



POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

JULY 2024

Environmental Monitoring and Technical Services
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August 31, 2024

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 July 2024 Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2017-0007, NPDES Permit No. CA0107409.

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

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Peter S. Vroom, Ph. D.
Deputy Director, Public Utilities Department

PV/rk

cc: U.S. Environmental Protection Agency, Region 9

INTRODUCTION

Monthly reports of water quality and ocean conditions for the San Diego coastal region surrounding the Point Loma Ocean Outfall are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2017-0007, NPDES Permit No. CA0107409 for the Point Loma Wastewater Treatment Plant (PLWTP), Point Loma Ocean Outfall (PLOO). This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the PLWTP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

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

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

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

Kelp Bed Stations

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

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

Seawater samples at the kelp bed stations are collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses are drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column

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

Offshore Stations

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

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

Bacteriological Reporting and Quality Assurance

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

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

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

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

Single Sample Maximums:

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2024 Quality Assurance Report, which will be completed in March 2025.

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-B, D9, D10, D11, D12) were sampled on July 1, 10, 17, 24, and 31.
- During the July reporting period, one of the eight shore stations was out of compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - o The single sample maximum (SSM) standard for fecal coliforms was exceeded at station D11.
 - o The 30-day running geometric mean standard for *enterococcus* was exceeded at station D11.
 - o The SSM standard for *enterococcus* was exceeded at station D11.
- Nothing of sewage origin was observed at PLOO shore stations in July.
- 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

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

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled on July 1, 8, 16, 23, and 31.
- During the July reporting period, each of the eight kelp stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Water column temperatures ranged from 11.19 to 22.22°C. The difference between surface and bottom waters ranged from 3.32 to 10.09°C.
- Chlorophyll *a* concentrations ranged from 0.40 to 21.46 µg/L.
- Nothing of sewage origin was observed at SBOO shore stations in July.

Offshore Stations

- Quarterly water quality sampling was not conducted during July at the offshore stations. The next quarterly sampling is scheduled for August 2024.



TABLES AND FIGURES

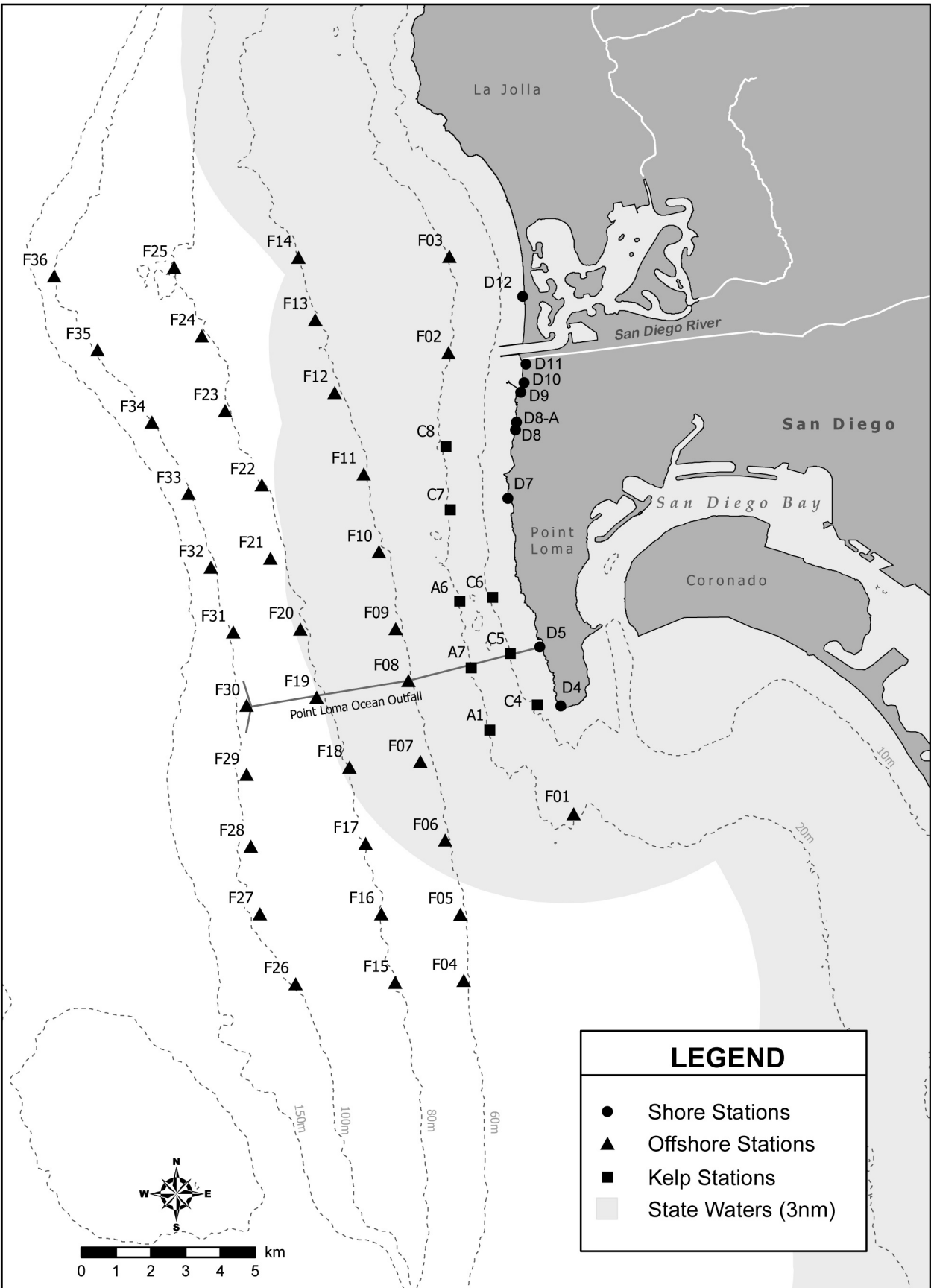


Figure 1.1 Station Map

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Shore Stations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the PLOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	2	6	4	4	6	7	11	3
02 Jul 2024	2	6	4	4	6	7	11	3
03 Jul 2024	2	6	4	4	6	7	11	3
04 Jul 2024	2	6	4	4	6	7	11	3
05 Jul 2024	*2	*6	*4	*4	*6	*5	*9	*2
06 Jul 2024	*2	*6	*4	*4	*6	*5	*9	*2
07 Jul 2024	*2	*6	*4	*4	*6	*5	*9	*2
08 Jul 2024	*2	*6	*4	*4	*6	*5	*9	*2
09 Jul 2024	*2	*6	*4	*4	*6	*5	*9	*2
10 Jul 2024	2	5	3	4	5	5	11	2
11 Jul 2024	2	5	3	4	5	5	11	2
12 Jul 2024	*2	*6	*4	*4	*4	*7	*9	*2
13 Jul 2024	*2	*6	*4	*4	*4	*7	*9	*2
14 Jul 2024	*2	*6	*4	*4	*4	*7	*9	*2
15 Jul 2024	*2	*6	*4	*4	*4	*7	*9	*2
16 Jul 2024	*2	*6	*4	*4	*4	*7	*9	*2
17 Jul 2024	2	5	4	7	5	7	11	2
18 Jul 2024	*2	*4	*2	*10	*6	*6	*17	*2
19 Jul 2024	*2	*4	*2	*10	*6	*6	*17	*2
20 Jul 2024	*2	*4	*2	*10	*6	*6	*17	*2
21 Jul 2024	*2	*4	*2	*10	*6	*6	*17	*2
22 Jul 2024	*2	*4	*2	*10	*6	*6	*17	*2
23 Jul 2024	*2	*4	*2	*10	*6	*6	*17	*2
24 Jul 2024	3	3	2	7	5	6	34	2
25 Jul 2024	3	3	2	7	5	6	34	2
26 Jul 2024	*3	*4	*2	*10	*6	*8	*28	*2
27 Jul 2024	*3	*4	*2	*10	*6	*8	*28	*2
28 Jul 2024	*3	*4	*2	*10	*6	*8	*28	*2
29 Jul 2024	*3	*4	*2	*10	*6	*8	*28	*2
30 Jul 2024	*3	*4	*2	*10	*6	*8	*28	*2
31 Jul 2024	*2	*2	*2	*10	*3	*7	*50	*4

* Geometric mean calculated using n<5

Table 2.2

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
10 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
17 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
24 Jul 2024	IC	IC	IC	IC	IC	IC	E	IC
31 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the PLOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	2	3	6	3	7	4	16	5
02 Jul 2024	2	3	6	3	7	4	16	5
03 Jul 2024	2	3	6	3	7	4	16	5
04 Jul 2024	2	3	6	3	7	4	16	5
05 Jul 2024	*2	*2	*4	*2	*5	*3	*13	*4
06 Jul 2024	*2	*2	*4	*2	*5	*3	*13	*4
07 Jul 2024	*2	*2	*4	*2	*5	*3	*13	*4
08 Jul 2024	*2	*2	*4	*2	*5	*3	*13	*4
09 Jul 2024	*2	*2	*4	*2	*5	*3	*13	*4
10 Jul 2024	2	2	3	2	4	3	27	4
11 Jul 2024	2	2	3	2	4	3	27	4
12 Jul 2024	*2	*2	*3	*2	*2	*3	*26	*3
13 Jul 2024	*2	*2	*3	*2	*2	*3	*26	*3
14 Jul 2024	*2	*2	*3	*2	*2	*3	*26	*3
15 Jul 2024	*2	*2	*3	*2	*2	*3	*26	*3
16 Jul 2024	*2	*2	*3	*2	*2	*3	*26	*3
17 Jul 2024	2	2	3	2	2	3	18	2
18 Jul 2024	*2	*2	*2	*2	*2	*2	*19	*2
19 Jul 2024	*2	*2	*2	*2	*2	*2	*19	*2
20 Jul 2024	*2	*2	*2	*2	*2	*2	*19	*2
21 Jul 2024	*2	*2	*2	*2	*2	*2	*19	*2
22 Jul 2024	*2	*2	*2	*2	*2	*2	*19	*2
23 Jul 2024	*2	*2	*2	*2	*2	*2	*19	*2
24 Jul 2024	2	2	2	2	2	2	43	2
25 Jul 2024	2	2	2	2	2	2	43	2
26 Jul 2024	*2	*2	*3	*2	*2	*2	*47	*2
27 Jul 2024	*2	*2	*3	*2	*2	*2	*47	*2
28 Jul 2024	*2	*2	*3	*2	*2	*2	*47	*2
29 Jul 2024	*2	*2	*3	*2	*2	*2	*47	*2
30 Jul 2024	*2	*2	*3	*2	*2	*2	*47	*2
31 Jul 2024	*2	*2	*3	*3	*2	*2	*62	*3

* Geometric mean calculated using n<5

Table 2.4

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
10 Jul 2024	IC	IC	IC	IC	IC	IC	E	IC
17 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
24 Jul 2024	IC	IC	IC	IC	IC	IC	E	IC
31 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the PLOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1000 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	8	20	80	39	50	65	131	13
02 Jul 2024	8	20	80	39	50	65	131	13
03 Jul 2024	8	20	80	39	50	65	131	13
04 Jul 2024	8	20	80	39	50	65	131	13
05 Jul 2024	*6	*11	*63	*26	*36	*41	*118	*6
06 Jul 2024	*6	*11	*63	*26	*36	*41	*118	*6
07 Jul 2024	*6	*11	*63	*26	*36	*41	*118	*6
08 Jul 2024	*6	*11	*63	*26	*36	*41	*118	*6
09 Jul 2024	*6	*11	*63	*26	*36	*41	*118	*6
10 Jul 2024	7	13	50	27	30	39	131	8
11 Jul 2024	7	13	50	27	30	39	131	8
12 Jul 2024	*10	*20	*63	*29	*33	*39	*148	*11
13 Jul 2024	*10	*20	*63	*29	*33	*39	*148	*11
14 Jul 2024	*10	*20	*63	*29	*33	*39	*148	*11
15 Jul 2024	*10	*20	*63	*29	*33	*39	*148	*11
16 Jul 2024	*10	*20	*63	*29	*33	*39	*148	*11
17 Jul 2024	18	20	50	35	47	42	131	13
18 Jul 2024	*18	*20	*36	*40	*33	*39	*118	*11
19 Jul 2024	*18	*20	*36	*40	*33	*39	*118	*11
20 Jul 2024	*18	*20	*36	*40	*33	*39	*118	*11
21 Jul 2024	*18	*20	*36	*40	*33	*39	*118	*11
22 Jul 2024	*18	*20	*36	*40	*33	*39	*118	*11
23 Jul 2024	*18	*20	*36	*40	*33	*39	*118	*11
24 Jul 2024	18	20	50	35	34	39	181	13
25 Jul 2024	18	20	50	35	34	39	181	13
26 Jul 2024	*31	*20	*63	*31	*39	*35	*134	*20
27 Jul 2024	*31	*20	*63	*31	*39	*35	*134	*20
28 Jul 2024	*31	*20	*63	*31	*39	*35	*134	*20
29 Jul 2024	*31	*20	*63	*31	*39	*35	*134	*20
30 Jul 2024	*31	*20	*63	*31	*39	*35	*134	*20
31 Jul 2024	*31	*20	*36	*31	*46	*50	*134	*20

* Median calculated using n<5

Table 2.6

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
10 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
17 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
24 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
10 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
17 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
24 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.8

Summary of water quality parameters at the PLOO shore stations for each sample date. Densities of fecal coliform (Fecal) and *Enterococcus* (Entero) are reported as CFU/100 mL. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero
D10	01 Jul 2024	803	<20	8e	4e
D10	10 Jul 2024	822	32e	6e	<2
D10	17 Jul 2024	812	60e	10e	2e
D10	24 Jul 2024	801	40e	8e	2e
D10	31 Jul 2024	815	80e	4e	<2
D11	01 Jul 2024	756	20e	<2	<2
D11	10 Jul 2024	814	200e	26e	520
D11	17 Jul 2024	804	80e	20e	4e
D11	24 Jul 2024	751	1000	620	1200
D11	31 Jul 2024	806	20e	<20	6e
D12	01 Jul 2024	740	<20	4e	<2
D12	10 Jul 2024	757	<20	<2	<2
D12	17 Jul 2024	749	<20	<2	<2
D12	24 Jul 2024	733	<20	<2	<2
D12	31 Jul 2024	751	<20	<20	8e
D4	01 Jul 2024	903	<20	4e	<2
D4	10 Jul 2024	929	12e	2e	<2
D4	17 Jul 2024	905	<200	<2	2e
D4	24 Jul 2024	913	<20	4e	<2
D4	31 Jul 2024	916	<20	<2	<2
D5	01 Jul 2024	851	<20	<20	<2
D5	10 Jul 2024	916	<20	<2	2e
D5	17 Jul 2024	857	<20	<2	4e
D5	24 Jul 2024	901	<20	<2	2e
D5	31 Jul 2024	905	<20	<2	<2
D7	01 Jul 2024	830	<200	2e	<2
D7	10 Jul 2024	852	20e	<2	2e
D7	17 Jul 2024	836	<20	4e	2e
D7	24 Jul 2024	838	<200	<2	6e
D7	31 Jul 2024	843	<20	<2	2e
D8-B	01 Jul 2024	820	20e	<20	<2
D8-B	10 Jul 2024	841	28e	4e	<2
D8-B	17 Jul 2024	826	80e	70	<2
D8-B	24 Jul 2024	821	20e	<2	<2
D8-B	31 Jul 2024	832	20e	20e	6e
D9	01 Jul 2024	813	20e	<20	<2
D9	10 Jul 2024	832	14e	<2	<2
D9	17 Jul 2024	819	<200	14e	4e
D9	24 Jul 2024	810	40e	<2	<2
D9	31 Jul 2024	823	40e	2e	2e

ns = not sampled

ND = no data

Comments

date	station	depth	parmcode	comments
11-Jul-2024	D11		ENTERO	Resample
25-Jul-2024	D11		ENTERO	Resample
25-Jul-2024	D11		TOTAL	Resample
25-Jul-2024	D11		FECAL	Resample
25-Jul-2024	D11			1 colony growing on pre-PS TSA plate. Colony will be test to grow on mEI -BS 7/26/24 Colony did not grow on mEI -BS 7/29/24

Table 2.9

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

Station	Date	Parameter	Value
D4	01 Jul 2024	Arrive Time	903
D4	01 Jul 2024	Wind Speed (kts)	2.8
D4	01 Jul 2024	Wind Dir	S
D4	01 Jul 2024	Animal Life	Bird-1;
D4	01 Jul 2024	Floatables	None
D4	01 Jul 2024	Current Direction	S
D4	01 Jul 2024	Water Temp (C)	16.6
D4	01 Jul 2024	High Tide Time	647
D4	01 Jul 2024	Low Tide Time	55
D4	01 Jul 2024	Comments	Water clear; Trash-2; Algae
D4	10 Jul 2024	Arrive Time	928
D4	10 Jul 2024	Wind Speed (kts)	0.6
D4	10 Jul 2024	Wind Dir	SW
D4	10 Jul 2024	Animal Life	
D4	10 Jul 2024	Floatables	None
D4	10 Jul 2024	Current Direction	S
D4	10 Jul 2024	Water Temp (C)	19.4
D4	10 Jul 2024	High Tide Time	1336
D4	10 Jul 2024	Low Tide Time	701
D4	10 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D4	17 Jul 2024	Arrive Time	905
D4	17 Jul 2024	Wind Speed (kts)	0.1
D4	17 Jul 2024	Wind Dir	SW
D4	17 Jul 2024	Animal Life	
D4	17 Jul 2024	Floatables	None
D4	17 Jul 2024	Current Direction	S
D4	17 Jul 2024	Water Temp (C)	16.7
D4	17 Jul 2024	High Tide Time	819
D4	17 Jul 2024	Low Tide Time	151
D4	17 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D4	24 Jul 2024	Arrive Time	913
D4	24 Jul 2024	Wind Speed (kts)	0
D4	24 Jul 2024	Wind Dir	XX
D4	24 Jul 2024	Animal Life	
D4	24 Jul 2024	Floatables	None
D4	24 Jul 2024	Current Direction	S
D4	24 Jul 2024	Water Temp (C)	15.4
D4	24 Jul 2024	High Tide Time	1232
D4	24 Jul 2024	Low Tide Time	614
D4	24 Jul 2024	Comments	Water clear; Trash-1; Kelp;Algae;Seagrass
D4	31 Jul 2024	Arrive Time	916
D4	31 Jul 2024	Wind Speed (kts)	0.8
D4	31 Jul 2024	Wind Dir	W
D4	31 Jul 2024	Animal Life	
D4	31 Jul 2024	Floatables	None
D4	31 Jul 2024	Current Direction	S
D4	31 Jul 2024	Water Temp (C)	15.3
D4	31 Jul 2024	High Tide Time	827
D4	31 Jul 2024	Low Tide Time	152
D4	31 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	01 Jul 2024	Arrive Time	851

Station	Date	Parameter	Value
D5	01 Jul 2024	Wind Speed (kts)	4.1
D5	01 Jul 2024	Wind Dir	S
D5	01 Jul 2024	Animal Life	Bird-1;
D5	01 Jul 2024	Floatables	None
D5	01 Jul 2024	Current Direction	S
D5	01 Jul 2024	Water Temp (C)	16.6
D5	01 Jul 2024	High Tide Time	647
D5	01 Jul 2024	Low Tide Time	55
D5	01 Jul 2024	Comments	Water clear; Trash-1; Algae
D5	10 Jul 2024	Arrive Time	916
D5	10 Jul 2024	Wind Speed (kts)	1.4
D5	10 Jul 2024	Wind Dir	W
D5	10 Jul 2024	Animal Life	
D5	10 Jul 2024	Floatables	None
D5	10 Jul 2024	Current Direction	S
D5	10 Jul 2024	Water Temp (C)	19.1
D5	10 Jul 2024	High Tide Time	1336
D5	10 Jul 2024	Low Tide Time	701
D5	10 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
D5	17 Jul 2024	Arrive Time	857
D5	17 Jul 2024	Wind Speed (kts)	0.1
D5	17 Jul 2024	Wind Dir	W
D5	17 Jul 2024	Animal Life	
D5	17 Jul 2024	Floatables	None
D5	17 Jul 2024	Current Direction	S
D5	17 Jul 2024	Water Temp (C)	17.5
D5	17 Jul 2024	High Tide Time	819
D5	17 Jul 2024	Low Tide Time	151
D5	17 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D5	24 Jul 2024	Arrive Time	901
D5	24 Jul 2024	Wind Speed (kts)	2.8
D5	24 Jul 2024	Wind Dir	N
D5	24 Jul 2024	Animal Life	
D5	24 Jul 2024	Floatables	None
D5	24 Jul 2024	Current Direction	S
D5	24 Jul 2024	Water Temp (C)	19
D5	24 Jul 2024	High Tide Time	1232
D5	24 Jul 2024	Low Tide Time	614
D5	24 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	31 Jul 2024	Arrive Time	905
D5	31 Jul 2024	Wind Speed (kts)	0.2
D5	31 Jul 2024	Wind Dir	W
D5	31 Jul 2024	Animal Life	
D5	31 Jul 2024	Floatables	None
D5	31 Jul 2024	Current Direction	S
D5	31 Jul 2024	Water Temp (C)	17.5
D5	31 Jul 2024	High Tide Time	827
D5	31 Jul 2024	Low Tide Time	152
D5	31 Jul 2024	Comments	Water clear; Trash-1; Algae;Kelp
D7	01 Jul 2024	Arrive Time	830
D7	01 Jul 2024	Wind Speed (kts)	2.3
D7	01 Jul 2024	Wind Dir	S
D7	01 Jul 2024	Animal Life	
D7	01 Jul 2024	Floatables	None
D7	01 Jul 2024	Current Direction	S

Station	Date	Parameter	Value
D7	01 Jul 2024	Water Temp (C)	17.4
D7	01 Jul 2024	High Tide Time	647
D7	01 Jul 2024	Low Tide Time	55
D7	01 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D7	10 Jul 2024	Arrive Time	852
D7	10 Jul 2024	Wind Speed (kts)	0.9
D7	10 Jul 2024	Wind Dir	SW
D7	10 Jul 2024	Animal Life	
D7	10 Jul 2024	Floatables	None
D7	10 Jul 2024	Current Direction	S
D7	10 Jul 2024	Water Temp (C)	19.1
D7	10 Jul 2024	High Tide Time	1336
D7	10 Jul 2024	Low Tide Time	701
D7	10 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-6
D7	17 Jul 2024	Arrive Time	836
D7	17 Jul 2024	Wind Speed (kts)	0.3
D7	17 Jul 2024	Wind Dir	W
D7	17 Jul 2024	Animal Life	
D7	17 Jul 2024	Floatables	None
D7	17 Jul 2024	Current Direction	S
D7	17 Jul 2024	Water Temp (C)	17.8
D7	17 Jul 2024	High Tide Time	819
D7	17 Jul 2024	Low Tide Time	151
D7	17 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D7	24 Jul 2024	Arrive Time	838
D7	24 Jul 2024	Wind Speed (kts)	0.7
D7	24 Jul 2024	Wind Dir	W
D7	24 Jul 2024	Animal Life	
D7	24 Jul 2024	Floatables	None
D7	24 Jul 2024	Current Direction	S
D7	24 Jul 2024	Water Temp (C)	17.8
D7	24 Jul 2024	High Tide Time	1232
D7	24 Jul 2024	Low Tide Time	614
D7	24 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-4; Trash-1; Algae;Seagrass;Kelp
D7	31 Jul 2024	Arrive Time	843
D7	31 Jul 2024	Wind Speed (kts)	0
D7	31 Jul 2024	Wind Dir	XX
D7	31 Jul 2024	Animal Life	
D7	31 Jul 2024	Floatables	None
D7	31 Jul 2024	Current Direction	S
D7	31 Jul 2024	Water Temp (C)	15.1
D7	31 Jul 2024	High Tide Time	827
D7	31 Jul 2024	Low Tide Time	152
D7	31 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Seagrass
D8-B	01 Jul 2024	Arrive Time	820
D8-B	01 Jul 2024	Wind Speed (kts)	1
D8-B	01 Jul 2024	Wind Dir	SW
D8-B	01 Jul 2024	Animal Life	
D8-B	01 Jul 2024	Floatables	None
D8-B	01 Jul 2024	Current Direction	S
D8-B	01 Jul 2024	Water Temp (C)	15.1
D8-B	01 Jul 2024	High Tide Time	647
D8-B	01 Jul 2024	Low Tide Time	55

Station	Date	Parameter	Value
D8-B	01 Jul 2024	Comments	Water clear; Trash-1; Algae;Kelp
D8-B	10 Jul 2024	Arrive Time	841
D8-B	10 Jul 2024	Wind Speed (kts)	1.9
D8-B	10 Jul 2024	Wind Dir	W
D8-B	10 Jul 2024	Animal Life	Dog-1;
D8-B	10 Jul 2024	Floatables	None
D8-B	10 Jul 2024	Current Direction	S
D8-B	10 Jul 2024	Water Temp (C)	17.3
D8-B	10 Jul 2024	High Tide Time	1336
D8-B	10 Jul 2024	Low Tide Time	701
D8-B	10 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-2
D8-B	17 Jul 2024	Arrive Time	826
D8-B	17 Jul 2024	Wind Speed (kts)	1.9
D8-B	17 Jul 2024	Wind Dir	W
D8-B	17 Jul 2024	Animal Life	
D8-B	17 Jul 2024	Floatables	None
D8-B	17 Jul 2024	Current Direction	S
D8-B	17 Jul 2024	Water Temp (C)	18.2
D8-B	17 Jul 2024	High Tide Time	819
D8-B	17 Jul 2024	Low Tide Time	151
D8-B	17 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D8-B	24 Jul 2024	Arrive Time	821
D8-B	24 Jul 2024	Wind Speed (kts)	2.8
D8-B	24 Jul 2024	Wind Dir	W
D8-B	24 Jul 2024	Animal Life	
D8-B	24 Jul 2024	Floatables	None
D8-B	24 Jul 2024	Current Direction	S
D8-B	24 Jul 2024	Water Temp (C)	17.9
D8-B	24 Jul 2024	High Tide Time	1232
D8-B	24 Jul 2024	Low Tide Time	614
D8-B	24 Jul 2024	Comments	Water clear; Trash-1; Algae;Kelp;Seagrass;Debris; Person/Walker/Jogger-2
D8-B	31 Jul 2024	Arrive Time	832
D8-B	31 Jul 2024	Wind Speed (kts)	0
D8-B	31 Jul 2024	Wind Dir	XX
D8-B	31 Jul 2024	Animal Life	
D8-B	31 Jul 2024	Floatables	None
D8-B	31 Jul 2024	Current Direction	S
D8-B	31 Jul 2024	Water Temp (C)	14.4
D8-B	31 Jul 2024	High Tide Time	827
D8-B	31 Jul 2024	Low Tide Time	152
D8-B	31 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D9	01 Jul 2024	Arrive Time	813
D9	01 Jul 2024	Wind Speed (kts)	2
D9	01 Jul 2024	Wind Dir	S
D9	01 Jul 2024	Animal Life	
D9	01 Jul 2024	Floatables	None
D9	01 Jul 2024	Current Direction	S
D9	01 Jul 2024	Water Temp (C)	17.4
D9	01 Jul 2024	High Tide Time	647
D9	01 Jul 2024	Low Tide Time	55
D9	01 Jul 2024	Comments	Water clear; Trash-1; Algae; Person/Walker/Jogger-1
D9	10 Jul 2024	Arrive Time	832
D9	10 Jul 2024	Wind Speed (kts)	2

Station	Date	Parameter	Value
D9	10 Jul 2024	Wind Dir	SW
D9	10 Jul 2024	Animal Life	
D9	10 Jul 2024	Floatables	None
D9	10 Jul 2024	Current Direction	S
D9	10 Jul 2024	Water Temp (C)	18.1
D9	10 Jul 2024	High Tide Time	1336
D9	10 Jul 2024	Low Tide Time	701
D9	10 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D9	17 Jul 2024	Arrive Time	819
D9	17 Jul 2024	Wind Speed (kts)	0.5
D9	17 Jul 2024	Wind Dir	SW
D9	17 Jul 2024	Animal Life	
D9	17 Jul 2024	Floatables	None
D9	17 Jul 2024	Current Direction	S
D9	17 Jul 2024	Water Temp (C)	18.4
D9	17 Jul 2024	High Tide Time	819
D9	17 Jul 2024	Low Tide Time	151
D9	17 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-1
D9	24 Jul 2024	Arrive Time	810
D9	24 Jul 2024	Wind Speed (kts)	1.1
D9	24 Jul 2024	Wind Dir	W
D9	24 Jul 2024	Animal Life	
D9	24 Jul 2024	Floatables	None
D9	24 Jul 2024	Current Direction	S
D9	24 Jul 2024	Water Temp (C)	17.5
D9	24 Jul 2024	High Tide Time	1232
D9	24 Jul 2024	Low Tide Time	614
D9	24 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-3
D9	31 Jul 2024	Arrive Time	823
D9	31 Jul 2024	Wind Speed (kts)	0
D9	31 Jul 2024	Wind Dir	XX
D9	31 Jul 2024	Animal Life	
D9	31 Jul 2024	Floatables	None
D9	31 Jul 2024	Current Direction	S
D9	31 Jul 2024	Water Temp (C)	13.4
D9	31 Jul 2024	High Tide Time	827
D9	31 Jul 2024	Low Tide Time	152
D9	31 Jul 2024	Comments	Water clear; Trash-1; Algae
D10	01 Jul 2024	Arrive Time	803
D10	01 Jul 2024	Wind Speed (kts)	2.8
D10	01 Jul 2024	Wind Dir	S
D10	01 Jul 2024	Animal Life	
D10	01 Jul 2024	Floatables	None
D10	01 Jul 2024	Current Direction	S
D10	01 Jul 2024	Water Temp (C)	17.5
D10	01 Jul 2024	High Tide Time	647
D10	01 Jul 2024	Low Tide Time	55
D10	01 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-2; Trash-2; Kelp;Sea-grass;Debris; Person/Walker/Jogger-2
D10	10 Jul 2024	Arrive Time	822
D10	10 Jul 2024	Wind Speed (kts)	2
D10	10 Jul 2024	Wind Dir	SW
D10	10 Jul 2024	Animal Life	Dog-1;
D10	10 Jul 2024	Floatables	None

