



POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

JANUARY 2023

Environmental Monitoring and Technical Services
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February 28, 2023

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the January 2023 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 2023 Quality Assurance Report, which will be completed in March 2024.

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 January 4, 11, 18, and 25.
- During January, three of the eight shore stations were out of compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - o The 30-day running geometric mean standard for *Enterococcus* was exceeded at stations D9, D10, and D11.
 - o The single sample maximum (SSM) for *Enterococcus* was exceeded at stations D9 and D11.
- A sewage-like odor was observed at station D5 on one or more days in January.
- Over the years, elevated bacteria levels at shore and kelp bed stations have tended to be associated with rainfall events, heavy recreational use, or the presence of seabirds or decaying kelp and surf grass. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (<https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports>).

Kelp Bed Stations

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled on January 4, 12, 18, 24, and 31.

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

- During January, each of the kelp stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Water column temperatures ranged from 13.04 to 14.84°C. The difference between surface and bottom waters ranged from 0.01 to 1.13°C.
- Chlorophyll *a* concentrations ranged from 0.42 to 2.94 µg/L.
- Nothing of sewage origin was observed at PLOO kelp stations in January.

Offshore Stations

- Quarterly water quality sampling was not conducted during January at the offshore stations. The next quarterly sampling is scheduled for February 2023.



TABLES AND FIGURES

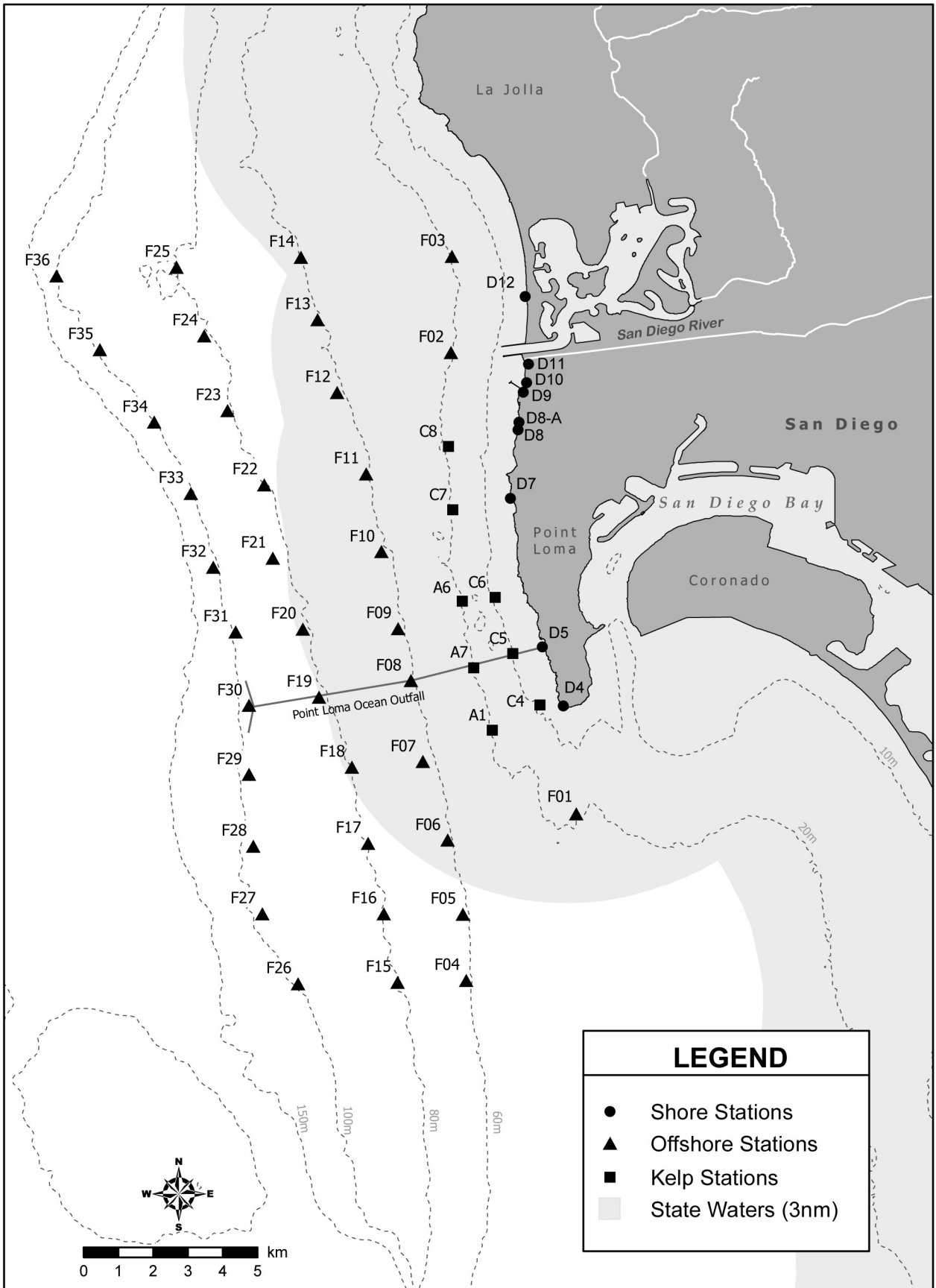


Figure 1.1 Station Map

Shore Stations

Table 2.1

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 geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jan 2023	11	36	5	29	55	60	30	13
02 Jan 2023	11	36	5	29	55	60	30	13
03 Jan 2023	11	36	5	29	55	60	30	13
04 Jan 2023	16	58	9	91	107	106	57	34
05 Jan 2023	16	58	9	91	107	106	57	34
06 Jan 2023	16	58	9	91	107	106	57	34
07 Jan 2023	16	58	9	91	107	106	57	34
08 Jan 2023	16	58	9	91	107	106	57	34
09 Jan 2023	16	58	9	91	107	106	57	34
10 Jan 2023	16	58	9	91	107	106	57	34
11 Jan 2023	17	47	11	77	95	87	70	30
12 Jan 2023	17	47	11	77	95	87	70	30
13 Jan 2023	28	58	17	82	107	71	95	34
14 Jan 2023	28	58	17	82	107	71	95	34
15 Jan 2023	28	58	17	82	107	71	95	34
16 Jan 2023	28	58	17	82	107	71	95	34
17 Jan 2023	28	58	17	82	107	71	95	34
18 Jan 2023	26	67	25	122	150	87	146	35
19 Jan 2023	26	67	25	122	150	87	146	35
20 Jan 2023	50	51	31	161	233	159	301	34
21 Jan 2023	50	51	31	161	233	159	301	34
22 Jan 2023	50	51	31	161	233	159	301	34
23 Jan 2023	50	51	31	161	233	159	301	34
24 Jan 2023	50	51	31	161	233	159	301	34
25 Jan 2023	42	42	27	92	164	167	241	22
26 Jan 2023	42	42	27	92	164	167	241	22
27 Jan 2023	28	51	30	83	118	134	213	22
28 Jan 2023	28	51	30	83	118	134	213	22
29 Jan 2023	28	51	30	83	118	134	213	22
30 Jan 2023	28	51	30	83	118	134	213	22
31 Jan 2023	28	51	30	83	118	134	213	22

