart Time	921
C5	10 Mar 2025	Air Temp (C)	15.2
C5	10 Mar 2025	Visibility (mi)	10
C5	10 Mar 2025	Wind Speed (kts)	9.8
C5	10 Mar 2025	Wind Dir	E
C5	10 Mar 2025	Sea State	Wind Ripples
C5	10 Mar 2025	High Tide Time	730
C5	10 Mar 2025	Low Tide Time	1430
C5	10 Mar 2025	Comments	Seagrass
C5	19 Mar 2025	Arrive Time	934
C5	19 Mar 2025	Depart Time	940
C5	19 Mar 2025	Air Temp (C)	14.6
C5	19 Mar 2025	Visibility (mi)	10
C5	19 Mar 2025	Wind Speed (kts)	8.1
C5	19 Mar 2025	Wind Dir	N
C5	19 Mar 2025	Sea State	Regular Swell
C5	19 Mar 2025	High Tide Time	6
C5	19 Mar 2025	Low Tide Time	700
C5	19 Mar 2025	Comments	
C5	25 Mar 2025	Arrive Time	921
C5	25 Mar 2025	Depart Time	927
C5	25 Mar 2025	Air Temp (C)	14.4
C5	25 Mar 2025	Visibility (mi)	6
C5	25 Mar 2025	Wind Speed (kts)	3.5
C5	25 Mar 2025	Wind Dir	N
C5	25 Mar 2025	Sea State	Confused Swell
C5	25 Mar 2025	High Tide Time	642

Station	Date	Parameter	Value
C5	25 Mar 2025	Low Tide Time	1348
C5	25 Mar 2025	Comments	
A6	05 Mar 2025	Arrive Time	840
A6	05 Mar 2025	Depart Time	852
A6	05 Mar 2025	Air Temp (C)	12.9
A6	05 Mar 2025	Visibility (mi)	10
A6	05 Mar 2025	Wind Speed (kts)	0
A6	05 Mar 2025	Wind Dir	SE
A6	05 Mar 2025	Sea State	Regular Swell
A6	05 Mar 2025	High Tide Time	12
A6	05 Mar 2025	Low Tide Time	742
A6	05 Mar 2025	Comments	
A6	10 Mar 2025	Arrive Time	820
A6	10 Mar 2025	Depart Time	823
A6	10 Mar 2025	Air Temp (C)	13.7
A6	10 Mar 2025	Visibility (mi)	10
A6	10 Mar 2025	Wind Speed (kts)	0
A6	10 Mar 2025	Wind Dir	NE
A6	10 Mar 2025	Sea State	Wind Ripples
A6	10 Mar 2025	High Tide Time	730
A6	10 Mar 2025	Low Tide Time	1430
A6	10 Mar 2025	Comments	Kelp; Kelp Debris; DO spikes when CTD hit bottom
A6	19 Mar 2025	Arrive Time	837
A6	19 Mar 2025	Depart Time	841
A6	19 Mar 2025	Air Temp (C)	14
A6	19 Mar 2025	Visibility (mi)	10
A6	19 Mar 2025	Wind Speed (kts)	3.5
A6	19 Mar 2025	Wind Dir	NE
A6	19 Mar 2025	Sea State	Regular Swell
A6	19 Mar 2025	High Tide Time	6
A6	19 Mar 2025	Low Tide Time	700
A6	19 Mar 2025	Comments	Cast extra deep compared to fatho reading. CTD found hole.
A6	25 Mar 2025	Arrive Time	821
A6	25 Mar 2025	Depart Time	826
A6	25 Mar 2025	Air Temp (C)	14
A6	25 Mar 2025	Visibility (mi)	6
A6	25 Mar 2025	Wind Speed (kts)	12.6
A6	25 Mar 2025	Wind Dir	N
A6	25 Mar 2025	Sea State	Confused Swell
A6	25 Mar 2025	High Tide Time	642
A6	25 Mar 2025	Low Tide Time	1348
A6	25 Mar 2025	Comments	
C6	05 Mar 2025	Arrive Time	936
C6	05 Mar 2025	Depart Time	940
C6	05 Mar 2025	Air Temp (C)	13.2
C6	05 Mar 2025	Visibility (mi)	10
C6	05 Mar 2025	Wind Speed (kts)	0
C6	05 Mar 2025	Wind Dir	S
C6	05 Mar 2025	Sea State	Regular Swell
C6	05 Mar 2025	High Tide Time	12
C6	05 Mar 2025	Low Tide Time	742
C6	05 Mar 2025	Comments	
C6	10 Mar 2025	Arrive Time	906
C6	10 Mar 2025	Depart Time	908
C6	10 Mar 2025	Air Temp (C)	15.4

Station	Date	Parameter	Value
C6	10 Mar 2025	Visibility (mi)	10
C6	10 Mar 2025	Wind Speed (kts)	9.9
C6	10 Mar 2025	Wind Dir	E
C6	10 Mar 2025	Sea State	Wind Ripples
C6	10 Mar 2025	High Tide Time	730
C6	10 Mar 2025	Low Tide Time	1430
C6	10 Mar 2025	Comments	
C6	19 Mar 2025	Arrive Time	925
C6	19 Mar 2025	Depart Time	930
C6	19 Mar 2025	Air Temp (C)	14.2
C6	19 Mar 2025	Visibility (mi)	10
C6	19 Mar 2025	Wind Speed (kts)	7.5
C6	19 Mar 2025	Wind Dir	N
C6	19 Mar 2025	Sea State	Regular Swell
C6	19 Mar 2025	High Tide Time	6
C6	19 Mar 2025	Low Tide Time	700
C6	19 Mar 2025	Comments	Surface CDOM spikes again; Kelp Debris
C6	25 Mar 2025	Arrive Time	910
C6	25 Mar 2025	Depart Time	914
C6	25 Mar 2025	Air Temp (C)	14.3
C6	25 Mar 2025	Visibility (mi)	6
C6	25 Mar 2025	Wind Speed (kts)	3
C6	25 Mar 2025	Wind Dir	NE
C6	25 Mar 2025	Sea State	Confused Swell
C6	25 Mar 2025	High Tide Time	642
C6	25 Mar 2025	Low Tide Time	1348
C6	25 Mar 2025	Comments	
C7	05 Mar 2025	Arrive Time	901
C7	05 Mar 2025	Depart Time	908
C7	05 Mar 2025	Air Temp (C)	13.2
C7	05 Mar 2025	Visibility (mi)	10
C7	05 Mar 2025	Wind Speed (kts)	0
C7	05 Mar 2025	Wind Dir	E
C7	05 Mar 2025	Sea State	Regular Swell
C7	05 Mar 2025	High Tide Time	12
C7	05 Mar 2025	Low Tide Time	742
C7	05 Mar 2025	Comments	
C7	10 Mar 2025	Arrive Time	834
C7	10 Mar 2025	Depart Time	838
C7	10 Mar 2025	Air Temp (C)	13.9
C7	10 Mar 2025	Visibility (mi)	10
C7	10 Mar 2025	Wind Speed (kts)	1.4
C7	10 Mar 2025	Wind Dir	NE
C7	10 Mar 2025	Sea State	Wind Ripples
C7	10 Mar 2025	High Tide Time	730
C7	10 Mar 2025	Low Tide Time	1430
C7	10 Mar 2025	Comments	Kelp Debris; Seagrass
C7	19 Mar 2025	Arrive Time	851
C7	19 Mar 2025	Depart Time	856
C7	19 Mar 2025	Air Temp (C)	13.9
C7	19 Mar 2025	Visibility (mi)	10
C7	19 Mar 2025	Wind Speed (kts)	0
C7	19 Mar 2025	Wind Dir	N
C7	19 Mar 2025	Sea State	Regular Swell
C7	19 Mar 2025	High Tide Time	6
C7	19 Mar 2025	Low Tide Time	700

Station	Date	Parameter	Value
C7	19 Mar 2025	Comments	
C7	25 Mar 2025	Arrive Time	837
C7	25 Mar 2025	Depart Time	843
C7	25 Mar 2025	Air Temp (C)	13.8
C7	25 Mar 2025	Visibility (mi)	6
C7	25 Mar 2025	Wind Speed (kts)	2.8
C7	25 Mar 2025	Wind Dir	N
C7	25 Mar 2025	Sea State	Confused Swell
C7	25 Mar 2025	High Tide Time	642
C7	25 Mar 2025	Low Tide Time	1348
C7	25 Mar 2025	Comments	
C8	05 Mar 2025	Arrive Time	917
C8	05 Mar 2025	Depart Time	922
C8	05 Mar 2025	Air Temp (C)	13.2
C8	05 Mar 2025	Visibility (mi)	10
C8	05 Mar 2025	Wind Speed (kts)	0
C8	05 Mar 2025	Wind Dir	N
C8	05 Mar 2025	Sea State	Regular Swell
C8	05 Mar 2025	High Tide Time	12
C8	05 Mar 2025	Low Tide Time	742
C8	05 Mar 2025	Comments	
C8	10 Mar 2025	Arrive Time	846
C8	10 Mar 2025	Depart Time	850
C8	10 Mar 2025	Air Temp (C)	15.4
C8	10 Mar 2025	Visibility (mi)	10
C8	10 Mar 2025	Wind Speed (kts)	3.3
C8	10 Mar 2025	Wind Dir	E
C8	10 Mar 2025	Sea State	Wind Ripples
C8	10 Mar 2025	High Tide Time	730
C8	10 Mar 2025	Low Tide Time	1430
C8	10 Mar 2025	Comments	
C8	19 Mar 2025	Arrive Time	903
C8	19 Mar 2025	Depart Time	907
C8	19 Mar 2025	Air Temp (C)	13.5
C8	19 Mar 2025	Visibility (mi)	10
C8	19 Mar 2025	Wind Speed (kts)	0
C8	19 Mar 2025	Wind Dir	N
C8	19 Mar 2025	Sea State	Regular Swell
C8	19 Mar 2025	High Tide Time	6
C8	19 Mar 2025	Low Tide Time	700
C8	19 Mar 2025	Comments	
C8	25 Mar 2025	Arrive Time	852
C8	25 Mar 2025	Depart Time	855
C8	25 Mar 2025	Air Temp (C)	14.1
C8	25 Mar 2025	Visibility (mi)	6
C8	25 Mar 2025	Wind Speed (kts)	1.5
C8	25 Mar 2025	Wind Dir	NE
C8	25 Mar 2025	Sea State	Confused Swell
C8	25 Mar 2025	High Tide Time	642
C8	25 Mar 2025	Low Tide Time	1348
C8	25 Mar 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	05 Mar 2025	1	13.80	87.56	7.4	33.45	8.0	25.0	1.18
A1	05 Mar 2025	2	13.80	87.61	7.4	33.45	8.0	25.0	1.21
A1	05 Mar 2025	3	13.70	87.54	7.3	33.45	8.0	25.1	1.33
A1	05 Mar 2025	4	13.46	87.45	7.0	33.47	7.9	25.1	1.60
A1	05 Mar 2025	5	13.32	87.50	6.8	33.49	7.9	25.2	1.60
A1	05 Mar 2025	6	13.13	87.51	6.6	33.51	7.9	25.2	1.42
A1	05 Mar 2025	7	13.06	87.80	6.4	33.52	7.9	25.2	1.32
A1	05 Mar 2025	8	12.94	88.22	6.2	33.54	7.9	25.3	1.30
A1	05 Mar 2025	9	12.74	88.46	5.9	33.56	7.8	25.3	1.18
A1	05 Mar 2025	10	12.57	88.79	5.6	33.59	7.8	25.4	1.03
A1	05 Mar 2025	11	12.30	89.42	5.3	33.62	7.8	25.5	0.94
A1	05 Mar 2025	12	12.09	89.86	4.9	33.65	7.8	25.5	0.79
A1	05 Mar 2025	13	11.96	90.47	4.6	33.67	7.8	25.6	0.79
A1	05 Mar 2025	14	11.78	90.89	4.4	33.69	7.7	25.6	0.71
A1	05 Mar 2025	15	11.64	90.97	4.2	33.70	7.7	25.6	0.69
A1	05 Mar 2025	16	11.62	91.21	4.2	33.70	7.7	25.7	0.68
A1	05 Mar 2025	17	11.62	90.96	4.1	33.70	7.7	25.7	0.66
A1	05 Mar 2025	18	11.64	90.80	4.1	33.70	7.7	25.7	1.54
A1	10 Mar 2025	1	13.38	82.40	7.9	33.37	8.0	25.1	4.78
A1	10 Mar 2025	2	13.42	82.40	8.0	33.36	8.0	25.0	5.42
A1	10 Mar 2025	3	13.32	81.88	7.9	33.40	8.0	25.1	5.30
A1	10 Mar 2025	4	13.18	82.82	7.5	33.42	8.0	25.1	4.00
A1	10 Mar 2025	5	12.98	85.59	7.3	33.44	8.0	25.2	3.40
A1	10 Mar 2025	6	12.63	87.89	6.8	33.47	7.9	25.3	2.54
A1	10 Mar 2025	7	12.46	90.17	6.4	33.49	7.9	25.3	1.94
A1	10 Mar 2025	8	12.32	92.38	6.0	33.52	7.9	25.4	1.77
A1	10 Mar 2025	9	12.14	93.18	5.6	33.55	7.8	25.4	1.63
A1	10 Mar 2025	10	11.96	93.62	5.3	33.58	7.8	25.5	1.42
A1	10 Mar 2025	11	11.74	93.72	4.9	33.63	7.8	25.6	1.32
A1	10 Mar 2025	12	11.68	94.40	4.5	33.63	7.8	25.6	NA
A1	10 Mar 2025	13	11.46	92.20	4.2	33.70	7.7	25.7	NA
A1	10 Mar 2025	14	11.20	89.93	3.6	33.79	7.7	25.8	NA
A1	10 Mar 2025	15	11.02	91.56	3.1	33.85	7.7	25.9	NA
A1	10 Mar 2025	16	10.96	91.39	2.9	33.86	7.7	25.9	NA
A1	10 Mar 2025	17	10.94	92.63	2.9	33.87	7.7	25.9	NA
A1	10 Mar 2025	18	10.93	93.57	2.8	33.88	7.6	25.9	NA
A1	10 Mar 2025	19	10.97	92.76	2.8	33.86	7.6	25.9	0.38
A1	19 Mar 2025	1	13.92	90.85	5.2	33.28	8.0	24.9	1.37
A1	19 Mar 2025	2	13.65	88.67	6.3	33.48	8.0	25.1	1.28
A1	19 Mar 2025	3	13.22	90.07	6.9	33.55	7.9	25.2	0.97
A1	19 Mar 2025	4	13.17	87.60	6.6	33.53	7.9	25.2	0.91
A1	19 Mar 2025	5	12.96	86.88	6.3	33.59	7.9	25.3	0.95
A1	19 Mar 2025	6	12.57	87.03	6.0	33.69	7.9	25.5	0.92
A1	19 Mar 2025	7	12.44	87.86	5.6	33.65	7.8	25.5	0.81
A1	19 Mar 2025	8	12.24	88.71	5.1	33.70	7.8	25.5	0.83
A1	19 Mar 2025	9	12.17	89.66	4.8	33.75	7.8	25.6	0.77
A1	19 Mar 2025	10	11.99	89.87	4.6	33.86	7.8	25.7	0.78
A1	19 Mar 2025	11	11.94	89.94	4.5	33.86	7.8	25.7	0.74
A1	19 Mar 2025	12	11.89	89.71	4.4	33.86	7.7	25.7	0.95
A1	19 Mar 2025	13	11.77	89.35	4.3	33.91	7.7	25.8	0.68
A1	19 Mar 2025	14	11.76	88.11	4.2	33.84	7.7	25.7	0.72
A1	19 Mar 2025	15	11.60	87.36	3.9	33.86	7.7	25.8	0.67
A1	19 Mar 2025	16	11.43	86.38	3.7	33.85	7.7	25.8	0.57
A1	19 Mar 2025	17	11.38	81.76	3.1	33.83	7.7	25.8	0.54
A1	19 Mar 2025	18	11.31	80.34	2.9	33.84	7.7	25.8	0.55
A1	25 Mar 2025	1	15.02	91.86	7.6	33.16	8.3	24.5	1.80
A1	25 Mar 2025	2	15.03	91.66	8.7	33.36	8.3	24.7	1.62
A1	25 Mar 2025	3	15.00	90.57	9.6	33.42	8.3	24.8	1.55
A1	25 Mar 2025	4	14.85	90.15	10.1	33.49	8.2	24.8	2.67
A1	25 Mar 2025	5	14.60	89.25	10.3	33.61	8.2	25.0	4.09
A1	25 Mar 2025	6	13.32	82.71	10.3	34.21	8.1	25.7	8.47
A1	25 Mar 2025	7	12.69	83.91	10.1	34.21	7.9	25.8	6.40
A1	25 Mar 2025	8	11.94	91.03	9.7	34.31	7.8	26.1	3.54
A1	25 Mar 2025	9	11.68	95.24	8.8	34.22	7.8	26.0	1.09
A1	25 Mar 2025	10	11.54	96.35	7.6	34.03	7.8	25.9	1.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A1	25 Mar 2025	11	11.40	96.50	6.7	34.14	7.7	26.0	0.66
A1	25 Mar 2025	12	11.38	97.20	6.3	34.06	7.7	26.0	0.68
A1	25 Mar 2025	13	11.23	97.36	5.5	34.02	7.7	26.0	0.63
A1	25 Mar 2025	14	11.12	97.32	5.0	33.98	7.7	26.0	0.60
A1	25 Mar 2025	15	11.07	97.24	4.6	33.98	7.7	26.0	0.55
A1	25 Mar 2025	16	11.01	97.17	4.3	33.95	7.7	26.0	0.53
A1	25 Mar 2025	17	10.95	96.24	3.9	33.94	7.7	26.0	0.46
A1	25 Mar 2025	18	10.94	95.83	3.4	33.91	7.7	25.9	0.43
A1	25 Mar 2025	19	10.94	93.09	3.0	33.88	7.7	25.9	0.46
C4	05 Mar 2025	1	13.89	88.66	7.3	33.46	8.0	25.0	0.58
C4	05 Mar 2025	2	13.88	88.23	7.3	33.46	8.0	25.0	0.56
C4	05 Mar 2025	3	13.85	87.52	7.3	33.46	8.0	25.0	0.57
C4	05 Mar 2025	4	13.80	88.15	7.3	33.47	8.0	25.0	0.73
C4	05 Mar 2025	5	13.71	88.44	7.2	33.48	8.0	25.1	0.94
C4	05 Mar 2025	6	13.52	87.81	7.0	33.51	8.0	25.1	0.88
C4	05 Mar 2025	7	13.48	87.22	6.8	33.51	7.9	25.1	0.90
C4	05 Mar 2025	8	13.48	87.03	6.8	33.52	7.9	25.1	0.98
C4	05 Mar 2025	9	13.27	85.18	6.7	33.56	7.9	25.2	0.66
C4	05 Mar 2025	10	12.76	80.88	6.1	33.61	7.8	25.4	0.53
C4	05 Mar 2025	11	12.72	81.73	5.5	33.59	7.8	25.4	0.74
C4	10 Mar 2025	1	13.81	83.07	8.3	33.42	8.1	25.0	1.29
C4	10 Mar 2025	2	13.80	83.06	8.3	33.41	8.1	25.0	1.33
C4	10 Mar 2025	3	13.77	83.09	8.2	33.41	8.1	25.0	1.45
C4	10 Mar 2025	4	13.69	83.05	8.1	33.41	8.0	25.0	1.96
C4	10 Mar 2025	5	13.35	82.64	7.7	33.46	8.0	25.1	2.79
C4	10 Mar 2025	6	13.07	82.83	7.3	33.47	8.0	25.2	2.91
C4	10 Mar 2025	7	12.78	85.21	6.8	33.52	8.0	25.3	2.57
C4	10 Mar 2025	8	12.67	87.67	6.3	33.55	7.9	25.3	2.21
C4	10 Mar 2025	9	12.45	88.01	5.7	33.59	7.9	25.4	1.82
C4	10 Mar 2025	10	12.41	89.54	5.2	33.60	7.8	25.4	0.92
C4	10 Mar 2025	11	12.41	90.32	5.0	33.60	7.8	25.4	0.79
C4	10 Mar 2025	12	12.51	90.27	5.2	33.58	7.8	25.4	0.95
C4	19 Mar 2025	1	13.47	85.38	7.0	33.46	8.0	25.1	0.54
C4	19 Mar 2025	2	13.47	85.32	7.0	33.46	8.0	25.1	0.56
C4	19 Mar 2025	3	13.44	85.15	7.0	33.47	8.0	25.1	0.58
C4	19 Mar 2025	4	13.38	85.13	6.9	33.47	8.0	25.1	0.65
C4	19 Mar 2025	5	13.33	84.40	6.9	33.48	7.9	25.1	0.83
C4	19 Mar 2025	6	13.29	83.74	6.8	33.48	7.9	25.2	0.92
C4	19 Mar 2025	7	13.22	82.84	6.6	33.50	7.9	25.2	0.95
C4	19 Mar 2025	8	13.19	80.94	6.5	33.51	7.9	25.2	0.86
C4	19 Mar 2025	9	13.05	79.06	6.1	33.53	7.9	25.2	0.79
C4	19 Mar 2025	10	12.82	76.79	5.4	33.57	7.9	25.3	0.69
C4	19 Mar 2025	11	12.82	72.97	5.5	33.56	7.7	25.3	0.83
C4	19 Mar 2025	12	12.81	70.63	5.5	33.57	7.8	25.3	1.41
C4	25 Mar 2025	1	15.03	79.21	8.0	33.51	8.1	24.8	1.03
C4	25 Mar 2025	2	15.01	79.03	8.0	33.52	8.1	24.8	1.08
C4	25 Mar 2025	3	14.66	79.02	8.1	33.55	8.1	24.9	2.18
C4	25 Mar 2025	4	14.10	79.99	7.9	33.58	8.1	25.1	4.77
C4	25 Mar 2025	5	13.23	83.28	7.0	33.66	8.0	25.3	3.58
C4	25 Mar 2025	6	12.39	86.32	6.0	33.69	7.9	25.5	4.75
C4	25 Mar 2025	7	12.10	88.29	5.2	33.71	7.8	25.6	2.94
C4	25 Mar 2025	8	11.93	91.39	4.5	33.71	7.8	25.6	1.23
C4	25 Mar 2025	9	11.82	92.83	4.2	33.71	7.8	25.6	0.86
C4	25 Mar 2025	10	11.71	93.03	4.0	33.72	7.7	25.6	0.62
C4	25 Mar 2025	11	11.76	92.00	3.9	33.71	7.7	25.6	0.79
C4	25 Mar 2025	12	11.81	91.96	3.9	33.71	7.8	25.6	0.87
A7	05 Mar 2025	1	14.12	85.30	6.7	33.16	8.0	24.7	1.53
A7	05 Mar 2025	2	14.15	85.20	6.7	33.25	8.0	24.8	1.48
A7	05 Mar 2025	3	14.16	85.08	7.0	33.34	8.0	24.9	1.56
A7	05 Mar 2025	4	14.12	85.21	7.3	33.40	8.0	24.9	1.90
A7	05 Mar 2025	5	14.05	85.03	7.0	33.42	8.0	25.0	2.15
A7	05 Mar 2025	6	13.92	85.02	7.1	33.50	8.0	25.0	2.13
A7	05 Mar 2025	7	13.63	86.12	7.1	33.55	8.0	25.1	1.76
A7	05 Mar 2025	8	13.51	87.04	7.0	33.58	8.0	25.2	1.63
A7	05 Mar 2025	9	13.39	87.29	6.9	33.60	7.9	25.2	1.44
A7	05 Mar 2025	10	13.26	87.97	6.7	33.65	7.9	25.3	1.22
A7	05 Mar 2025	11	13.04	89.20	6.7	33.72	7.9	25.4	1.10
A7	05 Mar 2025	12	12.81	89.78	6.5	33.80	7.9	25.5	1.06
A7	05 Mar 2025	13	12.61	90.29	6.4	33.81	7.8	25.6	0.83