Station	Date	Parameter	Value
D10	10 Jul 2024	Current Direction	S
D10	10 Jul 2024	Water Temp (C)	19.2
D10	10 Jul 2024	High Tide Time	1336
D10	10 Jul 2024	Low Tide Time	701
D10	10 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D10	17 Jul 2024	Arrive Time	812
D10	17 Jul 2024	Wind Speed (kts)	2.1
D10	17 Jul 2024	Wind Dir	SW
D10	17 Jul 2024	Animal Life	Dog-1;
D10	17 Jul 2024	Floatables	Foam
D10	17 Jul 2024	Current Direction	S
D10	17 Jul 2024	Water Temp (C)	17.5
D10	17 Jul 2024	High Tide Time	819
D10	17 Jul 2024	Low Tide Time	151
D10	17 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D10	24 Jul 2024	Arrive Time	801
D10	24 Jul 2024	Wind Speed (kts)	3
D10	24 Jul 2024	Wind Dir	N
D10	24 Jul 2024	Animal Life	Bird-1;
D10	24 Jul 2024	Floatables	None
D10	24 Jul 2024	Current Direction	S
D10	24 Jul 2024	Water Temp (C)	16
D10	24 Jul 2024	High Tide Time	1232
D10	24 Jul 2024	Low Tide Time	614
D10	24 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-6; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-4
D10	31 Jul 2024	Arrive Time	815
D10	31 Jul 2024	Wind Speed (kts)	1.1
D10	31 Jul 2024	Wind Dir	W
D10	31 Jul 2024	Animal Life	Dog-1;
D10	31 Jul 2024	Floatables	None
D10	31 Jul 2024	Current Direction	S
D10	31 Jul 2024	Water Temp (C)	14.4
D10	31 Jul 2024	High Tide Time	827
D10	31 Jul 2024	Low Tide Time	152
D10	31 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-3; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
D11	01 Jul 2024	Arrive Time	756
D11	01 Jul 2024	Wind Speed (kts)	1.3
D11	01 Jul 2024	Wind Dir	S
D11	01 Jul 2024	Animal Life	
D11	01 Jul 2024	Floatables	None
D11	01 Jul 2024	Current Direction	S
D11	01 Jul 2024	Water Temp (C)	17.3
D11	01 Jul 2024	High Tide Time	647
D11	01 Jul 2024	Low Tide Time	55
D11	01 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-8; Trash-1; Kelp;Seagrass;Debris;Algae
D11	10 Jul 2024	Arrive Time	814
D11	10 Jul 2024	Wind Speed (kts)	2.3
D11	10 Jul 2024	Wind Dir	SW
D11	10 Jul 2024	Animal Life	
D11	10 Jul 2024	Floatables	None
D11	10 Jul 2024	Current Direction	S

Station	Date	Parameter	Value
D11	10 Jul 2024	Water Temp (C)	21.8
D11	10 Jul 2024	High Tide Time	1336
D11	10 Jul 2024	Low Tide Time	701
D11	10 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
D11	11 Jul 2024	Arrive Time	953
D11	11 Jul 2024	Wind Speed (kts)	2.3
D11	11 Jul 2024	Wind Dir	W
D11	11 Jul 2024	Animal Life	
D11	11 Jul 2024	Floatables	None
D11	11 Jul 2024	Current Direction	S
D11	11 Jul 2024	Water Temp (C)	18.6
D11	11 Jul 2024	High Tide Time	28
D11	11 Jul 2024	Low Tide Time	731
D11	11 Jul 2024	Comments	Water clear; Boogie boarder/Swimmer-1; Surfer/Paddle boarder-15; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-6
D11	17 Jul 2024	Arrive Time	804
D11	17 Jul 2024	Wind Speed (kts)	2.1
D11	17 Jul 2024	Wind Dir	SW
D11	17 Jul 2024	Animal Life	
D11	17 Jul 2024	Floatables	None
D11	17 Jul 2024	Current Direction	S
D11	17 Jul 2024	Water Temp (C)	18.3
D11	17 Jul 2024	High Tide Time	819
D11	17 Jul 2024	Low Tide Time	151
D11	17 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D11	24 Jul 2024	Arrive Time	751
D11	24 Jul 2024	Wind Speed (kts)	2.9
D11	24 Jul 2024	Wind Dir	W
D11	24 Jul 2024	Animal Life	Dog-1;
D11	24 Jul 2024	Floatables	Foam
D11	24 Jul 2024	Current Direction	S
D11	24 Jul 2024	Water Temp (C)	19
D11	24 Jul 2024	High Tide Time	1232
D11	24 Jul 2024	Low Tide Time	614
D11	24 Jul 2024	Comments	Water clear; Trash-1; Kelp;Algae;Seagrass; Person/Walker/Jogger-5
D11	25 Jul 2024	Arrive Time	959
D11	25 Jul 2024	Wind Speed (kts)	8
D11	25 Jul 2024	Wind Dir	W
D11	25 Jul 2024	Animal Life	Dog-1;
D11	25 Jul 2024	Floatables	None
D11	25 Jul 2024	Current Direction	S
D11	25 Jul 2024	Water Temp (C)	16.7
D11	25 Jul 2024	High Tide Time	1315
D11	25 Jul 2024	Low Tide Time	651
D11	25 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-10; Trash-1; Seagrass;Algae; Person/Walker/Jogger-5
D11	31 Jul 2024	Arrive Time	806
D11	31 Jul 2024	Wind Speed (kts)	0
D11	31 Jul 2024	Wind Dir	XX
D11	31 Jul 2024	Animal Life	Dog-2;
D11	31 Jul 2024	Floatables	None
D11	31 Jul 2024	Current Direction	S
D11	31 Jul 2024	Water Temp (C)	15.8

Station	Date	Parameter	Value
D11	31 Jul 2024	High Tide Time	827
D11	31 Jul 2024	Low Tide Time	152
D11	31 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-5; Trash-1; Seagrass;Algae;Kelp; Person/Walker/Jogger-2
D12	01 Jul 2024	Arrive Time	740
D12	01 Jul 2024	Wind Speed (kts)	2.3
D12	01 Jul 2024	Wind Dir	S
D12	01 Jul 2024	Animal Life	Bird-1;
D12	01 Jul 2024	Floatables	None
D12	01 Jul 2024	Current Direction	S
D12	01 Jul 2024	Water Temp (C)	16.3
D12	01 Jul 2024	High Tide Time	647
D12	01 Jul 2024	Low Tide Time	55
D12	01 Jul 2024	Comments	Water clear; Fisherperson-1; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D12	10 Jul 2024	Arrive Time	757
D12	10 Jul 2024	Wind Speed (kts)	2
D12	10 Jul 2024	Wind Dir	SW
D12	10 Jul 2024	Animal Life	
D12	10 Jul 2024	Floatables	None
D12	10 Jul 2024	Current Direction	S
D12	10 Jul 2024	Water Temp (C)	19
D12	10 Jul 2024	High Tide Time	1336
D12	10 Jul 2024	Low Tide Time	701
D12	10 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-3
D12	17 Jul 2024	Arrive Time	749
D12	17 Jul 2024	Wind Speed (kts)	1.5
D12	17 Jul 2024	Wind Dir	W
D12	17 Jul 2024	Animal Life	
D12	17 Jul 2024	Floatables	Foam
D12	17 Jul 2024	Current Direction	S
D12	17 Jul 2024	Water Temp (C)	17.6
D12	17 Jul 2024	High Tide Time	819
D12	17 Jul 2024	Low Tide Time	151
D12	17 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-1
D12	24 Jul 2024	Arrive Time	733
D12	24 Jul 2024	Wind Speed (kts)	1.7
D12	24 Jul 2024	Wind Dir	W
D12	24 Jul 2024	Animal Life	
D12	24 Jul 2024	Floatables	None
D12	24 Jul 2024	Current Direction	S
D12	24 Jul 2024	Water Temp (C)	20.2
D12	24 Jul 2024	High Tide Time	1232
D12	24 Jul 2024	Low Tide Time	614
D12	24 Jul 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-20
D12	31 Jul 2024	Arrive Time	751
D12	31 Jul 2024	Wind Speed (kts)	2.9
D12	31 Jul 2024	Wind Dir	W
D12	31 Jul 2024	Animal Life	
D12	31 Jul 2024	Floatables	None
D12	31 Jul 2024	Current Direction	S
D12	31 Jul 2024	Water Temp (C)	15.2
D12	31 Jul 2024	High Tide Time	827

Station	Date	Parameter	Value
D12	31 Jul 2024	Low Tide Time	152
D12	31 Jul 2024	Comments	Water clear; Surfer/Paddle boarder-10; Trash-1; Kelp;Sea-grass

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 Jul 2024	3	2	2	3	2	2	2	2
02 Jul 2024	3	2	2	3	2	2	2	2
03 Jul 2024	3	2	2	3	2	2	2	2
04 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
05 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
06 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
07 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
08 Jul 2024	2	2	2	2	2	2	2	2
09 Jul 2024	2	2	2	2	2	2	2	2
10 Jul 2024	2	2	2	2	2	2	2	2
11 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
12 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
13 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
14 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
15 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
16 Jul 2024	2	2	2	2	2	2	2	2
17 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
18 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
19 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
20 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
21 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
22 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
23 Jul 2024	2	2	2	2	2	2	2	2
24 Jul 2024	2	2	2	2	2	2	2	2
25 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
26 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
27 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
28 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
29 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
30 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
31 Jul 2024	*2	*2	*2	*3	*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
01 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
08 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2024	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 Jul 2024	2	2	2	2	2	2	2	2
02 Jul 2024	2	2	2	2	2	2	2	2
03 Jul 2024	2	2	2	2	2	2	2	2
04 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
05 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
06 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
07 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
08 Jul 2024	2	2	2	2	2	2	2	2
09 Jul 2024	2	2	2	2	2	2	2	2
10 Jul 2024	2	2	2	2	2	2	2	2
11 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
12 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
13 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
14 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
15 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
16 Jul 2024	2	2	2	2	2	2	2	2
17 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
18 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
19 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
20 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
21 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
22 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
23 Jul 2024	2	2	2	2	2	2	2	2
24 Jul 2024	2	2	2	2	2	2	2	2
25 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
26 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
27 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
28 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
29 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
30 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2
31 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2

* Geometric mean calculated using n<5

Table 3.4

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
08 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2024	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 Jul 2024	4	4	6	7	4	6	4	3
02 Jul 2024	4	4	6	7	4	6	4	3
03 Jul 2024	4	4	6	7	4	6	4	3
04 Jul 2024	*2	*3	*4	*4	*3	*5	*3	*3
05 Jul 2024	*2	*3	*4	*4	*3	*5	*3	*3
06 Jul 2024	*2	*3	*4	*4	*3	*5	*3	*3
07 Jul 2024	*2	*3	*4	*4	*3	*5	*3	*3
08 Jul 2024	2	3	4	5	5	9	3	3
09 Jul 2024	2	3	4	5	5	9	3	3
10 Jul 2024	2	3	4	5	5	9	3	3
11 Jul 2024	*2	*2	*4	*4	*6	*10	*3	*2
12 Jul 2024	*2	*2	*4	*4	*6	*10	*3	*2
13 Jul 2024	*2	*2	*4	*4	*6	*10	*3	*2
14 Jul 2024	*2	*2	*4	*4	*6	*10	*3	*2
15 Jul 2024	*2	*2	*4	*4	*6	*10	*3	*2
16 Jul 2024	3	2	3	5	5	7	3	2
17 Jul 2024	*2	*2	*3	*6	*4	*8	*3	*2
18 Jul 2024	*2	*2	*3	*6	*4	*8	*3	*2
19 Jul 2024	*2	*2	*3	*6	*4	*8	*3	*2
20 Jul 2024	*2	*2	*3	*6	*4	*8	*3	*2
21 Jul 2024	*2	*2	*3	*6	*4	*8	*3	*2
22 Jul 2024	*2	*2	*3	*6	*4	*8	*3	*2
23 Jul 2024	3	2	3	5	4	6	3	2
24 Jul 2024	3	2	3	5	4	6	3	2
25 Jul 2024	*3	*2	*2	*4	*4	*6	*2	*2
26 Jul 2024	*3	*2	*2	*4	*4	*6	*2	*2
27 Jul 2024	*3	*2	*2	*4	*4	*6	*2	*2
28 Jul 2024	*3	*2	*2	*4	*4	*6	*2	*2
29 Jul 2024	*3	*2	*2	*4	*4	*6	*2	*2
30 Jul 2024	*3	*2	*2	*4	*4	*6	*2	*2
31 Jul 2024	*3	*4	*4	*4	*4	*6	*2	*2

- Median calculated using n<5

Table 3.6

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
08 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2024	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
01 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
08 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2024	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2024	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	01 Jul 2024	800	1	<2	<2	<2
A1	01 Jul 2024	800	12	<2	<2	<2
A1	01 Jul 2024	800	18	<2	<2	<2
A1	08 Jul 2024	853	1	<2	<2	<2
A1	08 Jul 2024	853	12	<2	<2	<2
A1	08 Jul 2024	853	18	2e	<2	<2
A1	16 Jul 2024	755	1	<2	<2	<2
A1	16 Jul 2024	755	12	<2	<2	<2
A1	16 Jul 2024	755	18	8e	4e	<2
A1	23 Jul 2024	813	1	<20	<2	<2
A1	23 Jul 2024	813	12	<2	<2	<2
A1	23 Jul 2024	813	18	<2	<2	<2
A1	31 Jul 2024	833	1	<2	<2	<2
A1	31 Jul 2024	833	12	<2	<2	<2
A1	31 Jul 2024	833	18	<2	<2	<2
A6	01 Jul 2024	824	1	<2	<2	<2
A6	01 Jul 2024	824	12	<2	<2	<2
A6	01 Jul 2024	824	18	2e	<2	<2
A6	08 Jul 2024	923	1	<2	<2	<2
A6	08 Jul 2024	923	12	2e	2e	<2
A6	08 Jul 2024	923	18	<2	<2	<2
A6	16 Jul 2024	817	1	<2	<2	<2
A6	16 Jul 2024	817	12	<2	<2	<2
A6	16 Jul 2024	817	18	2e	<2	<2
A6	23 Jul 2024	855	1	<2	<2	<2
A6	23 Jul 2024	855	12	<2	<2	<2
A6	23 Jul 2024	855	18	4e	2e	<2
A6	31 Jul 2024	908	1	2e	<2	<2
A6	31 Jul 2024	908	12	6e	<2	<2
A6	31 Jul 2024	908	18	40e	4e	<2
A7	01 Jul 2024	812	1	<2	<2	<2
A7	01 Jul 2024	812	12	<2	<2	<2
A7	01 Jul 2024	812	18	<2	<2	<2
A7	08 Jul 2024	910	1	8e	<2	<2
A7	08 Jul 2024	910	12	<2	2e	<2
A7	08 Jul 2024	910	18	2e	2e	<2
A7	16 Jul 2024	807	1	<2	<2	<2
A7	16 Jul 2024	807	12	<2	<2	<2
A7	16 Jul 2024	807	18	2e	2e	<2

Station	Date	Time	Depth	Total	Fecal	Entero
A7	23 Jul 2024	838	1	2e	<2	<2
A7	23 Jul 2024	838	12	<2	<2	<2
A7	23 Jul 2024	838	18	<2	2e	<2
A7	31 Jul 2024	847	1	2e	<2	<2
A7	31 Jul 2024	847	12	<2	<2	<2
A7	31 Jul 2024	847	18	36e	4e	<2
C4	01 Jul 2024	927	1	<2	2e	<2
C4	01 Jul 2024	927	3	<2	<2	<2
C4	01 Jul 2024	927	9	2e	<2	<2
C4	08 Jul 2024	1030	1	<2	<2	<2
C4	08 Jul 2024	1030	3	<20	<2	<2
C4	08 Jul 2024	1030	9	4e	<2	<2
C4	16 Jul 2024	928	1	<2	<2	<2
C4	16 Jul 2024	928	3	<2	<2	<2
C4	16 Jul 2024	928	9	<20	4e	<2
C4	23 Jul 2024	1022	1	<2	<2	<2
C4	23 Jul 2024	1022	3	<2	<2	<2
C4	23 Jul 2024	1022	9	<2	<2	<2
C4	31 Jul 2024	1020	1	<2	<2	<2
C4	31 Jul 2024	1020	3	2e	8e	<2
C4	31 Jul 2024	1020	9	<2	<20	<2
C5	01 Jul 2024	918	1	<2	<2	<2
C5	01 Jul 2024	918	3	<2	<2	<2
C5	01 Jul 2024	918	9	<2	<2	<2
C5	08 Jul 2024	1022	1	<20	<2	<2
C5	08 Jul 2024	1022	3	<20	<2	<2
C5	08 Jul 2024	1022	9	<20	<2	2e
C5	16 Jul 2024	915	1	4e	<2	<2
C5	16 Jul 2024	915	3	4e	<2	<2
C5	16 Jul 2024	915	9	<2	<2	<2
C5	23 Jul 2024	1008	1	<2	<2	<2
C5	23 Jul 2024	1008	3	<2	<2	<2
C5	23 Jul 2024	1008	9	<2	<2	<2
C5	31 Jul 2024	1010	1	<2	<2	<2
C5	31 Jul 2024	1010	3	<2	2e	<2
C5	31 Jul 2024	1010	9	<2	2e	<2
C6	01 Jul 2024	907	1	<2	<2	<2
C6	01 Jul 2024	907	3	<2	<2	<2
C6	01 Jul 2024	907	9	<2	<2	<2
C6	08 Jul 2024	1010	1	<200	<2	<2
C6	08 Jul 2024	1010	3	<200	<2	<2
C6	08 Jul 2024	1010	9	<20	<2	<2
C6	16 Jul 2024	903	1	<2	<2	<2
C6	16 Jul 2024	903	3	<2	<2	<2
C6	16 Jul 2024	903	9	<2	<2	2e

Station	Date	Time	Depth	Total	Fecal	Entero
C6	23 Jul 2024	956	1	<2	<2	<2
C6	23 Jul 2024	956	3	2e	<2	<2
C6	23 Jul 2024	956	9	<2	<2	<2
C6	31 Jul 2024	959	1	<2	<2	<2
C6	31 Jul 2024	959	3	<2	<2	<2
C6	31 Jul 2024	959	9	<2	<2	<2
C7	01 Jul 2024	838	1	<2	<2	<2
C7	01 Jul 2024	838	12	<2	<2	<2
C7	01 Jul 2024	838	18	<2	<2	<2
C7	08 Jul 2024	943	1	2e	<2	<2
C7	08 Jul 2024	943	12	<2	<2	<2
C7	08 Jul 2024	943	18	<2	2e	<2
C7	16 Jul 2024	833	1	<2	<2	<2
C7	16 Jul 2024	833	12	<2	<2	<2
C7	16 Jul 2024	833	18	<2	<2	<2
C7	23 Jul 2024	915	1	<2	<2	<2
C7	23 Jul 2024	915	12	<2	2e	<2
C7	23 Jul 2024	915	18	<2	<2	<2
C7	31 Jul 2024	923	1	<2	<2	<2
C7	31 Jul 2024	923	12	<2	<2	<2
C7	31 Jul 2024	923	18	2e	<2	<2
C8	01 Jul 2024	848	1	<2	<2	<2
C8	01 Jul 2024	848	12	<2	<2	<2
C8	01 Jul 2024	848	18	<2	<2	<2
C8	08 Jul 2024	950	1	2e	<2	<2
C8	08 Jul 2024	950	12	<2	2e	<2
C8	08 Jul 2024	950	18	<2	<2	<2
C8	16 Jul 2024	845	1	<2	<2	<2
C8	16 Jul 2024	845	12	2e	2e	<2
C8	16 Jul 2024	845	18	4e	4e	<2
C8	23 Jul 2024	936	1	<2	<2	<2
C8	23 Jul 2024	936	12	<2	<2	<2
C8	23 Jul 2024	936	18	<2	<2	<2
C8	31 Jul 2024	936	1	<2	2e	<2
C8	31 Jul 2024	936	12	<2	<2	<2
C8	31 Jul 2024	936	18	2e	<20	<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	01 Jul 2024	Arrive Time	800
A1	01 Jul 2024	Depart Time	805
A1	01 Jul 2024	Air Temp (C)	18.1
A1	01 Jul 2024	Visibility (mi)	5
A1	01 Jul 2024	Wind Speed (kts)	8.2
A1	01 Jul 2024	Wind Dir	SE
A1	01 Jul 2024	Sea State	Calm
A1	01 Jul 2024	High Tide Time	1818
A1	01 Jul 2024	Low Tide Time	54
A1	01 Jul 2024	Comments	Depth not achieved on first attempt. Data and bottles from attempt 2. ; Kelp
A1	08 Jul 2024	Arrive Time	853
A1	08 Jul 2024	Depart Time	859
A1	08 Jul 2024	Air Temp (C)	18.9
A1	08 Jul 2024	Visibility (mi)	5
A1	08 Jul 2024	Wind Speed (kts)	5.4
A1	08 Jul 2024	Wind Dir	W
A1	08 Jul 2024	Sea State	Calm
A1	08 Jul 2024	High Tide Time	2306
A1	08 Jul 2024	Low Tide Time	554
A1	08 Jul 2024	Comments	
A1	16 Jul 2024	Arrive Time	755
A1	16 Jul 2024	Depart Time	800
A1	16 Jul 2024	Air Temp (C)	18.9
A1	16 Jul 2024	Visibility (mi)	6
A1	16 Jul 2024	Wind Speed (kts)	1.8
A1	16 Jul 2024	Wind Dir	W
A1	16 Jul 2024	Sea State	Calm
A1	16 Jul 2024	High Tide Time	1754
A1	16 Jul 2024	Low Tide Time	100
A1	16 Jul 2024	Comments	Kelp Debris
A1	23 Jul 2024	Arrive Time	813
A1	23 Jul 2024	Depart Time	828
A1	23 Jul 2024	Air Temp (C)	21.2
A1	23 Jul 2024	Visibility (mi)	4
A1	23 Jul 2024	Wind Speed (kts)	1.1
A1	23 Jul 2024	Wind Dir	NW
A1	23 Jul 2024	Sea State	Calm
A1	23 Jul 2024	High Tide Time	2306
A1	23 Jul 2024	Low Tide Time	530
A1	23 Jul 2024	Comments	Made a second attempt at getting depth but tide is too low. May be possible to separate out some >17.5m data in post. ; Kelp Debris
A1	31 Jul 2024	Arrive Time	833
A1	31 Jul 2024	Depart Time	841
A1	31 Jul 2024	Air Temp (C)	17.4
A1	31 Jul 2024	Visibility (mi)	9
A1	31 Jul 2024	Wind Speed (kts)	13.2
A1	31 Jul 2024	Wind Dir	NW
A1	31 Jul 2024	Sea State	Regular Swell
A1	31 Jul 2024	High Tide Time	1854
A1	31 Jul 2024	Low Tide Time	148

Station	Date	Parameter	Value
A1	31 Jul 2024	Comments	Kelp; Kelp Debris; Salps
C4	01 Jul 2024	Arrive Time	927
C4	01 Jul 2024	Depart Time	930
C4	01 Jul 2024	Air Temp (C)	17.9
C4	01 Jul 2024	Visibility (mi)	5
C4	01 Jul 2024	Wind Speed (kts)	2.4
C4	01 Jul 2024	Wind Dir	SW
C4	01 Jul 2024	Sea State	Calm
C4	01 Jul 2024	High Tide Time	1818
C4	01 Jul 2024	Low Tide Time	54
C4	01 Jul 2024	Comments	Kelp
C4	08 Jul 2024	Arrive Time	1030
C4	08 Jul 2024	Depart Time	1035
C4	08 Jul 2024	Air Temp (C)	19.3
C4	08 Jul 2024	Visibility (mi)	5
C4	08 Jul 2024	Wind Speed (kts)	4.9
C4	08 Jul 2024	Wind Dir	SW
C4	08 Jul 2024	Sea State	Calm
C4	08 Jul 2024	High Tide Time	2306
C4	08 Jul 2024	Low Tide Time	554
C4	08 Jul 2024	Comments	dolphins sauntering through station
C4	16 Jul 2024	Arrive Time	928
C4	16 Jul 2024	Depart Time	931
C4	16 Jul 2024	Air Temp (C)	19
C4	16 Jul 2024	Visibility (mi)	6
C4	16 Jul 2024	Wind Speed (kts)	0
C4	16 Jul 2024	Wind Dir	NW
C4	16 Jul 2024	Sea State	Calm
C4	16 Jul 2024	High Tide Time	1754
C4	16 Jul 2024	Low Tide Time	100
C4	16 Jul 2024	Comments	Surface foam.; Kelp Debris
C4	23 Jul 2024	Arrive Time	1022
C4	23 Jul 2024	Depart Time	1026
C4	23 Jul 2024	Air Temp (C)	20.6
C4	23 Jul 2024	Visibility (mi)	4
C4	23 Jul 2024	Wind Speed (kts)	2.9
C4	23 Jul 2024	Wind Dir	W
C4	23 Jul 2024	Sea State	Calm
C4	23 Jul 2024	High Tide Time	2306
C4	23 Jul 2024	Low Tide Time	530
C4	23 Jul 2024	Comments	Kelp
C4	31 Jul 2024	Arrive Time	1020
C4	31 Jul 2024	Depart Time	1023
C4	31 Jul 2024	Air Temp (C)	17.9
C4	31 Jul 2024	Visibility (mi)	9
C4	31 Jul 2024	Wind Speed (kts)	3.6
C4	31 Jul 2024	Wind Dir	NW
C4	31 Jul 2024	Sea State	Regular Swell
C4	31 Jul 2024	High Tide Time	1854
C4	31 Jul 2024	Low Tide Time	148
C4	31 Jul 2024	Comments	Kelp Debris; Seagrass
A7	01 Jul 2024	Arrive Time	812
A7	01 Jul 2024	Depart Time	816
A7	01 Jul 2024	Air Temp (C)	17.9
A7	01 Jul 2024	Visibility (mi)	5

Station	Date	Parameter	Value
A7	01 Jul 2024	Wind Speed (kts)	3.4
A7	01 Jul 2024	Wind Dir	SE
A7	01 Jul 2024	Sea State	Calm
A7	01 Jul 2024	High Tide Time	1818
A7	01 Jul 2024	Low Tide Time	54
A7	01 Jul 2024	Comments	
A7	08 Jul 2024	Arrive Time	910
A7	08 Jul 2024	Depart Time	914
A7	08 Jul 2024	Air Temp (C)	18.9
A7	08 Jul 2024	Visibility (mi)	5
A7	08 Jul 2024	Wind Speed (kts)	3.6
A7	08 Jul 2024	Wind Dir	NW
A7	08 Jul 2024	Sea State	Calm
A7	08 Jul 2024	High Tide Time	2306
A7	08 Jul 2024	Low Tide Time	554
A7	08 Jul 2024	Comments	
A7	16 Jul 2024	Arrive Time	807
A7	16 Jul 2024	Depart Time	810
A7	16 Jul 2024	Air Temp (C)	18.9
A7	16 Jul 2024	Visibility (mi)	6
A7	16 Jul 2024	Wind Speed (kts)	3.9
A7	16 Jul 2024	Wind Dir	W
A7	16 Jul 2024	Sea State	Calm
A7	16 Jul 2024	High Tide Time	1754
A7	16 Jul 2024	Low Tide Time	100
A7	16 Jul 2024	Comments	
A7	23 Jul 2024	Arrive Time	838
A7	23 Jul 2024	Depart Time	843
A7	23 Jul 2024	Air Temp (C)	21.5
A7	23 Jul 2024	Visibility (mi)	4
A7	23 Jul 2024	Wind Speed (kts)	0
A7	23 Jul 2024	Wind Dir	NW
A7	23 Jul 2024	Sea State	Calm
A7	23 Jul 2024	High Tide Time	2306
A7	23 Jul 2024	Low Tide Time	530
A7	23 Jul 2024	Comments	Kelp
A7	31 Jul 2024	Arrive Time	847
A7	31 Jul 2024	Depart Time	900
A7	31 Jul 2024	Air Temp (C)	17.6
A7	31 Jul 2024	Visibility (mi)	9
A7	31 Jul 2024	Wind Speed (kts)	0
A7	31 Jul 2024	Wind Dir	NE
A7	31 Jul 2024	Sea State	Regular Swell
A7	31 Jul 2024	High Tide Time	1854
A7	31 Jul 2024	Low Tide Time	148
A7	31 Jul 2024	Comments	Bubbles wouldn't clear for 1st cast; completed 2nd cast; salps and dolphins
C5	01 Jul 2024	Arrive Time	918
C5	01 Jul 2024	Depart Time	921
C5	01 Jul 2024	Air Temp (C)	18.2
C5	01 Jul 2024	Visibility (mi)	5
C5	01 Jul 2024	Wind Speed (kts)	4.4
C5	01 Jul 2024	Wind Dir	SE
C5	01 Jul 2024	Sea State	Calm
C5	01 Jul 2024	High Tide Time	1818
C5	01 Jul 2024	Low Tide Time	54