* Geometric mean calculated using n<5
 ns = not sampled

Table 2.2

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jan 2023	3	2	2	13	8	7	8	3
02 Jan 2023	3	2	2	13	8	7	8	3
03 Jan 2023	3	2	2	13	8	7	8	3
04 Jan 2023	4	3	3	11	19	14	16	5
05 Jan 2023	4	3	3	11	19	14	16	5
06 Jan 2023	4	3	3	11	19	14	16	5
07 Jan 2023	4	3	3	11	19	14	16	5
08 Jan 2023	4	3	3	11	19	14	16	5
09 Jan 2023	4	3	3	11	19	14	16	5
10 Jan 2023	4	3	3	11	19	14	16	5
11 Jan 2023	3	3	3	9	12	9	16	4
12 Jan 2023	3	3	3	9	12	9	16	4
13 Jan 2023	4	3	3	13	19	8	15	5
14 Jan 2023	4	3	3	13	19	8	15	5
15 Jan 2023	4	3	3	13	19	8	15	5
16 Jan 2023	4	3	3	13	19	8	15	5
17 Jan 2023	4	3	3	13	19	8	15	5
18 Jan 2023	4	4	4	14	23	9	20	6
19 Jan 2023	4	4	4	14	23	9	20	6
20 Jan 2023	5	4	4	13	31	14	35	6
21 Jan 2023	5	4	4	13	31	14	35	6
22 Jan 2023	5	4	4	13	31	14	35	6
23 Jan 2023	5	4	4	13	31	14	35	6
24 Jan 2023	5	4	4	13	31	14	35	6
25 Jan 2023	4	4	4	9	18	13	31	5
26 Jan 2023	4	4	4	9	18	13	31	5
27 Jan 2023	3	3	4	6	12	11	30	7
28 Jan 2023	3	3	4	6	12	11	30	7
29 Jan 2023	3	3	4	6	12	11	30	7
30 Jan 2023	3	3	4	6	12	11	30	7
31 Jan 2023	3	3	4	6	12	11	30	7

* Geometric mean calculated using n<5
 ns = not sampled

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 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jan 2023	4	2	2	8	5	5	8	5
02 Jan 2023	4	2	2	8	5	5	8	5
03 Jan 2023	4	2	2	8	5	5	8	5
04 Jan 2023	4	2	2	11	15	11	14	5
05 Jan 2023	4	2	2	11	15	11	14	5
06 Jan 2023	4	2	2	11	25	11	14	5
07 Jan 2023	4	2	2	11	18	11	14	5
08 Jan 2023	4	2	2	11	18	11	14	5
09 Jan 2023	4	2	2	11	18	11	14	5
10 Jan 2023	4	2	2	11	18	11	14	5
11 Jan 2023	3	2	2	10	21	11	16	5
12 Jan 2023	3	2	2	10	21	11	16	5
13 Jan 2023	4	2	2	11	28	17	22	7
14 Jan 2023	4	2	2	11	28	17	22	7
15 Jan 2023	4	2	2	11	28	17	22	7
16 Jan 2023	4	2	2	11	28	17	22	7
17 Jan 2023	4	2	2	11	28	17	22	7
18 Jan 2023	4	3	4	16	32	22	29	7
19 Jan 2023	4	3	4	16	32	22	27	7
20 Jan 2023	4	4	4	27	50	39	42	6
21 Jan 2023	4	4	4	27	50	39	42	6
22 Jan 2023	4	4	4	27	50	39	42	6
23 Jan 2023	4	4	4	27	50	39	42	6
24 Jan 2023	4	4	4	27	50	39	42	6
25 Jan 2023	4	3	5	16	32	34	39	5
26 Jan 2023	4	3	5	16	32	34	39	5
27 Jan 2023	2	3	6	15	29	31	28	6
28 Jan 2023	2	3	6	15	29	31	39	6
29 Jan 2023	2	3	6	15	29	31	39	6
30 Jan 2023	2	3	6	15	29	31	39	6
31 Jan 2023	2	3	6	15	29	31	39	6

* Geometric mean calculated using n<5
 ns = not sampled

Table 2.4

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
04 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
11 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
18 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
25 Jan 2023	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 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
04 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
11 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
18 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
25 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.6

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
04 Jan 2023	IC	IC	IC	IC	E	IC	IC	IC
06 Jan 2023	ns	ns	ns	ns	E	ns	ns	ns
07 Jan 2023	ns	ns	ns	ns	IC	ns	ns	ns
11 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
18 Jan 2023	IC	IC	IC	IC	IC	IC	E	IC
19 Jan 2023	ns	ns	ns	ns	ns	ns	IC	ns
25 Jan 2023	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
04 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
11 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
18 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
25 Jan 2023	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 total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL. The fecal:total coliform ratio (F:T) is unitless. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero	F:T
D4	04 Jan 2023	958	80e	4e	<2	0.05
D4	11 Jan 2023	934	<20	2e	2e	0.10
D4	18 Jan 2023	1009	20e	6e	4e	0.30
D4	25 Jan 2023	915	20e	2e	<2	0.10
D5	04 Jan 2023	947	140e	6e	2e	0.04
D5	11 Jan 2023	922	20e	<2	<2	0.10
D5	18 Jan 2023	953	120e	6e	14e	0.05
D5	25 Jan 2023	903	20e	<2	<2	0.10
D7	04 Jan 2023	924	20e	6e	2e	0.30
D7	11 Jan 2023	855	<20	6e	4e	0.30
D7	18 Jan 2023	923	120e	4e	24e	0.03
D7	25 Jan 2023	839	16e	<2	6e	0.12
D8-B	04 Jan 2023	911	200e	10e	54	0.05
D8-B	11 Jan 2023	840	40e	4e	8e	0.10
D8-B	18 Jan 2023	904	600e	<20	64	0.03
D8-B	25 Jan 2023	827	10e	2e	<2	0.20
D9	04 Jan 2023	902	140e	74	120e	0.53
D9	06 Jan 2023	749	ns	ns	200e	ns
D9	07 Jan 2023	1355	ns	ns	4e	ns
D9	11 Jan 2023	830	60e	<2	50	0.03
D9	18 Jan 2023	853	580	60e	66	0.10
D9	25 Jan 2023	817	40e	<2	2e	0.05
D10	04 Jan 2023	847	200e	34e	60e	0.17
D10	11 Jan 2023	815	40e	2e	14e	0.05
D10	18 Jan 2023	841	200e	<20	54	0.10
D10	25 Jan 2023	808	200e	10e	20e	0.05
D11	04 Jan 2023	837	160e	40e	46	0.25
D11	11 Jan 2023	805	160e	16e	34e	0.10
D11	18 Jan 2023	830	800e	60e	120e	0.07
D11	19 Jan 2023	828	ns	ns	18e	ns
D11	25 Jan 2023	759	100e	<20	26e	0.20
D12	04 Jan 2023	821	80e	20e	6e	0.25
D12	11 Jan 2023	745	20e	2e	10e	0.10
D12	18 Jan 2023	813	40e	12e	10e	0.30
D12	25 Jan 2023	745	4e	4e	2e	1.00

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
D9	06 Jan 2023			Resample
D9	07 Jan 2023			Resample
D11	19 Jan 2023			Resample