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	05 Mar 2025	14	12.41	91.11	6.1	33.91	7.8	25.7	0.77
A7	05 Mar 2025	15	12.27	91.82	5.9	33.91	7.8	25.7	0.64
A7	05 Mar 2025	16	12.13	92.01	5.5	33.79	7.8	25.6	0.79
A7	05 Mar 2025	17	11.94	91.82	5.0	33.76	7.8	25.6	0.78
A7	05 Mar 2025	18	11.78	91.27	4.6	33.73	7.8	25.6	0.66
A7	05 Mar 2025	19	11.75	91.84	4.3	33.70	7.7	25.6	0.76
A7	10 Mar 2025	1	13.74	82.85	8.3	33.35	8.1	25.0	3.32
A7	10 Mar 2025	2	13.74	83.02	8.3	33.35	8.1	25.0	3.28
A7	10 Mar 2025	3	13.72	82.84	8.2	33.35	8.1	25.0	3.41
A7	10 Mar 2025	4	13.45	82.64	8.1	33.39	8.1	25.1	4.12
A7	10 Mar 2025	5	13.07	82.67	7.8	33.43	8.0	25.2	3.54
A7	10 Mar 2025	6	12.87	87.06	7.3	33.45	8.0	25.2	2.52
A7	10 Mar 2025	7	12.63	90.11	6.7	33.48	7.9	25.3	1.90
A7	10 Mar 2025	8	12.52	91.92	6.2	33.51	7.9	25.3	1.75
A7	10 Mar 2025	9	12.30	92.45	5.9	33.53	7.9	25.4	1.39
A7	10 Mar 2025	10	12.24	93.49	5.5	33.55	7.8	25.4	1.05
A7	10 Mar 2025	11	11.99	94.27	5.0	33.61	7.8	25.5	0.82
A7	10 Mar 2025	12	11.82	94.73	4.6	33.63	7.8	25.6	0.75
A7	10 Mar 2025	13	11.68	95.09	4.4	33.66	7.8	25.6	0.77
A7	10 Mar 2025	14	11.43	95.02	4.0	33.72	7.8	25.7	0.76
A7	10 Mar 2025	15	11.19	94.85	3.6	33.79	7.7	25.8	0.63
A7	10 Mar 2025	16	11.03	95.01	3.2	33.84	7.7	25.9	0.44
A7	10 Mar 2025	17	10.96	95.21	3.0	33.86	7.7	25.9	0.33
A7	10 Mar 2025	18	10.95	95.23	2.9	33.86	7.7	25.9	0.32
A7	10 Mar 2025	19	10.91	95.23	2.8	33.89	7.7	25.9	0.30
A7	10 Mar 2025	20	10.90	95.16	2.6	33.90	7.6	25.9	0.25
A7	10 Mar 2025	21	10.89	94.82	2.6	33.90	7.6	25.9	0.25
A7	19 Mar 2025	1	14.07	92.77	7.4	33.34	8.1	24.9	1.22
A7	19 Mar 2025	2	14.08	93.32	7.6	33.34	8.1	24.9	1.15
A7	19 Mar 2025	3	14.08	93.17	7.6	33.34	8.1	24.9	1.20
A7	19 Mar 2025	4	13.98	92.82	7.6	33.41	8.0	25.0	1.60
A7	19 Mar 2025	5	13.54	92.26	7.5	33.68	8.0	25.3	1.82
A7	19 Mar 2025	6	13.10	92.32	7.5	33.81	8.0	25.4	1.94
A7	19 Mar 2025	7	12.79	92.62	7.5	33.85	7.9	25.5	1.73
A7	19 Mar 2025	8	12.62	93.02	7.2	33.82	7.9	25.6	1.27
A7	19 Mar 2025	9	12.60	93.71	6.9	33.76	7.9	25.5	1.29
A7	19 Mar 2025	10	12.58	93.86	6.4	33.70	7.9	25.5	1.27
A7	19 Mar 2025	11	12.52	93.47	6.2	33.72	7.9	25.5	1.20
A7	19 Mar 2025	12	12.29	92.89	5.9	33.76	7.8	25.6	1.40
A7	19 Mar 2025	13	12.14	92.15	5.6	33.78	7.8	25.6	1.19
A7	19 Mar 2025	14	12.08	91.81	5.2	33.76	7.8	25.6	0.96
A7	19 Mar 2025	15	12.04	91.16	4.7	33.73	7.8	25.6	0.91
A7	19 Mar 2025	16	12.00	90.73	4.4	33.72	7.8	25.6	0.73
A7	19 Mar 2025	17	11.86	90.41	4.2	33.74	7.8	25.6	1.16
A7	19 Mar 2025	18	11.64	89.47	3.9	33.78	7.7	25.7	0.66
A7	19 Mar 2025	19	11.56	87.93	3.5	33.79	7.7	25.7	0.55
A7	19 Mar 2025	20	11.53	86.38	3.4	33.78	7.7	25.7	0.55
A7	25 Mar 2025	1	14.95	91.45	8.2	33.37	8.2	24.7	1.49
A7	25 Mar 2025	2	14.96	92.34	8.8	33.40	8.2	24.7	1.33
A7	25 Mar 2025	3	14.93	91.41	9.4	33.45	8.2	24.8	1.49
A7	25 Mar 2025	4	14.75	89.74	9.4	33.57	8.2	24.9	3.82
A7	25 Mar 2025	5	14.41	88.39	9.7	33.75	8.2	25.1	13.16
A7	25 Mar 2025	6	13.49	76.90	9.8	34.24	8.1	25.7	13.14
A7	25 Mar 2025	7	12.63	81.31	9.8	34.56	7.9	26.1	5.08
A7	25 Mar 2025	8	11.73	90.40	9.7	34.62	7.8	26.3	0.86
A7	25 Mar 2025	9	11.35	95.97	8.6	34.23	7.7	26.1	0.54
A7	25 Mar 2025	10	11.23	97.06	7.0	34.12	7.7	26.0	0.63
A7	25 Mar 2025	11	11.12	96.92	5.3	34.00	7.7	26.0	0.56
A7	25 Mar 2025	12	11.01	96.98	4.3	33.95	7.7	26.0	0.56
A7	25 Mar 2025	13	11.05	96.99	3.7	33.87	7.7	25.9	0.53
A7	25 Mar 2025	14	10.93	96.84	3.6	33.88	7.7	25.9	0.51
A7	25 Mar 2025	15	10.91	96.72	3.4	33.88	7.7	25.9	0.48
A7	25 Mar 2025	16	10.91	96.80	3.3	33.87	7.7	25.9	0.49
A7	25 Mar 2025	17	10.89	96.64	3.2	33.87	7.7	25.9	0.48
A7	25 Mar 2025	18	10.90	96.56	3.2	33.86	7.7	25.9	0.52
A7	25 Mar 2025	19	10.89	96.52	3.1	33.86	7.7	25.9	0.51
A7	25 Mar 2025	20	10.89	96.52	3.1	33.87	7.7	25.9	0.48
A7	25 Mar 2025	21	10.89	96.18	3.0	33.88	7.7	25.9	0.48
C5	05 Mar 2025	1	13.85	87.13	7.6	33.46	8.0	25.0	0.76
C5	05 Mar 2025	2	13.84	87.56	7.6	33.46	8.0	25.0	0.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C5	05 Mar 2025	3	13.81	87.65	7.6	33.46	8.0	25.0	0.81
C5	05 Mar 2025	4	13.75	88.11	7.4	33.47	8.0	25.1	0.91
C5	05 Mar 2025	5	13.71	88.14	7.3	33.48	8.0	25.1	0.94
C5	05 Mar 2025	6	13.57	88.13	7.2	33.49	8.0	25.1	1.03
C5	05 Mar 2025	7	13.43	87.85	7.0	33.50	8.0	25.1	1.02
C5	05 Mar 2025	8	13.21	88.35	6.9	33.52	7.9	25.2	0.98
C5	05 Mar 2025	9	12.95	88.29	6.5	33.54	7.9	25.3	1.03
C5	05 Mar 2025	10	12.37	88.62	5.5	33.62	7.8	25.4	0.79
C5	05 Mar 2025	11	11.96	90.55	4.6	33.67	7.8	25.6	0.51
C5	10 Mar 2025	1	13.86	82.30	8.0	33.43	8.1	25.0	1.19
C5	10 Mar 2025	2	13.86	82.14	8.0	33.43	8.1	25.0	1.29
C5	10 Mar 2025	3	13.75	81.82	8.0	33.42	8.1	25.0	1.37
C5	10 Mar 2025	4	13.46	82.00	7.8	33.43	8.0	25.1	2.26
C5	10 Mar 2025	5	13.22	83.03	7.4	33.47	8.0	25.2	2.50
C5	10 Mar 2025	6	12.96	85.93	6.8	33.50	8.0	25.2	1.87
C5	10 Mar 2025	7	12.85	89.62	6.3	33.51	7.9	25.3	1.36
C5	10 Mar 2025	8	12.73	91.74	5.9	33.53	7.9	25.3	0.95
C5	10 Mar 2025	9	12.53	91.83	5.6	33.57	7.9	25.4	0.65
C5	10 Mar 2025	10	12.45	91.03	5.3	33.58	7.8	25.4	0.50
C5	10 Mar 2025	11	12.40	89.68	5.2	33.59	7.8	25.4	0.53
C5	19 Mar 2025	1	13.49	84.58	7.2	33.40	8.0	25.1	0.48
C5	19 Mar 2025	2	13.43	84.52	7.1	33.46	7.9	25.1	0.48
C5	19 Mar 2025	3	13.32	83.68	7.1	33.48	7.9	25.2	0.55
C5	19 Mar 2025	4	13.24	82.31	7.0	33.49	7.9	25.2	0.61
C5	19 Mar 2025	5	13.12	79.35	6.8	33.52	7.9	25.2	0.72
C5	19 Mar 2025	6	12.73	76.00	6.2	33.59	7.9	25.4	0.66
C5	19 Mar 2025	7	12.38	71.85	5.3	33.65	7.8	25.5	0.58
C5	19 Mar 2025	8	12.16	69.54	4.6	33.68	7.8	25.5	0.54
C5	19 Mar 2025	9	11.84	67.68	4.1	33.73	7.7	25.6	0.53
C5	19 Mar 2025	10	11.78	64.10	3.6	33.73	7.7	25.6	0.57
C5	19 Mar 2025	11	11.77	60.26	3.4	33.73	7.7	25.6	0.64
C5	25 Mar 2025	1	15.14	84.84	8.8	33.49	8.2	24.8	1.24
C5	25 Mar 2025	2	15.14	80.99	8.9	33.49	8.2	24.8	1.34
C5	25 Mar 2025	3	15.11	86.06	8.8	33.49	8.2	24.8	1.42
C5	25 Mar 2025	4	15.01	87.17	8.8	33.49	8.2	24.8	1.51
C5	25 Mar 2025	5	14.41	86.08	9.1	33.52	8.2	25.0	5.57
C5	25 Mar 2025	6	13.95	83.56	8.6	33.53	8.1	25.1	7.76
C5	25 Mar 2025	7	13.05	82.60	7.3	33.62	8.0	25.3	6.18
C5	25 Mar 2025	8	12.41	87.04	6.0	33.68	7.9	25.5	3.14
C5	25 Mar 2025	9	12.03	90.53	5.2	33.69	7.8	25.6	2.31
C5	25 Mar 2025	10	11.79	93.75	4.6	33.70	7.8	25.6	1.02
C5	25 Mar 2025	11	12.01	94.75	4.6	33.67	7.8	25.6	0.95
A6	05 Mar 2025	1	14.12	83.38	6.6	33.41	8.0	24.9	1.17
A6	05 Mar 2025	2	14.07	83.25	7.5	33.44	8.0	25.0	1.24
A6	05 Mar 2025	3	14.01	83.14	7.3	33.43	8.0	25.0	1.40
A6	05 Mar 2025	4	14.03	83.17	7.3	33.42	8.0	25.0	1.70
A6	05 Mar 2025	5	13.91	83.25	7.3	33.49	8.0	25.0	1.81
A6	05 Mar 2025	6	13.75	83.54	7.2	33.55	8.0	25.1	1.68
A6	05 Mar 2025	7	13.67	84.57	7.2	33.55	8.0	25.1	1.45
A6	05 Mar 2025	8	13.43	85.84	7.2	33.63	8.0	25.2	1.39
A6	05 Mar 2025	9	13.31	86.33	7.0	33.65	7.9	25.3	1.18
A6	05 Mar 2025	10	13.23	86.87	7.0	33.64	7.9	25.3	1.22
A6	05 Mar 2025	11	13.00	87.68	6.8	33.77	7.9	25.4	0.99
A6	05 Mar 2025	12	12.63	88.89	6.6	34.09	7.8	25.8	0.77
A6	05 Mar 2025	13	12.43	90.05	6.7	33.91	7.8	25.7	0.69
A6	05 Mar 2025	14	11.95	90.89	6.4	33.95	7.8	25.8	0.62
A6	05 Mar 2025	15	11.52	90.94	5.5	33.92	7.7	25.8	0.57
A6	05 Mar 2025	16	11.43	90.79	4.6	33.83	7.7	25.8	0.56
A6	05 Mar 2025	17	11.42	90.64	4.1	33.78	7.7	25.8	0.62
A6	05 Mar 2025	18	11.39	90.67	3.9	33.77	7.7	25.7	0.47
A6	05 Mar 2025	19	11.35	90.34	3.9	33.77	7.7	25.8	0.48
A6	05 Mar 2025	20	11.35	90.54	3.8	33.76	7.7	25.7	0.57
A6	05 Mar 2025	21	11.35	90.53	3.7	33.76	7.7	25.7	0.50
A6	10 Mar 2025	1	13.51	81.03	8.2	33.35	8.0	25.0	3.76
A6	10 Mar 2025	2	13.48	80.76	8.2	33.36	8.0	25.0	4.43
A6	10 Mar 2025	3	13.34	81.07	8.1	33.38	8.0	25.1	4.82
A6	10 Mar 2025	4	13.20	82.38	7.9	33.40	8.0	25.1	4.08
A6	10 Mar 2025	5	13.06	83.93	7.6	33.41	8.0	25.1	3.59
A6	10 Mar 2025	6	12.63	86.40	7.2	33.46	8.0	25.3	2.84