Station	Date	Parameter	Value
C5	01 Jul 2024	Comments	Kelp
C5	08 Jul 2024	Arrive Time	1022
C5	08 Jul 2024	Depart Time	1025
C5	08 Jul 2024	Air Temp (C)	19.3
C5	08 Jul 2024	Visibility (mi)	5
C5	08 Jul 2024	Wind Speed (kts)	2.6
C5	08 Jul 2024	Wind Dir	SW
C5	08 Jul 2024	Sea State	Calm
C5	08 Jul 2024	High Tide Time	2306
C5	08 Jul 2024	Low Tide Time	554
C5	08 Jul 2024	Comments	
C5	16 Jul 2024	Arrive Time	915
C5	16 Jul 2024	Depart Time	919
C5	16 Jul 2024	Air Temp (C)	18.9
C5	16 Jul 2024	Visibility (mi)	6
C5	16 Jul 2024	Wind Speed (kts)	1.4
C5	16 Jul 2024	Wind Dir	SE
C5	16 Jul 2024	Sea State	Calm
C5	16 Jul 2024	High Tide Time	1754
C5	16 Jul 2024	Low Tide Time	100
C5	16 Jul 2024	Comments	Kelp
C5	23 Jul 2024	Arrive Time	1008
C5	23 Jul 2024	Depart Time	1013
C5	23 Jul 2024	Air Temp (C)	21.1
C5	23 Jul 2024	Visibility (mi)	4
C5	23 Jul 2024	Wind Speed (kts)	5.1
C5	23 Jul 2024	Wind Dir	W
C5	23 Jul 2024	Sea State	Calm
C5	23 Jul 2024	High Tide Time	2306
C5	23 Jul 2024	Low Tide Time	530
C5	23 Jul 2024	Comments	
C5	31 Jul 2024	Arrive Time	1010
C5	31 Jul 2024	Depart Time	1013
C5	31 Jul 2024	Air Temp (C)	17.9
C5	31 Jul 2024	Visibility (mi)	9
C5	31 Jul 2024	Wind Speed (kts)	2.5
C5	31 Jul 2024	Wind Dir	NW
C5	31 Jul 2024	Sea State	Regular Swell
C5	31 Jul 2024	High Tide Time	1854
C5	31 Jul 2024	Low Tide Time	148
C5	31 Jul 2024	Comments	
A6	01 Jul 2024	Arrive Time	824
A6	01 Jul 2024	Depart Time	827
A6	01 Jul 2024	Air Temp (C)	18.1
A6	01 Jul 2024	Visibility (mi)	5
A6	01 Jul 2024	Wind Speed (kts)	2.9
A6	01 Jul 2024	Wind Dir	S
A6	01 Jul 2024	Sea State	Calm
A6	01 Jul 2024	High Tide Time	1818
A6	01 Jul 2024	Low Tide Time	54
A6	01 Jul 2024	Comments	Kelp Debris
A6	08 Jul 2024	Arrive Time	923
A6	08 Jul 2024	Depart Time	930
A6	08 Jul 2024	Air Temp (C)	19
A6	08 Jul 2024	Visibility (mi)	5

Station	Date	Parameter	Value
A6	08 Jul 2024	Wind Speed (kts)	2.3
A6	08 Jul 2024	Wind Dir	SW
A6	08 Jul 2024	Sea State	Calm
A6	08 Jul 2024	High Tide Time	2306
A6	08 Jul 2024	Low Tide Time	554
A6	08 Jul 2024	Comments	
A6	16 Jul 2024	Arrive Time	817
A6	16 Jul 2024	Depart Time	823
A6	16 Jul 2024	Air Temp (C)	18.9
A6	16 Jul 2024	Visibility (mi)	6
A6	16 Jul 2024	Wind Speed (kts)	3.3
A6	16 Jul 2024	Wind Dir	W
A6	16 Jul 2024	Sea State	Calm
A6	16 Jul 2024	High Tide Time	1754
A6	16 Jul 2024	Low Tide Time	100
A6	16 Jul 2024	Comments	mid-depth sampled on upcast.
A6	23 Jul 2024	Arrive Time	855
A6	23 Jul 2024	Depart Time	905
A6	23 Jul 2024	Air Temp (C)	21.3
A6	23 Jul 2024	Visibility (mi)	4
A6	23 Jul 2024	Wind Speed (kts)	1.3
A6	23 Jul 2024	Wind Dir	S
A6	23 Jul 2024	Sea State	Calm
A6	23 Jul 2024	High Tide Time	2306
A6	23 Jul 2024	Low Tide Time	530
A6	23 Jul 2024	Comments	CTD found a hole.
A6	31 Jul 2024	Arrive Time	908
A6	31 Jul 2024	Depart Time	913
A6	31 Jul 2024	Air Temp (C)	17.6
A6	31 Jul 2024	Visibility (mi)	9
A6	31 Jul 2024	Wind Speed (kts)	0.6
A6	31 Jul 2024	Wind Dir	N
A6	31 Jul 2024	Sea State	Regular Swell
A6	31 Jul 2024	High Tide Time	1854
A6	31 Jul 2024	Low Tide Time	148
A6	31 Jul 2024	Comments	Salps
C6	01 Jul 2024	Arrive Time	907
C6	01 Jul 2024	Depart Time	911
C6	01 Jul 2024	Air Temp (C)	18.1
C6	01 Jul 2024	Visibility (mi)	5
C6	01 Jul 2024	Wind Speed (kts)	2
C6	01 Jul 2024	Wind Dir	SW
C6	01 Jul 2024	Sea State	Calm
C6	01 Jul 2024	High Tide Time	1818
C6	01 Jul 2024	Low Tide Time	54
C6	01 Jul 2024	Comments	Kelp
C6	08 Jul 2024	Arrive Time	1010
C6	08 Jul 2024	Depart Time	1014
C6	08 Jul 2024	Air Temp (C)	19.3
C6	08 Jul 2024	Visibility (mi)	5
C6	08 Jul 2024	Wind Speed (kts)	8.1
C6	08 Jul 2024	Wind Dir	W
C6	08 Jul 2024	Sea State	Calm
C6	08 Jul 2024	High Tide Time	2306
C6	08 Jul 2024	Low Tide Time	554
C6	08 Jul 2024	Comments	

Station	Date	Parameter	Value
C6	16 Jul 2024	Arrive Time	903
C6	16 Jul 2024	Depart Time	909
C6	16 Jul 2024	Air Temp (C)	18.8
C6	16 Jul 2024	Visibility (mi)	6
C6	16 Jul 2024	Wind Speed (kts)	12.9
C6	16 Jul 2024	Wind Dir	S
C6	16 Jul 2024	Sea State	Calm
C6	16 Jul 2024	High Tide Time	1754
C6	16 Jul 2024	Low Tide Time	100
C6	16 Jul 2024	Comments	
C6	23 Jul 2024	Arrive Time	956
C6	23 Jul 2024	Depart Time	1008
C6	23 Jul 2024	Air Temp (C)	21.2
C6	23 Jul 2024	Visibility (mi)	4
C6	23 Jul 2024	Wind Speed (kts)	3.9
C6	23 Jul 2024	Wind Dir	SW
C6	23 Jul 2024	Sea State	Calm
C6	23 Jul 2024	High Tide Time	2306
C6	23 Jul 2024	Low Tide Time	530
C6	23 Jul 2024	Comments	Kelp
C6	31 Jul 2024	Arrive Time	959
C6	31 Jul 2024	Depart Time	1002
C6	31 Jul 2024	Air Temp (C)	18
C6	31 Jul 2024	Visibility (mi)	9
C6	31 Jul 2024	Wind Speed (kts)	1.7
C6	31 Jul 2024	Wind Dir	NW
C6	31 Jul 2024	Sea State	Regular Swell
C6	31 Jul 2024	High Tide Time	1854
C6	31 Jul 2024	Low Tide Time	148
C6	31 Jul 2024	Comments	Kelp Debris
C7	01 Jul 2024	Arrive Time	838
C7	01 Jul 2024	Depart Time	843
C7	01 Jul 2024	Air Temp (C)	18.2
C7	01 Jul 2024	Visibility (mi)	5
C7	01 Jul 2024	Wind Speed (kts)	8.2
C7	01 Jul 2024	Wind Dir	S
C7	01 Jul 2024	Sea State	Calm
C7	01 Jul 2024	High Tide Time	1818
C7	01 Jul 2024	Low Tide Time	54
C7	01 Jul 2024	Comments	Small salinity spike caused by strong gradient at thermocline despite attempting a slower cast.
C7	08 Jul 2024	Arrive Time	943
C7	08 Jul 2024	Depart Time	948
C7	08 Jul 2024	Air Temp (C)	19.2
C7	08 Jul 2024	Visibility (mi)	5
C7	08 Jul 2024	Wind Speed (kts)	3
C7	08 Jul 2024	Wind Dir	SW
C7	08 Jul 2024	Sea State	Calm
C7	08 Jul 2024	High Tide Time	2306
C7	08 Jul 2024	Low Tide Time	554
C7	08 Jul 2024	Comments	
C7	16 Jul 2024	Arrive Time	833
C7	16 Jul 2024	Depart Time	837
C7	16 Jul 2024	Air Temp (C)	18.9
C7	16 Jul 2024	Visibility (mi)	6

Station	Date	Parameter	Value
C7	16 Jul 2024	Wind Speed (kts)	4.2
C7	16 Jul 2024	Wind Dir	W
C7	16 Jul 2024	Sea State	Calm
C7	16 Jul 2024	High Tide Time	1754
C7	16 Jul 2024	Low Tide Time	100
C7	16 Jul 2024	Comments	
C7	23 Jul 2024	Arrive Time	915
C7	23 Jul 2024	Depart Time	936
C7	23 Jul 2024	Air Temp (C)	21.8
C7	23 Jul 2024	Visibility (mi)	4
C7	23 Jul 2024	Wind Speed (kts)	0
C7	23 Jul 2024	Wind Dir	S
C7	23 Jul 2024	Sea State	Calm
C7	23 Jul 2024	High Tide Time	2306
C7	23 Jul 2024	Low Tide Time	530
C7	23 Jul 2024	Comments	
C7	31 Jul 2024	Arrive Time	923
C7	31 Jul 2024	Depart Time	927
C7	31 Jul 2024	Air Temp (C)	17.7
C7	31 Jul 2024	Visibility (mi)	9
C7	31 Jul 2024	Wind Speed (kts)	1.9
C7	31 Jul 2024	Wind Dir	W
C7	31 Jul 2024	Sea State	Regular Swell
C7	31 Jul 2024	High Tide Time	1854
C7	31 Jul 2024	Low Tide Time	148
C7	31 Jul 2024	Comments	Salps
C8	01 Jul 2024	Arrive Time	848
C8	01 Jul 2024	Depart Time	907
C8	01 Jul 2024	Air Temp (C)	18.1
C8	01 Jul 2024	Visibility (mi)	5
C8	01 Jul 2024	Wind Speed (kts)	4.6
C8	01 Jul 2024	Wind Dir	S
C8	01 Jul 2024	Sea State	Calm
C8	01 Jul 2024	High Tide Time	1818
C8	01 Jul 2024	Low Tide Time	54
C8	01 Jul 2024	Comments	Niskin 2 attempt to fire at chl maximum for WE.
C8	08 Jul 2024	Arrive Time	950
C8	08 Jul 2024	Depart Time	956
C8	08 Jul 2024	Air Temp (C)	19
C8	08 Jul 2024	Visibility (mi)	5
C8	08 Jul 2024	Wind Speed (kts)	5.9
C8	08 Jul 2024	Wind Dir	W
C8	08 Jul 2024	Sea State	Calm
C8	08 Jul 2024	High Tide Time	2306
C8	08 Jul 2024	Low Tide Time	554
C8	08 Jul 2024	Comments	
C8	16 Jul 2024	Arrive Time	845
C8	16 Jul 2024	Depart Time	848
C8	16 Jul 2024	Air Temp (C)	18.9
C8	16 Jul 2024	Visibility (mi)	6
C8	16 Jul 2024	Wind Speed (kts)	4.8
C8	16 Jul 2024	Wind Dir	W
C8	16 Jul 2024	Sea State	Calm
C8	16 Jul 2024	High Tide Time	1754
C8	16 Jul 2024	Low Tide Time	100
C8	16 Jul 2024	Comments	

Station	Date	Parameter	Value
C8	23 Jul 2024	Arrive Time	936
C8	23 Jul 2024	Depart Time	956
C8	23 Jul 2024	Air Temp (C)	21.3
C8	23 Jul 2024	Visibility (mi)	4
C8	23 Jul 2024	Wind Speed (kts)	3.9
C8	23 Jul 2024	Wind Dir	SW
C8	23 Jul 2024	Sea State	Calm
C8	23 Jul 2024	High Tide Time	2306
C8	23 Jul 2024	Low Tide Time	530
C8	23 Jul 2024	Comments	Kelp Debris
C8	31 Jul 2024	Arrive Time	936
C8	31 Jul 2024	Depart Time	940
C8	31 Jul 2024	Air Temp (C)	17.9
C8	31 Jul 2024	Visibility (mi)	9
C8	31 Jul 2024	Wind Speed (kts)	1.9
C8	31 Jul 2024	Wind Dir	N
C8	31 Jul 2024	Sea State	Regular Swell
C8	31 Jul 2024	High Tide Time	1854
C8	31 Jul 2024	Low Tide Time	148
C8	31 Jul 2024	Comments	

Comments

date	station	depth	parmcode	comments
08-Jul-2024	A7	18		Rinse/Funnel Sterility QC for the Enterococcus had growth, but the bacteria did not grow on mEI in the follow-up test. This doesn't affect the results
08-Jul-2024	C7	18		Rinse/Funnel Sterility QC for the Enterococcus had growth, but the bacteria did not grow on mEI in the follow-up test. This doesn't affect the results
08-Jul-2024	C8	12		Rinse/Funnel Sterility QC for the Enterococcus had growth, but the bacteria did not grow on mEI in the follow-up test. This doesn't affect the results
31-Jul-2024	A1	1		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	A1	12		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	A1	18		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	A6	1		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	A6	12		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	A6	18		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	C4	1		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	C4	3		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	C4	9		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	C7	1		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	C7	12		mFC samples were pulled out later (at 1355) than other #1 batch samples.
31-Jul-2024	A7	1		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C5	1		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C5	3		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C5	9		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C6	1		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C6	3		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C6	9		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	A7	12		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.

date	station	depth	parmcode	comments
31-Jul-2024	C7	1		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C7	12		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C8	1		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.
31-Jul-2024	C8	18		TSA (Pre-PS) had colonies, but mEI did not. This contamination seems to not affect to the results.

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	01 Jul 2024	1	20.98	93.52	8.4	33.54	8.2	23.4	0.50
A1	01 Jul 2024	2	20.75	93.87	8.5	33.56	8.2	23.5	0.50
A1	01 Jul 2024	3	19.93	93.75	8.8	33.58	8.2	23.7	0.57
A1	01 Jul 2024	4	18.31	93.33	9.3	33.58	8.2	24.1	0.62
A1	01 Jul 2024	5	17.52	93.41	9.6	33.53	8.2	24.3	0.67
A1	01 Jul 2024	6	16.77	93.17	9.4	33.52	8.2	24.4	0.88
A1	01 Jul 2024	7	15.21	91.92	9.2	33.54	8.2	24.8	1.24
A1	01 Jul 2024	8	13.99	91.15	9.1	33.48	8.1	25.0	1.40
A1	01 Jul 2024	9	13.48	92.79	8.6	33.44	8.1	25.1	1.44
A1	01 Jul 2024	10	13.04	93.62	8.2	33.40	8.0	25.1	2.09
A1	01 Jul 2024	11	12.82	93.67	7.9	33.39	8.0	25.2	3.17
A1	01 Jul 2024	12	12.61	92.42	7.7	33.38	8.0	25.2	4.84
A1	01 Jul 2024	13	12.56	89.91	7.5	33.38	8.0	25.2	5.82
A1	01 Jul 2024	14	12.45	88.91	7.3	33.39	8.0	25.2	6.55
A1	01 Jul 2024	15	12.34	88.29	7.2	33.40	7.9	25.3	6.57
A1	01 Jul 2024	16	12.28	88.25	7.1	33.41	7.9	25.3	6.50
A1	01 Jul 2024	17	12.21	88.65	6.8	33.42	7.9	25.3	6.07
A1	01 Jul 2024	18	11.81	88.89	6.3	33.52	7.9	25.5	5.61
A1	01 Jul 2024	19	11.56	89.84	6.0	33.57	7.8	25.6	4.71
A1	08 Jul 2024	1	20.31	77.15	9.2	33.58	8.3	23.6	14.18
A1	08 Jul 2024	2	19.50	68.25	9.5	33.58	8.3	23.8	21.02
A1	08 Jul 2024	3	19.24	59.51	9.6	33.56	8.3	23.9	21.46
A1	08 Jul 2024	4	18.86	57.72	9.6	33.56	8.3	24.0	19.99
A1	08 Jul 2024	5	17.99	58.48	9.8	33.58	8.3	24.2	17.33
A1	08 Jul 2024	6	16.74	61.04	9.8	33.59	8.2	24.5	13.25
A1	08 Jul 2024	7	16.40	67.15	9.9	33.55	8.2	24.5	9.94
A1	08 Jul 2024	8	16.29	71.07	9.9	33.53	8.2	24.6	8.47
A1	08 Jul 2024	9	16.17	74.49	9.9	33.52	8.2	24.6	7.06
A1	08 Jul 2024	10	15.97	77.09	9.4	33.52	8.2	24.6	5.68
A1	08 Jul 2024	11	15.14	79.81	8.1	33.55	8.1	24.8	4.34
A1	08 Jul 2024	12	13.99	83.34	7.0	33.57	8.0	25.1	3.19
A1	08 Jul 2024	13	13.06	87.11	6.4	33.56	7.9	25.3	2.20
A1	08 Jul 2024	14	12.84	90.55	6.0	33.55	7.9	25.3	1.73
A1	08 Jul 2024	15	12.82	91.59	5.9	33.55	7.8	25.3	1.41
A1	08 Jul 2024	16	12.69	92.05	5.7	33.56	7.8	25.3	1.33
A1	08 Jul 2024	17	12.54	92.26	5.6	33.57	7.8	25.4	1.25
A1	16 Jul 2024	1	20.06	79.02	9.1	33.50	8.3	23.6	2.20
A1	16 Jul 2024	2	20.12	69.80	9.1	33.45	8.3	23.5	2.27
A1	16 Jul 2024	3	20.08	78.62	9.0	33.52	8.3	23.6	2.41
A1	16 Jul 2024	4	18.55	83.44	9.0	33.52	8.3	24.0	2.26
A1	16 Jul 2024	5	17.51	86.08	9.0	33.43	8.2	24.2	1.87
A1	16 Jul 2024	6	16.92	90.42	8.9	33.38	8.2	24.3	1.96
A1	16 Jul 2024	7	16.38	91.69	8.9	33.41	8.2	24.4	2.85
A1	16 Jul 2024	8	15.44	89.13	9.2	33.47	8.2	24.7	4.61
A1	16 Jul 2024	9	15.51	86.72	9.0	33.44	8.2	24.7	5.40
A1	16 Jul 2024	10	15.19	85.94	8.8	33.49	8.1	24.8	5.24
A1	16 Jul 2024	11	15.08	85.73	8.7	33.50	8.1	24.8	5.37
A1	16 Jul 2024	12	15.06	85.84	8.5	33.51	8.1	24.8	5.24
A1	16 Jul 2024	13	14.97	85.63	8.2	33.52	8.1	24.8	5.18
A1	16 Jul 2024	14	14.73	85.96	7.8	33.56	8.1	24.9	4.69
A1	16 Jul 2024	15	14.52	86.88	7.2	33.59	8.0	25.0	3.91
A1	16 Jul 2024	16	14.30	87.47	6.6	33.63	8.0	25.1	3.39
A1	16 Jul 2024	17	13.83	88.29	5.9	33.65	7.9	25.2	2.23

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A1	16 Jul 2024	18	13.78	88.70	5.6	33.65	7.9	25.2	1.73
A1	23 Jul 2024	1	17.07	75.06	8.1	33.52	8.2	24.4	2.08
A1	23 Jul 2024	2	15.25	77.60	8.0	33.53	8.1	24.8	2.35
A1	23 Jul 2024	3	14.51	80.29	7.7	33.47	8.1	24.9	3.00
A1	23 Jul 2024	4	14.01	80.44	7.3	33.48	8.1	25.0	3.86
A1	23 Jul 2024	5	13.63	79.55	7.1	33.47	8.0	25.1	4.73
A1	23 Jul 2024	6	13.35	82.31	7.0	33.46	8.0	25.1	4.66
A1	23 Jul 2024	7	13.18	84.73	6.8	33.46	8.0	25.2	4.32
A1	23 Jul 2024	8	12.95	87.15	6.6	33.47	8.0	25.2	3.67
A1	23 Jul 2024	9	12.80	88.31	6.5	33.47	8.0	25.2	3.04
A1	23 Jul 2024	10	12.72	89.48	6.4	33.47	8.0	25.3	3.21
A1	23 Jul 2024	11	12.51	90.48	6.2	33.49	7.9	25.3	2.38
A1	23 Jul 2024	12	12.37	91.51	6.1	33.49	7.9	25.3	1.99
A1	23 Jul 2024	13	12.33	92.13	6.0	33.50	7.9	25.4	1.86
A1	23 Jul 2024	14	12.32	88.85	5.9	33.51	7.9	25.4	1.72
A1	23 Jul 2024	15	12.25	90.79	5.8	33.52	7.9	25.4	1.62
A1	23 Jul 2024	16	11.98	93.24	5.6	33.55	7.9	25.5	1.41
A1	23 Jul 2024	17	11.61	95.35	5.5	33.56	7.9	25.5	1.10
A1	31 Jul 2024	1	15.97	86.30	8.1	33.48	8.0	24.6	1.52
A1	31 Jul 2024	2	15.99	86.35	8.0	33.49	8.0	24.6	1.50
A1	31 Jul 2024	3	15.78	86.23	8.0	33.49	8.0	24.6	1.70
A1	31 Jul 2024	4	15.11	85.64	7.9	33.52	8.0	24.8	2.05
A1	31 Jul 2024	5	14.36	85.25	7.8	33.48	8.0	24.9	2.61
A1	31 Jul 2024	6	13.59	84.65	7.3	33.51	8.0	25.1	3.69
A1	31 Jul 2024	7	13.06	84.50	6.8	33.48	8.0	25.2	4.14
A1	31 Jul 2024	8	12.85	85.66	6.5	33.48	7.9	25.2	3.91
A1	31 Jul 2024	9	12.66	86.89	6.2	33.49	7.9	25.3	3.63
A1	31 Jul 2024	10	12.59	88.32	6.0	33.48	7.9	25.3	3.18
A1	31 Jul 2024	11	12.49	89.50	5.9	33.49	7.8	25.3	3.05
A1	31 Jul 2024	12	12.44	90.32	5.8	33.49	7.8	25.3	2.83
A1	31 Jul 2024	13	12.40	91.01	5.7	33.49	7.8	25.3	2.58
A1	31 Jul 2024	14	12.34	91.41	5.6	33.50	7.8	25.4	2.47
A1	31 Jul 2024	15	12.23	91.81	5.5	33.51	7.8	25.4	2.13
A1	31 Jul 2024	16	12.19	92.21	5.4	33.51	7.8	25.4	2.06
A1	31 Jul 2024	17	12.06	92.70	5.2	33.53	7.8	25.4	1.87
A1	31 Jul 2024	18	11.88	92.98	5.0	33.55	7.8	25.5	1.64
A1	31 Jul 2024	19	11.70	93.98	4.8	33.57	7.8	25.5	1.38
C4	01 Jul 2024	1	20.24	86.15	9.5	33.59	8.3	23.6	1.51
C4	01 Jul 2024	2	20.25	86.32	9.5	33.59	8.3	23.6	1.57
C4	01 Jul 2024	3	20.21	86.37	9.5	33.59	8.3	23.6	1.63
C4	01 Jul 2024	4	20.19	86.40	9.5	33.59	8.3	23.6	1.72
C4	01 Jul 2024	5	20.03	86.24	9.3	33.60	8.3	23.7	1.91
C4	01 Jul 2024	6	19.50	85.70	8.6	33.62	8.3	23.8	4.14
C4	01 Jul 2024	7	17.11	77.69	7.2	33.67	8.2	24.5	8.28
C4	01 Jul 2024	8	16.07	74.76	6.3	33.64	8.1	24.7	4.18
C4	01 Jul 2024	9	13.88	82.01	5.5	33.69	7.9	25.2	1.87
C4	01 Jul 2024	10	13.53	84.04	5.1	33.59	7.8	25.2	0.88
C4	01 Jul 2024	11	12.70	84.48	4.6	33.67	7.8	25.4	0.69
C4	01 Jul 2024	12	12.53	85.57	4.4	33.65	7.8	25.4	0.45
C4	08 Jul 2024	1	20.73	80.75	8.7	33.57	8.3	23.5	2.90
C4	08 Jul 2024	2	20.37	80.72	8.8	33.59	8.3	23.6	3.21
C4	08 Jul 2024	3	18.91	79.28	9.2	33.57	8.3	24.0	6.42
C4	08 Jul 2024	4	18.56	75.15	8.9	33.55	8.3	24.0	9.83
C4	08 Jul 2024	5	18.11	71.30	8.6	33.56	8.2	24.1	9.20
C4	08 Jul 2024	6	17.62	73.68	8.2	33.56	8.2	24.3	7.23
C4	08 Jul 2024	7	16.99	77.17	7.5	33.56	8.2	24.4	4.94
C4	08 Jul 2024	8	15.74	82.70	6.3	33.59	8.1	24.7	2.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C4	08 Jul 2024	9	15.04	86.61	5.4	33.55	8.0	24.8	1.22
C4	08 Jul 2024	10	14.82	87.52	5.1	33.55	7.9	24.9	0.79
C4	08 Jul 2024	11	14.79	85.12	4.9	33.55	7.9	24.9	0.71
C4	16 Jul 2024	1	19.38	69.01	9.4	33.61	8.3	23.9	6.37
C4	16 Jul 2024	2	19.41	66.47	9.3	33.61	8.3	23.9	6.59
C4	16 Jul 2024	3	19.40	69.39	9.2	33.62	8.3	23.9	6.77
C4	16 Jul 2024	4	19.37	70.27	9.2	33.62	8.3	23.9	7.32
C4	16 Jul 2024	5	19.34	69.77	9.3	33.61	8.3	23.9	7.98
C4	16 Jul 2024	6	19.20	68.98	9.3	33.62	8.3	23.9	8.88
C4	16 Jul 2024	7	19.10	67.37	9.0	33.62	8.3	23.9	9.18
C4	16 Jul 2024	8	18.74	67.35	8.0	33.65	8.3	24.1	8.51
C4	16 Jul 2024	9	17.53	68.82	6.9	33.67	8.1	24.4	5.33
C4	16 Jul 2024	10	16.87	67.94	6.7	33.65	8.1	24.5	2.88
C4	16 Jul 2024	11	16.09	59.48	6.7	33.65	8.1	24.7	1.92
C4	23 Jul 2024	1	17.58	75.78	7.5	33.53	8.2	24.2	1.07
C4	23 Jul 2024	2	16.81	76.13	7.0	33.56	8.1	24.5	1.04
C4	23 Jul 2024	3	15.36	79.56	6.8	33.52	8.1	24.8	1.28
C4	23 Jul 2024	4	14.02	83.11	6.7	33.56	8.1	25.1	1.64
C4	23 Jul 2024	5	13.59	85.15	6.4	33.49	8.0	25.1	1.52
C4	23 Jul 2024	6	13.63	88.11	6.1	33.50	8.0	25.1	1.28
C4	23 Jul 2024	7	12.73	88.21	5.9	33.51	8.0	25.3	0.93
C4	23 Jul 2024	8	12.63	85.18	5.8	33.50	7.9	25.3	0.60
C4	23 Jul 2024	9	12.63	82.17	5.7	33.50	7.9	25.3	0.50
C4	31 Jul 2024	1	16.50	81.69	8.2	33.51	8.1	24.5	1.48
C4	31 Jul 2024	2	16.09	81.02	8.1	33.52	8.1	24.6	1.68
C4	31 Jul 2024	3	15.34	80.41	8.0	33.52	8.1	24.8	2.56
C4	31 Jul 2024	4	14.83	79.48	7.9	33.51	8.1	24.9	3.36
C4	31 Jul 2024	5	14.43	78.30	7.8	33.49	8.0	24.9	5.22
C4	31 Jul 2024	6	14.11	76.36	7.5	33.49	8.0	25.0	7.33
C4	31 Jul 2024	7	13.48	74.18	7.4	33.48	8.0	25.1	8.07
C4	31 Jul 2024	8	13.03	75.48	7.1	33.47	8.0	25.2	8.20
C4	31 Jul 2024	9	12.87	77.51	6.6	33.46	7.9	25.2	6.35
C4	31 Jul 2024	10	12.82	81.94	6.0	33.47	7.9	25.2	3.84
C4	31 Jul 2024	11	12.80	88.37	5.8	33.47	7.9	25.2	2.05
A7	01 Jul 2024	1	20.92	93.80	8.5	33.55	8.2	23.4	0.47
A7	01 Jul 2024	2	20.95	93.28	8.4	33.55	8.2	23.4	0.50
A7	01 Jul 2024	3	20.20	93.70	8.5	33.58	8.2	23.6	0.60
A7	01 Jul 2024	4	17.96	93.43	9.0	33.59	8.2	24.2	1.12
A7	01 Jul 2024	5	15.57	91.29	9.0	33.57	8.2	24.7	1.75
A7	01 Jul 2024	6	13.91	89.14	8.8	33.48	8.1	25.0	1.83
A7	01 Jul 2024	7	13.31	90.81	8.4	33.43	8.1	25.1	2.14
A7	01 Jul 2024	8	13.09	92.44	8.0	33.43	8.0	25.2	3.17
A7	01 Jul 2024	9	13.04	91.83	7.7	33.44	8.0	25.2	4.53
A7	01 Jul 2024	10	12.96	89.82	7.5	33.45	8.0	25.2	4.87
A7	01 Jul 2024	11	12.86	89.51	7.4	33.45	8.0	25.2	4.78
A7	01 Jul 2024	12	12.77	89.64	7.3	33.45	8.0	25.2	4.96
A7	01 Jul 2024	13	12.73	89.66	7.2	33.45	8.0	25.2	4.83
A7	01 Jul 2024	14	12.71	89.96	7.2	33.45	8.0	25.2	5.00
A7	01 Jul 2024	15	12.67	89.91	7.1	33.46	8.0	25.3	4.77
A7	01 Jul 2024	16	12.63	90.05	6.9	33.47	7.9	25.3	4.80
A7	01 Jul 2024	17	12.21	89.90	6.3	33.56	7.9	25.4	4.31
A7	01 Jul 2024	18	11.66	90.53	5.5	33.63	7.8	25.6	3.25
A7	01 Jul 2024	19	11.41	93.18	4.9	33.65	7.8	25.7	2.22
A7	01 Jul 2024	20	11.19	94.03	4.5	33.69	7.8	25.7	1.70
A7	08 Jul 2024	1	21.62	84.64	8.6	33.55	8.3	23.2	3.32
A7	08 Jul 2024	2	20.65	84.71	8.9	33.61	8.3	23.5	3.71