Table 2.9

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

Station	Date	Parameter	Value
D4	04 Jan 2023	Arrive Time	958
D4	04 Jan 2023	Weather	Cloudy
D4	04 Jan 2023	Wind Speed (kts)	5.2
D4	04 Jan 2023	Wind Dir	S
D4	04 Jan 2023	Animal Life	
D4	04 Jan 2023	Floatables	None
D4	04 Jan 2023	Water Color	Green
D4	04 Jan 2023	Current Direction	S
D4	04 Jan 2023	Water Temp (C)	13
D4	04 Jan 2023	Wave Height Low (ft)	4
D4	04 Jan 2023	High Tide (ft)	5.71
D4	04 Jan 2023	High Tide Time	652
D4	04 Jan 2023	Low Tide (ft)	2.2
D4	04 Jan 2023	Low Tide Time	38
D4	04 Jan 2023	Comments	Water clear; Trash-1; Kelp;Debris;Algae
D4	11 Jan 2023	Arrive Time	934
D4	11 Jan 2023	Weather	Partly cloudy
D4	11 Jan 2023	Wind Speed (kts)	0.6
D4	11 Jan 2023	Wind Dir	SW
D4	11 Jan 2023	Animal Life	Bird-2
D4	11 Jan 2023	Floatables	None
D4	11 Jan 2023	Water Color	Green
D4	11 Jan 2023	Current Direction	S
D4	11 Jan 2023	Water Temp (C)	12
D4	11 Jan 2023	Wave Height Low (ft)	5
D4	11 Jan 2023	High Tide (ft)	3.54
D4	11 Jan 2023	High Tide Time	3
D4	11 Jan 2023	Low Tide (ft)	2.28
D4	11 Jan 2023	Low Tide Time	456
D4	11 Jan 2023	Comments	Water clear; Trash-1; Kelp;Algae;Seagrass
D4	18 Jan 2023	Arrive Time	1009
D4	18 Jan 2023	Weather	Partly cloudy
D4	18 Jan 2023	Wind Speed (kts)	1
D4	18 Jan 2023	Wind Dir	W
D4	18 Jan 2023	Animal Life	
D4	18 Jan 2023	Floatables	None
D4	18 Jan 2023	Water Color	Green
D4	18 Jan 2023	Current Direction	S
D4	18 Jan 2023	Water Temp (C)	12
D4	18 Jan 2023	Wave Height Low (ft)	2
D4	18 Jan 2023	High Tide (ft)	5.7
D4	18 Jan 2023	High Tide Time	533
D4	18 Jan 2023	Low Tide (ft)	-0.8
D4	18 Jan 2023	Low Tide Time	1314
D4	18 Jan 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D4	25 Jan 2023	Arrive Time	915
D4	25 Jan 2023	Weather	Sunny
D4	25 Jan 2023	Wind Speed (kts)	0.5
D4	25 Jan 2023	Wind Dir	SW
D4	25 Jan 2023	Animal Life	
D4	25 Jan 2023	Floatables	None
D4	25 Jan 2023	Water Color	Green
D4	25 Jan 2023	Current Direction	S

Station	Date	Parameter	Value
D4	25 Jan 2023	Water Temp (C)	11
D4	25 Jan 2023	Wave Height Low (ft)	3
D4	25 Jan 2023	High Tide (ft)	5.11
D4	25 Jan 2023	High Tide Time	1112
D4	25 Jan 2023	Low Tide (ft)	1.32
D4	25 Jan 2023	Low Tide Time	520
D4	25 Jan 2023	Comments	Water clear; Boater/Kayaker-4; Trash-1; Algae;Kelp
D5	04 Jan 2023	Arrive Time	947
D5	04 Jan 2023	Weather	Partly cloudy
D5	04 Jan 2023	Wind Speed (kts)	3.5
D5	04 Jan 2023	Wind Dir	S
D5	04 Jan 2023	Animal Life	
D5	04 Jan 2023	Floatables	None
D5	04 Jan 2023	Water Color	Green
D5	04 Jan 2023	Current Direction	S
D5	04 Jan 2023	Water Temp (C)	14
D5	04 Jan 2023	Wave Height Low (ft)	4
D5	04 Jan 2023	High Tide (ft)	5.71
D5	04 Jan 2023	High Tide Time	652
D5	04 Jan 2023	Low Tide (ft)	2.2
D5	04 Jan 2023	Low Tide Time	38
D5	04 Jan 2023	Comments	Water turbid; Trash-1; Seagrass;Algae; Sewage-like odor
D5	11 Jan 2023	Arrive Time	922
D5	11 Jan 2023	Weather	Partly cloudy
D5	11 Jan 2023	Wind Speed (kts)	0
D5	11 Jan 2023	Wind Dir	
D5	11 Jan 2023	Animal Life	Bird-2; Seal/Sea Lion-1
D5	11 Jan 2023	Floatables	None
D5	11 Jan 2023	Water Color	Green
D5	11 Jan 2023	Current Direction	S
D5	11 Jan 2023	Water Temp (C)	11
D5	11 Jan 2023	Wave Height Low (ft)	6
D5	11 Jan 2023	High Tide (ft)	3.54
D5	11 Jan 2023	High Tide Time	3
D5	11 Jan 2023	Low Tide (ft)	2.28
D5	11 Jan 2023	Low Tide Time	456
D5	11 Jan 2023	Comments	Water clear; Trash-1; Kelp;Algae
D5	18 Jan 2023	Arrive Time	953
D5	18 Jan 2023	Weather	Partly cloudy
D5	18 Jan 2023	Wind Speed (kts)	0
D5	18 Jan 2023	Wind Dir	
D5	18 Jan 2023	Animal Life	
D5	18 Jan 2023	Floatables	None
D5	18 Jan 2023	Water Color	Green
D5	18 Jan 2023	Current Direction	S
D5	18 Jan 2023	Water Temp (C)	11
D5	18 Jan 2023	Wave Height Low (ft)	5
D5	18 Jan 2023	High Tide (ft)	5.7
D5	18 Jan 2023	High Tide Time	533
D5	18 Jan 2023	Low Tide (ft)	-0.8
D5	18 Jan 2023	Low Tide Time	1314
D5	18 Jan 2023	Comments	Water clear; Trash-1; Kelp;Algae
D5	25 Jan 2023	Arrive Time	903
D5	25 Jan 2023	Weather	Sunny
D5	25 Jan 2023	Wind Speed (kts)	0
D5	25 Jan 2023	Wind Dir	
D5	25 Jan 2023	Animal Life	

Station	Date	Parameter	Value
D5	25 Jan 2023	Floatables	None
D5	25 Jan 2023	Water Color	Green
D5	25 Jan 2023	Current Direction	S
D5	25 Jan 2023	Water Temp (C)	11
D5	25 Jan 2023	Wave Height Low (ft)	4
D5	25 Jan 2023	High Tide (ft)	5.11
D5	25 Jan 2023	High Tide Time	1112
D5	25 Jan 2023	Low Tide (ft)	1.32
D5	25 Jan 2023	Low Tide Time	520
D5	25 Jan 2023	Comments	Water clear; Trash-1; Kelp;Algae;Debris
D7	04 Jan 2023	Arrive Time	924
D7	04 Jan 2023	Weather	Partly cloudy
D7	04 Jan 2023	Wind Speed (kts)	5.9
D7	04 Jan 2023	Wind Dir	S
D7	04 Jan 2023	Animal Life	
D7	04 Jan 2023	Floatables	None
D7	04 Jan 2023	Water Color	Green
D7	04 Jan 2023	Current Direction	S
D7	04 Jan 2023	Water Temp (C)	13
D7	04 Jan 2023	Wave Height Low (ft)	5
D7	04 Jan 2023	High Tide (ft)	5.71
D7	04 Jan 2023	High Tide Time	652
D7	04 Jan 2023	Low Tide (ft)	2.2
D7	04 Jan 2023	Low Tide Time	38
D7	04 Jan 2023	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Algae
D7	11 Jan 2023	Arrive Time	855
D7	11 Jan 2023	Weather	Partly cloudy
D7	11 Jan 2023	Wind Speed (kts)	2.8
D7	11 Jan 2023	Wind Dir	S
D7	11 Jan 2023	Animal Life	
D7	11 Jan 2023	Floatables	None
D7	11 Jan 2023	Water Color	Green
D7	11 Jan 2023	Current Direction	S
D7	11 Jan 2023	Water Temp (C)	12
D7	11 Jan 2023	Wave Height Low (ft)	7
D7	11 Jan 2023	High Tide (ft)	3.54
D7	11 Jan 2023	High Tide Time	3
D7	11 Jan 2023	Low Tide (ft)	2.28
D7	11 Jan 2023	Low Tide Time	456
D7	11 Jan 2023	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Algae
D7	18 Jan 2023	Arrive Time	923
D7	18 Jan 2023	Weather	Partly cloudy
D7	18 Jan 2023	Wind Speed (kts)	1.2
D7	18 Jan 2023	Wind Dir	W
D7	18 Jan 2023	Animal Life	
D7	18 Jan 2023	Floatables	None; Foam
D7	18 Jan 2023	Water Color	Green
D7	18 Jan 2023	Current Direction	S
D7	18 Jan 2023	Water Temp (C)	11
D7	18 Jan 2023	Wave Height Low (ft)	5
D7	18 Jan 2023	High Tide (ft)	5.7
D7	18 Jan 2023	High Tide Time	533
D7	18 Jan 2023	Low Tide (ft)	-0.8
D7	18 Jan 2023	Low Tide Time	1314
D7	18 Jan 2023	Comments	Water clear; Trash-1; Algae;Seagrass; Person/Walker/Jogger-5
D7	25 Jan 2023	Arrive Time	839