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A6	10 Mar 2025	7	12.53	89.47	6.7	33.47	7.9	25.3	2.46
A6	10 Mar 2025	8	12.53	90.79	6.4	33.48	7.9	25.3	2.43
A6	10 Mar 2025	9	12.54	91.24	6.2	33.49	7.9	25.3	2.20
A6	10 Mar 2025	10	12.45	91.19	6.0	33.52	7.9	25.4	2.02
A6	10 Mar 2025	11	12.28	91.20	5.6	33.55	7.9	25.4	1.69
A6	10 Mar 2025	12	11.88	91.86	4.9	33.65	7.8	25.6	1.21
A6	10 Mar 2025	13	11.43	92.65	4.1	33.74	7.8	25.7	0.84
A6	10 Mar 2025	14	11.01	93.43	3.4	33.85	7.7	25.9	0.56
A6	10 Mar 2025	15	10.91	93.88	3.0	33.88	7.7	25.9	0.35
A6	10 Mar 2025	16	10.91	93.76	2.8	33.89	7.7	25.9	0.32
A6	10 Mar 2025	17	10.92	93.22	2.8	33.98	7.7	26.0	0.31
A6	10 Mar 2025	18	10.91	92.90	2.8	33.90	7.7	25.9	0.32
A6	10 Mar 2025	19	10.90	92.86	2.6	33.88	7.7	25.9	0.29
A6	10 Mar 2025	20	10.91	92.73	2.5	33.88	7.7	25.9	0.28
A6	19 Mar 2025	1	14.06	89.97	8.2	33.32	8.1	24.9	1.83
A6	19 Mar 2025	2	14.07	89.88	8.3	33.32	8.1	24.9	1.86
A6	19 Mar 2025	3	14.01	90.02	8.0	33.34	8.1	24.9	1.99
A6	19 Mar 2025	4	13.64	87.98	7.6	33.41	8.0	25.0	2.32
A6	19 Mar 2025	5	13.46	89.08	7.1	33.44	8.0	25.1	2.12
A6	19 Mar 2025	6	13.17	90.81	6.7	33.48	8.0	25.2	1.76
A6	19 Mar 2025	7	12.92	92.02	6.3	33.51	7.9	25.3	1.56
A6	19 Mar 2025	8	12.81	92.94	6.0	33.53	7.9	25.3	1.72
A6	19 Mar 2025	9	12.70	92.91	5.7	33.55	7.9	25.3	1.38
A6	19 Mar 2025	10	12.61	92.69	5.5	33.57	7.9	25.4	1.16
A6	19 Mar 2025	11	12.40	92.59	5.2	33.60	7.8	25.4	1.03
A6	19 Mar 2025	12	12.35	91.92	5.0	33.61	7.8	25.4	1.23
A6	19 Mar 2025	13	12.35	91.86	4.9	33.60	7.8	25.4	0.93
A6	19 Mar 2025	14	12.18	91.65	4.7	33.63	7.8	25.5	0.96
A6	19 Mar 2025	15	12.04	89.84	4.4	33.65	7.8	25.5	1.27
A6	19 Mar 2025	16	11.86	90.87	4.1	33.69	7.8	25.6	0.95
A6	19 Mar 2025	17	11.75	90.60	3.8	33.72	7.7	25.6	0.73
A6	19 Mar 2025	18	11.76	89.60	3.7	33.72	7.7	25.6	0.60
A6	19 Mar 2025	19	11.74	88.82	3.6	33.72	7.7	25.6	0.57
A6	19 Mar 2025	20	11.69	88.46	3.6	33.73	7.7	25.7	0.62
A6	19 Mar 2025	21	11.65	88.10	3.5	33.74	7.7	25.7	0.67
A6	25 Mar 2025	1	15.02	90.41	10.3	33.44	8.3	24.8	1.85
A6	25 Mar 2025	2	15.02	89.17	10.6	33.45	8.3	24.8	1.74
A6	25 Mar 2025	3	14.99	91.54	10.6	33.45	8.3	24.8	2.08
A6	25 Mar 2025	4	14.95	91.64	10.3	33.50	8.3	24.8	2.48
A6	25 Mar 2025	5	14.81	89.72	10.3	33.57	8.2	24.9	6.97
A6	25 Mar 2025	6	14.24	81.71	10.4	33.91	8.2	25.3	18.95
A6	25 Mar 2025	7	13.11	72.11	10.6	34.41	8.0	25.9	12.95
A6	25 Mar 2025	8	12.37	84.12	10.4	34.37	7.9	26.0	3.75
A6	25 Mar 2025	9	11.78	91.64	9.7	34.29	7.8	26.1	1.91
A6	25 Mar 2025	10	11.54	94.89	8.8	34.30	7.8	26.1	0.96
A6	25 Mar 2025	11	11.41	96.45	7.4	34.15	7.8	26.0	0.75
A6	25 Mar 2025	12	11.12	96.96	6.0	34.10	7.7	26.1	0.76
A6	25 Mar 2025	13	10.96	96.69	5.0	34.04	7.7	26.0	0.54
A6	25 Mar 2025	14	10.94	96.36	4.2	33.96	7.7	26.0	0.50
A6	25 Mar 2025	15	10.90	96.48	3.7	33.93	7.7	26.0	0.49
A6	25 Mar 2025	16	10.89	96.54	3.4	33.92	7.7	26.0	0.46
A6	25 Mar 2025	17	10.88	96.44	3.2	33.91	7.7	25.9	0.44
A6	25 Mar 2025	18	10.86	95.90	3.1	33.92	7.7	26.0	0.48
A6	25 Mar 2025	19	10.85	95.04	3.0	33.92	7.7	26.0	0.56
A6	25 Mar 2025	20	10.85	94.69	2.9	33.92	7.7	26.0	0.58
A6	25 Mar 2025	21	10.86	94.60	2.8	33.91	7.6	26.0	0.60
C6	05 Mar 2025	1	14.13	84.06	7.4	33.42	8.0	24.9	0.81
C6	05 Mar 2025	2	14.11	82.42	7.6	33.44	8.0	25.0	0.84
C6	05 Mar 2025	3	14.02	85.98	7.4	33.49	8.0	25.0	1.05
C6	05 Mar 2025	4	13.87	86.74	7.5	33.57	8.0	25.1	0.87
C6	05 Mar 2025	5	13.68	86.74	7.6	33.58	8.0	25.2	0.69
C6	05 Mar 2025	6	13.63	88.02	7.3	33.57	7.9	25.2	0.55
C6	05 Mar 2025	7	13.65	88.61	7.2	33.53	7.9	25.1	0.58
C6	05 Mar 2025	8	13.41	88.93	7.1	33.64	7.9	25.3	0.56
C6	05 Mar 2025	9	12.95	89.62	6.7	33.89	7.9	25.5	0.65
C6	10 Mar 2025	1	14.03	82.72	8.0	33.40	8.1	24.9	0.39
C6	10 Mar 2025	2	14.01	82.72	7.9	33.40	8.1	24.9	0.44
C6	10 Mar 2025	3	13.74	82.68	7.7	33.42	8.1	25.0	0.60
C6	10 Mar 2025	4	13.38	83.26	7.2	33.45	8.0	25.1	1.12
C6	10 Mar 2025	5	13.15	85.26	7.0	33.46	8.0	25.2	1.46

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C6	10 Mar 2025	6	12.92	85.72	6.8	33.48	8.0	25.2	2.25
C6	10 Mar 2025	7	12.73	87.26	6.4	33.50	7.9	25.3	2.22
C6	10 Mar 2025	8	12.57	89.25	6.2	33.52	7.9	25.3	1.93
C6	10 Mar 2025	9	12.45	91.41	5.8	33.56	7.9	25.4	1.28
C6	10 Mar 2025	10	12.48	91.25	5.6	33.55	7.9	25.4	1.10
C6	19 Mar 2025	1	13.69	87.98	6.9	33.43	8.0	25.0	0.50
C6	19 Mar 2025	2	13.43	88.23	7.1	33.56	8.0	25.2	0.48
C6	19 Mar 2025	3	13.21	84.80	6.9	33.57	7.9	25.2	0.53
C6	19 Mar 2025	4	13.18	77.60	6.9	33.55	7.9	25.2	0.63
C6	19 Mar 2025	5	13.03	73.66	6.9	33.62	7.9	25.3	0.72
C6	19 Mar 2025	6	12.61	68.19	6.8	33.88	7.8	25.6	0.70
C6	19 Mar 2025	7	12.37	65.70	6.9	33.91	7.8	25.7	0.61
C6	19 Mar 2025	8	12.11	67.35	6.9	33.97	7.8	25.8	0.61
C6	19 Mar 2025	9	11.78	67.86	6.6	34.07	7.7	25.9	0.56
C6	19 Mar 2025	10	11.95	66.46	6.0	33.91	7.7	25.8	0.60
C6	25 Mar 2025	1	14.85	90.99	9.1	33.48	8.2	24.8	1.92
C6	25 Mar 2025	2	14.85	90.82	9.1	33.48	8.2	24.8	2.01
C6	25 Mar 2025	3	14.85	90.65	9.1	33.48	8.2	24.8	2.12
C6	25 Mar 2025	4	14.84	90.83	9.0	33.49	8.2	24.8	2.17
C6	25 Mar 2025	5	14.69	87.75	8.8	33.51	8.2	24.9	4.57
C6	25 Mar 2025	6	14.61	84.91	8.7	33.50	8.1	24.9	5.49
C6	25 Mar 2025	7	13.84	85.47	8.2	33.57	8.1	25.1	4.08
C6	25 Mar 2025	8	13.82	88.57	7.3	33.55	8.0	25.1	2.57
C6	25 Mar 2025	9	11.99	90.80	5.8	33.73	7.9	25.6	1.32
C6	25 Mar 2025	10	12.12	93.39	4.8	33.65	7.8	25.5	0.74
C7	05 Mar 2025	1	14.07	83.47	7.5	33.41	8.0	24.9	1.20
C7	05 Mar 2025	2	14.06	85.00	7.6	33.41	8.0	24.9	1.19
C7	05 Mar 2025	3	14.05	85.22	7.5	33.41	8.0	25.0	1.22
C7	05 Mar 2025	4	13.89	85.41	7.4	33.43	8.0	25.0	1.25
C7	05 Mar 2025	5	13.59	85.30	7.3	33.46	8.0	25.1	1.26
C7	05 Mar 2025	6	13.58	84.89	7.2	33.45	8.0	25.1	1.43
C7	05 Mar 2025	7	13.56	85.10	7.1	33.45	8.0	25.1	1.62
C7	05 Mar 2025	8	13.53	84.71	7.1	33.45	8.0	25.1	1.63
C7	05 Mar 2025	9	13.53	84.45	7.1	33.45	8.0	25.1	1.86
C7	05 Mar 2025	10	13.52	84.56	7.1	33.45	8.0	25.1	1.80
C7	05 Mar 2025	11	13.51	84.44	7.1	33.45	8.0	25.1	1.68
C7	05 Mar 2025	12	13.49	84.03	7.1	33.46	8.0	25.1	1.61
C7	05 Mar 2025	13	13.34	83.63	6.9	33.48	7.9	25.1	1.56
C7	05 Mar 2025	14	13.19	83.29	6.6	33.49	7.9	25.2	1.32
C7	05 Mar 2025	15	12.54	83.84	6.0	33.57	7.9	25.4	1.29
C7	05 Mar 2025	16	11.90	86.47	5.2	33.65	7.8	25.6	0.71
C7	05 Mar 2025	17	12.01	89.75	4.8	33.62	7.8	25.5	0.54
C7	05 Mar 2025	18	11.81	89.58	4.7	33.66	7.8	25.6	0.54
C7	05 Mar 2025	19	11.77	91.56	4.4	33.65	7.7	25.6	0.55
C7	10 Mar 2025	1	13.52	81.39	8.5	33.30	8.1	25.0	2.58
C7	10 Mar 2025	2	13.53	81.27	8.5	33.31	8.1	25.0	2.81
C7	10 Mar 2025	3	13.38	80.71	8.3	33.38	8.0	25.1	3.43
C7	10 Mar 2025	4	13.27	82.34	8.0	33.40	8.0	25.1	3.59
C7	10 Mar 2025	5	13.15	84.17	7.8	33.41	8.0	25.1	3.43
C7	10 Mar 2025	6	13.00	86.52	7.7	33.43	8.0	25.2	3.22
C7	10 Mar 2025	7	12.87	87.81	7.4	33.45	8.0	25.2	3.00
C7	10 Mar 2025	8	12.74	89.06	7.1	33.46	8.0	25.3	2.69
C7	10 Mar 2025	9	12.64	90.52	6.8	33.48	7.9	25.3	2.42
C7	10 Mar 2025	10	12.52	90.85	6.5	33.49	7.9	25.3	2.37
C7	10 Mar 2025	11	12.39	91.03	6.1	33.52	7.9	25.4	2.33
C7	10 Mar 2025	12	12.21	91.24	5.8	33.55	7.9	25.4	1.94
C7	10 Mar 2025	13	11.96	91.56	5.4	33.58	7.8	25.5	1.63
C7	10 Mar 2025	14	11.74	92.12	5.1	33.61	7.8	25.6	1.69
C7	10 Mar 2025	15	11.63	93.13	4.8	33.63	7.8	25.6	1.50
C7	10 Mar 2025	16	11.56	93.71	4.5	33.64	7.8	25.6	1.33
C7	10 Mar 2025	17	11.42	93.93	4.3	33.66	7.8	25.7	1.16
C7	10 Mar 2025	18	11.19	94.37	3.9	33.73	7.7	25.8	0.70
C7	10 Mar 2025	19	11.15	94.82	3.6	33.74	7.7	25.8	0.41
C7	19 Mar 2025	1	14.09	90.80	7.9	33.33	8.0	24.9	1.20
C7	19 Mar 2025	2	14.05	91.02	7.8	33.34	8.0	24.9	1.27
C7	19 Mar 2025	3	14.00	90.83	7.7	33.35	8.0	24.9	1.43
C7	19 Mar 2025	4	13.85	90.76	7.3	33.38	8.0	25.0	1.56
C7	19 Mar 2025	5	13.62	90.67	6.9	33.43	8.0	25.0	1.57
C7	19 Mar 2025	6	13.46	90.98	6.5	33.45	7.9	25.1	1.59