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	08 Jul 2024	3	19.23	81.16	9.9	33.62	8.3	23.9	10.99
A7	08 Jul 2024	4	18.46	64.06	10.5	33.59	8.3	24.1	18.16
A7	08 Jul 2024	5	17.22	61.88	10.3	33.58	8.3	24.4	15.91
A7	08 Jul 2024	6	16.82	68.48	9.8	33.52	8.2	24.4	11.05
A7	08 Jul 2024	7	16.49	71.86	9.7	33.50	8.2	24.5	9.00
A7	08 Jul 2024	8	16.06	76.13	9.6	33.50	8.2	24.6	8.07
A7	08 Jul 2024	9	15.88	79.18	9.2	33.50	8.2	24.6	6.69
A7	08 Jul 2024	10	15.44	79.83	8.3	33.55	8.2	24.8	5.73
A7	08 Jul 2024	11	14.88	82.26	7.4	33.55	8.1	24.9	4.55
A7	08 Jul 2024	12	14.72	85.90	6.8	33.56	8.0	24.9	3.09
A7	08 Jul 2024	13	13.74	88.42	6.3	33.59	8.0	25.1	2.25
A7	08 Jul 2024	14	13.41	90.82	6.2	33.56	7.9	25.2	1.91
A7	08 Jul 2024	15	13.36	91.22	6.2	33.55	7.9	25.2	2.01
A7	08 Jul 2024	16	13.24	90.94	6.2	33.56	7.9	25.2	2.09
A7	08 Jul 2024	17	13.07	90.49	6.2	33.56	7.9	25.3	2.09
A7	08 Jul 2024	18	12.80	91.11	5.9	33.57	7.9	25.3	1.96
A7	08 Jul 2024	19	12.65	92.22	5.7	33.57	7.9	25.4	1.54
A7	16 Jul 2024	1	20.04	77.96	9.8	33.55	8.3	23.6	3.41
A7	16 Jul 2024	2	20.05	78.15	9.8	33.55	8.3	23.6	3.39
A7	16 Jul 2024	3	20.01	78.02	9.8	33.56	8.3	23.7	3.69
A7	16 Jul 2024	4	19.94	77.02	10.0	33.59	8.4	23.7	4.32
A7	16 Jul 2024	5	19.93	75.63	9.8	33.59	8.4	23.7	4.62
A7	16 Jul 2024	6	19.39	75.04	9.2	33.57	8.4	23.8	4.60
A7	16 Jul 2024	7	17.24	71.00	9.1	33.50	8.3	24.3	4.78
A7	16 Jul 2024	8	16.53	82.08	9.0	33.52	8.2	24.5	5.42
A7	16 Jul 2024	9	16.07	82.94	8.9	33.51	8.2	24.6	6.20
A7	16 Jul 2024	10	15.84	82.15	9.1	33.49	8.2	24.6	6.69
A7	16 Jul 2024	11	15.77	81.64	9.0	33.48	8.2	24.6	6.70
A7	16 Jul 2024	12	15.77	82.22	8.3	33.51	8.2	24.7	6.11
A7	16 Jul 2024	13	15.42	82.90	7.3	33.60	8.1	24.8	5.21
A7	16 Jul 2024	14	14.91	84.26	6.2	33.63	8.0	24.9	3.46
A7	16 Jul 2024	15	14.75	87.38	5.8	33.63	8.0	25.0	2.66
A7	16 Jul 2024	16	14.38	88.40	5.6	33.65	7.9	25.1	2.35
A7	16 Jul 2024	17	14.11	88.94	5.6	33.65	7.9	25.1	2.17
A7	16 Jul 2024	18	13.68	89.79	5.5	33.66	7.9	25.2	1.71
A7	16 Jul 2024	19	13.62	90.66	5.4	33.65	7.9	25.2	1.39
A7	16 Jul 2024	20	13.63	90.84	5.4	33.65	7.9	25.2	1.36
A7	23 Jul 2024	1	19.21	72.55	8.5	33.54	8.2	23.9	2.81
A7	23 Jul 2024	2	18.42	73.04	8.3	33.57	8.2	24.1	3.06
A7	23 Jul 2024	3	16.45	73.45	7.8	33.62	8.2	24.6	3.40
A7	23 Jul 2024	4	14.28	75.53	7.5	33.55	8.1	25.0	3.74
A7	23 Jul 2024	5	13.97	77.84	7.1	33.49	8.1	25.0	3.67
A7	23 Jul 2024	6	13.86	84.59	6.9	33.49	8.0	25.0	3.42
A7	23 Jul 2024	7	13.57	86.24	6.7	33.49	8.0	25.1	3.09
A7	23 Jul 2024	8	12.98	87.76	6.6	33.50	8.0	25.2	2.53
A7	23 Jul 2024	9	12.78	89.39	6.6	33.48	8.0	25.3	2.24
A7	23 Jul 2024	10	12.65	90.57	6.6	33.46	8.0	25.3	2.23
A7	23 Jul 2024	11	12.57	91.31	6.7	33.45	8.0	25.3	2.09
A7	23 Jul 2024	12	12.61	91.96	6.5	33.48	8.0	25.3	1.93
A7	23 Jul 2024	13	12.53	92.25	6.3	33.49	8.0	25.3	1.83
A7	23 Jul 2024	14	12.30	92.56	6.2	33.51	8.0	25.4	1.65
A7	23 Jul 2024	15	12.09	93.33	6.0	33.52	7.9	25.4	1.35
A7	23 Jul 2024	16	12.03	94.38	5.8	33.52	7.9	25.4	1.16
A7	23 Jul 2024	17	11.94	95.03	5.7	33.53	7.9	25.5	1.03
A7	23 Jul 2024	18	11.90	95.16	5.6	33.54	7.9	25.5	0.91
A7	31 Jul 2024	1	15.63	83.03	7.7	33.50	8.0	24.7	2.63
A7	31 Jul 2024	2	14.83	82.73	7.6	33.55	8.0	24.9	2.90
A7	31 Jul 2024	3	14.35	81.96	7.5	33.51	8.0	25.0	4.06

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	31 Jul 2024	4	14.03	80.70	7.5	33.50	8.0	25.0	5.25
A7	31 Jul 2024	5	13.84	78.87	7.4	33.48	8.0	25.0	6.05
A7	31 Jul 2024	6	13.74	77.83	7.3	33.48	8.0	25.1	6.77
A7	31 Jul 2024	7	13.69	77.96	7.0	33.49	8.0	25.1	6.64
A7	31 Jul 2024	8	13.42	81.38	6.7	33.50	7.9	25.1	4.62
A7	31 Jul 2024	9	13.27	87.60	6.5	33.49	7.9	25.2	3.36
A7	31 Jul 2024	10	13.17	89.78	6.3	33.49	7.9	25.2	2.66
A7	31 Jul 2024	11	12.99	91.19	6.2	33.50	7.9	25.2	2.23
A7	31 Jul 2024	12	12.79	91.68	6.0	33.50	7.9	25.3	1.98
A7	31 Jul 2024	13	12.48	92.42	5.6	33.52	7.8	25.3	1.80
A7	31 Jul 2024	14	11.86	93.16	5.2	33.57	7.8	25.5	1.65
A7	31 Jul 2024	15	11.45	94.48	4.8	33.59	7.8	25.6	1.29
A7	31 Jul 2024	16	11.42	95.89	4.7	33.58	7.8	25.6	1.03
A7	31 Jul 2024	17	11.41	96.42	4.6	33.59	7.8	25.6	0.96
A7	31 Jul 2024	18	11.40	96.57	4.6	33.59	7.8	25.6	0.96
C5	01 Jul 2024	1	20.78	88.58	9.6	33.58	8.3	23.5	1.29
C5	01 Jul 2024	2	20.78	88.29	9.6	33.58	8.3	23.5	1.35
C5	01 Jul 2024	3	20.77	88.48	9.7	33.58	8.4	23.5	1.42
C5	01 Jul 2024	4	20.68	87.96	9.9	33.59	8.4	23.5	1.61
C5	01 Jul 2024	5	20.59	87.32	10.1	33.59	8.4	23.5	1.94
C5	01 Jul 2024	6	20.24	86.30	9.8	33.60	8.4	23.6	2.38
C5	01 Jul 2024	7	18.00	84.16	8.8	33.69	8.3	24.3	4.89
C5	01 Jul 2024	8	15.79	80.11	7.4	33.68	8.2	24.8	8.04
C5	01 Jul 2024	9	13.83	79.59	6.2	33.65	8.0	25.2	5.48
C5	01 Jul 2024	10	13.24	85.66	5.7	33.61	7.9	25.3	3.57
C5	01 Jul 2024	11	12.90	89.24	5.5	33.60	7.8	25.3	2.35
C5	08 Jul 2024	1	21.21	75.85	8.7	33.58	8.3	23.4	4.03
C5	08 Jul 2024	2	20.80	73.50	8.8	33.62	8.3	23.5	4.56
C5	08 Jul 2024	3	19.42	71.41	9.2	33.63	8.3	23.9	6.42
C5	08 Jul 2024	4	18.22	71.57	9.4	33.58	8.3	24.1	7.53
C5	08 Jul 2024	5	17.92	73.52	9.3	33.54	8.3	24.2	9.13
C5	08 Jul 2024	6	17.65	72.57	9.2	33.54	8.2	24.2	11.01
C5	08 Jul 2024	7	17.58	71.19	9.3	33.53	8.2	24.2	10.67
C5	08 Jul 2024	8	17.56	72.00	9.2	33.53	8.2	24.3	9.95
C5	08 Jul 2024	9	17.36	73.63	8.7	33.54	8.2	24.3	7.95
C5	08 Jul 2024	10	15.88	79.93	7.4	33.62	8.1	24.7	4.49
C5	08 Jul 2024	11	14.80	86.83	6.8	33.55	8.0	24.9	2.50
C5	16 Jul 2024	1	19.79	69.30	9.9	33.60	8.3	23.7	5.14
C5	16 Jul 2024	2	19.83	68.90	9.8	33.60	8.3	23.7	5.46
C5	16 Jul 2024	3	19.70	69.10	9.8	33.60	8.3	23.8	5.82
C5	16 Jul 2024	4	19.50	69.81	9.6	33.58	8.3	23.8	6.18
C5	16 Jul 2024	5	18.91	71.70	9.5	33.55	8.3	23.9	7.14
C5	16 Jul 2024	6	18.56	73.57	9.6	33.53	8.3	24.0	8.95
C5	16 Jul 2024	7	18.26	72.97	9.5	33.53	8.3	24.1	9.89
C5	16 Jul 2024	8	18.08	72.11	9.1	33.56	8.3	24.1	10.19
C5	16 Jul 2024	9	17.71	71.71	8.1	33.61	8.2	24.3	9.21
C5	16 Jul 2024	10	16.20	71.76	6.7	33.66	8.1	24.7	5.76
C5	16 Jul 2024	11	14.96	79.75	6.0	33.65	8.0	24.9	2.92
C5	23 Jul 2024	1	18.85	68.67	8.3	33.54	8.2	23.9	3.16
C5	23 Jul 2024	2	16.75	71.74	8.2	33.59	8.2	24.5	3.28
C5	23 Jul 2024	3	15.69	76.36	7.7	33.53	8.2	24.7	3.28
C5	23 Jul 2024	4	14.54	80.36	7.2	33.52	8.1	24.9	2.77
C5	23 Jul 2024	5	14.03	84.77	6.9	33.49	8.1	25.0	2.22
C5	23 Jul 2024	6	13.42	88.59	6.8	33.49	8.0	25.1	1.90
C5	23 Jul 2024	7	13.53	89.73	6.7	33.47	8.0	25.1	1.72
C5	23 Jul 2024	8	13.31	89.68	6.6	33.48	8.0	25.1	1.38
C5	23 Jul 2024	9	13.47	88.83	6.5	33.48	8.0	25.1	1.09

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C5	31 Jul 2024	1	16.62	82.44	8.0	33.52	8.1	24.5	1.35
C5	31 Jul 2024	2	15.54	82.54	7.8	33.55	8.1	24.7	1.71
C5	31 Jul 2024	3	14.42	82.73	7.5	33.52	8.0	25.0	2.07
C5	31 Jul 2024	4	13.97	83.46	7.1	33.50	8.0	25.0	2.09
C5	31 Jul 2024	5	13.55	85.66	6.6	33.50	8.0	25.1	1.66
C5	31 Jul 2024	6	13.33	89.42	6.4	33.50	7.9	25.2	1.32
C5	31 Jul 2024	7	13.24	90.44	6.2	33.48	7.9	25.2	1.12
C5	31 Jul 2024	8	13.10	91.84	6.1	33.48	7.9	25.2	1.16
C5	31 Jul 2024	9	12.86	92.86	6.2	33.48	7.9	25.2	1.19
C5	31 Jul 2024	10	12.75	93.28	6.3	33.47	7.9	25.3	0.99
A6	01 Jul 2024	1	20.91	93.40	8.4	33.55	8.2	23.4	0.45
A6	01 Jul 2024	2	20.89	93.63	8.4	33.55	8.2	23.4	0.50
A6	01 Jul 2024	3	20.87	93.53	8.4	33.55	8.2	23.4	0.53
A6	01 Jul 2024	4	20.87	93.38	8.5	33.55	8.2	23.4	0.55
A6	01 Jul 2024	5	20.85	93.48	8.7	33.55	8.2	23.4	0.58
A6	01 Jul 2024	6	20.35	91.86	9.4	33.58	8.3	23.6	1.08
A6	01 Jul 2024	7	18.49	90.97	9.4	33.63	8.3	24.1	1.70
A6	01 Jul 2024	8	15.11	89.08	9.2	33.64	8.3	24.9	2.48
A6	01 Jul 2024	9	13.15	88.17	8.8	33.46	8.1	25.2	3.84
A6	01 Jul 2024	10	13.17	89.01	8.4	33.42	8.1	25.1	5.16
A6	01 Jul 2024	11	12.57	88.03	7.8	33.42	8.0	25.3	6.48
A6	01 Jul 2024	12	12.51	86.98	7.5	33.42	8.0	25.3	7.82
A6	01 Jul 2024	13	12.48	85.61	7.4	33.43	8.0	25.3	8.88
A6	01 Jul 2024	14	12.46	84.71	7.2	33.45	8.0	25.3	9.76
A6	01 Jul 2024	15	12.43	84.39	7.0	33.48	7.9	25.3	9.11
A6	01 Jul 2024	16	12.35	86.44	6.5	33.52	7.9	25.4	7.29
A6	01 Jul 2024	17	11.98	89.29	5.7	33.59	7.8	25.5	5.20
A6	01 Jul 2024	18	11.62	91.05	5.3	33.60	7.8	25.6	4.23
A6	08 Jul 2024	1	21.47	85.10	8.8	33.57	8.3	23.3	2.36
A6	08 Jul 2024	2	21.38	85.14	8.8	33.57	8.3	23.3	2.55
A6	08 Jul 2024	3	20.77	85.11	9.1	33.57	8.3	23.5	3.32
A6	08 Jul 2024	4	19.93	83.55	9.4	33.57	8.3	23.7	7.16
A6	08 Jul 2024	5	18.96	78.23	9.6	33.55	8.3	23.9	11.09
A6	08 Jul 2024	6	18.59	72.04	9.6	33.54	8.3	24.0	11.56
A6	08 Jul 2024	7	17.95	71.59	9.4	33.54	8.3	24.2	10.95
A6	08 Jul 2024	8	16.74	73.06	9.3	33.53	8.2	24.5	10.02
A6	08 Jul 2024	9	16.35	74.83	9.0	33.51	8.2	24.5	8.94
A6	08 Jul 2024	10	16.22	75.99	8.8	33.51	8.2	24.6	9.00
A6	08 Jul 2024	11	16.00	76.62	8.5	33.52	8.2	24.6	8.04
A6	08 Jul 2024	12	15.52	77.59	8.0	33.54	8.2	24.7	7.52
A6	08 Jul 2024	13	14.97	79.72	7.5	33.55	8.1	24.9	6.09
A6	08 Jul 2024	14	14.43	80.04	7.4	33.53	8.1	25.0	5.42
A6	08 Jul 2024	15	14.12	83.27	7.4	33.53	8.0	25.0	5.16
A6	08 Jul 2024	16	13.76	84.84	7.1	33.54	8.0	25.1	4.68
A6	08 Jul 2024	17	13.33	86.44	6.7	33.55	8.0	25.2	3.92
A6	08 Jul 2024	18	12.96	87.82	6.4	33.56	8.0	25.3	3.11
A6	16 Jul 2024	1	19.84	70.84	10.0	33.61	8.4	23.7	5.57
A6	16 Jul 2024	2	19.85	70.96	10.0	33.61	8.4	23.7	5.90
A6	16 Jul 2024	3	19.75	71.13	9.7	33.60	8.4	23.8	5.94
A6	16 Jul 2024	4	19.02	71.94	9.7	33.54	8.3	23.9	5.21
A6	16 Jul 2024	5	18.86	77.55	9.6	33.49	8.3	23.9	4.66
A6	16 Jul 2024	6	18.71	80.48	9.2	33.49	8.3	23.9	4.66
A6	16 Jul 2024	7	17.85	82.02	8.8	33.56	8.3	24.2	6.27
A6	16 Jul 2024	8	17.06	76.93	8.5	33.60	8.2	24.4	7.94
A6	16 Jul 2024	9	17.20	75.12	8.3	33.56	8.2	24.4	8.09
A6	16 Jul 2024	10	16.78	75.12	8.0	33.59	8.2	24.5	7.76
A6	16 Jul 2024	11	16.58	76.06	7.8	33.59	8.2	24.5	7.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A6	16 Jul 2024	12	16.14	78.17	7.4	33.62	8.1	24.7	6.04
A6	16 Jul 2024	13	15.52	81.16	7.2	33.62	8.1	24.8	4.61
A6	16 Jul 2024	14	15.09	84.49	7.0	33.62	8.1	24.9	4.04
A6	16 Jul 2024	15	15.00	85.65	6.8	33.61	8.0	24.9	3.77
A6	16 Jul 2024	16	14.80	86.31	6.7	33.62	8.0	25.0	3.40
A6	16 Jul 2024	17	14.58	87.84	6.4	33.63	8.0	25.0	2.64
A6	16 Jul 2024	18	14.45	89.36	6.2	33.63	8.0	25.0	2.07
A6	16 Jul 2024	19	14.41	90.50	6.1	33.63	8.0	25.0	1.58
A6	16 Jul 2024	20	14.39	90.58	6.1	33.63	8.0	25.1	1.43
A6	23 Jul 2024	1	19.87	73.57	8.1	33.53	8.3	23.7	2.89
A6	23 Jul 2024	2	17.51	73.65	8.4	33.60	8.2	24.3	3.23
A6	23 Jul 2024	3	17.05	75.05	8.4	33.51	8.2	24.4	3.91
A6	23 Jul 2024	4	16.68	75.78	7.9	33.52	8.2	24.5	4.25
A6	23 Jul 2024	5	14.57	76.31	7.9	33.49	8.2	24.9	4.70
A6	23 Jul 2024	6	13.95	80.22	7.8	33.46	8.1	25.0	4.70
A6	23 Jul 2024	7	13.97	82.16	7.5	33.47	8.1	25.0	4.70
A6	23 Jul 2024	8	13.48	86.02	7.3	33.47	8.1	25.1	4.05
A6	23 Jul 2024	9	13.29	87.69	7.3	33.45	8.1	25.1	3.57
A6	23 Jul 2024	10	13.19	88.86	7.3	33.44	8.0	25.2	3.30
A6	23 Jul 2024	11	13.12	90.03	7.0	33.46	8.0	25.2	2.83
A6	23 Jul 2024	12	12.94	90.80	6.7	33.49	8.0	25.2	2.32
A6	23 Jul 2024	13	12.81	91.96	6.4	33.49	8.0	25.3	1.93
A6	23 Jul 2024	14	12.68	92.42	6.3	33.50	8.0	25.3	1.70
A6	23 Jul 2024	15	12.71	93.19	6.2	33.50	8.0	25.3	1.63
A6	23 Jul 2024	16	12.46	93.77	6.0	33.52	8.0	25.4	1.42
A6	23 Jul 2024	17	12.32	94.03	5.9	33.53	7.9	25.4	1.31
A6	23 Jul 2024	18	12.26	94.56	5.8	33.53	7.9	25.4	1.13
A6	23 Jul 2024	19	12.15	94.84	5.7	33.54	7.9	25.4	0.92
A6	23 Jul 2024	20	12.14	95.00	5.6	33.54	7.9	25.4	0.86
A6	23 Jul 2024	21	12.10	95.13	5.5	33.55	7.9	25.4	0.81
A6	31 Jul 2024	1	16.32	80.44	8.1	33.50	8.1	24.5	2.57
A6	31 Jul 2024	2	16.03	81.37	7.9	33.51	8.1	24.6	2.68
A6	31 Jul 2024	3	15.07	82.46	7.8	33.52	8.0	24.8	2.83
A6	31 Jul 2024	4	14.71	83.80	7.6	33.51	8.0	24.9	3.14
A6	31 Jul 2024	5	13.79	84.18	7.3	33.51	8.0	25.1	3.78
A6	31 Jul 2024	6	13.22	84.13	7.1	33.49	8.0	25.2	4.19
A6	31 Jul 2024	7	12.77	85.27	6.7	33.49	7.9	25.3	3.85
A6	31 Jul 2024	8	12.39	88.09	6.4	33.48	7.9	25.3	3.69
A6	31 Jul 2024	9	12.23	91.23	6.2	33.47	7.9	25.4	3.08
A6	31 Jul 2024	10	12.18	92.08	6.0	33.48	7.9	25.4	2.68
A6	31 Jul 2024	11	12.08	92.87	5.7	33.50	7.8	25.4	2.30
A6	31 Jul 2024	12	11.90	93.97	5.4	33.53	7.8	25.5	1.95
A6	31 Jul 2024	13	11.74	94.46	5.2	33.55	7.8	25.5	1.63
A6	31 Jul 2024	14	11.68	94.98	5.0	33.55	7.8	25.5	1.54
A6	31 Jul 2024	15	11.59	94.86	4.9	33.56	7.8	25.6	1.40
A6	31 Jul 2024	16	11.53	94.86	4.8	33.57	7.8	25.6	1.22
A6	31 Jul 2024	17	11.48	95.05	4.6	33.58	7.8	25.6	1.19
A6	31 Jul 2024	18	11.45	94.62	4.6	33.58	7.8	25.6	1.10
C6	01 Jul 2024	1	20.50	76.01	10.4	33.60	8.4	23.6	3.16
C6	01 Jul 2024	2	20.47	76.02	10.4	33.60	8.4	23.6	3.34
C6	01 Jul 2024	3	20.37	76.55	10.3	33.60	8.4	23.6	3.24
C6	01 Jul 2024	4	20.05	78.87	9.6	33.61	8.4	23.7	5.41
C6	01 Jul 2024	5	18.93	77.10	8.1	33.65	8.3	24.0	12.77
C6	01 Jul 2024	6	16.98	67.71	6.4	33.67	8.1	24.5	13.42
C6	01 Jul 2024	7	15.50	69.78	5.5	33.62	8.0	24.8	8.57
C6	01 Jul 2024	8	13.72	80.10	5.0	33.65	7.9	25.2	4.87
C6	01 Jul 2024	9	12.97	91.28	4.7	33.60	7.8	25.3	2.11
C6	01 Jul 2024	10	12.95	93.96	4.6	33.59	7.8	25.3	1.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C6	08 Jul 2024	1	21.74	76.99	8.1	33.59	8.2	23.2	3.32
C6	08 Jul 2024	2	21.51	76.55	8.1	33.60	8.2	23.3	6.75
C6	08 Jul 2024	3	20.00	73.22	8.6	33.61	8.3	23.7	11.82
C6	08 Jul 2024	4	18.93	64.00	8.9	33.61	8.3	24.0	14.49
C6	08 Jul 2024	5	17.59	63.66	9.2	33.55	8.2	24.3	12.02
C6	08 Jul 2024	6	17.35	69.73	9.1	33.52	8.2	24.3	11.37
C6	08 Jul 2024	7	17.29	70.85	8.8	33.52	8.2	24.3	10.63
C6	08 Jul 2024	8	17.09	74.02	8.3	33.53	8.2	24.4	6.92
C6	08 Jul 2024	9	16.15	77.17	7.3	33.57	8.1	24.6	3.46
C6	16 Jul 2024	1	19.70	64.82	9.4	33.63	8.3	23.8	8.34
C6	16 Jul 2024	2	19.74	64.67	9.4	33.63	8.3	23.8	8.42
C6	16 Jul 2024	3	19.48	64.98	9.3	33.63	8.3	23.9	9.85
C6	16 Jul 2024	4	19.45	64.16	9.2	33.62	8.3	23.9	10.67
C6	16 Jul 2024	5	19.24	64.03	9.1	33.63	8.3	23.9	12.47
C6	16 Jul 2024	6	19.00	62.48	9.0	33.62	8.3	24.0	14.15
C6	16 Jul 2024	7	18.84	62.62	8.8	33.62	8.3	24.0	12.37
C6	16 Jul 2024	8	18.59	67.20	7.9	33.62	8.2	24.1	9.66
C6	16 Jul 2024	9	16.06	76.40	6.3	33.67	8.1	24.7	5.47
C6	23 Jul 2024	1	20.54	71.15	8.2	33.56	8.3	23.5	2.61
C6	23 Jul 2024	2	18.73	71.20	7.7	33.65	8.2	24.1	2.80
C6	23 Jul 2024	3	15.88	72.07	7.5	33.59	8.2	24.7	3.03
C6	23 Jul 2024	4	14.88	76.23	7.4	33.49	8.1	24.8	2.64
C6	23 Jul 2024	5	14.55	84.15	7.2	33.47	8.1	24.9	2.24
C6	23 Jul 2024	6	14.31	88.68	7.0	33.47	8.1	24.9	1.89
C6	23 Jul 2024	7	14.00	90.25	6.8	33.47	8.0	25.0	1.69
C6	23 Jul 2024	8	13.90	90.63	6.8	33.47	8.0	25.0	1.64
C6	23 Jul 2024	9	13.82	90.07	6.8	33.47	8.0	25.0	1.40
C6	31 Jul 2024	1	17.06	80.51	7.8	33.53	8.1	24.4	0.81
C6	31 Jul 2024	2	16.18	80.28	7.5	33.59	8.1	24.6	1.03
C6	31 Jul 2024	3	14.39	80.74	7.2	33.56	8.0	25.0	1.71
C6	31 Jul 2024	4	13.46	84.17	6.7	33.53	8.0	25.2	1.66
C6	31 Jul 2024	5	13.20	89.73	6.2	33.50	7.9	25.2	1.37
C6	31 Jul 2024	6	12.99	91.78	6.0	33.50	7.9	25.2	1.27
C6	31 Jul 2024	7	12.83	93.06	5.9	33.49	7.9	25.3	1.28
C6	31 Jul 2024	8	12.82	93.67	5.9	33.49	7.9	25.3	1.31
C6	31 Jul 2024	9	12.82	93.87	5.9	33.49	7.9	25.3	1.10
C6	31 Jul 2024	10	12.83	93.99	5.9	33.49	7.9	25.3	1.13
C7	01 Jul 2024	1	20.93	85.28	10.4	33.60	8.4	23.4	1.61
C7	01 Jul 2024	2	20.92	85.43	10.4	33.60	8.4	23.4	1.66
C7	01 Jul 2024	3	20.84	85.40	10.3	33.60	8.4	23.5	1.74
C7	01 Jul 2024	4	18.86	84.99	10.1	33.75	8.4	24.1	2.10
C7	01 Jul 2024	5	16.85	84.09	10.1	33.58	8.3	24.5	3.50
C7	01 Jul 2024	6	15.58	82.55	9.9	33.59	8.2	24.8	5.10
C7	01 Jul 2024	7	13.91	88.36	9.7	33.52	8.2	25.1	3.65
C7	01 Jul 2024	8	13.43	91.87	9.1	33.45	8.1	25.1	2.33
C7	01 Jul 2024	9	12.91	92.31	8.5	33.42	8.1	25.2	2.62
C7	01 Jul 2024	10	12.67	90.99	8.1	33.40	8.0	25.2	3.68
C7	01 Jul 2024	11	12.60	90.39	7.9	33.40	8.0	25.2	4.40
C7	01 Jul 2024	12	12.55	90.07	7.8	33.41	8.0	25.2	4.70
C7	01 Jul 2024	13	12.68	89.75	7.1	33.47	8.0	25.3	4.93
C7	01 Jul 2024	14	12.79	89.33	6.3	33.55	7.9	25.3	5.07
C7	01 Jul 2024	15	12.70	88.79	5.5	33.63	7.8	25.4	5.58
C7	01 Jul 2024	16	12.37	88.70	5.2	33.64	7.8	25.5	5.53
C7	01 Jul 2024	17	11.92	88.85	4.8	33.67	7.8	25.6	4.77
C7	01 Jul 2024	18	11.84	90.02	4.5	33.66	7.7	25.6	3.82