Station	Date	Parameter	Value
D7	25 Jan 2023	Weather	Sunny
D7	25 Jan 2023	Wind Speed (kts)	0
D7	25 Jan 2023	Wind Dir	
D7	25 Jan 2023	Animal Life	
D7	25 Jan 2023	Floatables	None
D7	25 Jan 2023	Water Color	Green
D7	25 Jan 2023	Current Direction	S
D7	25 Jan 2023	Water Temp (C)	10
D7	25 Jan 2023	Wave Height Low (ft)	4
D7	25 Jan 2023	High Tide (ft)	5.11
D7	25 Jan 2023	High Tide Time	1112
D7	25 Jan 2023	Low Tide (ft)	1.32
D7	25 Jan 2023	Low Tide Time	520
D7	25 Jan 2023	Comments	Water clear; Surfer/Paddle boarder-4; Trash-1; Algae;Kelp
D8-B	04 Jan 2023	Arrive Time	911
D8-B	04 Jan 2023	Weather	Partly cloudy
D8-B	04 Jan 2023	Wind Speed (kts)	1.1
D8-B	04 Jan 2023	Wind Dir	NW
D8-B	04 Jan 2023	Animal Life	
D8-B	04 Jan 2023	Floatables	None
D8-B	04 Jan 2023	Water Color	Green
D8-B	04 Jan 2023	Current Direction	S
D8-B	04 Jan 2023	Water Temp (C)	13
D8-B	04 Jan 2023	Wave Height Low (ft)	6
D8-B	04 Jan 2023	High Tide (ft)	5.71
D8-B	04 Jan 2023	High Tide Time	652
D8-B	04 Jan 2023	Low Tide (ft)	2.2
D8-B	04 Jan 2023	Low Tide Time	38
D8-B	04 Jan 2023	Comments	Water turbid; Trash-1; Algae;Kelp
D8-B	11 Jan 2023	Arrive Time	840
D8-B	11 Jan 2023	Weather	Partly cloudy
D8-B	11 Jan 2023	Wind Speed (kts)	2.5
D8-B	11 Jan 2023	Wind Dir	E
D8-B	11 Jan 2023	Animal Life	
D8-B	11 Jan 2023	Floatables	None
D8-B	11 Jan 2023	Water Color	Green
D8-B	11 Jan 2023	Current Direction	S
D8-B	11 Jan 2023	Water Temp (C)	11
D8-B	11 Jan 2023	Wave Height Low (ft)	7
D8-B	11 Jan 2023	High Tide (ft)	3.54
D8-B	11 Jan 2023	High Tide Time	3
D8-B	11 Jan 2023	Low Tide (ft)	2.28
D8-B	11 Jan 2023	Low Tide Time	456
D8-B	11 Jan 2023	Comments	Water clear; Trash-1; Kelp;Algae
D8-B	18 Jan 2023	Arrive Time	904
D8-B	18 Jan 2023	Weather	Partly cloudy
D8-B	18 Jan 2023	Wind Speed (kts)	3.2
D8-B	18 Jan 2023	Wind Dir	E
D8-B	18 Jan 2023	Animal Life	
D8-B	18 Jan 2023	Floatables	None
D8-B	18 Jan 2023	Water Color	Green
D8-B	18 Jan 2023	Current Direction	S
D8-B	18 Jan 2023	Water Temp (C)	10
D8-B	18 Jan 2023	Wave Height Low (ft)	5
D8-B	18 Jan 2023	High Tide (ft)	5.7
D8-B	18 Jan 2023	High Tide Time	533
D8-B	18 Jan 2023	Low Tide (ft)	-0.8
D8-B	18 Jan 2023	Low Tide Time	1314

Station	Date	Parameter	Value
D8-B	18 Jan 2023	Comments	Water clear; Trash-1; Seagrass;Kelp;Algae
D8-B	25 Jan 2023	Arrive Time	827
D8-B	25 Jan 2023	Weather	Sunny
D8-B	25 Jan 2023	Wind Speed (kts)	1.3
D8-B	25 Jan 2023	Wind Dir	NE
D8-B	25 Jan 2023	Animal Life	
D8-B	25 Jan 2023	Floatables	None
D8-B	25 Jan 2023	Water Color	Green
D8-B	25 Jan 2023	Current Direction	S
D8-B	25 Jan 2023	Water Temp (C)	9
D8-B	25 Jan 2023	Wave Height Low (ft)	4
D8-B	25 Jan 2023	High Tide (ft)	5.11
D8-B	25 Jan 2023	High Tide Time	1112
D8-B	25 Jan 2023	Low Tide (ft)	1.32
D8-B	25 Jan 2023	Low Tide Time	520
D8-B	25 Jan 2023	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Algae
D9	04 Jan 2023	Arrive Time	902
D9	04 Jan 2023	Weather	Partly cloudy
D9	04 Jan 2023	Wind Speed (kts)	0.6
D9	04 Jan 2023	Wind Dir	S
D9	04 Jan 2023	Animal Life	
D9	04 Jan 2023	Floatables	None
D9	04 Jan 2023	Water Color	Green
D9	04 Jan 2023	Current Direction	S
D9	04 Jan 2023	Water Temp (C)	13
D9	04 Jan 2023	Wave Height Low (ft)	6
D9	04 Jan 2023	High Tide (ft)	5.71
D9	04 Jan 2023	High Tide Time	652
D9	04 Jan 2023	Low Tide (ft)	2.2
D9	04 Jan 2023	Low Tide Time	38
D9	04 Jan 2023	Comments	Water clear; Trash-1; Algae
D9	06 Jan 2023	Arrive Time	749
D9	06 Jan 2023	Weather	Hazy
D9	06 Jan 2023	Wind Speed (kts)	0
D9	06 Jan 2023	Wind Dir	
D9	06 Jan 2023	Animal Life	
D9	06 Jan 2023	Floatables	None
D9	06 Jan 2023	Water Color	Green
D9	06 Jan 2023	Current Direction	S
D9	06 Jan 2023	Water Temp (C)	12
D9	06 Jan 2023	Wave Height Low (ft)	8
D9	06 Jan 2023	High Tide (ft)	5.75
D9	06 Jan 2023	High Tide Time	800
D9	06 Jan 2023	Low Tide (ft)	2.21
D9	06 Jan 2023	Low Tide Time	153
D9	06 Jan 2023	Comments	Water clear; Trash-1; Algae
D9	07 Jan 2023	Arrive Time	1355
D9	07 Jan 2023	Weather	Sunny
D9	07 Jan 2023	Wind Speed (kts)	1.8
D9	07 Jan 2023	Wind Dir	SW
D9	07 Jan 2023	Animal Life	Bird-2
D9	07 Jan 2023	Floatables	None; Foam
D9	07 Jan 2023	Water Color	Green
D9	07 Jan 2023	Current Direction	S
D9	07 Jan 2023	Water Temp (C)	15
D9	07 Jan 2023	Wave Height Low (ft)	5
D9	07 Jan 2023	High Tide (ft)	5.7