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C7	19 Mar 2025	7	13.21	91.54	6.3	33.48	7.9	25.2	1.53
C7	19 Mar 2025	8	13.13	92.12	6.2	33.49	7.9	25.2	1.55
C7	19 Mar 2025	9	12.88	92.09	6.0	33.52	7.9	25.3	1.61
C7	19 Mar 2025	10	12.27	92.75	5.5	33.61	7.9	25.5	1.37
C7	19 Mar 2025	11	12.04	93.28	5.0	33.62	7.8	25.5	1.00
C7	19 Mar 2025	12	11.80	93.97	4.7	33.66	7.8	25.6	0.99
C7	19 Mar 2025	13	11.57	95.27	4.4	33.68	7.8	25.6	0.82
C7	19 Mar 2025	14	11.50	95.82	4.1	33.68	7.7	25.7	0.85
C7	19 Mar 2025	15	11.48	96.16	4.0	33.69	7.7	25.7	0.98
C7	19 Mar 2025	16	11.40	95.61	3.8	33.73	7.7	25.7	1.01
C7	19 Mar 2025	17	11.38	95.06	3.6	33.75	7.7	25.7	0.64
C7	19 Mar 2025	18	11.40	92.81	3.4	33.75	7.7	25.7	0.68
C7	25 Mar 2025	1	14.96	89.74	8.4	33.40	8.2	24.7	2.52
C7	25 Mar 2025	2	14.96	89.76	8.8	33.41	8.2	24.8	2.43
C7	25 Mar 2025	3	14.96	89.84	9.4	33.44	8.2	24.8	2.68
C7	25 Mar 2025	4	14.96	90.08	9.5	33.44	8.2	24.8	2.75
C7	25 Mar 2025	5	14.96	90.24	9.7	33.45	8.2	24.8	2.86
C7	25 Mar 2025	6	14.95	90.67	9.6	33.46	8.2	24.8	2.58
C7	25 Mar 2025	7	13.93	89.28	9.1	33.65	8.1	25.2	3.30
C7	25 Mar 2025	8	14.06	88.88	8.2	33.50	8.1	25.0	3.22
C7	25 Mar 2025	9	12.89	89.59	7.6	33.69	8.0	25.4	3.20
C7	25 Mar 2025	10	12.77	89.40	6.6	33.61	7.9	25.4	3.72
C7	25 Mar 2025	11	12.22	90.17	6.2	33.68	7.9	25.5	3.28
C7	25 Mar 2025	12	11.82	92.66	5.4	33.73	7.8	25.6	2.30
C7	25 Mar 2025	13	11.76	93.44	4.7	33.72	7.8	25.6	1.42
C7	25 Mar 2025	14	11.61	94.12	4.4	33.73	7.8	25.7	1.17
C7	25 Mar 2025	15	11.60	94.42	4.1	33.73	7.7	25.7	0.64
C7	25 Mar 2025	16	11.42	94.17	3.9	33.76	7.7	25.7	0.78
C7	25 Mar 2025	17	11.14	94.35	3.6	33.80	7.7	25.8	0.51
C7	25 Mar 2025	18	11.11	95.35	3.4	33.80	7.7	25.8	0.45
C7	25 Mar 2025	19	11.11	94.01	3.3	33.80	7.7	25.8	0.45
C8	05 Mar 2025	1	14.57	79.84	7.6	33.37	8.1	24.8	1.75
C8	05 Mar 2025	2	14.52	79.43	7.8	33.40	8.1	24.8	1.98
C8	05 Mar 2025	3	14.35	80.16	7.8	33.47	8.1	24.9	2.33
C8	05 Mar 2025	4	14.29	80.76	7.8	33.45	8.1	24.9	2.46
C8	05 Mar 2025	5	14.23	81.90	7.8	33.47	8.1	25.0	2.60
C8	05 Mar 2025	6	14.19	82.62	7.7	33.45	8.0	24.9	2.68
C8	05 Mar 2025	7	14.16	83.10	7.5	33.46	8.0	25.0	2.56
C8	05 Mar 2025	8	14.10	83.57	7.3	33.49	8.0	25.0	2.40
C8	05 Mar 2025	9	14.05	83.90	7.4	33.51	8.0	25.0	2.30
C8	05 Mar 2025	10	13.86	83.84	7.5	33.58	8.0	25.1	2.15
C8	05 Mar 2025	11	13.50	83.45	7.5	33.65	8.0	25.2	1.83
C8	05 Mar 2025	12	13.35	82.96	7.3	33.63	8.0	25.3	1.71
C8	05 Mar 2025	13	13.23	82.91	7.1	33.61	7.9	25.3	1.66
C8	05 Mar 2025	14	13.08	82.72	6.8	33.57	7.9	25.3	1.56
C8	05 Mar 2025	15	12.79	82.78	6.5	33.63	7.9	25.4	1.42
C8	05 Mar 2025	16	11.92	83.01	5.8	33.76	7.8	25.6	1.19
C8	05 Mar 2025	17	11.68	82.82	5.0	33.70	7.8	25.6	0.97
C8	05 Mar 2025	18	11.68	80.73	4.6	33.67	7.8	25.6	0.98
C8	05 Mar 2025	19	11.73	77.37	4.5	33.65	7.8	25.6	1.06
C8	10 Mar 2025	1	13.43	72.54	8.4	33.22	8.0	24.9	3.46
C8	10 Mar 2025	2	13.44	72.33	8.4	33.22	8.0	24.9	3.53
C8	10 Mar 2025	3	13.40	72.27	8.3	33.25	8.0	25.0	3.54
C8	10 Mar 2025	4	13.14	73.03	8.2	33.40	8.0	25.1	5.06
C8	10 Mar 2025	5	13.06	79.02	8.1	33.42	8.0	25.2	4.78
C8	10 Mar 2025	6	13.00	83.05	8.0	33.42	8.0	25.2	4.45
C8	10 Mar 2025	7	12.95	85.46	7.8	33.43	8.0	25.2	4.08
C8	10 Mar 2025	8	12.93	86.87	7.8	33.43	8.0	25.2	3.69
C8	10 Mar 2025	9	12.92	87.86	7.7	33.43	8.0	25.2	3.53
C8	10 Mar 2025	10	12.89	88.13	7.6	33.43	8.0	25.2	3.49
C8	10 Mar 2025	11	12.81	88.89	7.5	33.44	8.0	25.2	3.00
C8	10 Mar 2025	12	12.65	89.48	7.1	33.48	8.0	25.3	2.82
C8	10 Mar 2025	13	12.53	90.20	6.8	33.49	7.9	25.3	2.56
C8	10 Mar 2025	14	12.40	90.63	6.4	33.51	7.9	25.4	2.46
C8	10 Mar 2025	15	12.21	91.28	6.0	33.54	7.9	25.4	2.22
C8	10 Mar 2025	16	11.99	91.78	5.4	33.59	7.8	25.5	1.87
C8	10 Mar 2025	17	11.51	92.38	4.7	33.69	7.8	25.7	1.39
C8	10 Mar 2025	18	11.26	92.48	4.0	33.74	7.7	25.8	0.75
C8	10 Mar 2025	19	11.35	92.08	3.8	33.72	7.7	25.7	0.61
C8	10 Mar 2025	20	11.23	92.02	3.7	33.75	7.7	25.8	0.60

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	19 Mar 2025	1	14.06	89.63	8.2	33.32	8.1	24.9	1.79
C8	19 Mar 2025	2	14.05	87.85	8.2	33.32	8.1	24.9	1.76
C8	19 Mar 2025	3	14.04	90.15	8.2	33.32	8.1	24.9	1.67
C8	19 Mar 2025	4	14.03	90.09	8.1	33.33	8.1	24.9	1.88
C8	19 Mar 2025	5	13.91	90.11	7.8	33.34	8.1	24.9	1.93
C8	19 Mar 2025	6	13.55	90.17	7.3	33.41	8.0	25.1	1.92
C8	19 Mar 2025	7	13.27	89.37	6.8	33.46	8.0	25.1	1.76
C8	19 Mar 2025	8	13.04	91.39	6.4	33.49	7.9	25.2	1.63
C8	19 Mar 2025	9	12.81	92.24	6.2	33.52	7.9	25.3	1.56
C8	19 Mar 2025	10	12.68	93.27	5.9	33.54	7.9	25.3	1.43
C8	19 Mar 2025	11	12.51	93.90	5.6	33.57	7.9	25.4	1.18
C8	19 Mar 2025	12	12.23	94.13	5.2	33.62	7.8	25.5	1.49
C8	19 Mar 2025	13	12.00	94.31	4.7	33.65	7.8	25.5	1.34
C8	19 Mar 2025	14	11.71	93.94	4.2	33.70	7.8	25.6	1.03
C8	19 Mar 2025	15	11.45	92.70	3.7	33.74	7.7	25.7	0.88
C8	19 Mar 2025	16	11.32	94.18	3.4	33.76	7.7	25.8	0.92
C8	19 Mar 2025	17	11.31	91.40	3.2	33.76	7.7	25.8	0.73
C8	19 Mar 2025	18	11.30	88.72	3.1	33.76	7.7	25.8	0.64
C8	19 Mar 2025	19	11.32	89.29	3.1	33.76	7.7	25.8	0.71
C8	19 Mar 2025	20	11.36	88.33	3.1	33.76	7.7	25.7	0.77
C8	25 Mar 2025	1	14.74	77.26	8.8	33.42	8.2	24.8	7.20
C8	25 Mar 2025	2	14.74	60.91	8.8	33.42	8.2	24.8	7.37
C8	25 Mar 2025	3	14.74	61.67	8.9	33.43	8.2	24.8	7.15
C8	25 Mar 2025	4	14.75	72.17	9.1	33.44	8.2	24.8	10.34
C8	25 Mar 2025	5	14.75	73.85	9.1	33.44	8.2	24.8	11.67
C8	25 Mar 2025	6	14.65	74.84	9.1	33.47	8.2	24.9	11.45
C8	25 Mar 2025	7	14.59	75.94	8.9	33.47	8.2	24.9	10.66
C8	25 Mar 2025	8	14.13	77.34	8.5	33.53	8.1	25.0	9.61
C8	25 Mar 2025	9	13.78	80.68	8.0	33.55	8.0	25.1	6.38
C8	25 Mar 2025	10	13.62	85.14	7.5	33.53	8.0	25.1	5.97
C8	25 Mar 2025	11	12.74	84.56	6.7	33.62	7.9	25.4	5.55
C8	25 Mar 2025	12	12.39	85.49	5.8	33.63	7.9	25.5	4.52
C8	25 Mar 2025	13	11.87	88.03	5.1	33.70	7.8	25.6	3.08
C8	25 Mar 2025	14	11.77	90.23	4.6	33.70	7.8	25.6	2.35
C8	25 Mar 2025	15	11.41	90.08	4.2	33.75	7.8	25.7	1.91
C8	25 Mar 2025	16	11.23	91.02	3.8	33.77	7.7	25.8	0.96
C8	25 Mar 2025	17	11.19	93.03	3.6	33.77	7.7	25.8	0.72
C8	25 Mar 2025	18	11.16	93.58	3.5	33.77	7.7	25.8	0.67
C8	25 Mar 2025	19	11.15	93.41	3.4	33.77	7.7	25.8	0.62
C8	25 Mar 2025	20	11.20	93.25	3.4	33.77	7.7	25.8	0.64