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C7	08 Jul 2024	1	21.71	86.32	8.6	33.57	8.3	23.2	2.14
C7	08 Jul 2024	2	21.58	84.92	8.6	33.57	8.3	23.2	2.53
C7	08 Jul 2024	3	21.37	84.31	8.6	33.58	8.3	23.3	2.81
C7	08 Jul 2024	4	20.74	83.51	8.9	33.58	8.3	23.5	3.19
C7	08 Jul 2024	5	19.94	81.94	9.5	33.56	8.3	23.7	3.42
C7	08 Jul 2024	6	18.71	82.97	10.1	33.56	8.3	24.0	3.68
C7	08 Jul 2024	7	17.55	83.57	10.3	33.57	8.3	24.3	4.65
C7	08 Jul 2024	8	16.38	82.04	10.5	33.51	8.3	24.5	6.89
C7	08 Jul 2024	9	15.92	80.80	10.2	33.49	8.3	24.6	8.74
C7	08 Jul 2024	10	15.13	79.51	9.8	33.49	8.2	24.8	8.48
C7	08 Jul 2024	11	14.75	80.92	9.3	33.47	8.2	24.8	8.19
C7	08 Jul 2024	12	14.40	83.03	8.7	33.47	8.2	24.9	8.33
C7	08 Jul 2024	13	13.99	83.70	8.0	33.49	8.1	25.0	7.55
C7	08 Jul 2024	14	13.19	85.48	7.4	33.51	8.0	25.2	6.09
C7	08 Jul 2024	15	12.86	87.98	7.0	33.49	8.0	25.3	4.26
C7	08 Jul 2024	16	12.59	91.12	6.7	33.49	8.0	25.3	2.88
C7	08 Jul 2024	17	12.51	93.50	6.4	33.50	7.9	25.3	2.18
C7	08 Jul 2024	18	12.50	94.45	6.2	33.51	7.9	25.3	1.58
C7	16 Jul 2024	1	19.79	70.30	10.0	33.60	8.3	23.8	6.06
C7	16 Jul 2024	2	19.77	69.96	9.9	33.60	8.3	23.8	6.32
C7	16 Jul 2024	3	19.72	70.50	9.8	33.59	8.3	23.8	6.19
C7	16 Jul 2024	4	19.53	70.77	9.7	33.57	8.3	23.8	6.27
C7	16 Jul 2024	5	19.08	71.51	9.6	33.53	8.3	23.9	6.51
C7	16 Jul 2024	6	18.91	74.54	9.5	33.51	8.3	23.9	7.43
C7	16 Jul 2024	7	18.85	75.12	9.4	33.53	8.3	23.9	8.77
C7	16 Jul 2024	8	18.90	72.04	9.1	33.57	8.3	24.0	10.76
C7	16 Jul 2024	9	18.10	67.04	8.6	33.62	8.2	24.2	12.47
C7	16 Jul 2024	10	17.88	64.95	8.3	33.62	8.2	24.2	11.82
C7	16 Jul 2024	11	17.84	67.70	8.0	33.61	8.2	24.2	11.25
C7	16 Jul 2024	12	17.61	69.49	7.4	33.61	8.2	24.3	9.02
C7	16 Jul 2024	13	16.41	72.74	6.6	33.62	8.1	24.6	5.95
C7	16 Jul 2024	14	15.40	83.17	5.9	33.63	8.0	24.8	2.95
C7	16 Jul 2024	15	15.45	89.81	5.3	33.59	8.0	24.8	1.73
C7	16 Jul 2024	16	13.95	91.35	4.8	33.68	7.9	25.2	1.14
C7	16 Jul 2024	17	13.66	92.27	4.5	33.65	7.8	25.2	0.61
C7	16 Jul 2024	18	13.59	91.83	4.4	33.65	7.8	25.2	0.40
C7	23 Jul 2024	1	20.32	74.05	8.6	33.56	8.3	23.6	2.58
C7	23 Jul 2024	2	18.01	73.99	8.8	33.58	8.3	24.2	2.95
C7	23 Jul 2024	3	17.43	74.69	8.9	33.50	8.2	24.3	3.48
C7	23 Jul 2024	4	16.68	75.18	8.8	33.51	8.2	24.4	4.15
C7	23 Jul 2024	5	15.70	75.68	8.6	33.48	8.2	24.6	5.05
C7	23 Jul 2024	6	15.17	75.70	8.3	33.47	8.2	24.8	6.97
C7	23 Jul 2024	7	14.69	74.49	8.2	33.46	8.1	24.9	8.81
C7	23 Jul 2024	8	14.29	75.98	7.9	33.45	8.1	24.9	7.45
C7	23 Jul 2024	9	14.10	81.91	7.7	33.44	8.1	25.0	5.98
C7	23 Jul 2024	10	14.08	84.10	7.6	33.44	8.1	25.0	5.35
C7	23 Jul 2024	11	14.03	84.63	7.5	33.44	8.1	25.0	4.71
C7	23 Jul 2024	12	13.69	85.34	7.3	33.46	8.1	25.1	3.79
C7	23 Jul 2024	13	13.79	87.94	7.0	33.46	8.0	25.0	3.54
C7	23 Jul 2024	14	12.97	90.22	6.6	33.48	8.0	25.2	2.82
C7	23 Jul 2024	15	12.59	91.17	6.2	33.49	8.0	25.3	1.67
C7	23 Jul 2024	16	12.46	92.46	5.9	33.49	7.9	25.3	1.10
C7	23 Jul 2024	17	12.44	93.05	5.9	33.49	7.9	25.3	0.97
C7	23 Jul 2024	18	12.45	93.25	5.8	33.50	7.9	25.3	0.83
C7	31 Jul 2024	1	15.92	73.56	8.4	33.50	8.1	24.6	5.09
C7	31 Jul 2024	2	15.55	73.70	8.1	33.53	8.1	24.7	5.51
C7	31 Jul 2024	3	14.00	75.29	7.8	33.53	8.0	25.0	5.98
C7	31 Jul 2024	4	13.48	78.52	7.4	33.49	8.0	25.1	5.65

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C7	31 Jul 2024	5	13.28	82.26	7.1	33.48	8.0	25.2	4.83
C7	31 Jul 2024	6	13.12	86.04	6.8	33.48	8.0	25.2	4.14
C7	31 Jul 2024	7	12.92	87.58	6.6	33.48	7.9	25.2	3.70
C7	31 Jul 2024	8	12.81	89.19	6.4	33.48	7.9	25.3	3.13
C7	31 Jul 2024	9	12.74	90.11	6.2	33.48	7.9	25.3	2.81
C7	31 Jul 2024	10	12.60	90.49	6.0	33.49	7.9	25.3	2.51
C7	31 Jul 2024	11	12.44	91.86	5.8	33.50	7.9	25.3	2.08
C7	31 Jul 2024	12	12.33	92.92	5.7	33.50	7.8	25.4	1.96
C7	31 Jul 2024	13	12.30	93.52	5.5	33.51	7.8	25.4	1.70
C7	31 Jul 2024	14	12.17	93.78	5.4	33.52	7.8	25.4	1.64
C7	31 Jul 2024	15	12.13	94.20	5.3	33.52	7.8	25.4	1.55
C7	31 Jul 2024	16	12.10	94.53	5.2	33.52	7.8	25.4	1.34
C7	31 Jul 2024	17	12.06	94.98	5.1	33.52	7.8	25.4	1.11
C7	31 Jul 2024	18	12.06	95.72	5.0	33.53	7.8	25.4	1.03
C8	01 Jul 2024	1	20.90	85.48	10.2	33.59	8.4	23.4	1.65
C8	01 Jul 2024	2	20.88	85.43	10.2	33.59	8.4	23.5	1.81
C8	01 Jul 2024	3	20.77	85.23	10.1	33.59	8.4	23.5	2.04
C8	01 Jul 2024	4	19.68	85.02	10.3	33.62	8.4	23.8	3.69
C8	01 Jul 2024	5	17.90	81.02	10.4	33.60	8.3	24.2	10.95
C8	01 Jul 2024	6	15.65	71.93	10.4	33.52	8.3	24.7	9.32
C8	01 Jul 2024	7	14.88	84.97	9.9	33.46	8.2	24.8	4.43
C8	01 Jul 2024	8	14.26	89.83	9.2	33.49	8.2	25.0	3.82
C8	01 Jul 2024	9	13.47	89.83	8.5	33.47	8.1	25.1	3.79
C8	01 Jul 2024	10	13.04	89.17	8.4	33.42	8.1	25.2	5.60
C8	01 Jul 2024	11	12.83	85.88	8.0	33.42	8.0	25.2	8.43
C8	01 Jul 2024	12	12.04	78.62	7.2	33.42	8.0	25.4	12.30
C8	01 Jul 2024	13	12.03	81.37	6.9	33.43	7.9	25.4	10.91
C8	01 Jul 2024	14	12.06	84.51	6.9	33.44	7.9	25.4	9.79
C8	01 Jul 2024	15	12.08	83.41	6.8	33.48	7.9	25.4	12.97
C8	01 Jul 2024	16	12.04	75.19	6.6	33.51	7.9	25.4	13.66
C8	01 Jul 2024	17	11.86	79.10	6.6	33.55	7.9	25.5	12.41
C8	01 Jul 2024	18	11.83	80.04	5.9	33.59	7.9	25.5	12.13
C8	01 Jul 2024	19	11.59	83.56	4.6	33.67	7.7	25.6	6.79
C8	08 Jul 2024	1	22.22	83.10	8.6	33.59	8.3	23.1	2.40
C8	08 Jul 2024	2	22.20	83.14	8.6	33.59	8.3	23.1	2.56
C8	08 Jul 2024	3	22.13	83.09	8.6	33.59	8.3	23.1	2.81
C8	08 Jul 2024	4	21.64	83.18	8.6	33.60	8.3	23.3	3.03
C8	08 Jul 2024	5	20.59	82.70	9.1	33.60	8.3	23.5	3.14
C8	08 Jul 2024	6	19.03	84.92	10.4	33.53	8.3	23.9	2.97
C8	08 Jul 2024	7	18.57	86.42	10.7	33.51	8.3	24.0	3.24
C8	08 Jul 2024	8	17.60	85.76	10.7	33.52	8.3	24.2	3.93
C8	08 Jul 2024	9	16.29	85.18	10.4	33.50	8.3	24.5	4.94
C8	08 Jul 2024	10	15.65	85.65	10.0	33.45	8.2	24.6	4.64
C8	08 Jul 2024	11	14.73	87.55	10.2	33.44	8.2	24.8	4.35
C8	08 Jul 2024	12	13.94	88.56	9.9	33.42	8.2	25.0	5.25
C8	08 Jul 2024	13	13.62	87.87	9.2	33.41	8.2	25.0	6.29
C8	08 Jul 2024	14	13.47	87.07	8.2	33.46	8.1	25.1	4.88
C8	08 Jul 2024	15	13.04	88.80	7.2	33.50	8.0	25.2	2.93
C8	08 Jul 2024	16	12.42	92.55	6.4	33.53	7.9	25.4	1.71
C8	08 Jul 2024	17	12.20	94.29	5.9	33.53	7.9	25.4	1.26
C8	08 Jul 2024	18	12.13	94.56	5.7	33.53	7.9	25.4	1.17
C8	08 Jul 2024	19	12.13	94.63	5.6	33.54	7.9	25.4	0.78
C8	16 Jul 2024	1	19.80	68.50	9.8	33.60	8.3	23.7	6.24
C8	16 Jul 2024	2	19.64	68.40	9.7	33.60	8.3	23.8	6.81
C8	16 Jul 2024	3	19.28	68.73	9.6	33.56	8.3	23.9	7.46
C8	16 Jul 2024	4	19.00	71.14	9.5	33.55	8.3	23.9	8.39
C8	16 Jul 2024	5	18.68	72.80	9.4	33.57	8.3	24.0	9.67
C8	16 Jul 2024	6	18.35	71.64	9.1	33.60	8.3	24.1	11.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	16 Jul 2024	7	17.82	68.24	8.7	33.62	8.2	24.3	11.78
C8	16 Jul 2024	8	17.08	69.12	8.5	33.62	8.2	24.4	9.84
C8	16 Jul 2024	9	16.50	73.55	8.2	33.61	8.2	24.6	7.79
C8	16 Jul 2024	10	15.89	78.52	7.9	33.62	8.2	24.7	6.53
C8	16 Jul 2024	11	15.55	81.51	7.6	33.61	8.1	24.8	6.00
C8	16 Jul 2024	12	15.21	84.31	7.5	33.62	8.1	24.9	5.14
C8	16 Jul 2024	13	15.01	85.24	7.5	33.60	8.1	24.9	4.85
C8	16 Jul 2024	14	14.96	85.76	7.3	33.61	8.1	24.9	4.60
C8	16 Jul 2024	15	14.74	86.57	6.9	33.62	8.1	25.0	4.20
C8	16 Jul 2024	16	13.97	87.65	6.3	33.66	8.0	25.2	3.00
C8	16 Jul 2024	17	13.73	91.44	5.7	33.65	7.9	25.2	1.66
C8	16 Jul 2024	18	13.56	92.87	5.4	33.66	7.9	25.2	1.09
C8	16 Jul 2024	19	13.37	92.64	5.2	33.67	7.9	25.3	0.71
C8	23 Jul 2024	1	21.91	77.99	8.8	33.59	8.3	23.2	1.65
C8	23 Jul 2024	2	21.91	78.02	8.8	33.59	8.3	23.2	1.77
C8	23 Jul 2024	3	21.82	78.25	8.8	33.59	8.3	23.2	1.87
C8	23 Jul 2024	4	21.03	78.34	8.9	33.60	8.3	23.4	2.16
C8	23 Jul 2024	5	18.84	76.77	9.0	33.59	8.3	24.0	2.67
C8	23 Jul 2024	6	16.90	75.04	9.0	33.55	8.3	24.4	3.00
C8	23 Jul 2024	7	15.53	75.75	9.0	33.48	8.2	24.7	3.32
C8	23 Jul 2024	8	14.99	79.60	8.9	33.43	8.2	24.8	3.75
C8	23 Jul 2024	9	14.75	81.47	8.8	33.42	8.2	24.8	4.39
C8	23 Jul 2024	10	14.46	82.03	8.6	33.42	8.2	24.9	5.14
C8	23 Jul 2024	11	13.92	82.38	8.2	33.42	8.1	25.0	6.19
C8	23 Jul 2024	12	13.42	83.36	7.7	33.42	8.1	25.1	6.05
C8	23 Jul 2024	13	13.23	86.38	7.2	33.43	8.1	25.1	4.23
C8	23 Jul 2024	14	13.12	90.43	6.8	33.45	8.0	25.2	2.62
C8	23 Jul 2024	15	12.97	92.25	6.4	33.47	8.0	25.2	1.68
C8	23 Jul 2024	16	12.86	92.59	6.2	33.48	8.0	25.2	1.34
C8	23 Jul 2024	17	12.78	92.60	6.1	33.49	8.0	25.3	1.18
C8	23 Jul 2024	18	12.36	92.57	5.7	33.54	7.9	25.4	0.94
C8	31 Jul 2024	1	16.17	79.14	8.4	33.48	8.1	24.5	2.81
C8	31 Jul 2024	2	16.23	79.09	8.3	33.49	8.1	24.5	3.02
C8	31 Jul 2024	3	15.53	79.35	8.2	33.53	8.1	24.7	3.18
C8	31 Jul 2024	4	14.92	80.57	8.1	33.51	8.1	24.8	3.36
C8	31 Jul 2024	5	14.17	82.19	7.9	33.50	8.1	25.0	3.44
C8	31 Jul 2024	6	13.50	84.03	7.7	33.49	8.0	25.1	3.76
C8	31 Jul 2024	7	13.27	85.58	7.3	33.47	8.0	25.2	4.24
C8	31 Jul 2024	8	13.06	86.58	7.0	33.48	8.0	25.2	4.24
C8	31 Jul 2024	9	12.94	87.78	6.8	33.47	7.9	25.2	4.06
C8	31 Jul 2024	10	12.87	88.65	6.6	33.47	7.9	25.2	3.59
C8	31 Jul 2024	11	12.73	90.30	6.4	33.48	7.9	25.3	3.04
C8	31 Jul 2024	12	12.63	91.26	6.2	33.48	7.9	25.3	2.57
C8	31 Jul 2024	13	12.59	92.14	6.0	33.48	7.9	25.3	2.33
C8	31 Jul 2024	14	12.55	92.87	5.8	33.49	7.9	25.3	2.13
C8	31 Jul 2024	15	12.44	93.26	5.6	33.50	7.8	25.3	1.78
C8	31 Jul 2024	16	12.37	93.35	5.5	33.50	7.8	25.4	1.76
C8	31 Jul 2024	17	12.34	93.32	5.4	33.51	7.8	25.4	1.72
C8	31 Jul 2024	18	12.30	93.47	5.3	33.51	7.8	25.4	1.56
C8	31 Jul 2024	19	12.29	93.47	5.2	33.51	7.8	25.4	1.42

NA = not available

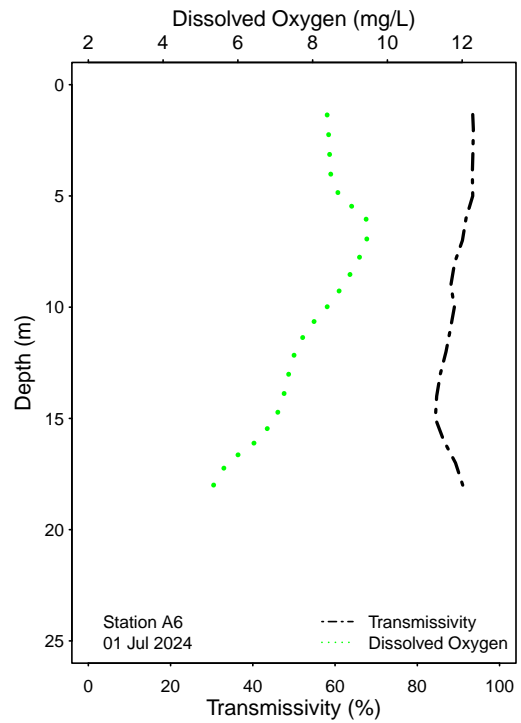
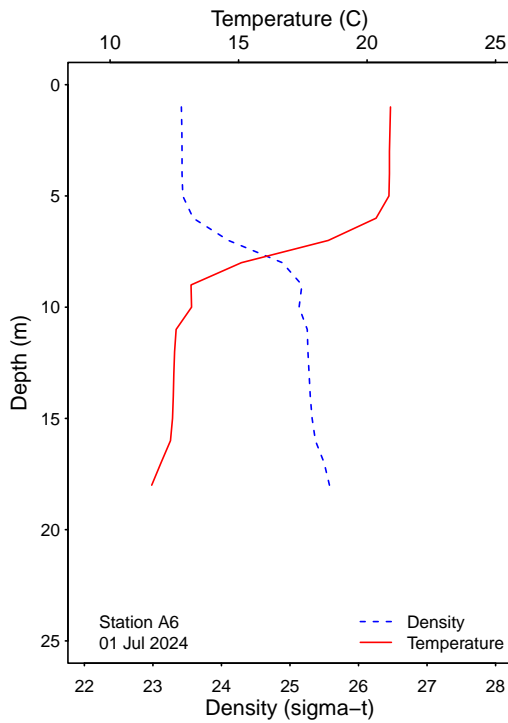
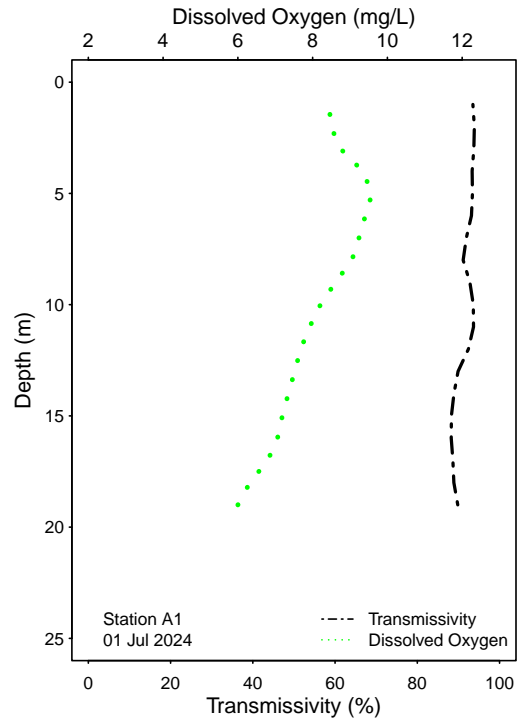
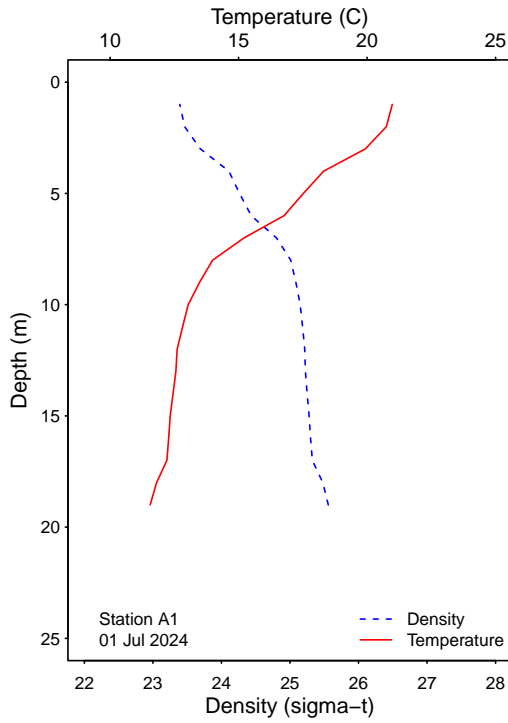


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

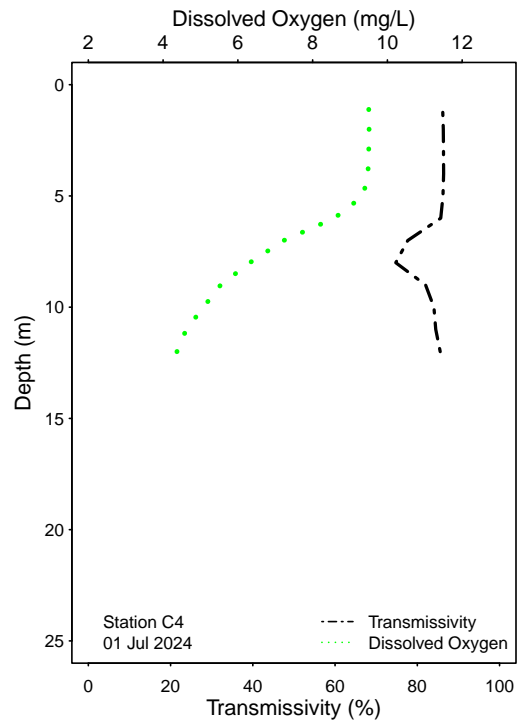
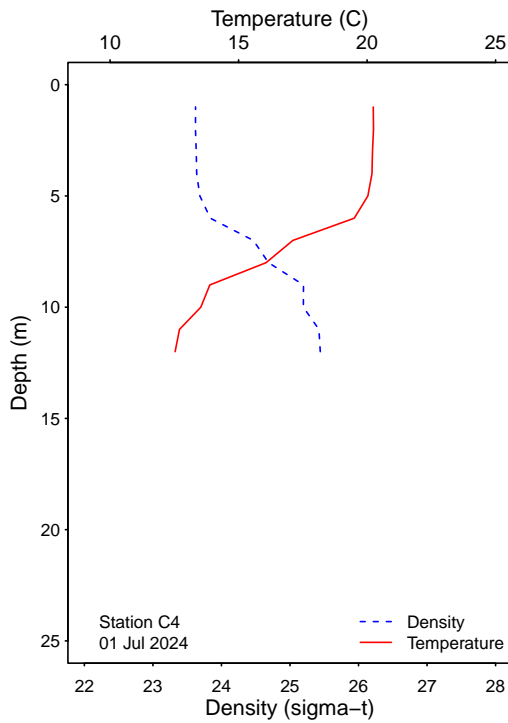
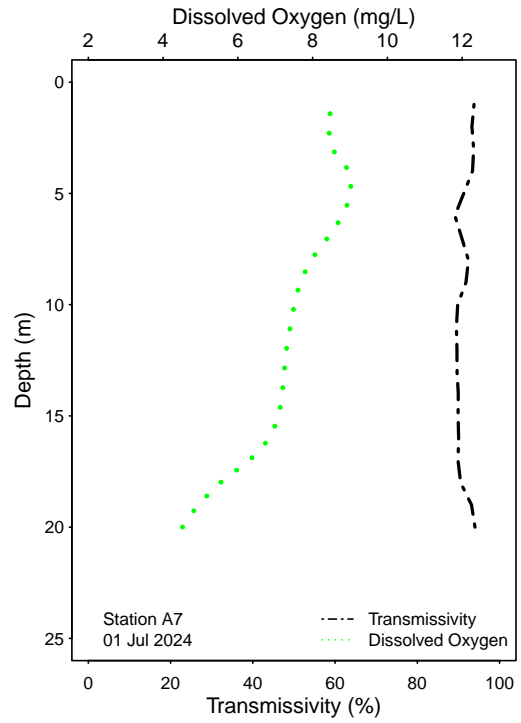
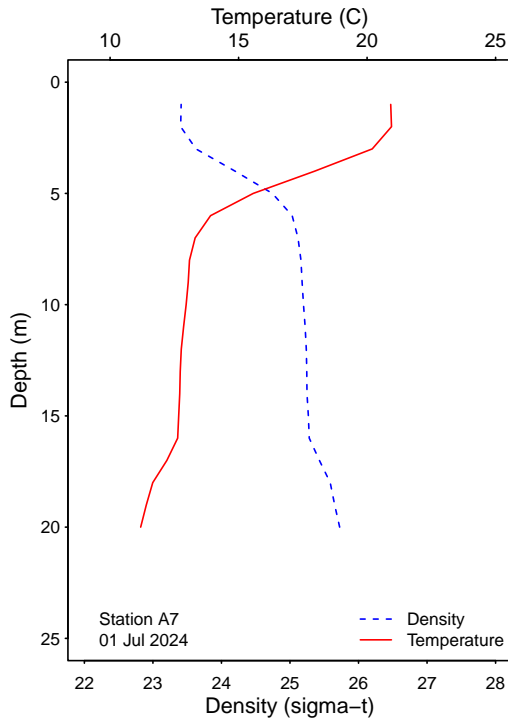