Station	Date	Parameter	Value
D9	07 Jan 2023	High Tide Time	833
D9	07 Jan 2023	Low Tide (ft)	2.17
D9	07 Jan 2023	Low Tide Time	227
D9	07 Jan 2023	Comments	Water clear; Trash-1; Algae; Person/Walker/Jogger-6
D9	11 Jan 2023	Arrive Time	830
D9	11 Jan 2023	Weather	Cloudy
D9	11 Jan 2023	Wind Speed (kts)	0.6
D9	11 Jan 2023	Wind Dir	N
D9	11 Jan 2023	Animal Life	Bird-2
D9	11 Jan 2023	Floatables	None
D9	11 Jan 2023	Water Color	Green
D9	11 Jan 2023	Current Direction	S
D9	11 Jan 2023	Water Temp (C)	10
D9	11 Jan 2023	Wave Height Low (ft)	7
D9	11 Jan 2023	High Tide (ft)	3.54
D9	11 Jan 2023	High Tide Time	3
D9	11 Jan 2023	Low Tide (ft)	2.28
D9	11 Jan 2023	Low Tide Time	456
D9	11 Jan 2023	Comments	Water clear; Trash-1; Algae; Person/Walker/Jogger-2
D9	18 Jan 2023	Arrive Time	853
D9	18 Jan 2023	Weather	Partly cloudy
D9	18 Jan 2023	Wind Speed (kts)	0.6
D9	18 Jan 2023	Wind Dir	NE
D9	18 Jan 2023	Animal Life	
D9	18 Jan 2023	Floatables	None
D9	18 Jan 2023	Water Color	Green
D9	18 Jan 2023	Current Direction	S
D9	18 Jan 2023	Water Temp (C)	10
D9	18 Jan 2023	Wave Height Low (ft)	5
D9	18 Jan 2023	High Tide (ft)	5.7
D9	18 Jan 2023	High Tide Time	533
D9	18 Jan 2023	Low Tide (ft)	-0.8
D9	18 Jan 2023	Low Tide Time	1314
D9	18 Jan 2023	Comments	Water clear; Trash-1; Seagrass;Algae; Person/Walker/Jogger-1
D9	25 Jan 2023	Arrive Time	817
D9	25 Jan 2023	Weather	Sunny
D9	25 Jan 2023	Wind Speed (kts)	0.8
D9	25 Jan 2023	Wind Dir	SW
D9	25 Jan 2023	Animal Life	
D9	25 Jan 2023	Floatables	None
D9	25 Jan 2023	Water Color	Green
D9	25 Jan 2023	Current Direction	S
D9	25 Jan 2023	Water Temp (C)	9
D9	25 Jan 2023	Wave Height Low (ft)	5
D9	25 Jan 2023	High Tide (ft)	5.11
D9	25 Jan 2023	High Tide Time	1112
D9	25 Jan 2023	Low Tide (ft)	1.32
D9	25 Jan 2023	Low Tide Time	520
D9	25 Jan 2023	Comments	Water clear; Trash-1; Algae; Person/Walker/Jogger-1
D10	04 Jan 2023	Arrive Time	847
D10	04 Jan 2023	Weather	Cloudy
D10	04 Jan 2023	Wind Speed (kts)	2.2
D10	04 Jan 2023	Wind Dir	S
D10	04 Jan 2023	Animal Life	Bird-1
D10	04 Jan 2023	Floatables	None
D10	04 Jan 2023	Water Color	Green

Station	Date	Parameter	Value
D10	04 Jan 2023	Current Direction	S
D10	04 Jan 2023	Water Temp (C)	12
D10	04 Jan 2023	Wave Height Low (ft)	6
D10	04 Jan 2023	High Tide (ft)	5.71
D10	04 Jan 2023	High Tide Time	652
D10	04 Jan 2023	Low Tide (ft)	2.2
D10	04 Jan 2023	Low Tide Time	38
D10	04 Jan 2023	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Kelp;Seagrass
D10	11 Jan 2023	Arrive Time	815
D10	11 Jan 2023	Weather	Cloudy
D10	11 Jan 2023	Wind Speed (kts)	0.5
D10	11 Jan 2023	Wind Dir	NE
D10	11 Jan 2023	Animal Life	Bird-2
D10	11 Jan 2023	Floatables	Foam
D10	11 Jan 2023	Water Color	Green
D10	11 Jan 2023	Current Direction	S
D10	11 Jan 2023	Water Temp (C)	10
D10	11 Jan 2023	Wave Height Low (ft)	7
D10	11 Jan 2023	High Tide (ft)	3.54
D10	11 Jan 2023	High Tide Time	3
D10	11 Jan 2023	Low Tide (ft)	2.28
D10	11 Jan 2023	Low Tide Time	456
D10	11 Jan 2023	Comments	Water clear; Trash-1; Kelp; Person/Walker/Jogger-1
D10	18 Jan 2023	Arrive Time	841
D10	18 Jan 2023	Weather	Hazy
D10	18 Jan 2023	Wind Speed (kts)	1.2
D10	18 Jan 2023	Wind Dir	NE
D10	18 Jan 2023	Animal Life	Bird-3
D10	18 Jan 2023	Floatables	None
D10	18 Jan 2023	Water Color	Green
D10	18 Jan 2023	Current Direction	S
D10	18 Jan 2023	Water Temp (C)	8
D10	18 Jan 2023	Wave Height Low (ft)	6
D10	18 Jan 2023	High Tide (ft)	5.7
D10	18 Jan 2023	High Tide Time	533
D10	18 Jan 2023	Low Tide (ft)	-0.8
D10	18 Jan 2023	Low Tide Time	1314
D10	18 Jan 2023	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-5
D10	25 Jan 2023	Arrive Time	808
D10	25 Jan 2023	Weather	Sunny
D10	25 Jan 2023	Wind Speed (kts)	1
D10	25 Jan 2023	Wind Dir	N
D10	25 Jan 2023	Animal Life	Bird-3
D10	25 Jan 2023	Floatables	None
D10	25 Jan 2023	Water Color	Green
D10	25 Jan 2023	Current Direction	S
D10	25 Jan 2023	Water Temp (C)	10
D10	25 Jan 2023	Wave Height Low (ft)	7
D10	25 Jan 2023	High Tide (ft)	5.11
D10	25 Jan 2023	High Tide Time	1112
D10	25 Jan 2023	Low Tide (ft)	1.32
D10	25 Jan 2023	Low Tide Time	520
D10	25 Jan 2023	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Seagrass;Debris
D11	04 Jan 2023	Arrive Time	837