NA = not available

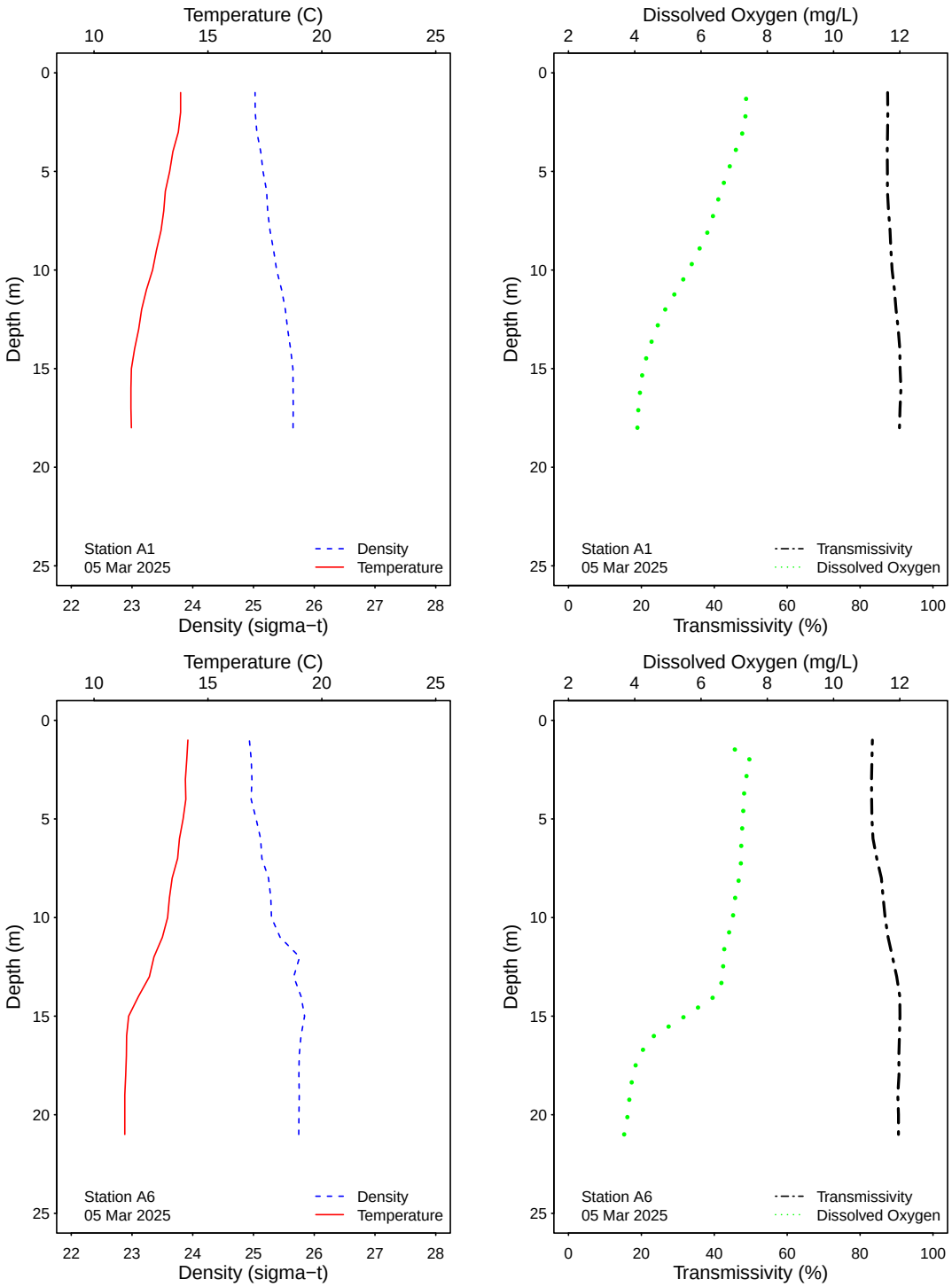

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

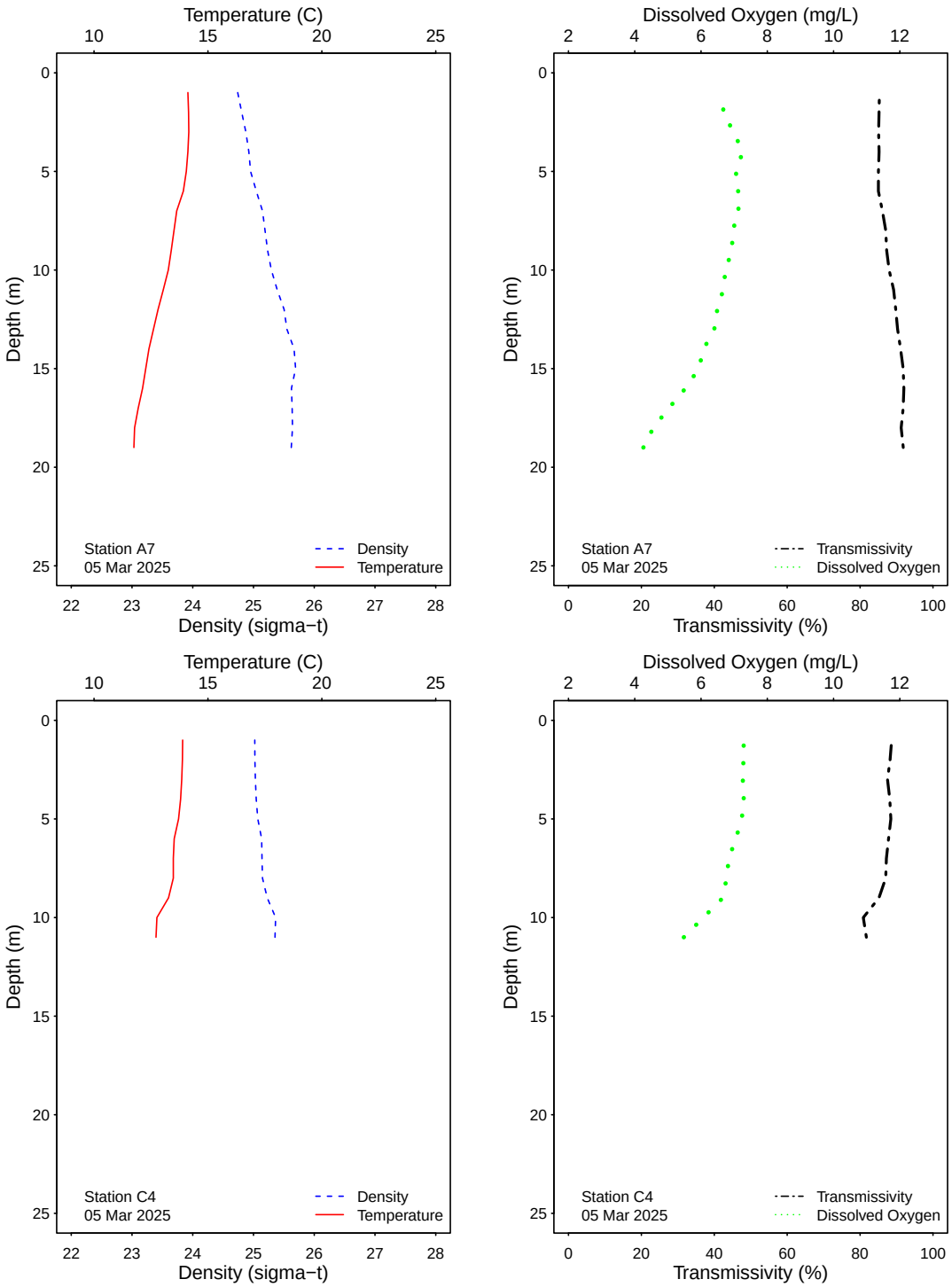

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

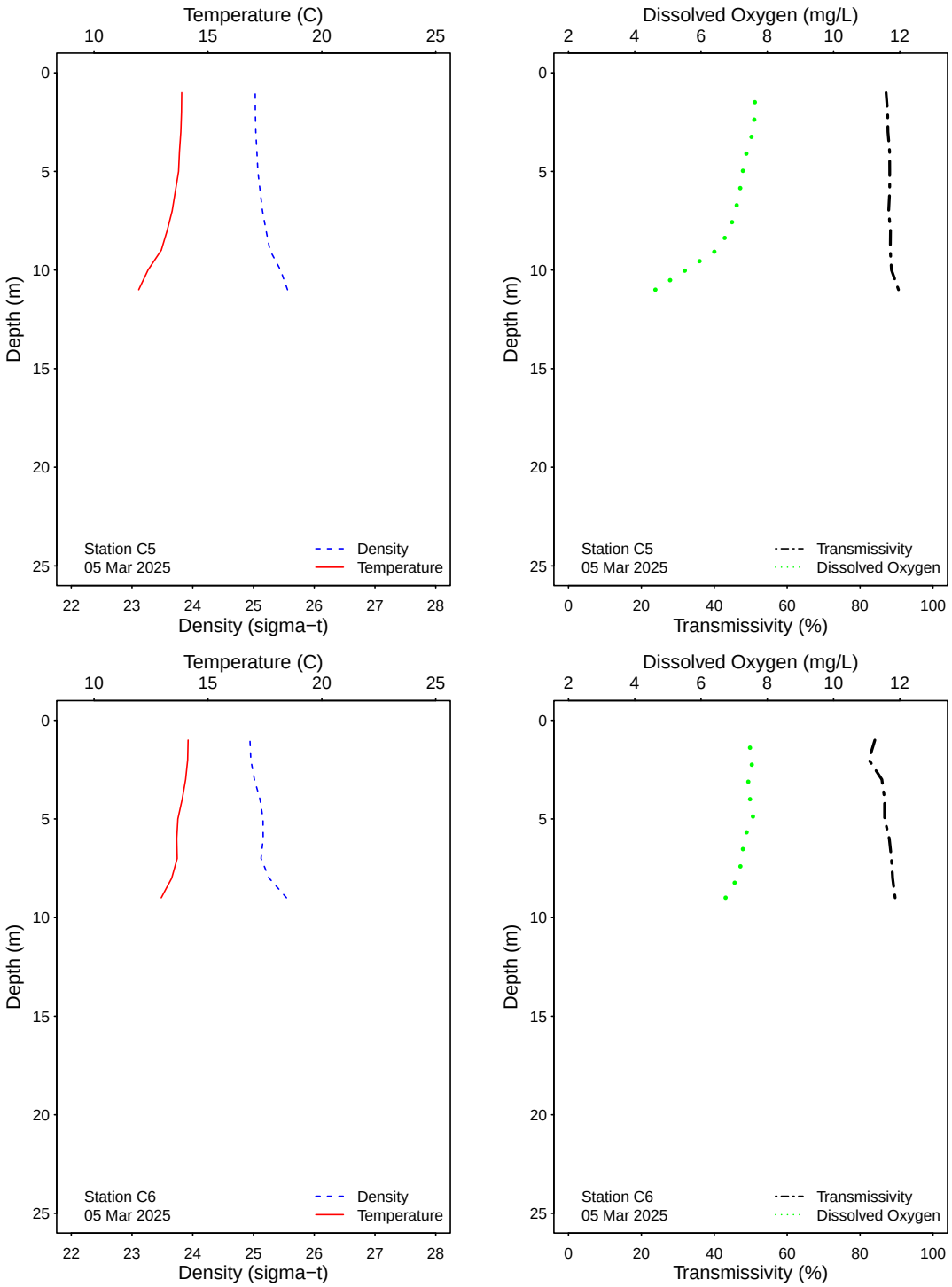

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

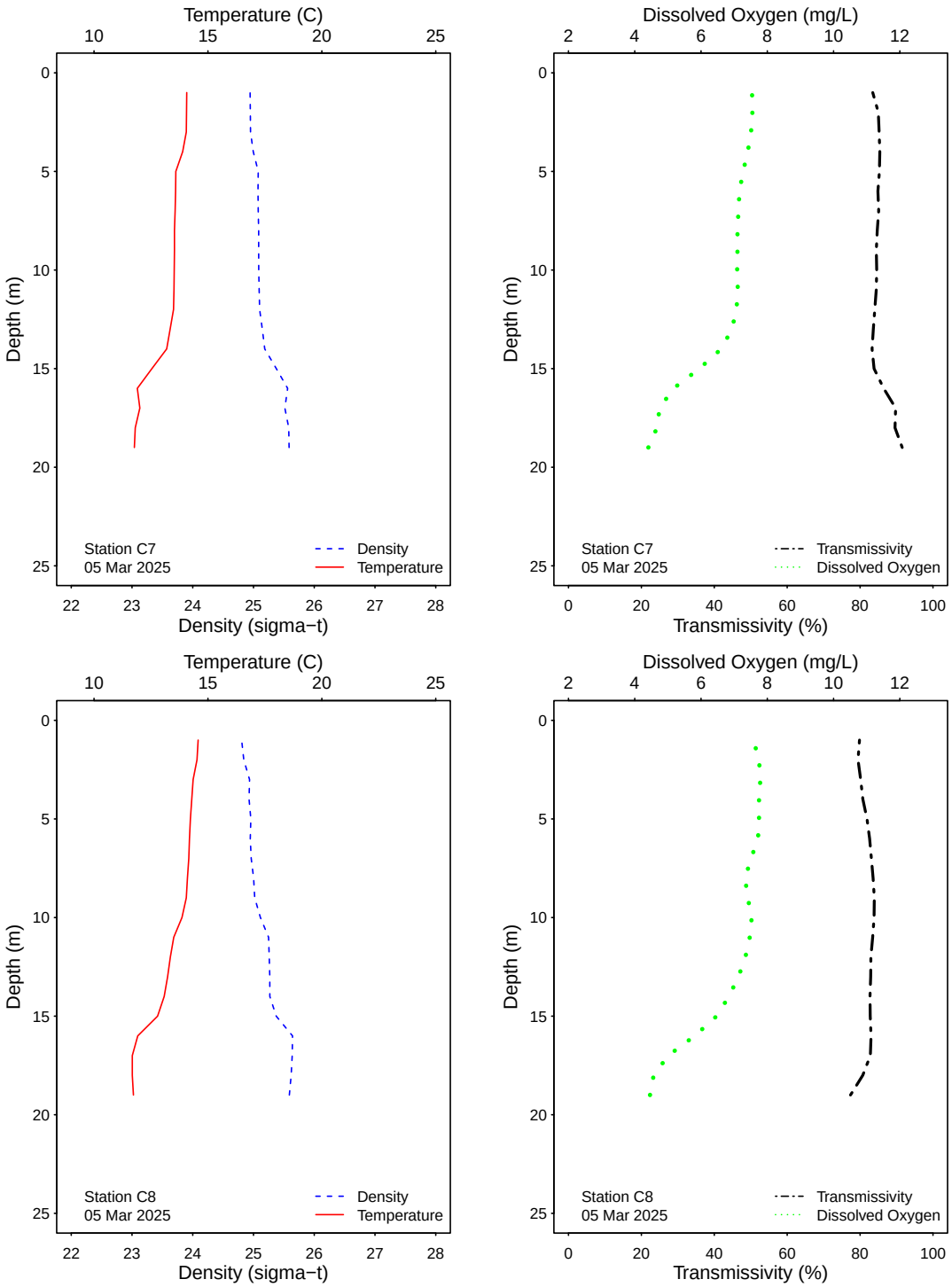

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

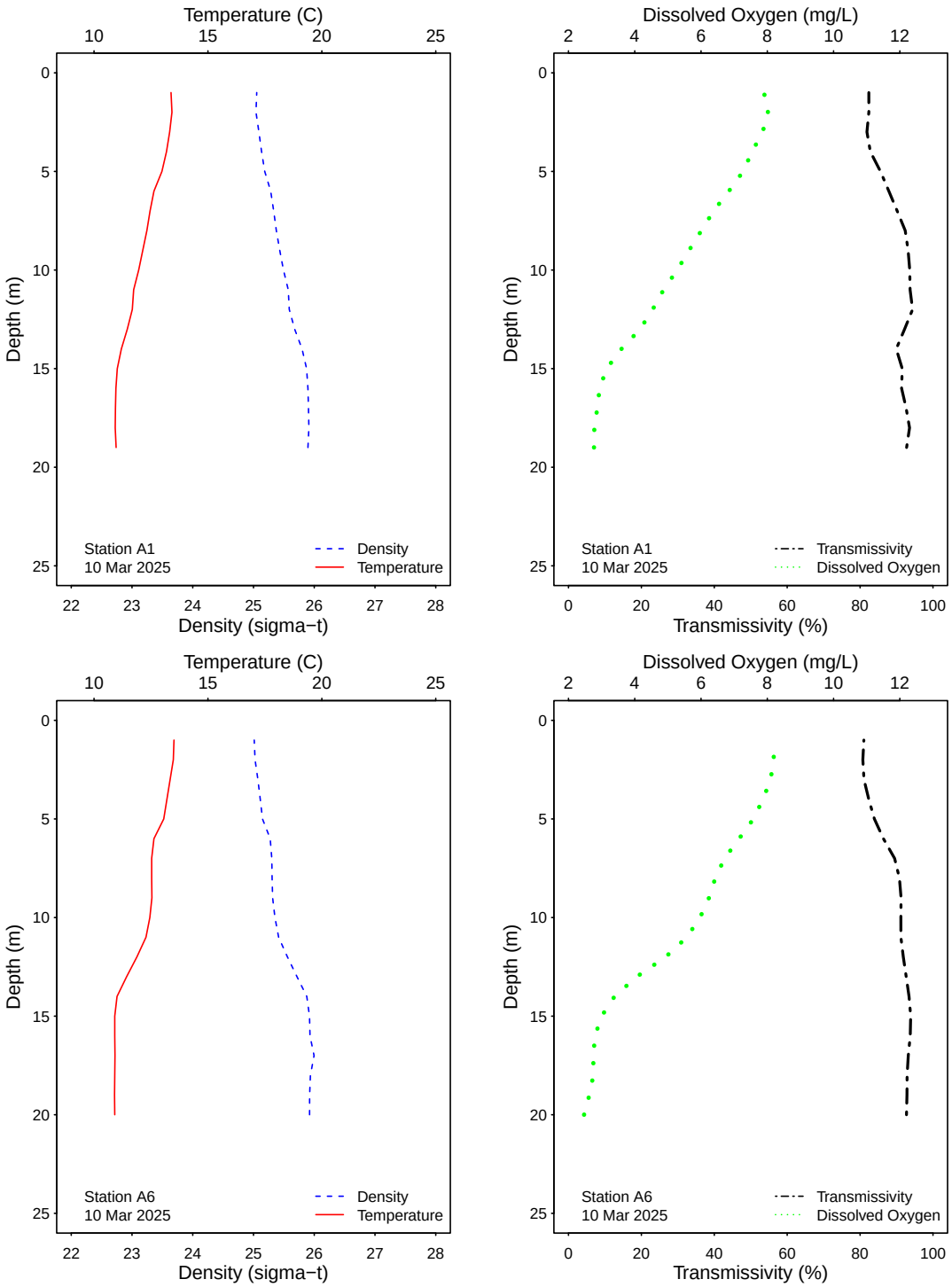

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

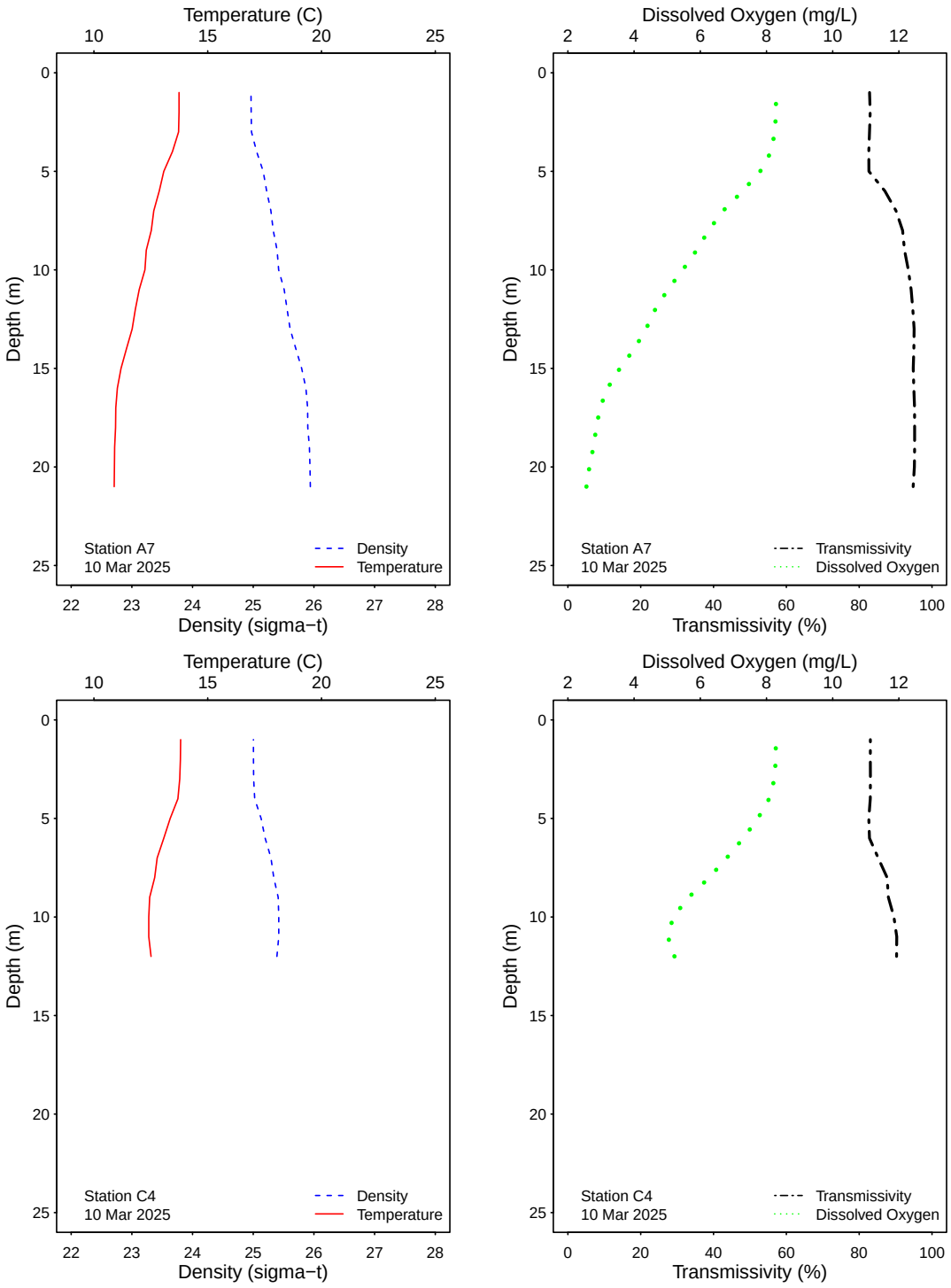

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

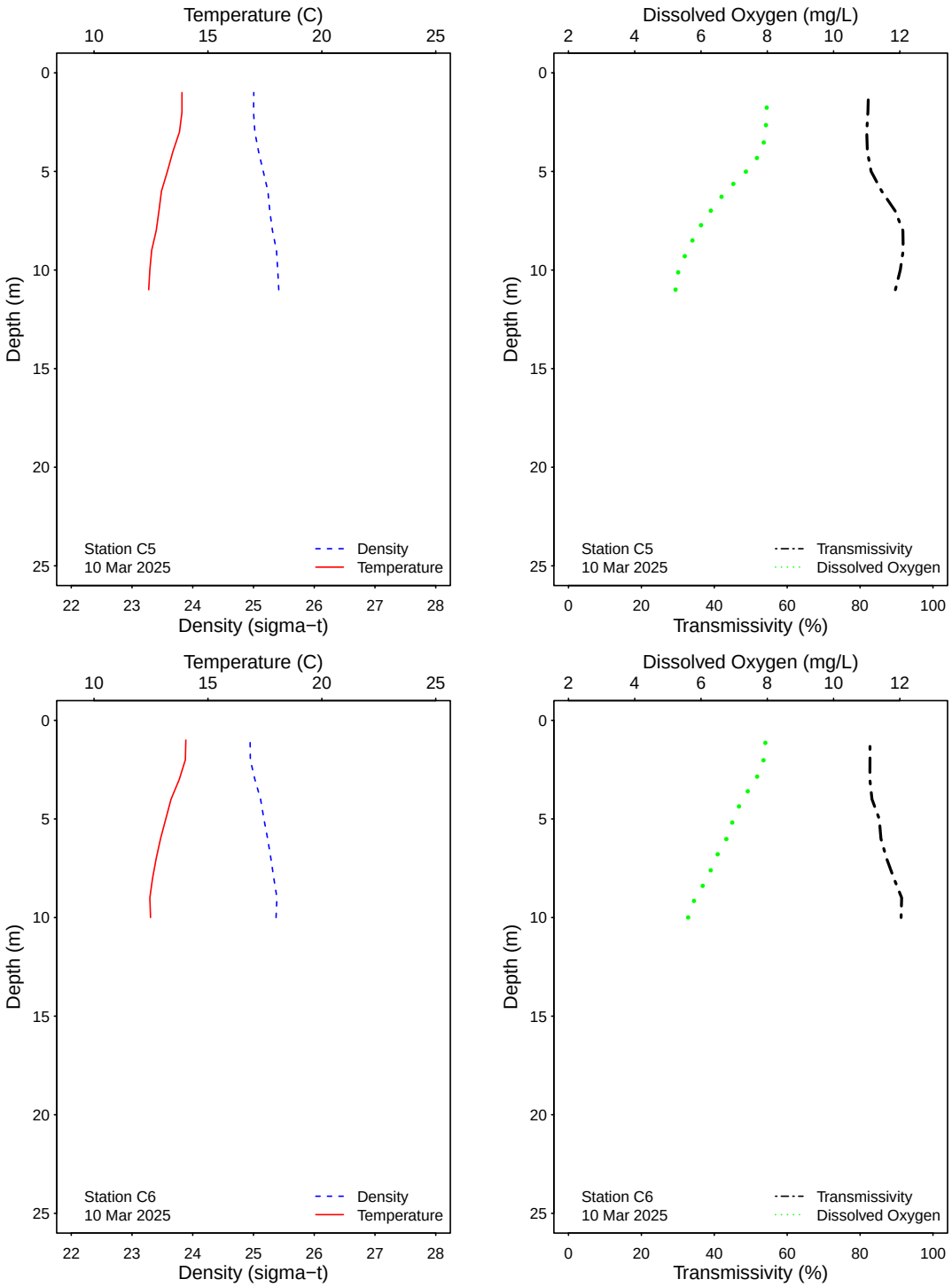

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

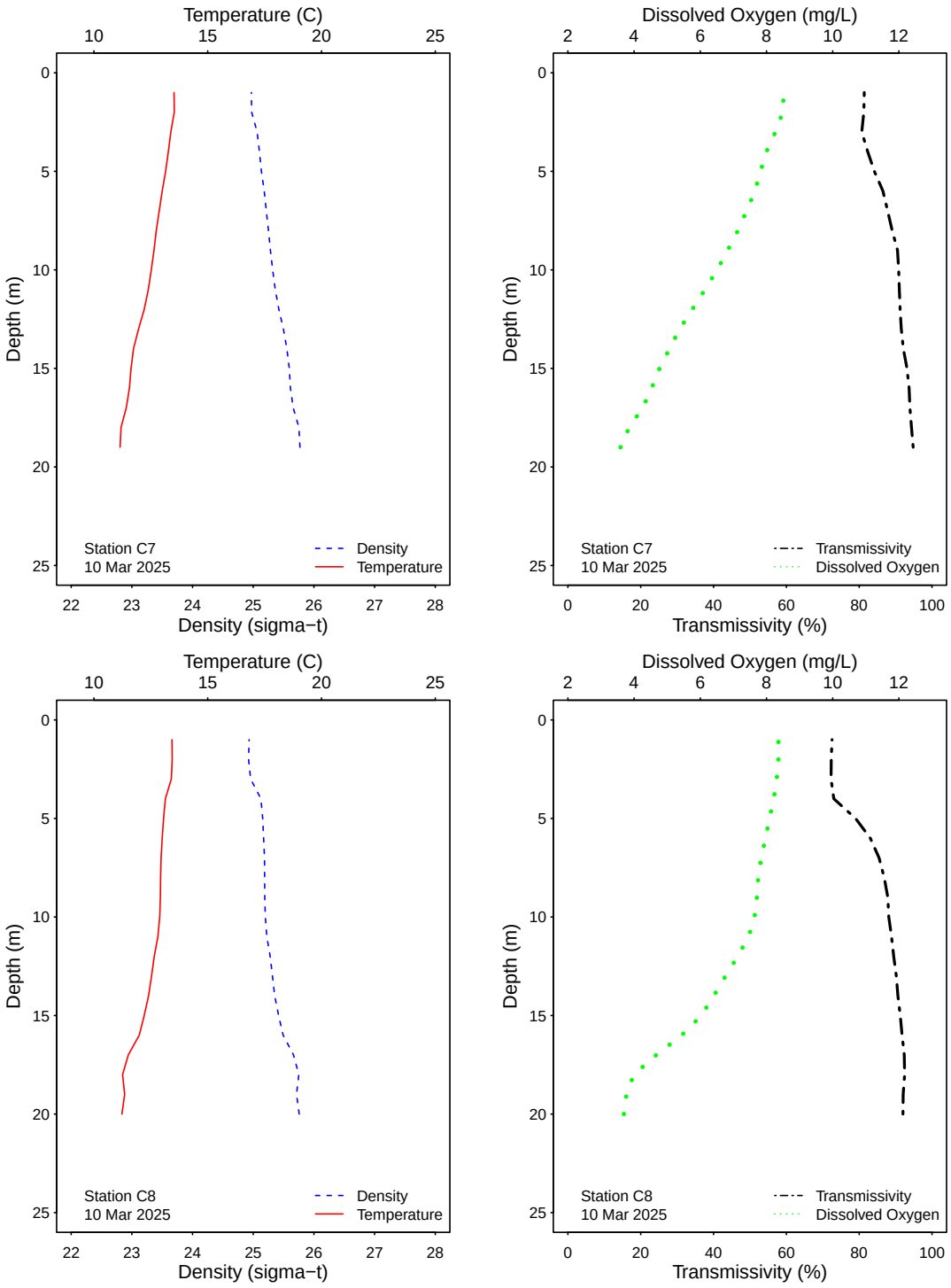

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

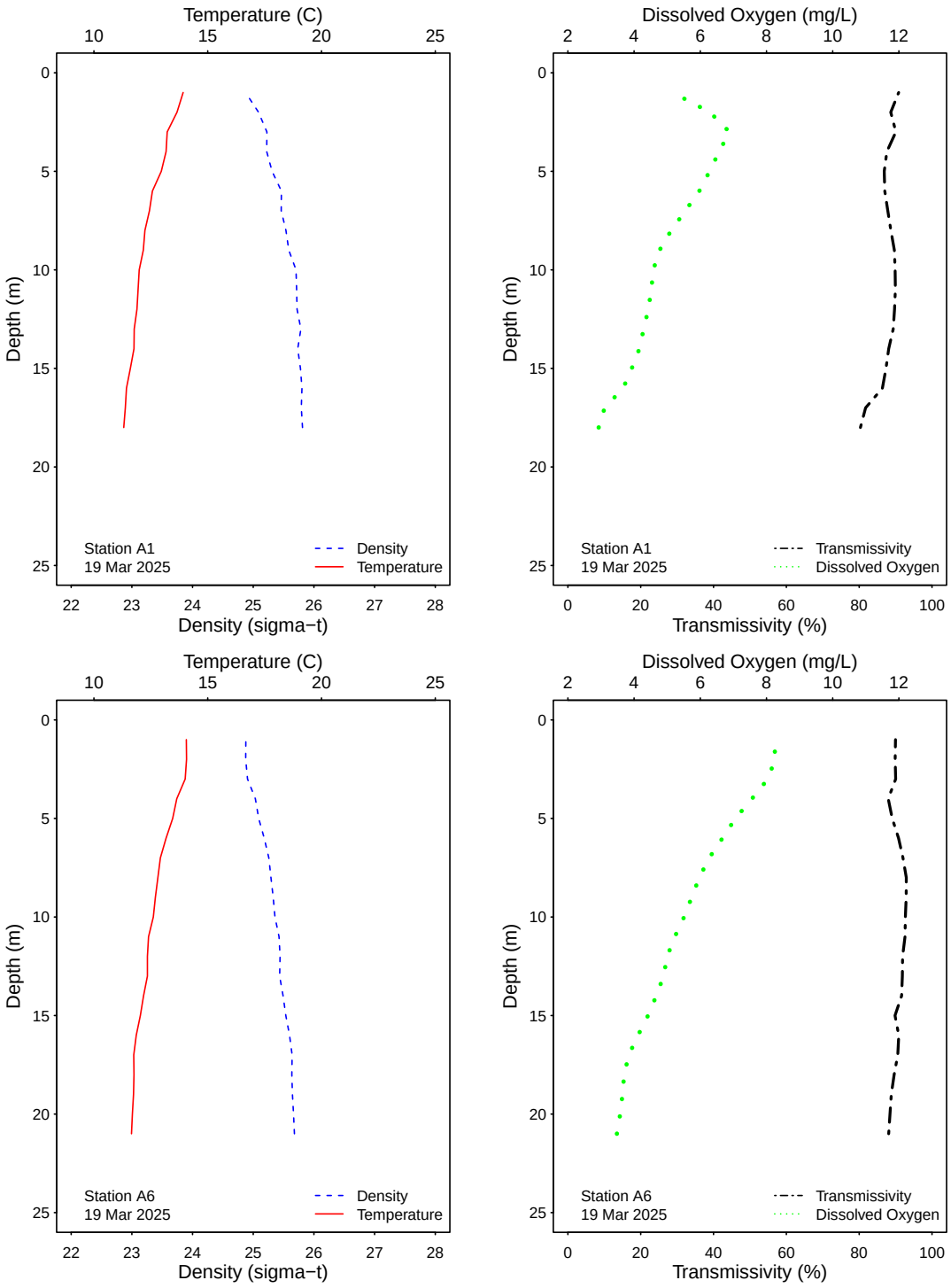

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

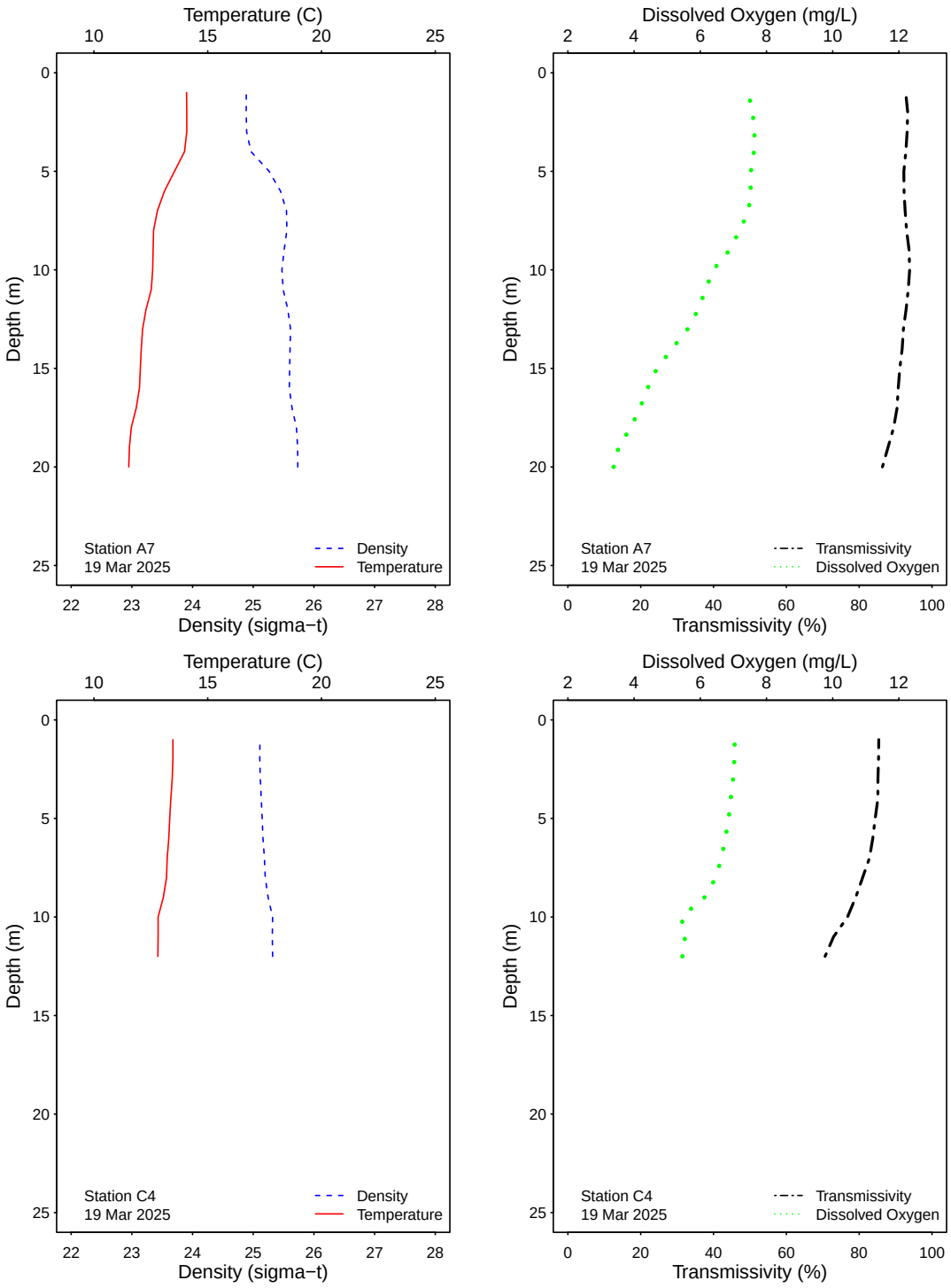

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

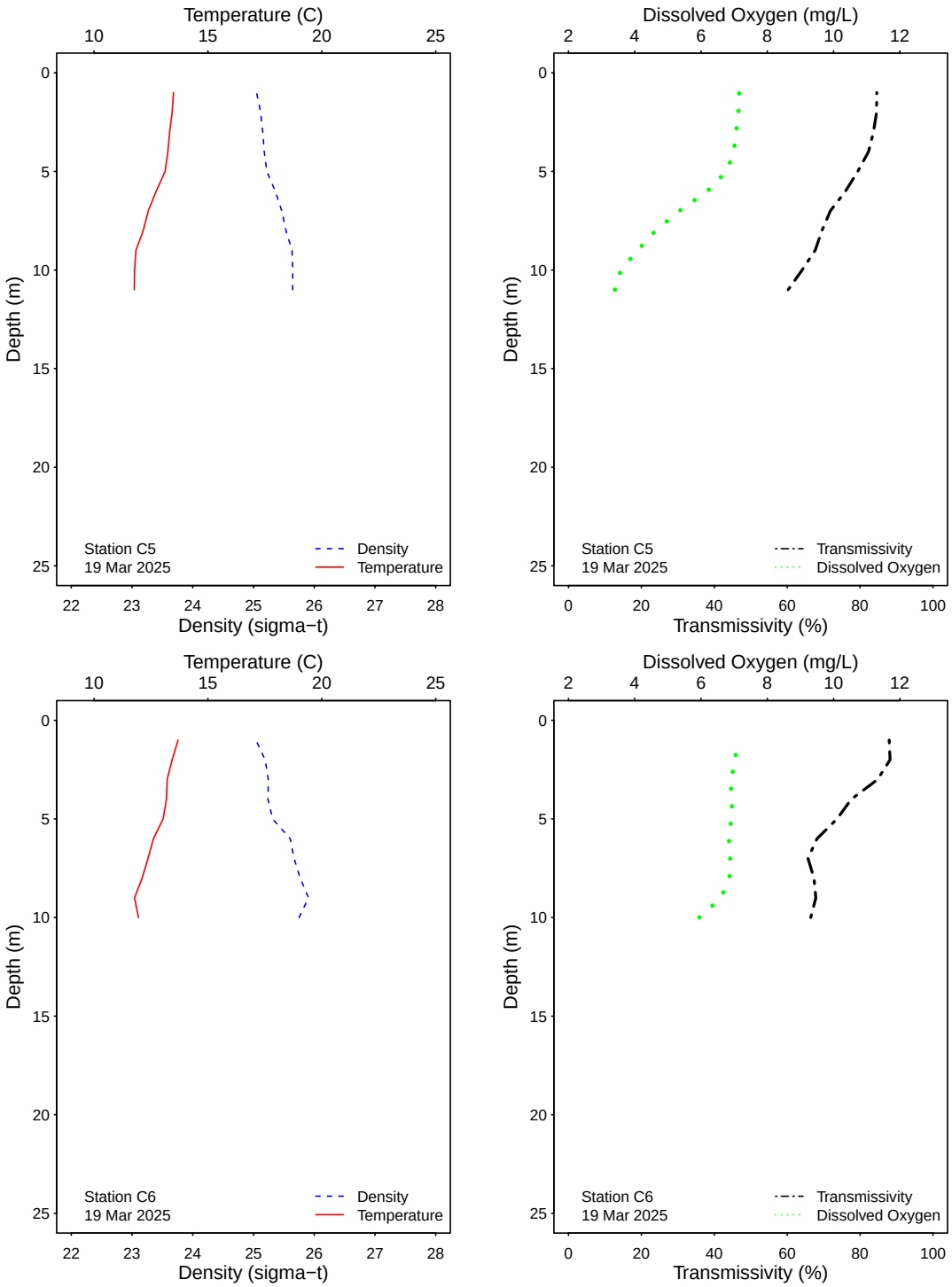

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

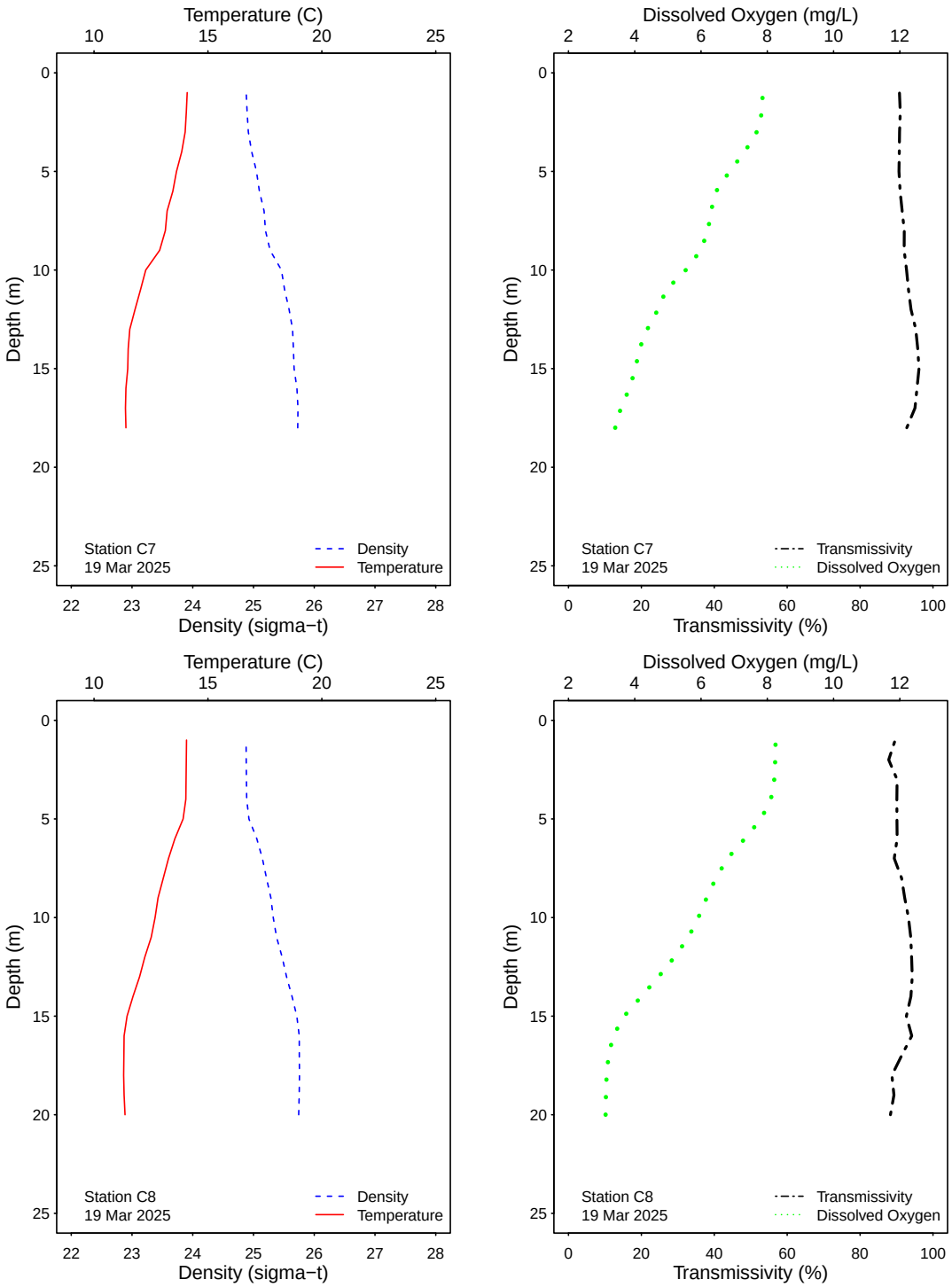

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

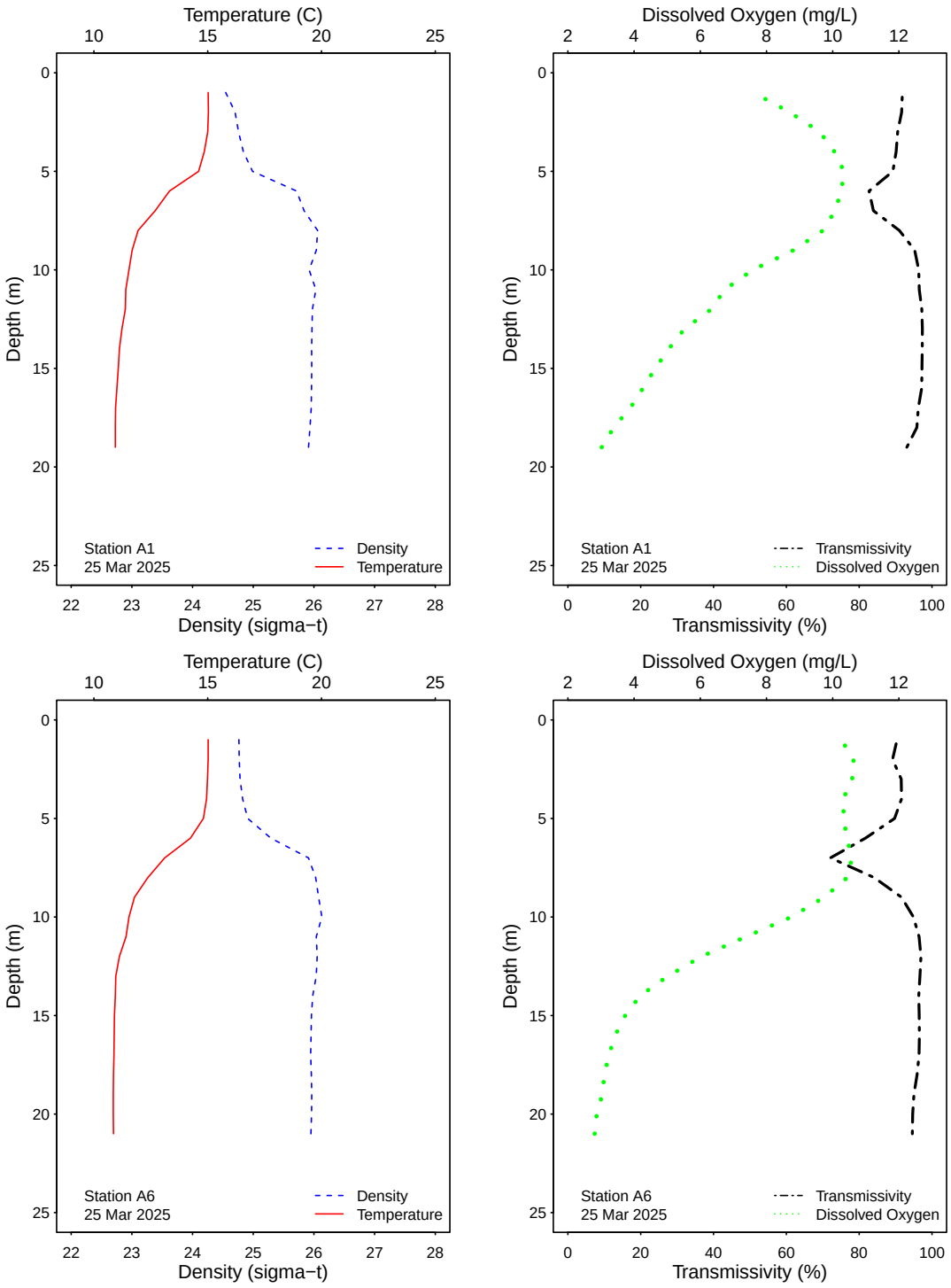

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

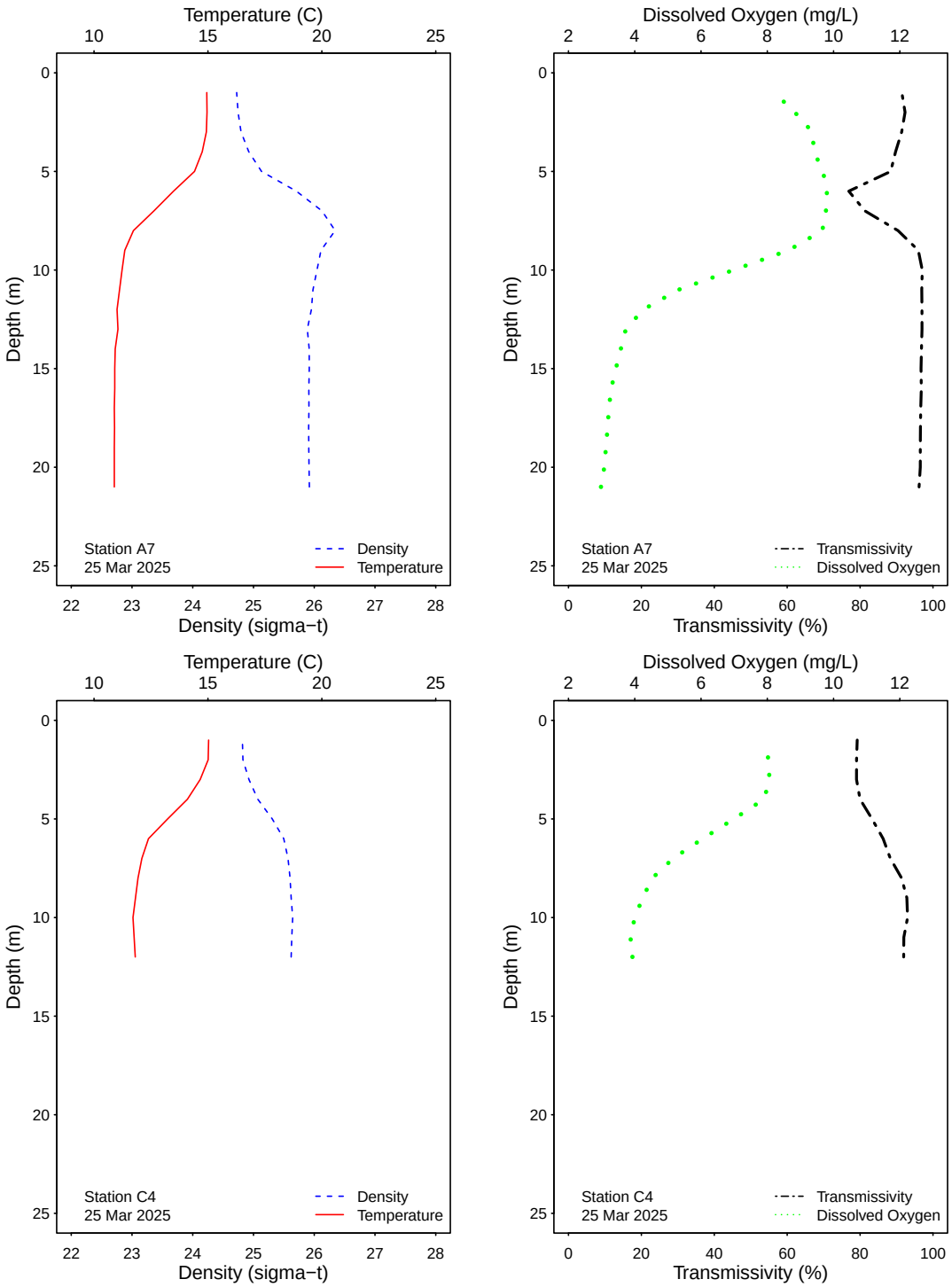

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

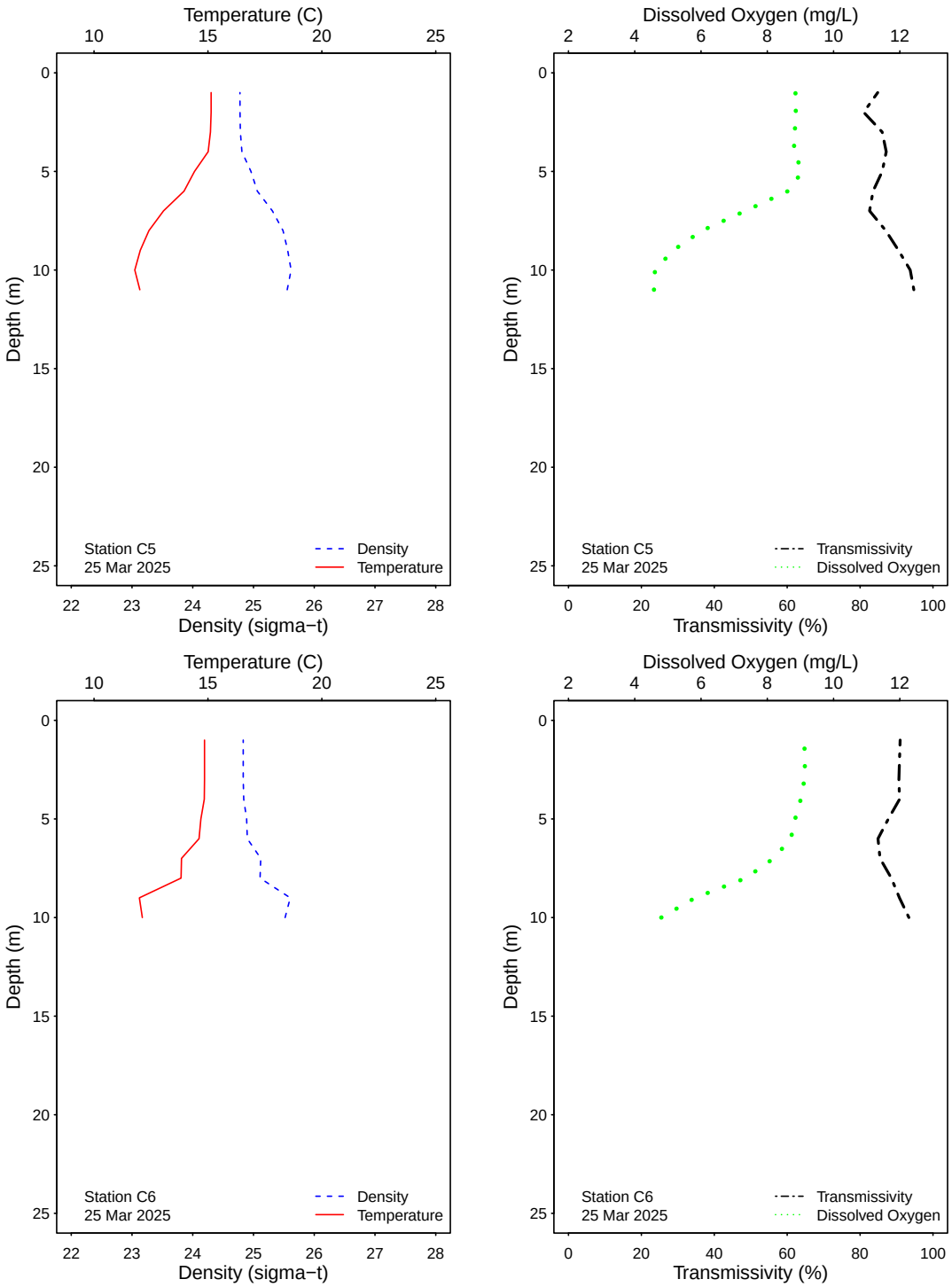

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

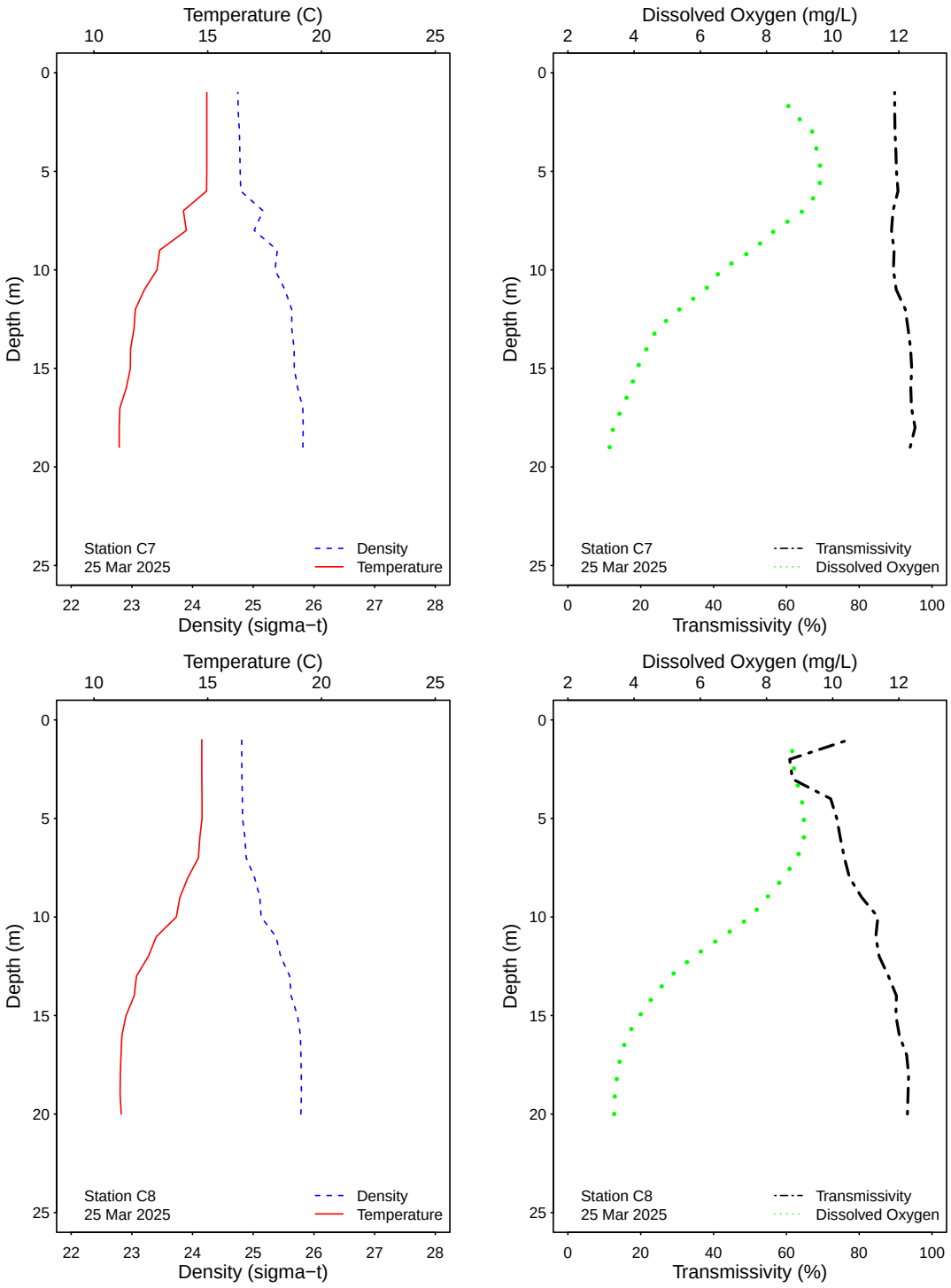

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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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	05 Mar 2025	18	NCD	LAB DUPLICATE	94	14	6
A7	10 Mar 2025	18	KT	LAB DUPLICATE	80	12	6
A7	19 Mar 2025	18	JF	LAB DUPLICATE	50	8	2
A7	25 Mar 2025	18	NCD	LAB DUPLICATE	22	8	2
C7	05 Mar 2025	18	NCD	LAB DUPLICATE	14	4	4
C7	10 Mar 2025	18	KT	LAB DUPLICATE	6	2	2
C7	19 Mar 2025	18	JF	LAB DUPLICATE	40	4	2
C7	25 Mar 2025	18	NCD	LAB DUPLICATE	2	2	2
C8	05 Mar 2025	12	NCD	LAB DUPLICATE	50	10	2
C8	10 Mar 2025	12	KT	LAB DUPLICATE	2	2	2
C8	19 Mar 2025	12	JF	LAB DUPLICATE	4	2	2
C8	25 Mar 2025	12	NCD	LAB DUPLICATE	2	2	2
D12	05 Mar 2025		ADG	FIELD DUPLICATE	2	2	2
D12	05 Mar 2025		ADG	LAB DUPLICATE	6	10	2
D12	12 Mar 2025		JF	FIELD DUPLICATE	20	18	40