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

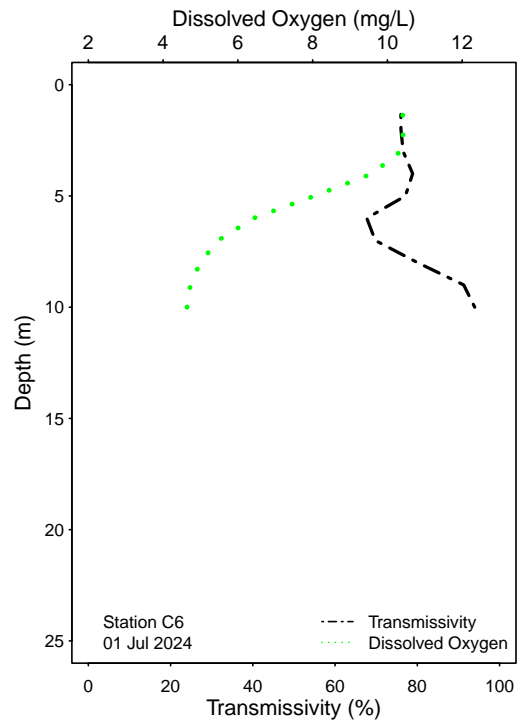
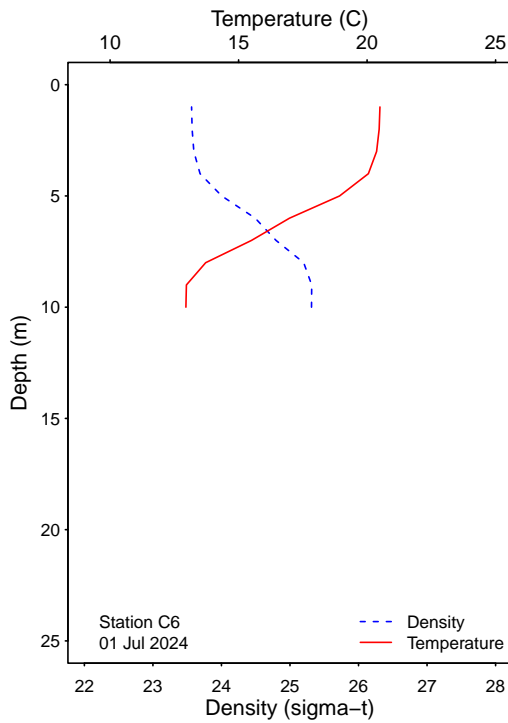
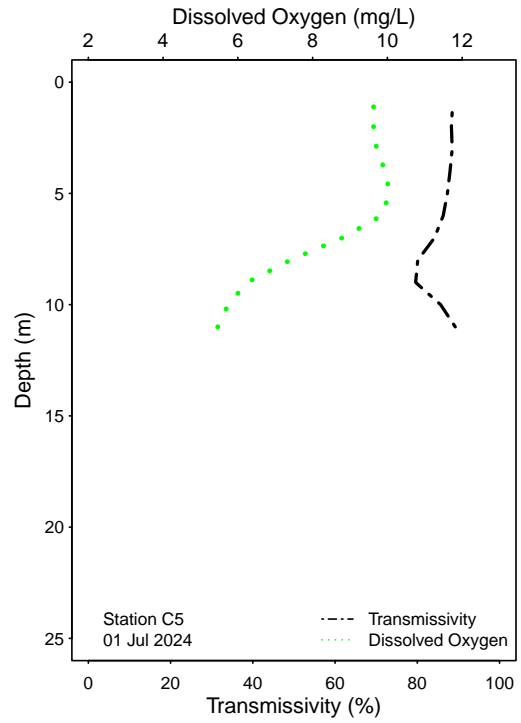
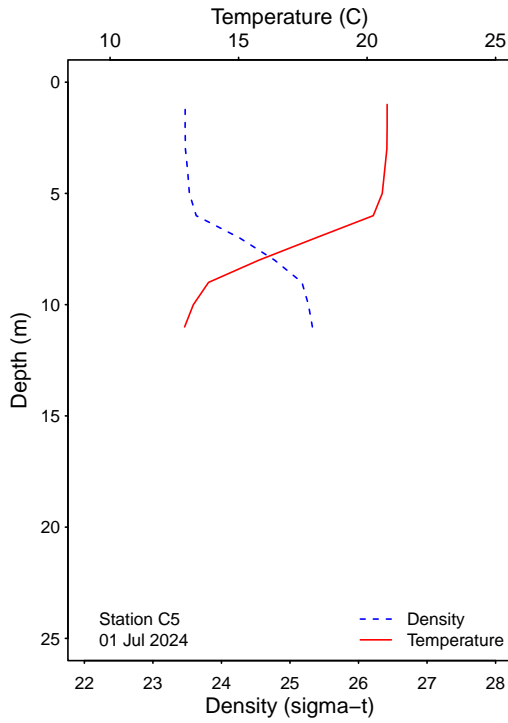


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

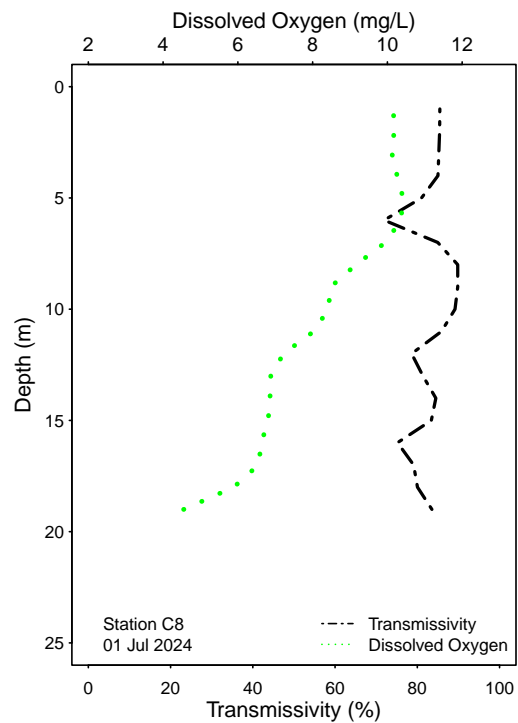
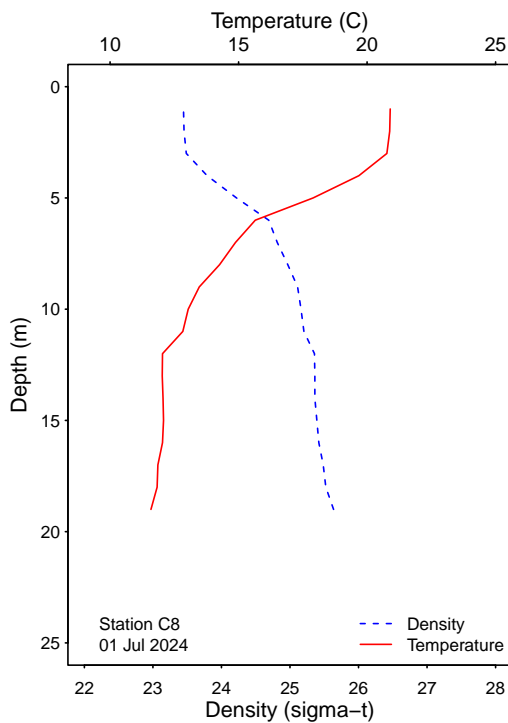
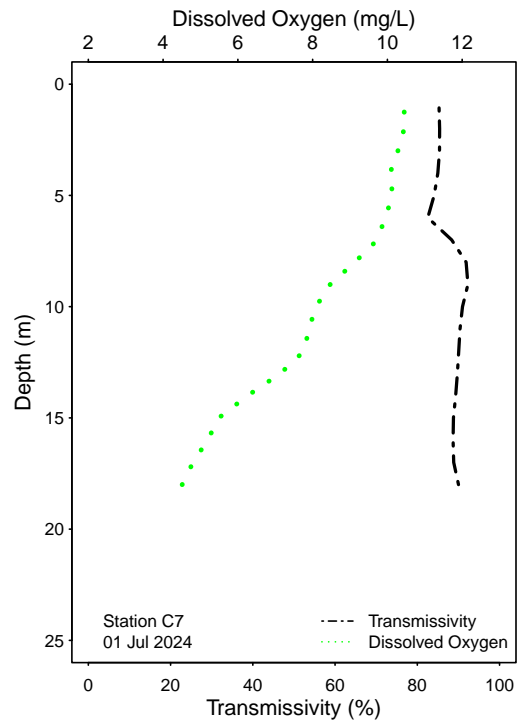
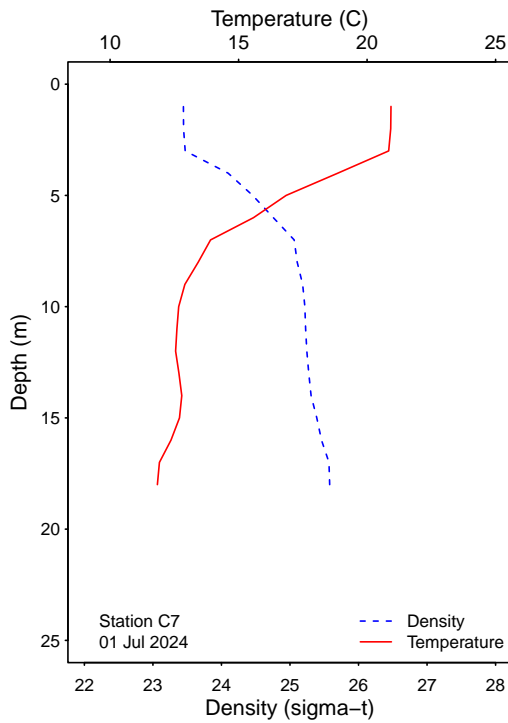


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

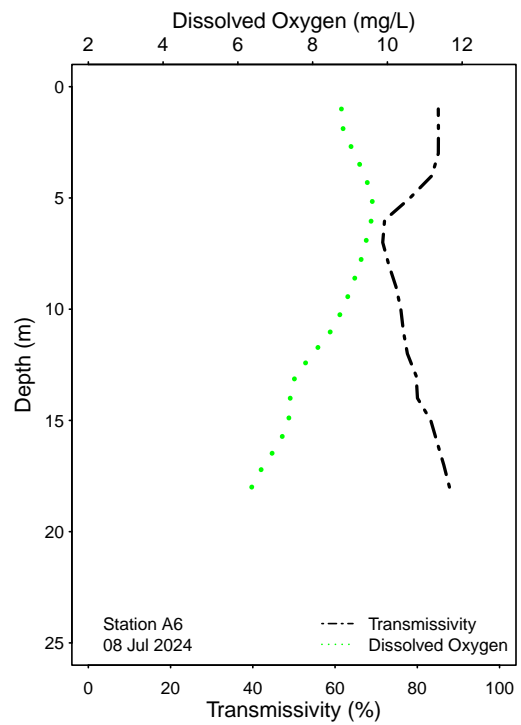
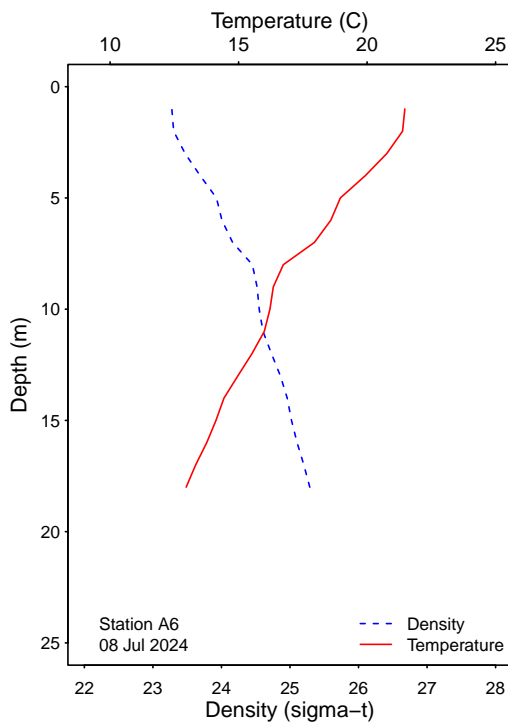
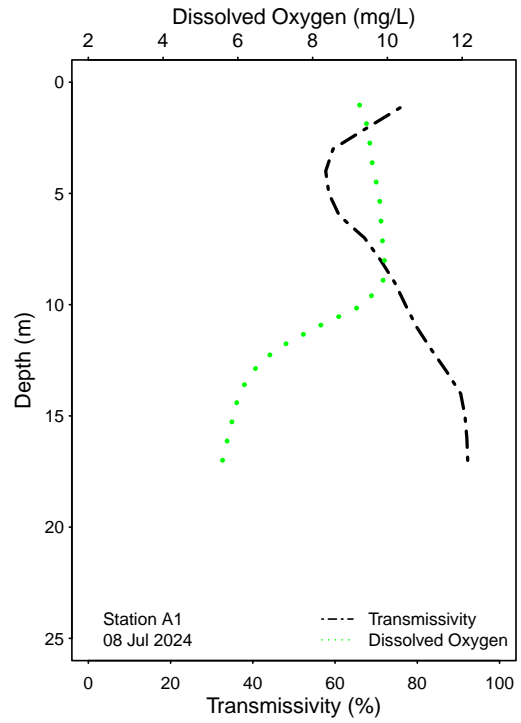
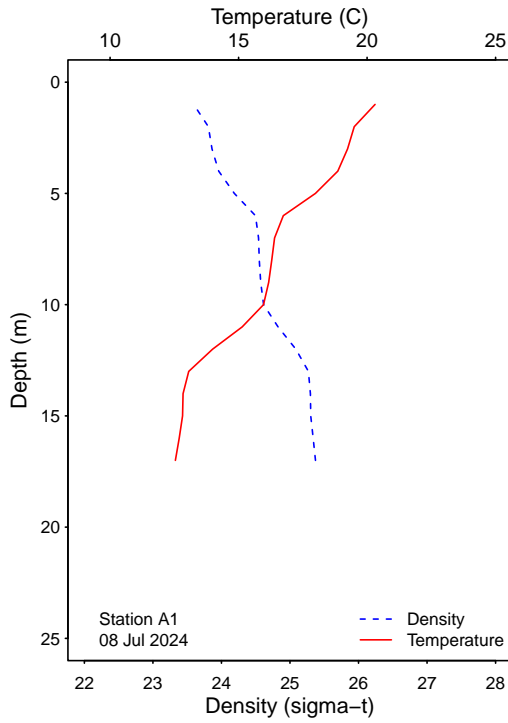


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

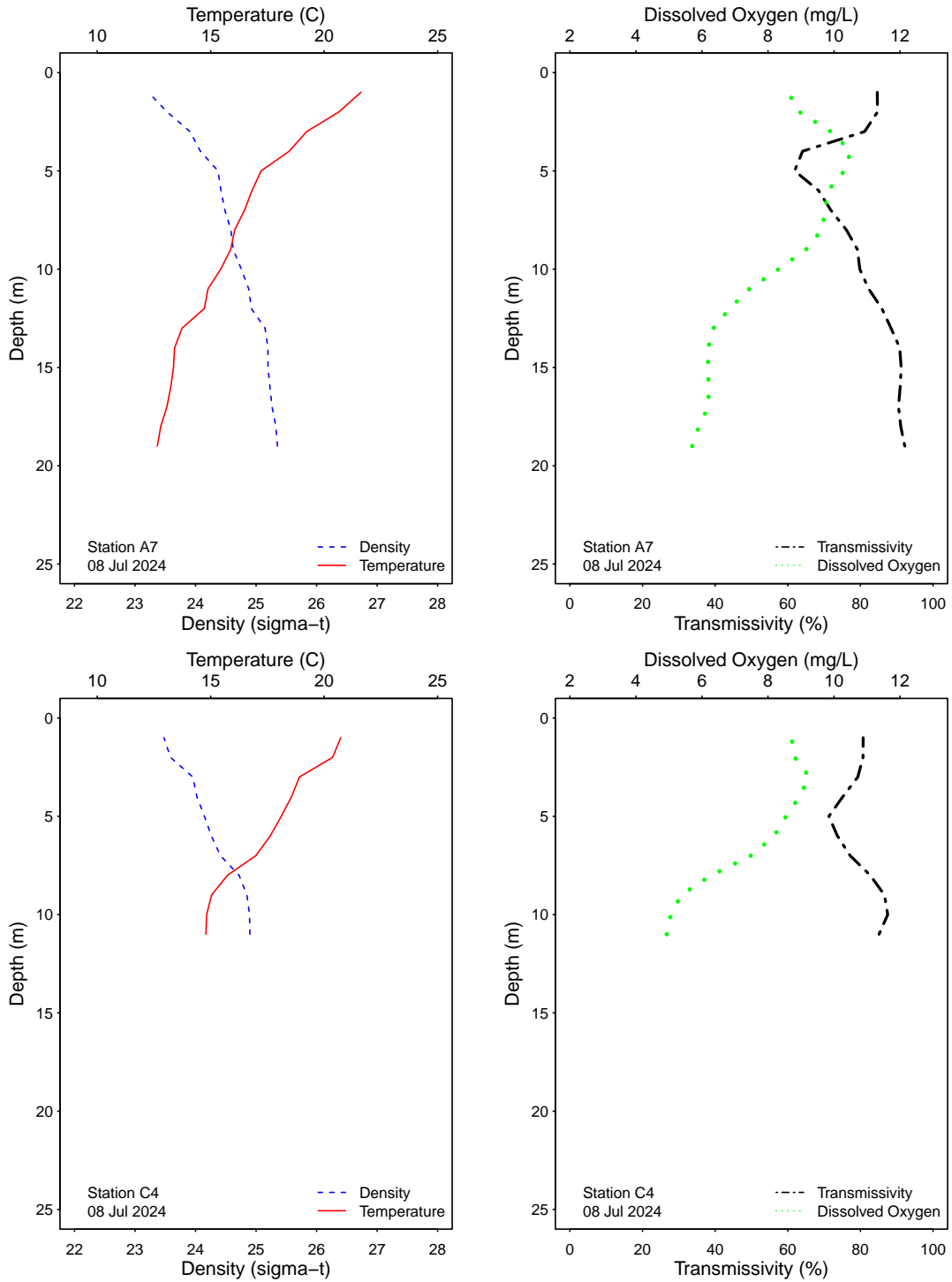


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

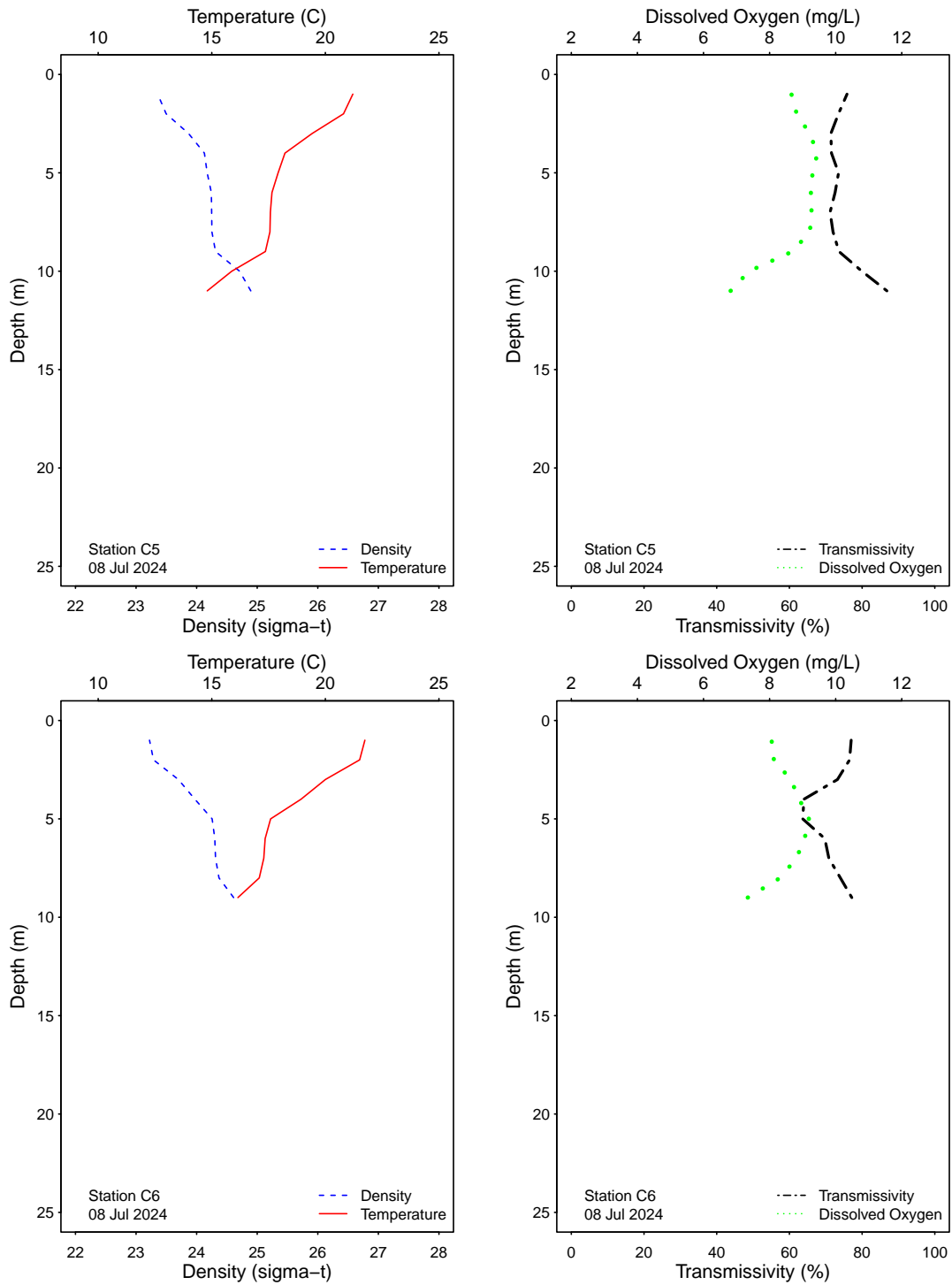


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

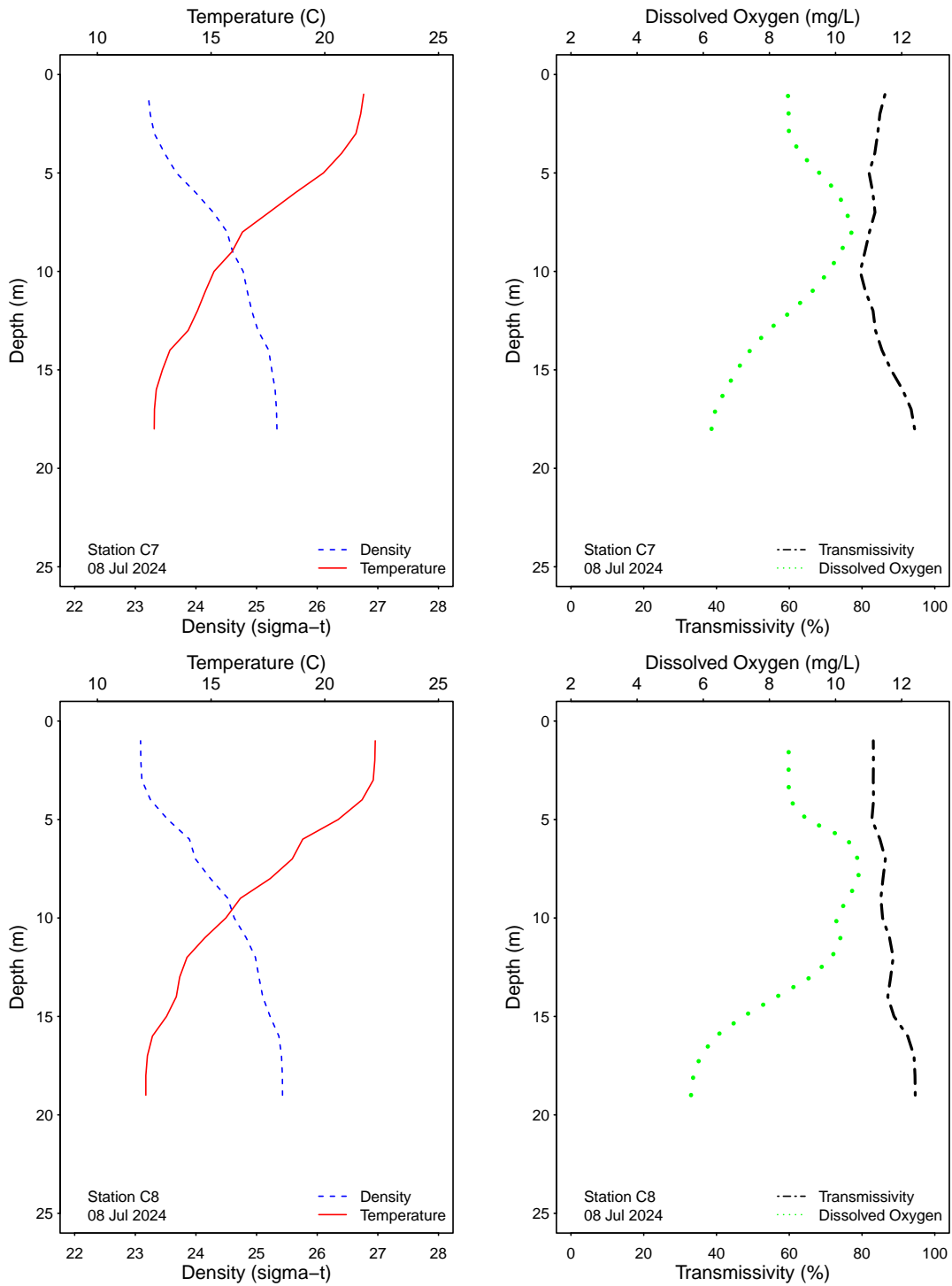


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

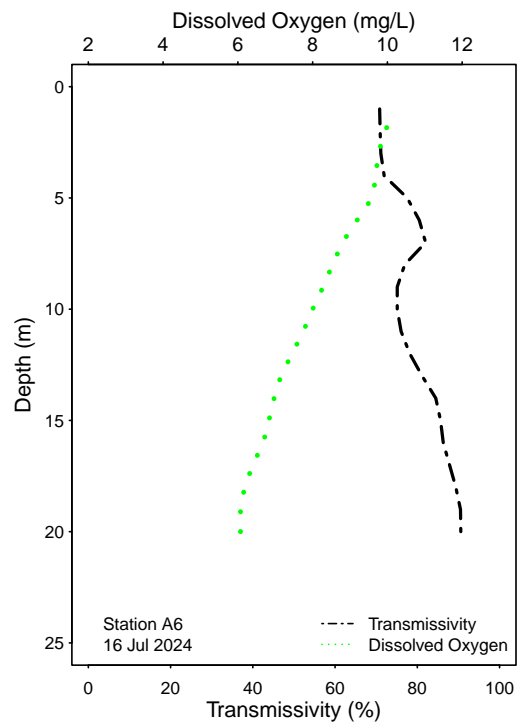
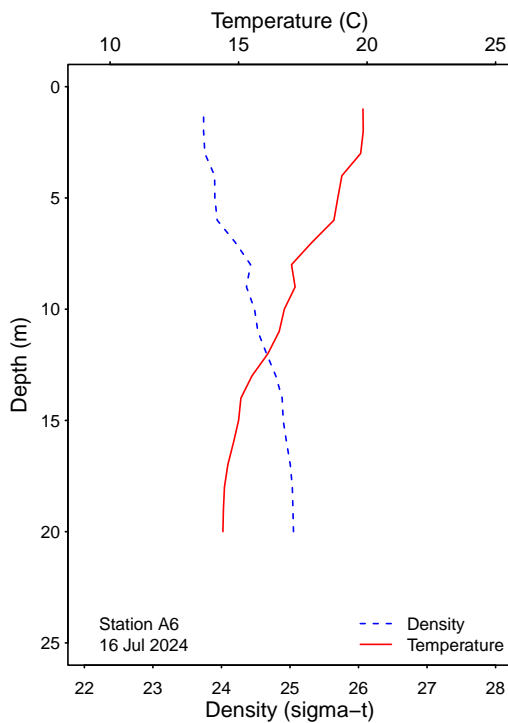
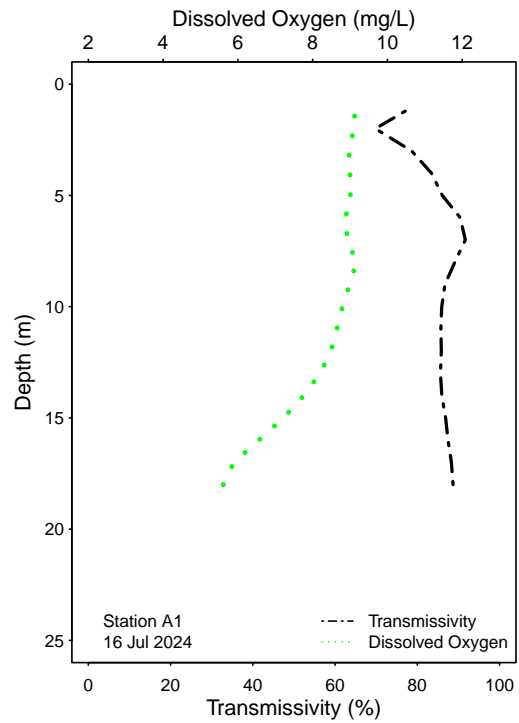
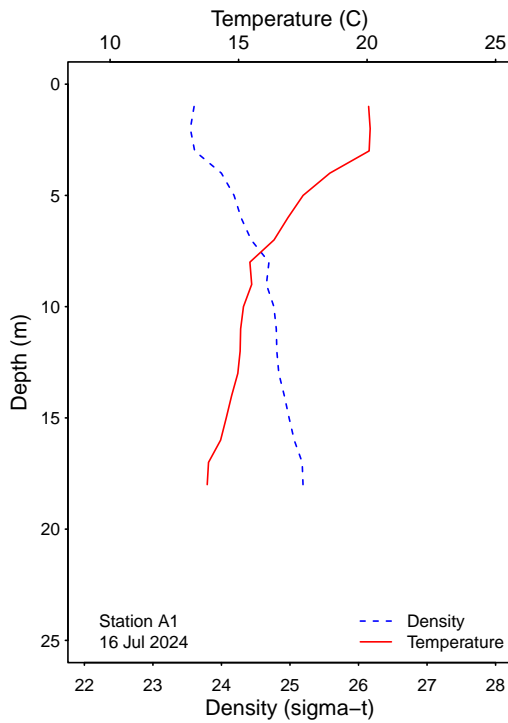