Station	Date	Parameter	Value
D11	04 Jan 2023	Weather	Drizzle
D11	04 Jan 2023	Wind Speed (kts)	5.3
D11	04 Jan 2023	Wind Dir	S
D11	04 Jan 2023	Animal Life	
D11	04 Jan 2023	Floatables	None
D11	04 Jan 2023	Water Color	Green
D11	04 Jan 2023	Current Direction	S
D11	04 Jan 2023	Water Temp (C)	13
D11	04 Jan 2023	Wave Height Low (ft)	5
D11	04 Jan 2023	High Tide (ft)	5.71
D11	04 Jan 2023	High Tide Time	652
D11	04 Jan 2023	Low Tide (ft)	2.2
D11	04 Jan 2023	Low Tide Time	38
D11	04 Jan 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
D11	11 Jan 2023	Arrive Time	805
D11	11 Jan 2023	Weather	Partly cloudy
D11	11 Jan 2023	Wind Speed (kts)	2
D11	11 Jan 2023	Wind Dir	E
D11	11 Jan 2023	Animal Life	Dog-1
D11	11 Jan 2023	Floatables	None
D11	11 Jan 2023	Water Color	Green
D11	11 Jan 2023	Current Direction	S
D11	11 Jan 2023	Water Temp (C)	9
D11	11 Jan 2023	Wave Height Low (ft)	6
D11	11 Jan 2023	High Tide (ft)	3.54
D11	11 Jan 2023	High Tide Time	3
D11	11 Jan 2023	Low Tide (ft)	2.28
D11	11 Jan 2023	Low Tide Time	456
D11	11 Jan 2023	Comments	Water clear; Trash-1; Algae;Kelp;Seagrass; Person/Walker/Jogger-3
D11	18 Jan 2023	Arrive Time	830
D11	18 Jan 2023	Weather	Hazy
D11	18 Jan 2023	Wind Speed (kts)	1.1
D11	18 Jan 2023	Wind Dir	NE
D11	18 Jan 2023	Animal Life	Dog-2
D11	18 Jan 2023	Floatables	None
D11	18 Jan 2023	Water Color	Green
D11	18 Jan 2023	Current Direction	S
D11	18 Jan 2023	Water Temp (C)	9
D11	18 Jan 2023	Wave Height Low (ft)	6
D11	18 Jan 2023	High Tide (ft)	5.7
D11	18 Jan 2023	High Tide Time	533
D11	18 Jan 2023	Low Tide (ft)	-0.8
D11	18 Jan 2023	Low Tide Time	1314
D11	18 Jan 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-15
D11	19 Jan 2023	Arrive Time	828
D11	19 Jan 2023	Weather	Sunny
D11	19 Jan 2023	Wind Speed (kts)	0.8
D11	19 Jan 2023	Wind Dir	W
D11	19 Jan 2023	Animal Life	Dog-2
D11	19 Jan 2023	Floatables	None
D11	19 Jan 2023	Water Color	Green
D11	19 Jan 2023	Current Direction	S
D11	19 Jan 2023	Water Temp (C)	10
D11	19 Jan 2023	Wave Height Low (ft)	6
D11	19 Jan 2023	High Tide (ft)	6.18
D11	19 Jan 2023	High Tide Time	623

Station	Date	Parameter	Value
D11	19 Jan 2023	Low Tide (ft)	-1.37
D11	19 Jan 2023	Low Tide Time	1358
D11	19 Jan 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
D11	25 Jan 2023	Arrive Time	759
D11	25 Jan 2023	Weather	Sunny
D11	25 Jan 2023	Wind Speed (kts)	0.7
D11	25 Jan 2023	Wind Dir	NE
D11	25 Jan 2023	Animal Life	Dog-1
D11	25 Jan 2023	Floatables	None
D11	25 Jan 2023	Water Color	Green
D11	25 Jan 2023	Current Direction	S
D11	25 Jan 2023	Water Temp (C)	9
D11	25 Jan 2023	Wave Height Low (ft)	4
D11	25 Jan 2023	High Tide (ft)	5.11
D11	25 Jan 2023	High Tide Time	1112
D11	25 Jan 2023	Low Tide (ft)	1.32
D11	25 Jan 2023	Low Tide Time	520
D11	25 Jan 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-4
D12	04 Jan 2023	Arrive Time	821
D12	04 Jan 2023	Weather	Drizzle
D12	04 Jan 2023	Wind Speed (kts)	5.1
D12	04 Jan 2023	Wind Dir	S
D12	04 Jan 2023	Animal Life	Bird-10
D12	04 Jan 2023	Floatables	None
D12	04 Jan 2023	Water Color	Green
D12	04 Jan 2023	Current Direction	S
D12	04 Jan 2023	Water Temp (C)	13
D12	04 Jan 2023	Wave Height Low (ft)	5
D12	04 Jan 2023	High Tide (ft)	5.71
D12	04 Jan 2023	High Tide Time	652
D12	04 Jan 2023	Low Tide (ft)	2.2
D12	04 Jan 2023	Low Tide Time	38
D12	04 Jan 2023	Comments	Water turbid; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-2
D12	11 Jan 2023	Arrive Time	745
D12	11 Jan 2023	Weather	Hazy
D12	11 Jan 2023	Wind Speed (kts)	0
D12	11 Jan 2023	Wind Dir	
D12	11 Jan 2023	Animal Life	Bird-20
D12	11 Jan 2023	Floatables	None
D12	11 Jan 2023	Water Color	Green
D12	11 Jan 2023	Current Direction	S
D12	11 Jan 2023	Water Temp (C)	9
D12	11 Jan 2023	Wave Height Low (ft)	6
D12	11 Jan 2023	High Tide (ft)	3.54
D12	11 Jan 2023	High Tide Time	3
D12	11 Jan 2023	Low Tide (ft)	2.28
D12	11 Jan 2023	Low Tide Time	456
D12	11 Jan 2023	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
D12	18 Jan 2023	Arrive Time	813
D12	18 Jan 2023	Weather	Hazy
D12	18 Jan 2023	Wind Speed (kts)	0
D12	18 Jan 2023	Wind Dir	
D12	18 Jan 2023	Animal Life	Dog-1

Station	Date	Parameter	Value
D12	18 Jan 2023	Floatables	None
D12	18 Jan 2023	Water Color	Green
D12	18 Jan 2023	Current Direction	S
D12	18 Jan 2023	Water Temp (C)	9
D12	18 Jan 2023	Wave Height Low (ft)	6
D12	18 Jan 2023	High Tide (ft)	5.7
D12	18 Jan 2023	High Tide Time	533
D12	18 Jan 2023	Low Tide (ft)	-0.8
D12	18 Jan 2023	Low Tide Time	1314
D12	18 Jan 2023	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
D12	25 Jan 2023	Arrive Time	743
D12	25 Jan 2023	Weather	Sunny
D12	25 Jan 2023	Wind Speed (kts)	0.6
D12	25 Jan 2023	Wind Dir	N
D12	25 Jan 2023	Animal Life	Bird-5
D12	25 Jan 2023	Floatables	None
D12	25 Jan 2023	Water Color	Green
D12	25 Jan 2023	Current Direction	S
D12	25 Jan 2023	Water Temp (C)	7
D12	25 Jan 2023	Wave Height Low (ft)	5
D12	25 Jan 2023	High Tide (ft)	5.11
D12	25 Jan 2023	High Tide Time	1112
D12	25 Jan 2023	Low Tide (ft)	1.32
D12	25 Jan 2023	Low Tide Time	520
D12	25 Jan 2023	Comments	Water clear; Trash-1; Seagrass;Kelp; Person/Walker/Jogger-2