D12	12 Mar 2025		JF	LAB DUPLICATE	200	18	14
D12	19 Mar 2025		KT	FIELD DUPLICATE	200	20	8
D12	19 Mar 2025		KT	LAB DUPLICATE	200	60	6
D12	26 Mar 2025		JF	FIELD DUPLICATE	40	6	6
D12	26 Mar 2025		JF	LAB DUPLICATE	20	14	10

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

* Geometric mean calculated using n<5

Table B.2

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

Date	D4	D5	D7	D8	D9	D10	D11	D12
March	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	D8-B	D9	D10	D11	D12
01 Mar 2025	*2	*11	*2		*20	*20	*40	*40	*20
02 Mar 2025	*2	*11	*2		*20	*20	*40	*40	*20
03 Mar 2025	*2	*11	*2		*20	*20	*40	*40	*20
04 Mar 2025	*2	*11	*2		*20	*20	*40	*40	*20
05 Mar 2025	2	2	2	*20	*20	20	40	60	20
06 Mar 2025	2	2	2	*20	*20	20	40	60	20
07 Mar 2025	*2	*11	*4	*20	*70	*20	*40	***110**	*20
08 Mar 2025	*2	*11	*4	*20	*70	*20	*40	***110**	*20
09 Mar 2025	*2	*11	*4	*20	*70	*20	*40	***110**	*20
10 Mar 2025	*2	*11	*4	*20	*70	*20	*40	***110**	*20
11 Mar 2025	*2	*11	*4	*20	*70	*20	*40	***110**	*20
12 Mar 2025	2	20	6	***170**	*70	20	40	**160**	20
13 Mar 2025	2	20	6	***170**	*70	20	40	**160**	20
14 Mar 2025	*2	*11	*13	***170**	*20	*20	***120**	***180**	*20
15 Mar 2025	*2	*11	*13	***170**	*20	*20	***120**	***180**	*20
16 Mar 2025	*2	*11	*13	***170**	*20	*20	***120**	***180**	*20
17 Mar 2025	*2	*11	*13	***170**	*20	*20	***120**	***180**	*20
18 Mar 2025	*2	*11	*13	***170**	*20	*20	***120**	***180**	*20
19 Mar 2025	2	2	6	*20	*20	20	40	**200**	20
20 Mar 2025	2	2	6	*20	*20	20	40	**200**	20
21 Mar 2025	*3	*11	*13	*20		*20	*30	***180**	*20
22 Mar 2025	*3	*11	*13	*20		*20	*30	***180**	*20
23 Mar 2025	*3	*11	*13	*20		*20	*30	***180**	*20
24 Mar 2025	*3	*11	*13	*20		*20	*30	***180**	*20
25 Mar 2025	*3	*11	*13	*20		*20	*30	***180**	*20
26 Mar 2025	4	20	20	*20		20	40	**160**	20
27 Mar 2025	4	20	20	*20		20	40	**160**	20
28 Mar 2025	*12	*11	*13	*20		*30	*30	***180**	*20
29 Mar 2025	*12	*11	*13	*20		*30	*30	***180**	*20
30 Mar 2025	*12	*11	*13	*20		*30	*30	***180**	*20
31 Mar 2025	*12	*11	*13	*20		*30	*30	***180**	*20

* Median calculated using n<5

Table B.4

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

Date	D4	D5	D7	D8	D9	D10	D11	D12
March	IC	IC	IC	**E**	IC	IC	**E**	IC

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

Kelp Stations

Table B.5