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

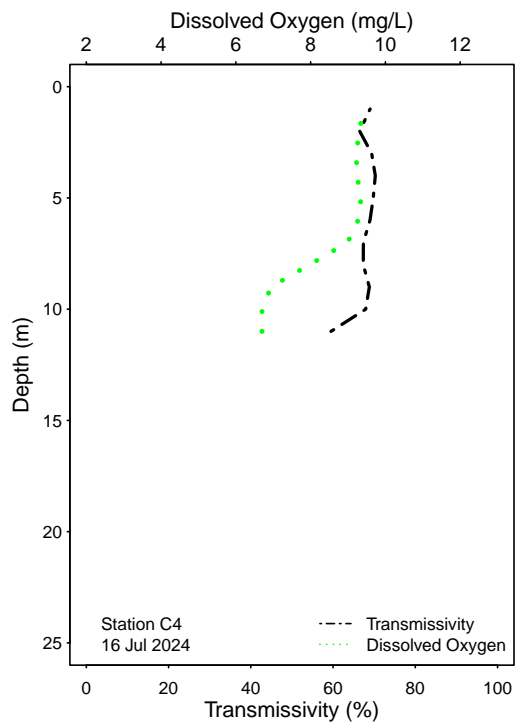
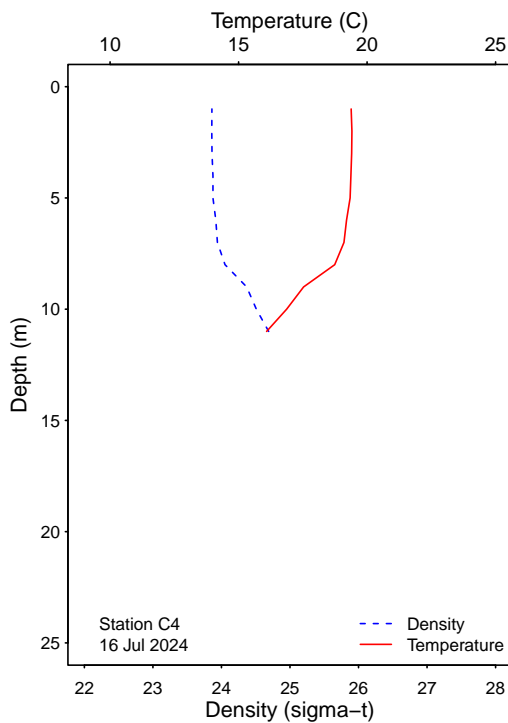
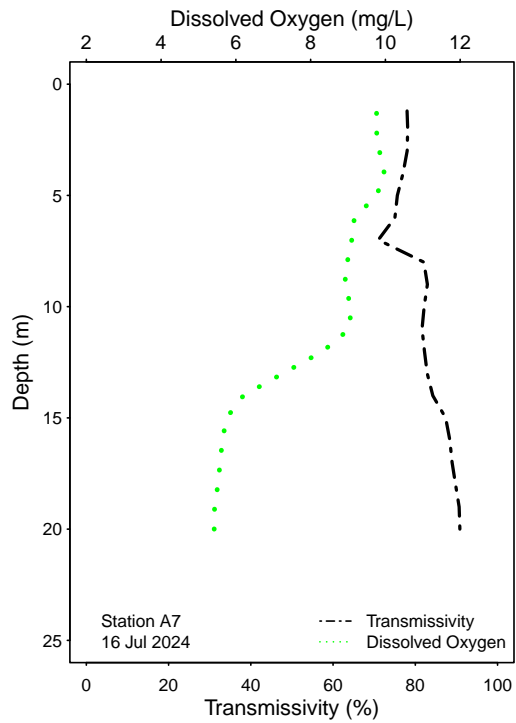
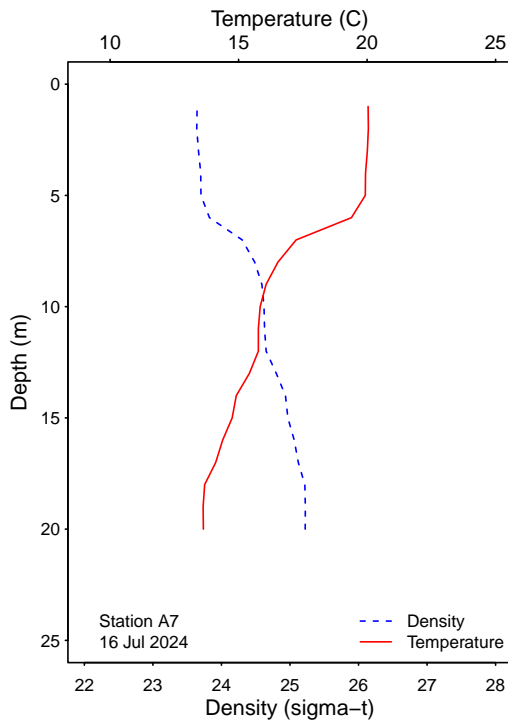


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

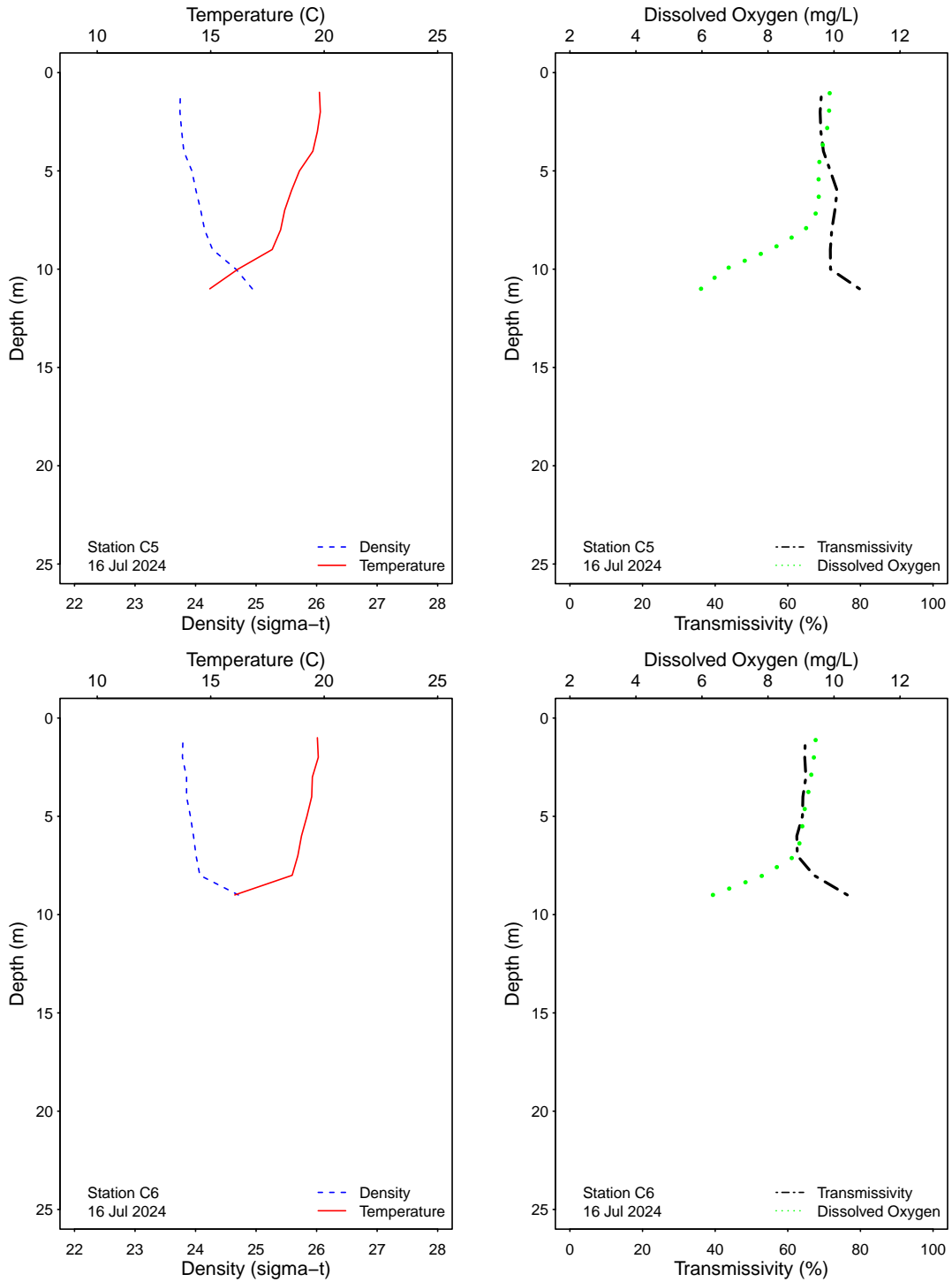


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

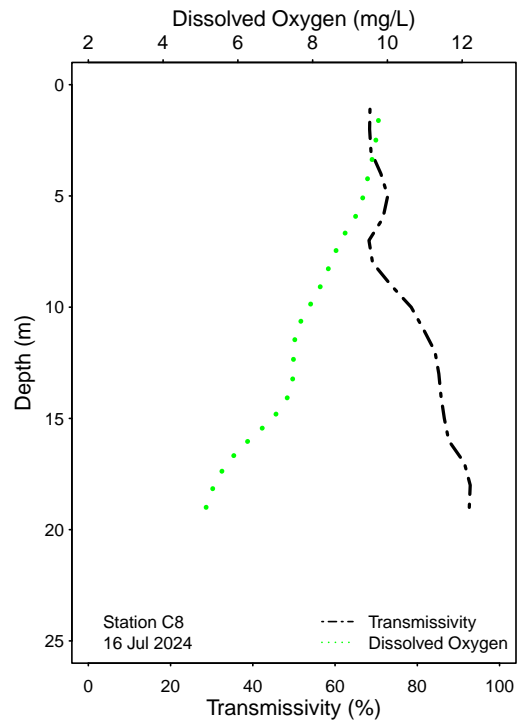
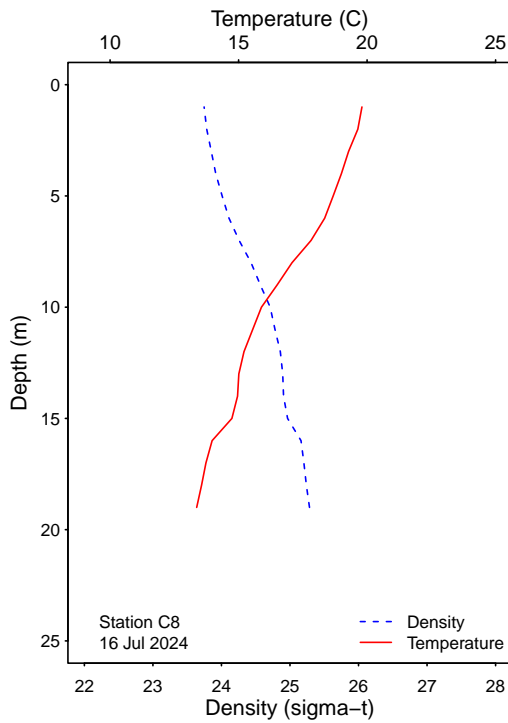
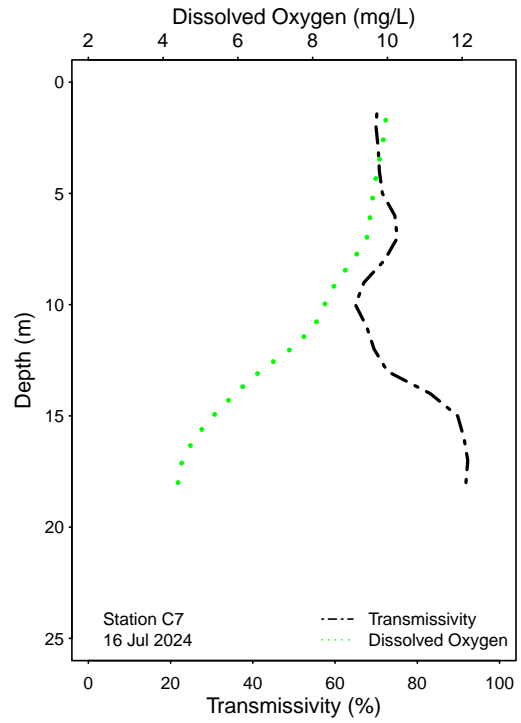
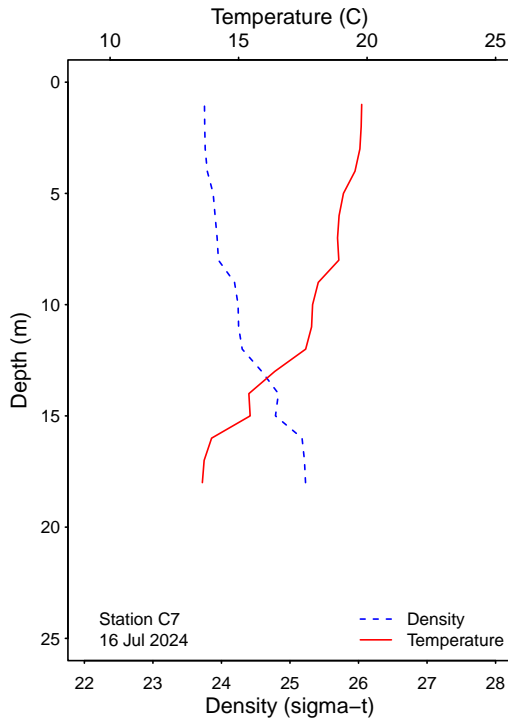


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

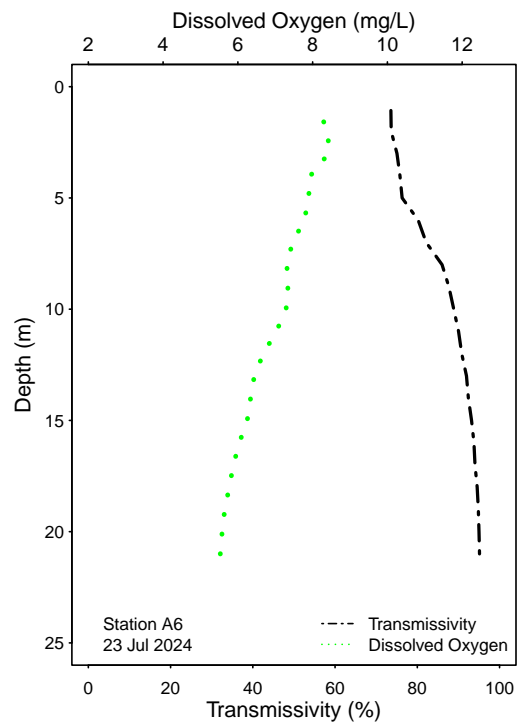
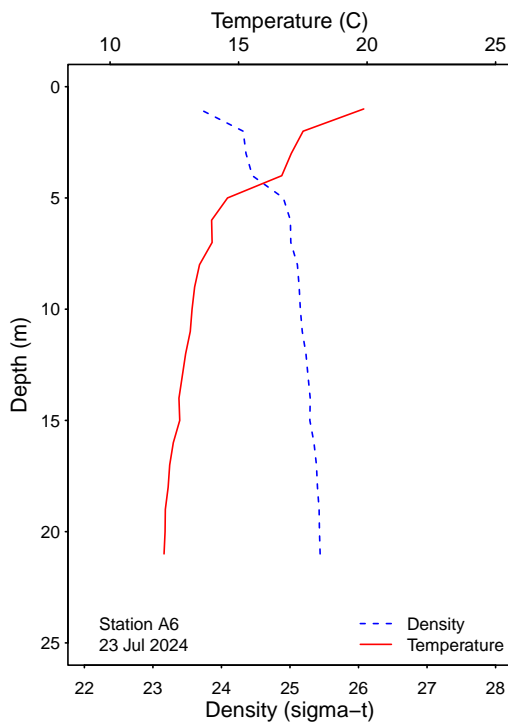
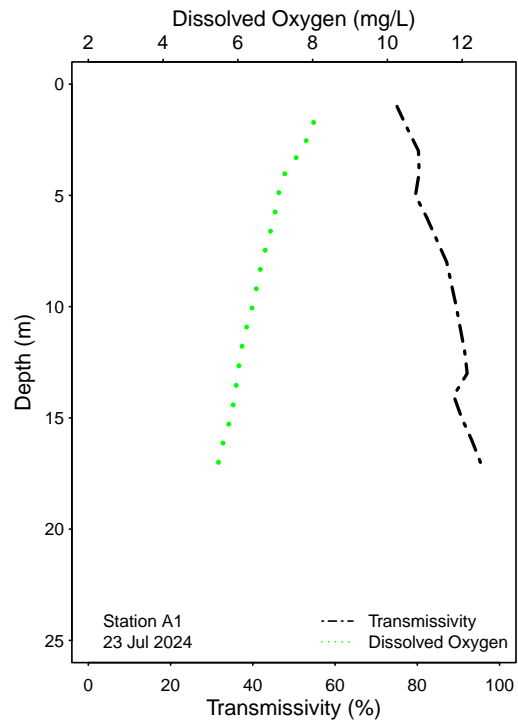
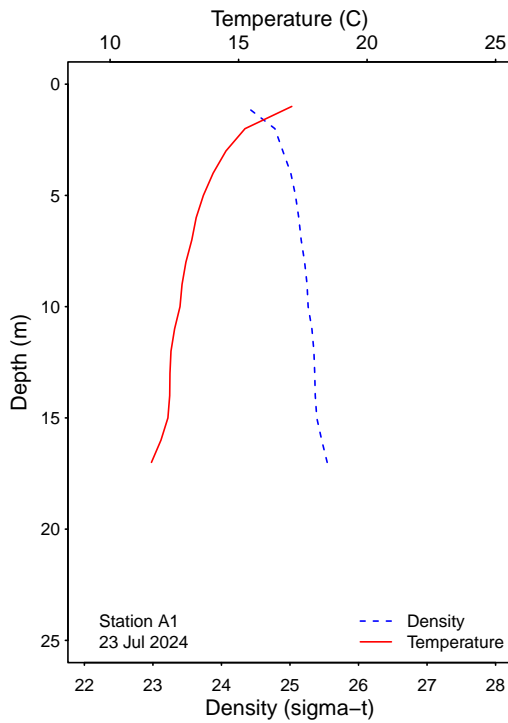


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

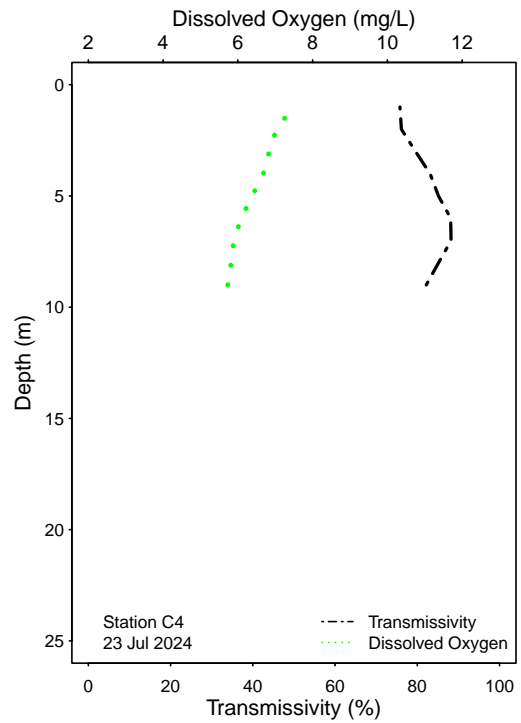
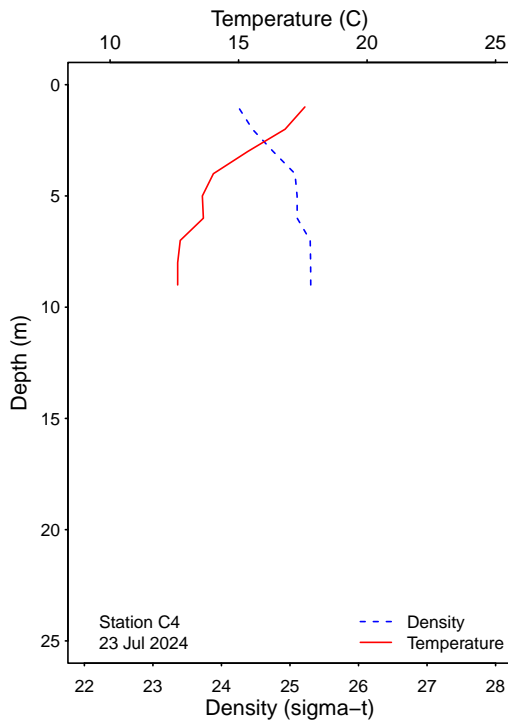
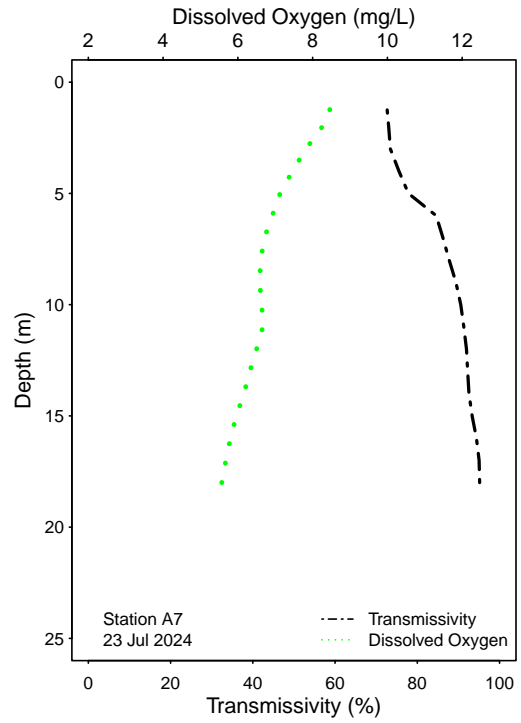
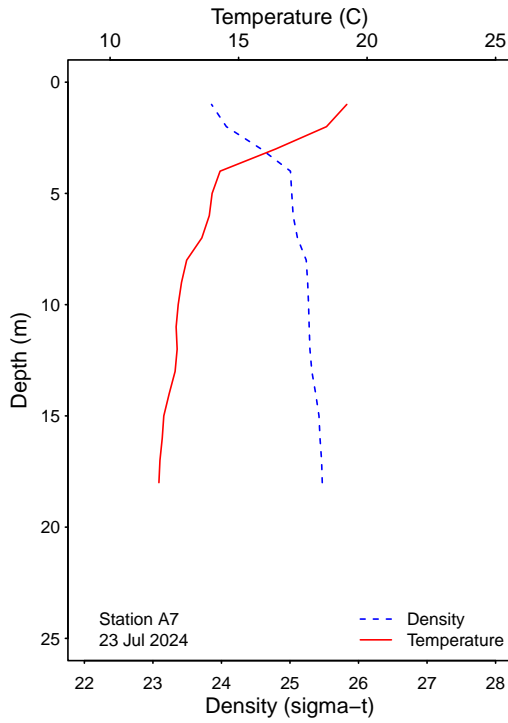


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

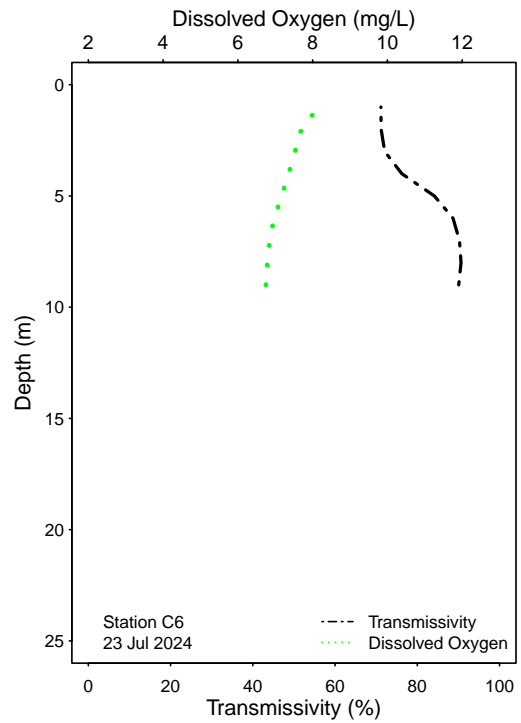
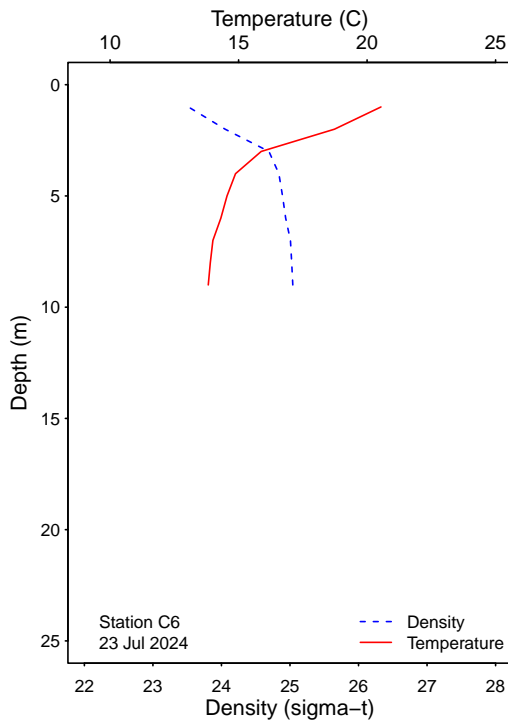
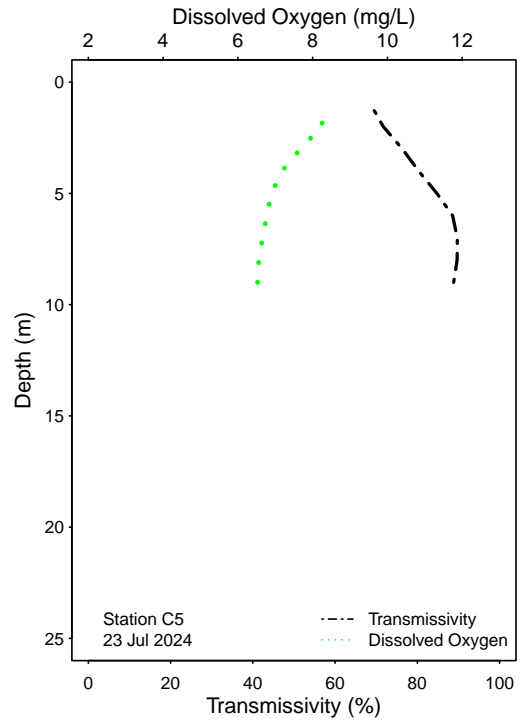
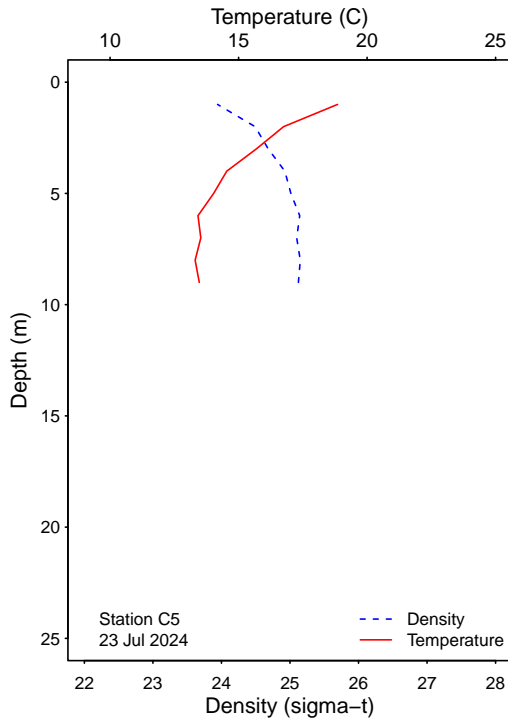


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

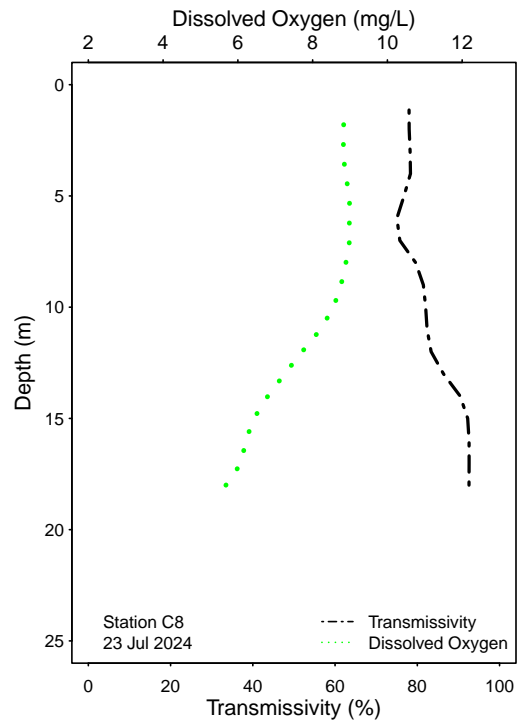
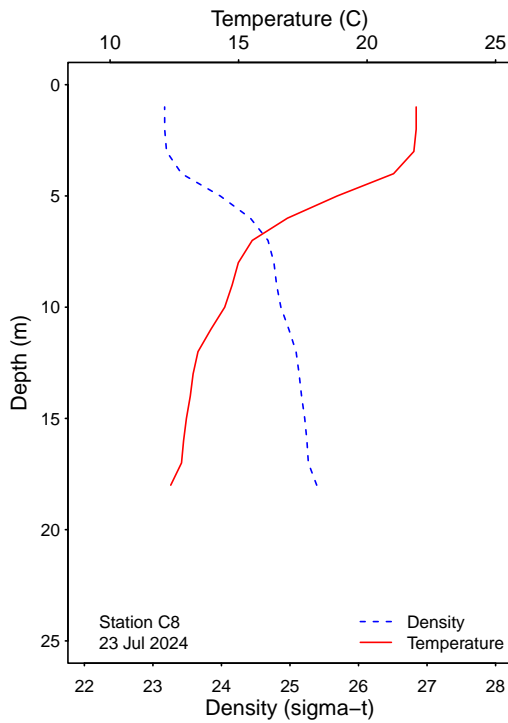
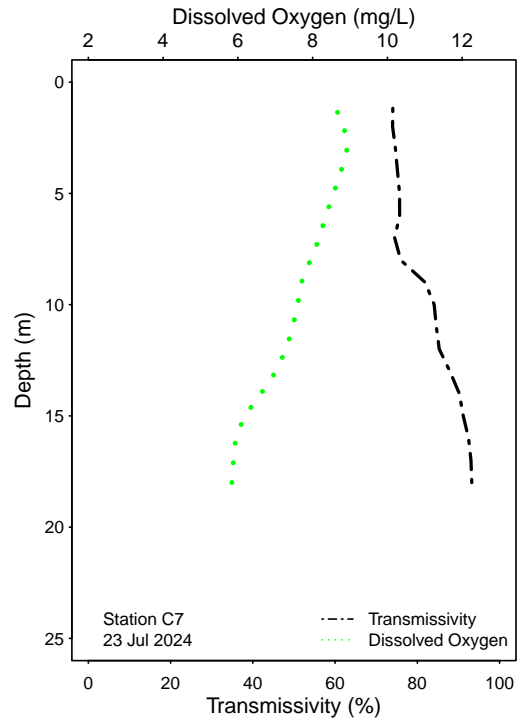
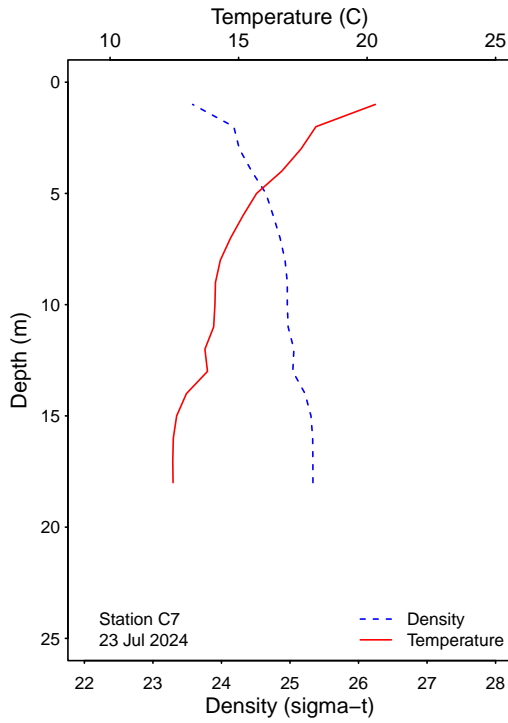