Kelp Stations

Table 3.1

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 geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Jan 2023	11	8	8	15	13	4	6	6
02 Jan 2023	11	8	8	15	13	4	6	6
03 Jan 2023	11	8	8	15	13	4	6	6
04 Jan 2023	6	11	4	29	24	7	6	7
05 Jan 2023	6	11	4	29	24	7	6	7
06 Jan 2023	6	11	4	29	24	7	6	7
07 Jan 2023	6	11	4	29	24	7	6	7
08 Jan 2023	6	11	4	29	24	7	6	7
09 Jan 2023	6	11	4	29	24	7	6	7
10 Jan 2023	6	11	4	29	24	7	6	7
11 Jan 2023	6	11	4	29	24	7	6	7
12 Jan 2023	6	8	4	7	13	7	5	6
13 Jan 2023	6	8	4	7	13	7	5	6
14 Jan 2023	6	8	4	7	13	7	5	6
15 Jan 2023	6	8	4	7	13	7	5	6
16 Jan 2023	6	8	4	7	13	7	5	6
17 Jan 2023	6	8	4	7	13	7	5	6
18 Jan 2023	11	14	9	12	19	10	7	7
19 Jan 2023	11	14	9	12	19	10	7	7
20 Jan 2023	16	9	10	15	24	16	5	7
21 Jan 2023	16	9	10	15	24	16	5	7
22 Jan 2023	16	9	10	15	24	16	5	7
23 Jan 2023	16	9	10	15	24	16	5	7
24 Jan 2023	14	11	10	10	15	14	4	8
25 Jan 2023	14	11	10	10	15	14	4	8
26 Jan 2023	24	15	14	15	17	16	5	11
27 Jan 2023	24	15	14	15	17	16	5	11
28 Jan 2023	24	15	14	15	17	16	5	11
29 Jan 2023	24	15	14	15	17	16	5	11
30 Jan 2023	24	15	14	15	17	16	5	11
31 Jan 2023	17	11	10	11	11	10	4	10

* Geometric mean calculated using n<5

Table 3.2

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Jan 2023	4	3	3	2	2	2	3	2
02 Jan 2023	4	3	3	2	2	2	3	2
03 Jan 2023	4	3	3	2	2	2	3	2
04 Jan 2023	3	3	3	3	4	2	3	2
05 Jan 2023	3	3	3	3	4	2	3	2
06 Jan 2023	3	3	3	3	4	2	3	2
07 Jan 2023	3	3	3	3	4	2	3	2
08 Jan 2023	3	3	3	3	4	2	3	2
09 Jan 2023	3	3	3	3	4	2	3	2
10 Jan 2023	3	3	3	3	4	2	3	2
11 Jan 2023	3	3	3	3	4	2	3	2
12 Jan 2023	5	3	2	3	4	2	3	2
13 Jan 2023	5	3	2	3	4	2	3	2
14 Jan 2023	5	3	2	3	4	2	3	2
15 Jan 2023	5	3	2	3	4	2	3	2
16 Jan 2023	5	3	2	3	4	2	3	2
17 Jan 2023	5	3	2	3	4	2	3	2
18 Jan 2023	6	4	3	4	5	2	3	2
19 Jan 2023	6	4	3	4	5	2	3	2
20 Jan 2023	7	3	3	4	6	3	2	2
21 Jan 2023	7	3	3	4	6	3	2	2
22 Jan 2023	7	3	3	4	6	3	2	2
23 Jan 2023	7	3	3	4	6	3	2	2
24 Jan 2023	6	3	3	4	5	2	2	2
25 Jan 2023	6	3	3	4	5	2	2	2
26 Jan 2023	7	3	3	4	6	3	2	2
27 Jan 2023	7	3	3	4	6	3	2	2
28 Jan 2023	7	3	3	4	6	3	2	2
29 Jan 2023	7	3	3	4	6	3	2	2
30 Jan 2023	7	3	3	4	6	3	2	2
31 Jan 2023	6	3	3	4	5	2	3	2

* Geometric mean calculated using n<5

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 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Jan 2023	2	2	2	2	2	2	2	2
02 Jan 2023	2	2	2	2	2	2	2	2
03 Jan 2023	2	2	2	2	2	2	2	2
04 Jan 2023	2	2	2	3	5	2	2	2
05 Jan 2023	2	2	2	3	5	2	2	2
06 Jan 2023	2	2	2	3	5	2	2	2
07 Jan 2023	2	2	2	3	5	2	2	2
08 Jan 2023	2	2	2	3	5	2	2	2
09 Jan 2023	2	2	2	3	5	2	2	2
10 Jan 2023	2	2	2	3	5	2	2	2
11 Jan 2023	2	2	2	3	5	2	2	2
12 Jan 2023	2	2	2	3	5	2	2	2
13 Jan 2023	2	2	2	3	5	2	2	2
14 Jan 2023	2	2	2	3	5	2	2	2
15 Jan 2023	2	2	2	3	5	2	2	2
16 Jan 2023	2	2	2	3	5	2	2	2
17 Jan 2023	2	2	2	3	5	2	2	2
18 Jan 2023	3	3	3	3	5	3	2	2
19 Jan 2023	3	3	3	3	5	3	2	2
20 Jan 2023	3	3	3	4	7	3	2	2
21 Jan 2023	3	3	3	4	7	3	2	2
22 Jan 2023	3	3	3	4	7	3	2	2
23 Jan 2023	3	3	3	4	7	3	2	2
24 Jan 2023	3	3	3	3	5	3	2	2
25 Jan 2023	3	3	3	3	5	3	2	2
26 Jan 2023	3	3	3	4	7	3	2	2
27 Jan 2023	3	3	3	4	7	3	2	2
28 Jan 2023	3	3	3	4	7	3	2	2
29 Jan 2023	3	3	3	4	7	3	2	2
30 Jan 2023	3	3	3	4	7	3	2	2
31 Jan 2023	3	3	3	3	5	3	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 total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
04 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
12 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
18 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
24 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
31 Jan 2023	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 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
04 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
12 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
18 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
24 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
31 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.6