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the PLOO 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 Mar 2025	2	2	3	2	2	2	3	3
02 Mar 2025	2	2	3	2	2	2	3	3
03 Mar 2025	2	2	3	2	2	2	3	3
04 Mar 2025	2	2	3	2	2	2	3	3
05 Mar 2025	2	2	3	2	2	2	2	3
06 Mar 2025	2	2	3	2	2	2	2	3
07 Mar 2025	2	2	3	2	2	2	2	3
08 Mar 2025	2	2	3	2	2	2	2	3
09 Mar 2025	2	2	3	2	2	2	2	3
10 Mar 2025	2	3	3	2	2	2	3	3
11 Mar 2025	2	3	3	2	2	2	2	3
12 Mar 2025	2	3	3	2	2	2	2	3
13 Mar 2025	2	3	3	2	2	2	2	3
14 Mar 2025	2	3	3	2	2	2	2	3
15 Mar 2025	2	3	3	2	2	2	2	3
16 Mar 2025	2	3	3	2	2	2	2	3
17 Mar 2025	2	3	3	2	2	2	2	2
18 Mar 2025	2	3	3	2	2	2	2	2
19 Mar 2025	2	3	3	2	2	2	2	2
20 Mar 2025	2	3	3	2	2	2	2	2
21 Mar 2025	2	3	3	2	2	2	2	2
22 Mar 2025	2	3	3	2	2	2	2	2
23 Mar 2025	2	3	3	2	2	2	2	2
24 Mar 2025	3	3	3	2	2	2	2	2
25 Mar 2025	2	3	3	2	2	2	2	2
26 Mar 2025	2	3	3	2	2	2	2	2
27 Mar 2025	2	3	3	2	2	2	2	2
28 Mar 2025	2	3	3	2	2	2	2	2
29 Mar 2025	2	3	3	2	2	2	2	2
30 Mar 2025	2	3	3	2	2	2	2	2
31 Mar 2025	2	3	3	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
March	IC	IC	IC	IC	IC	IC	IC	IC

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

Table B.7

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

	A1			A6			A7			C4			C5			C6			C7			C8		
Date	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 Mar 2025	*2	*10	*63	*2	*2	*25	*2	*16	**80**	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*7	*27	*2	*11	*24
02 Mar 2025	*2	*10	*63	*2	*2	*25	*2	*16	**80**	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*7	*27	*2	*11	*24
03 Mar 2025	*2	*10	*63	*2	*2	*25	*2	*16	**80**	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*7	*27	*2	*11	*24
04 Mar 2025	*2	*10	*63	*2	*2	*25	*2	*16	**80**	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*7	*27	*2	*11	*24
05 Mar 2025	*2	*10	**73**	*2	*2	*51	*2	*8	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*10	*16	*2	*14	*14
06 Mar 2025	*2	*10	**73**	*2	*2	*51	*2	*8	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*10	*16	*2	*14	*14
07 Mar 2025	*2	*10	**73**	*2	*2	*51	*2	*8	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*10	*16	*2	*14	*14
08 Mar 2025	*2	*10	**73**	*2	*2	*51	*2	*8	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*10	*16	*2	*14	*14
09 Mar 2025	*2	*10	**73**	*2	*2	*51	*2	*8	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*10	*16	*2	*14	*14