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

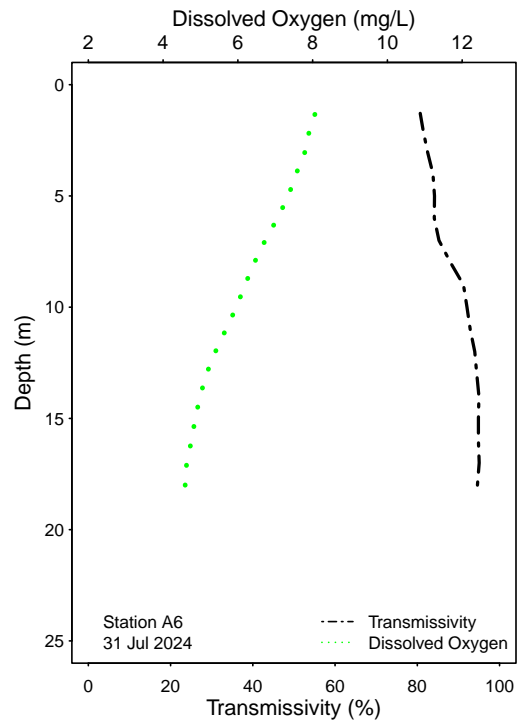
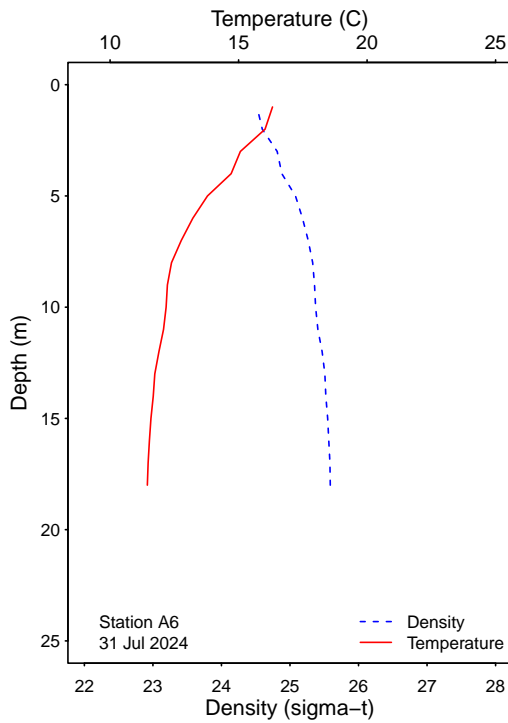
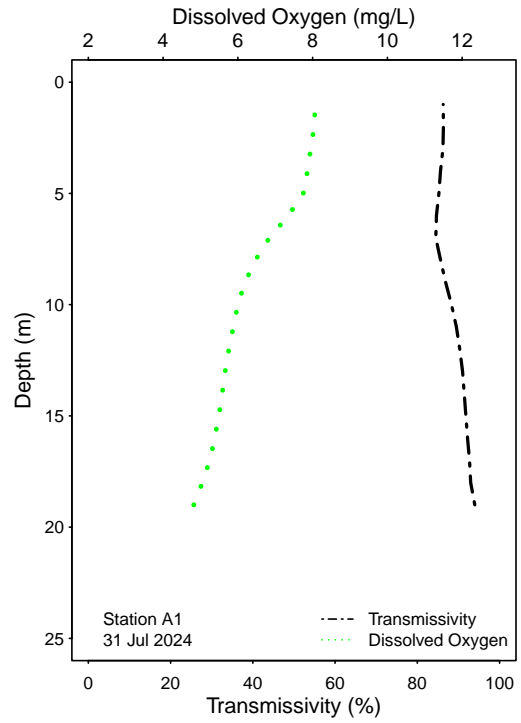
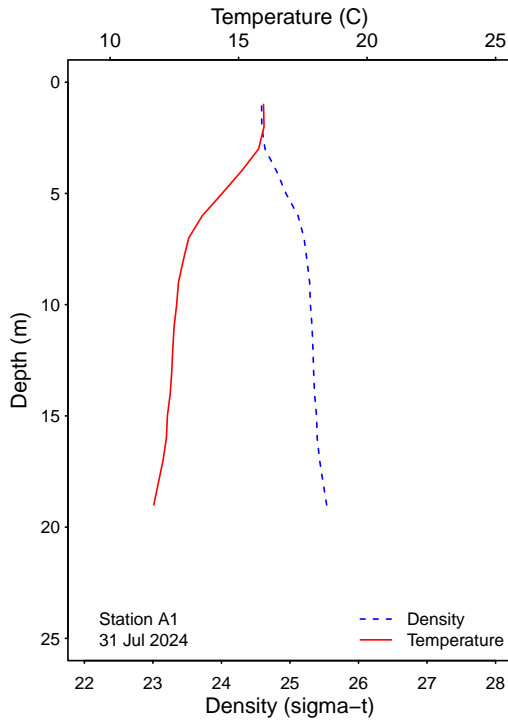


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

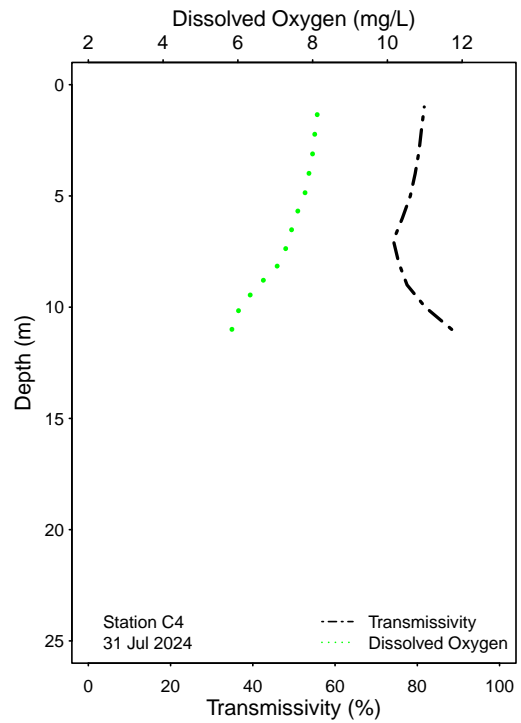
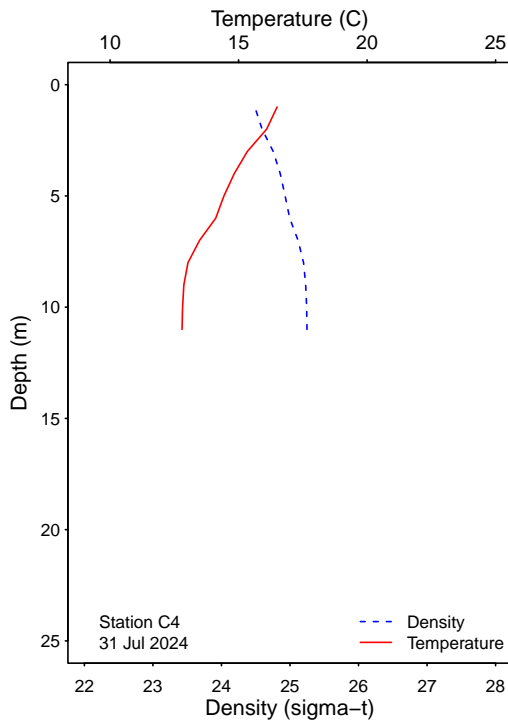
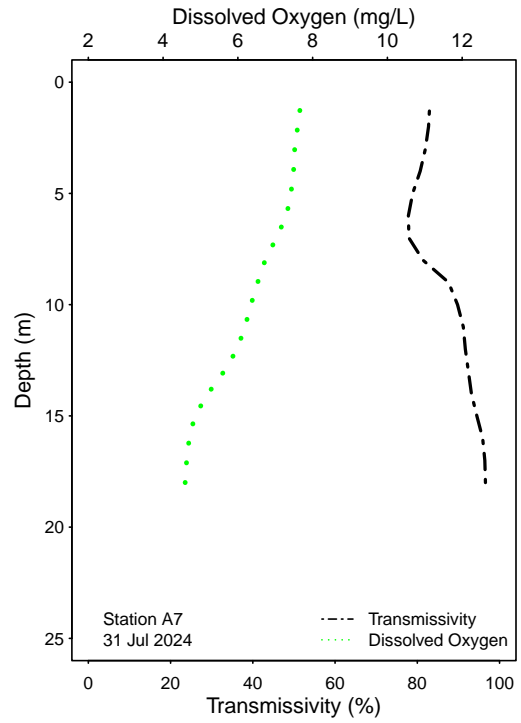
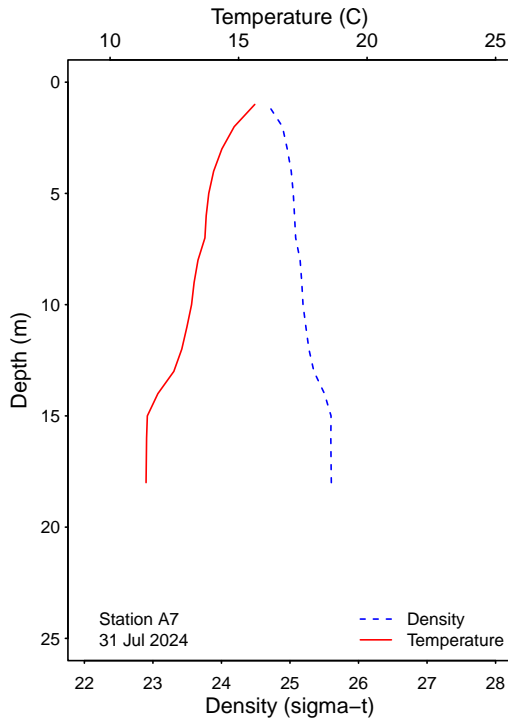


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

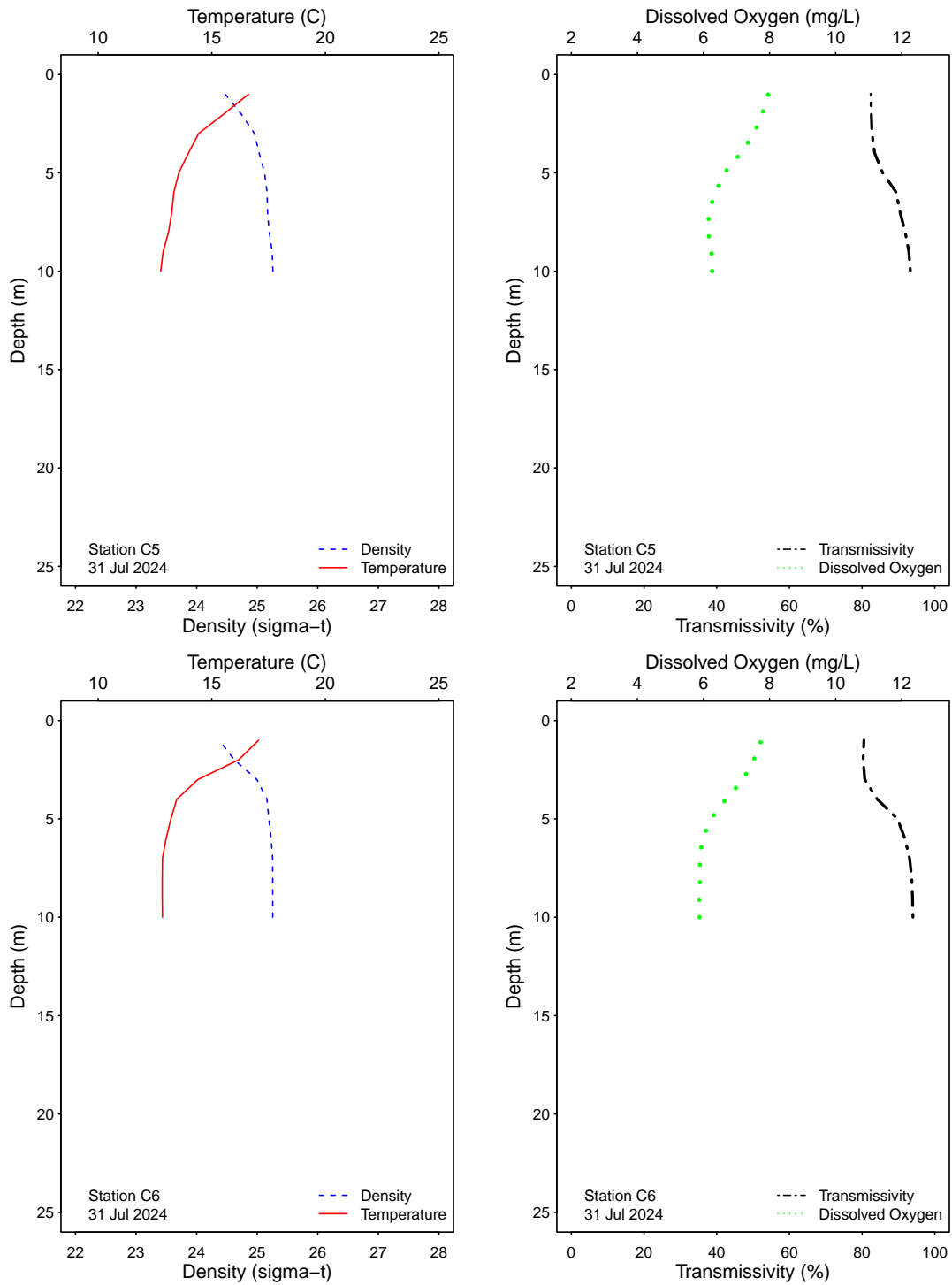


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

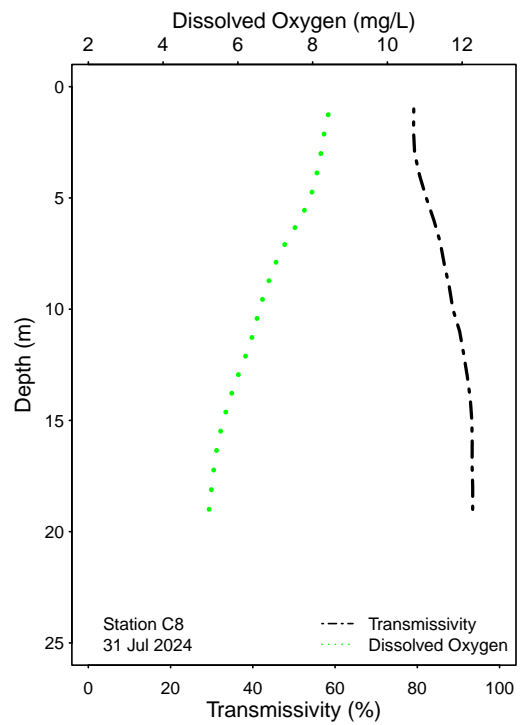
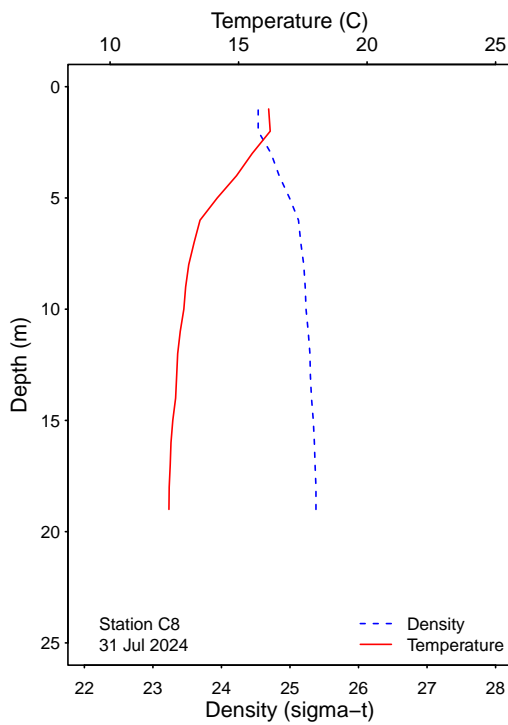
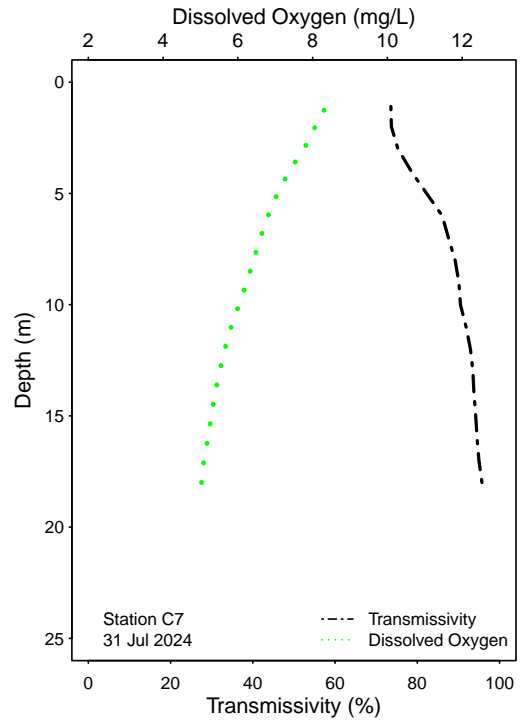
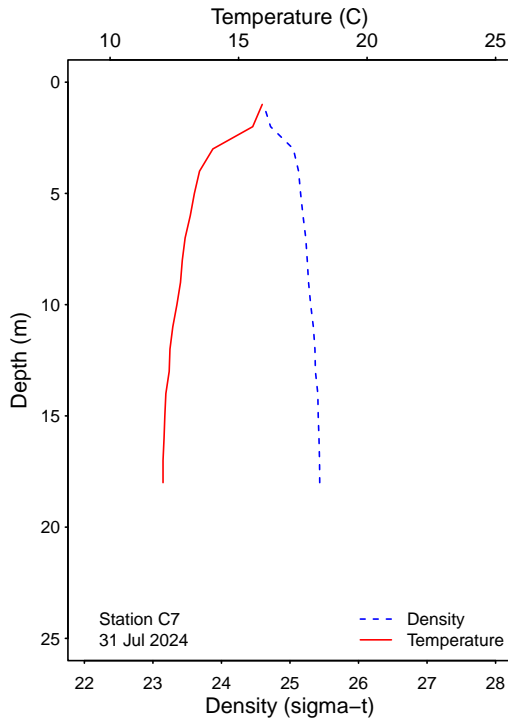


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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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	01 Jul 2024	18	KT	LAB DUPLICATE	2	2	2
A7	08 Jul 2024	18	KA	LAB DUPLICATE	2	2	2
A7	16 Jul 2024	18	JF	LAB DUPLICATE	2	2	2
A7	23 Jul 2024	18	JF	LAB DUPLICATE	2	2	2
A7	31 Jul 2024	18	KT	LAB DUPLICATE	38	8	2
C7	01 Jul 2024	18	KT	LAB DUPLICATE	2	2	2
C7	08 Jul 2024	18	KA	LAB DUPLICATE	2	2	2
C7	16 Jul 2024	18	JF	LAB DUPLICATE	2	2	2
C7	23 Jul 2024	18	JF	LAB DUPLICATE	2	2	2
C7	31 Jul 2024	18	KT	LAB DUPLICATE	2	20	2
C8	01 Jul 2024	12	KT	LAB DUPLICATE	2	2	2
C8	08 Jul 2024	12	KA	LAB DUPLICATE	2	2	2
C8	16 Jul 2024	12	JF	LAB DUPLICATE	2	2	2
C8	23 Jul 2024	12	JF	LAB DUPLICATE	2	2	2
C8	31 Jul 2024	12	KT	LAB DUPLICATE	2	2	2
D12	01 Jul 2024		JF	FIELD DUPLICATE	20	2	2
D12	01 Jul 2024		JF	LAB DUPLICATE	20	2	2
D12	10 Jul 2024		KT	FIELD DUPLICATE	20	2	2
D12	10 Jul 2024		KT	LAB DUPLICATE	20	2	2
D12	17 Jul 2024		JF	FIELD DUPLICATE	20	4	2
D12	17 Jul 2024		JF	LAB DUPLICATE	20	2	2
D12	24 Jul 2024		KA	FIELD DUPLICATE	20	2	2
D12	24 Jul 2024		KA	LAB DUPLICATE	20	2	2
D12	31 Jul 2024		KT	FIELD DUPLICATE	20	2	2
D12	31 Jul 2024		KT	LAB DUPLICATE	20	2	2

ns = not sampled

ND = no data

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APPENDIX B

New 2019 Ocean Plan
Water Quality Objectives

Shore Stations

Table B.1

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	2	3	4	3	5	3	14	5
02 Jul 2024	2	3	4	3	5	3	14	5
03 Jul 2024	2	3	5	3	5	3	17	4
04 Jul 2024	2	3	5	3	5	3	17	4
05 Jul 2024	2	3	5	3	5	3	17	4
06 Jul 2024	2	3	5	3	5	3	17	4
07 Jul 2024	2	3	5	3	5	3	17	4
08 Jul 2024	2	3	5	3	5	3	17	4
09 Jul 2024	2	3	5	3	5	3	17	4
10 Jul 2024	2	3	5	3	5	3	28	4
11 Jul 2024	2	3	5	3	5	3	28	4
12 Jul 2024	2	3	5	3	5	3	28	4
13 Jul 2024	2	3	5	3	5	3	28	4
14 Jul 2024	2	3	5	3	5	3	28	4
15 Jul 2024	2	3	5	3	5	3	28	4
16 Jul 2024	2	3	5	3	5	3	28	4
17 Jul 2024	2	2	3	2	4	3	20	3
18 Jul 2024	2	2	3	2	4	3	20	3
19 Jul 2024	2	2	3	2	4	3	20	3
20 Jul 2024	2	2	3	2	4	3	20	3
21 Jul 2024	2	2	3	2	4	3	20	3
22 Jul 2024	2	2	3	2	4	3	20	3
23 Jul 2024	2	2	3	2	4	3	20	3
24 Jul 2024	2	2	3	2	2	3	36	2
25 Jul 2024	2	2	3	2	2	3	36	2
26 Jul 2024	2	2	3	2	2	3	36	2
27 Jul 2024	2	2	3	2	2	3	36	2
28 Jul 2024	2	2	3	2	2	3	36	2
29 Jul 2024	2	2	3	2	2	3	36	2
30 Jul 2024	2	2	2	2	2	2	43	2
31 Jul 2024	2	2	2	2	2	2	31	3

* Geometric mean calculated using n<5

Table B.2

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
July	IC	IC	IC	IC	IC	IC	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table B.3

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2024	20	20	200	20	20	60	200	20
02 Jul 2024	20	20	200	20	20	60	200	20
03 Jul 2024	20	20	200	20	20	60	200	20
04 Jul 2024	20	20	200	20	20	60	200	20
05 Jul 2024	*11	*20	*110	*20	*20	*50	*140	*11
06 Jul 2024	*11	*20	*110	*20	*20	*50	*140	*11
07 Jul 2024	*11	*20	*110	*20	*20	*50	*140	*11
08 Jul 2024	*11	*20	*110	*20	*20	*50	*140	*11
09 Jul 2024	*11	*20	*110	*20	*20	*50	*140	*11
10 Jul 2024	12	20	20	20	20	40	200	20
11 Jul 2024	12	20	20	20	20	40	200	20
12 Jul 2024	*16	*20	*110	*24	*20	*46	*200	*20
13 Jul 2024	*16	*20	*110	*24	*20	*46	*200	*20
14 Jul 2024	*16	*20	*110	*24	*20	*46	*200	*20
15 Jul 2024	*16	*20	*110	*24	*20	*46	*200	*20
16 Jul 2024	*16	*20	*110	*24	*20	*46	*200	*20
17 Jul 2024	20	20	20	28	20	60	200	20
18 Jul 2024	*16	*20	*20	*44	*20	*46	*140	*20
19 Jul 2024	*16	*20	*20	*44	*20	*46	*140	*20
20 Jul 2024	*16	*20	*20	*44	*20	*46	*140	*20
21 Jul 2024	*16	*20	*20	*44	*20	*46	*140	*20
22 Jul 2024	*16	*20	*20	*44	*20	*46	*140	*20
23 Jul 2024	*16	*20	*20	*44	*20	*46	*140	*20
24 Jul 2024	20	20	20	28	20	40	200	20
25 Jul 2024	20	20	20	28	20	40	200	20
26 Jul 2024	*20	*20	*110	*24	*30	*36	*140	*20
27 Jul 2024	*20	*20	*110	*24	*30	*36	*140	*20
28 Jul 2024	*20	*20	*110	*24	*30	*36	*140	*20
29 Jul 2024	*20	*20	*110	*24	*30	*36	*140	*20
30 Jul 2024	*20	*20	*110	*24	*30	*36	*140	*20
31 Jul 2024	*20	*20	*20	*24	*40	*50	*140	*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-B	D9	D10	D11	D12
July	IC	IC	IC	IC	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 Jul 2024	2	2	2	2	2	2	2	2
02 Jul 2024	2	2	2	2	2	2	2	2
03 Jul 2024	2	2	2	2	2	2	2	2
04 Jul 2024	2	2	2	2	2	2	2	2
05 Jul 2024	2	2	2	2	2	2	2	2
06 Jul 2024	2	2	2	2	2	2	2	2
07 Jul 2024	2	2	2	2	2	2	2	2
08 Jul 2024	2	2	2	2	2	2	2	2
09 Jul 2024	2	2	2	2	2	2	2	2
10 Jul 2024	2	2	2	2	2	2	2	2
11 Jul 2024	2	2	2	2	2	2	2	2
12 Jul 2024	2	2	2	2	2	2	2	2
13 Jul 2024	2	2	2	2	2	2	2	2
14 Jul 2024	2	2	2	2	2	2	2	2
15 Jul 2024	2	2	2	2	2	2	2	2
16 Jul 2024	2	2	2	2	2	2	2	2
17 Jul 2024	2	2	2	2	2	2	2	2
18 Jul 2024	2	2	2	2	2	2	2	2
19 Jul 2024	2	2	2	2	2	2	2	2
20 Jul 2024	2	2	2	2	2	2	2	2
21 Jul 2024	2	2	2	2	2	2	2	2
22 Jul 2024	2	2	2	2	2	2	2	2
23 Jul 2024	2	2	2	2	2	2	2	2
24 Jul 2024	2	2	2	2	2	2	2	2
25 Jul 2024	2	2	2	2	2	2	2	2
26 Jul 2024	2	2	2	2	2	2	2	2
27 Jul 2024	2	2	2	2	2	2	2	2
28 Jul 2024	2	2	2	2	2	2	2	2
29 Jul 2024	2	2	2	2	2	2	2	2
30 Jul 2024	2	2	2	2	2	2	2	2
31 Jul 2024	2	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table B.6

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
July	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table B.7

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

Date	A1			A6			A7			C4			C5			C6			C7			C8		
	1m	12m	18m	1m	12m	18m	1m	12m	18m	1m	3m	9m	1m	3m	9m	1m	3m	9m	1m	12m	18m	1m	12m	18m
01 Jul 2024	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
02 Jul 2024	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
03 Jul 2024	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
04 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
05 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
06 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
07 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
08 Jul 2024	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
09 Jul 2024	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
10 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
11 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
12 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
13 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
14 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
15 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
16 Jul 2024	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
18 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
19 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
20 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
21 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
22 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
23 Jul 2024	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24 Jul 2024	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
26 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
27 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
28 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
29 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
30 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
31 Jul 2024	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2

* Median calculated using n<5

Table B.8

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

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

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