10 Mar 2025	2	6	**120**	2	2	54	2	6	**100**	2	2	2	2	2	2	2	2	2	2	2	4	2	2	10
11 Mar 2025	2	6	**120**	2	2	54	2	6	**100**	2	2	2	2	2	2	2	2	2	2	2	4	2	2	10
12 Mar 2025	*2	*6	**73**	*2	*2	*34	*2	*4	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*2	*10
13 Mar 2025	*2	*6	**73**	*2	*2	*34	*2	*4	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*2	*10
14 Mar 2025	*2	*6	**73**	*2	*2	*34	*2	*4	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*2	*10
15 Mar 2025	*2	*6	**73**	*2	*2	*34	*2	*4	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*2	*10
16 Mar 2025	*2	*6	**73**	*2	*2	*34	*2	*4	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*2	*10
17 Mar 2025	*2	*6	**73**	*2	*2	*34	*2	*4	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*2	*10
18 Mar 2025	*2	*6	**73**	*2	*2	*34	*2	*4	*60	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*4	*2	*2	*10
19 Mar 2025	2	6	**120**	2	2	44	2	6	40	2	2	2	2	2	2	2	2	2	2	2	4	2	2	10
20 Mar 2025	2	6	**120**	2	2	44	2	6	40	2	2	2	2	2	2	2	2	2	2	2	4	2	2	10
21 Mar 2025	*2	*17	**160**	*2	*2	*49	*2	*9	*70	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*2	*4	*10
22 Mar 2025	*2	*17	**160**	*2	*2	*49	*2	*9	*70	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*2	*4	*10
23 Mar 2025	*2	*17	**160**	*2	*2	*49	*2	*9	*70	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*2	*4	*10
24 Mar 2025	*2	*17	**160**	*2	*2	*49	*2	*9	*70	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*2	*4	*10
25 Mar 2025	2	6	**120**	2	2	44	2	6	40	2	2	2	2	2	2	2	2	2	2	2	4	2	2	10
26 Mar 2025	*2	*17	**160**	*2	*4	*49	*2	*9	*70	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*3	*4	*10
27 Mar 2025	*2	*17	**160**	*2	*4	*49	*2	*9	*70	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*3	*4	*10
28 Mar 2025	*2	*17	**160**	*2	*4	*49	*2	*9	*70	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*3	*4	*10
29 Mar 2025	*2	*17	**160**	*2	*4	*49	*2	*9	*70	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*3	*4	*10
30 Mar 2025	*2	*17	**160**	*2	*4	*49	*2	*9	*70	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*3	*4	*10
31 Mar 2025	*2	*17	**160**	*2	*4	*49	*2	*9	*70	*3	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*13	*3	*4	*10

* 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

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

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