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
04 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
12 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
18 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
24 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
31 Jan 2023	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
04 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
12 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
18 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
24 Jan 2023	IC	IC	IC	IC	IC	IC	IC	IC
31 Jan 2023	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; the fecal:total coliform ratio (F:T) is unitless; 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	F:T	Temp	XMS	DO	Sal	pH
A1	04 Jan 2023	755	1	28e	36e	2e	1.29	14.7	71.83	7.9	33.32	8.1
A1	04 Jan 2023	755	12	14e	2e	2e	0.14	14.7	75.01	7.9	33.33	8.1
A1	04 Jan 2023	755	18	4e	<2	<2	0.50	14.7	75.34	7.8	33.33	8.1
A1	12 Jan 2023	752	1	4e	2e	2e	0.50	14.8	77.22	7.9	33.36	8.1
A1	12 Jan 2023	752	12	24e	12e	2e	0.50	14.7	74.64	7.7	33.37	8.1
A1	12 Jan 2023	752	18	20e	10e	<2	0.50	14.6	63.89	7.6	33.37	8.1
A1	18 Jan 2023	740	1	120e	16e	22e	0.13	14.5	56.20	7.7	33.10	8.1
A1	18 Jan 2023	740	12	240e	10e	22e	0.04	14.5	61.22	7.6	33.13	8.1
A1	18 Jan 2023	740	18	80e	18e	12e	0.22	14.5	62.64	7.6	33.15	8.1
A1	24 Jan 2023	813	1	<2	<2	<2	1.00	14.1	86.72	8.0	33.28	8.1
A1	24 Jan 2023	813	12	<2	<2	<2	1.00	14.2	87.16	7.8	33.29	8.1
A1	24 Jan 2023	813	18	22e	<2	2e	0.09	13.1	86.31	5.9	33.42	7.9
A1	31 Jan 2023	813	1	8e	2e	2e	0.25	13.9	77.83	8.2	33.27	8.1
A1	31 Jan 2023	813	12	<2	2e	4e	1.00	13.9	76.94	8.2	33.27	8.1
A1	31 Jan 2023	813	18	4e	<2	<2	0.50	13.9	77.10	8.1	33.27	8.1
A6	04 Jan 2023	818	1	12e	<2	<2	0.17	14.6	73.89	7.6	33.31	8.1
A6	04 Jan 2023	818	12	6e	<2	2e	0.33	14.6	75.29	7.6	33.33	8.1
A6	04 Jan 2023	818	18	4e	<2	<2	0.50	14.6	72.17	7.7	33.34	8.1
A6	12 Jan 2023	812	1	6e	2e	<2	0.33	14.8	65.57	7.9	33.34	8.1
A6	12 Jan 2023	812	12	2e	2e	<2	1.00	14.8	62.26	7.9	33.34	8.1
A6	12 Jan 2023	812	18	2e	<2	<2	1.00	14.7	57.23	7.7	33.35	8.1
A6	18 Jan 2023	809	1	100e	18e	10e	0.18	14.5	63.11	7.6	33.19	8.1
A6	18 Jan 2023	809	12	100e	12e	10e	0.12	14.5	63.27	7.5	33.19	8.1
A6	18 Jan 2023	809	18	120e	16e	8e	0.13	14.5	61.61	7.5	33.21	8.1
A6	24 Jan 2023	838	1	6e	<2	<2	0.33	14.1	85.03	7.7	33.26	8.1
A6	24 Jan 2023	838	12	<2	<2	<2	1.00	14.1	84.92	7.6	33.27	8.1
A6	24 Jan 2023	838	18	54	<2	2e	0.04	13.2	84.13	5.9	33.38	7.9
A6	31 Jan 2023	845	1	2e	<2	<2	1.00	13.6	82.59	8.1	33.20	8.1
A6	31 Jan 2023	845	12	<2	2e	<2	1.00	13.7	83.16	8.0	33.21	8.1
A6	31 Jan 2023	845	18	6e	<2	2e	0.33	13.7	84.33	7.7	33.23	8.1
A7	04 Jan 2023	807	1	<2	<2	<2	1.00	14.6	73.58	7.8	33.29	8.1
A7	04 Jan 2023	807	12	<2	4e	<2	2.00	14.6	75.94	7.7	33.34	8.1
A7	04 Jan 2023	807	18	2e	<2	<2	1.00	14.6	74.33	7.6	33.35	8.1
A7	12 Jan 2023	800	1	2e	<2	<2	1.00	14.8	71.47	7.8	33.35	8.1
A7	12 Jan 2023	800	12	<20	2e	<2	0.10	14.8	73.06	7.8	33.35	8.1
A7	12 Jan 2023	800	18	12e	2e	<2	0.17	14.7	70.55	7.7	33.35	8.1
A7	18 Jan 2023	753	1	100e	6e	12e	0.06	14.5	65.47	7.8	33.06	8.1
A7	18 Jan 2023	753	12	600e	8e	24e	0.01	14.6	70.70	7.8	33.14	8.1
A7	18 Jan 2023	753	18	72	6e	8e	0.08	14.7	73.52	7.6	33.25	8.1

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
A7	24 Jan 2023	827	1	2e	<2	<2	1.00	14.1	85.41	7.8	33.25	8.1
A7	24 Jan 2023	827	12	2e	<2	<2	1.00	14.2	86.20	7.7	33.27	8.1
A7	24 Jan 2023	827	18	16e	2e	<2	0.12	13.9	86.00	7.3	33.31	8.0
A7	31 Jan 2023	833	1	2e	<2	2e	1.00	13.8	80.61	8.1	33.22	8.1
A7	31 Jan 2023	833	12	<2	<2	<2	1.00	13.8	79.97	7.9	33.23	8.1
A7	31 Jan 2023	833	18	2e	<2	<2	1.00	13.8	81.55	7.8	33.24	8.1
C4	04 Jan 2023	924	1	22e	10e	6e	0.45	14.7	79.03	7.9	33.34	8.1
C4	04 Jan 2023	924	3	28e	4e	6e	0.14	14.7	78.60	7.9	33.34	8.1
C4	04 Jan 2023	924	9	28e	8e	6e	0.29	14.7	75.92	7.8	33.34	8.1
C4	12 Jan 2023	920	1	<2	<2	<2	1.00	14.8	65.81	6.9	33.23	8.1
C4	12 Jan 2023	920	3	<2	<2	<2	1.00	14.8	64.47	7.5	33.31	8.1
C4	12 Jan 2023	920	9	<20	<2	<2	0.10	14.8	60.61	7.8	33.33	8.0
C4	18 Jan 2023	919	1	68	8e	18e	0.12	14.5	57.18	7.8	33.15	8.1
C4	18 Jan 2023	919	3	80e	6e	10e	0.07	14.5	57.29	7.8	33.15	8.1
C4	18 Jan 2023	919	9	200e	18e	4e	0.09	14.5	55.07	7.7	33.16	8.1
C4	24 Jan 2023	951	1	<2	<2	<2	1.00	14.0	81.65	7.6	33.15	8.1
C4	24 Jan 2023	951	3	<2	<2	<2	1.00	13.9	80.77	7.6	33.15	8.1
C4	24 Jan 2023	951	9	2e	2e	<2	1.00	13.8	81.01	6.9	33.25	8.0
C4	31 Jan 2023	952	1	4e	<2	<2	0.50	13.9	79.88	8.3	33.24	8.1
C4	31 Jan 2023	952	3	<2	2e	<2	1.00	13.8	78.62	8.3	33.24	8.1
C4	31 Jan 2023	952	9	2e	<2	<2	1.00	13.8	77.92	8.1	33.25	8.1
C5	04 Jan 2023	914	1	380e	56	44	0.15	14.6	66.16	7.9	33.24	8.1
C5	04 Jan 2023	914	3	140e	22e	14e	0.16	14.6	64.92	7.8	33.25	8.1
C5	04 Jan 2023	914	9	220e	40	100e	0.18	14.6	34.70	7.5	33.33	8.1
C5	12 Jan 2023	911	1	<2	<2	<2	1.00	14.8	69.52	7.5	33.24	8.1
C5	12 Jan 2023	911	3	<2	<2	<2	1.00	14.8	68.06	7.9	33.33	8.1
C5	12 Jan 2023	911	9	<2	<2	<2	1.00	14.7	64.08	7.9	33.33	8.1
C5	18 Jan 2023	909	1	68	10e	6e	0.15	14.6	60.92	7.6	33.22	8.1
C5	18 Jan 2023	909	3	58	4e	10e	0.07	14.6	60.27	7.6	33.22	8.1
C5	18 Jan 2023	909	9	120e	<20	14e	0.17	14.6	57.14	7.5	33.23	8.1
C5	24 Jan 2023	939	1	<2	<2	<2	1.00	13.9	63.53	7.8	33.23	8.1
C5	24 Jan 2023	939	3	<2	<2	<2	1.00	13.9	60.84	7.7	33.24	8.1
C5	24 Jan 2023	939	9	2e	2e	<2	1.00	13.9	60.57	7.7	33.24	8.1
C5	31 Jan 2023	942	1	2e	<2	<2	1.00	13.8	82.45	8.1	33.17	8.1
C5	31 Jan 2023	942	3	<2	<2	<2	1.00	13.7	81.46	8.1	33.18	8.1
C5	31 Jan 2023	942	9	<2	<2	<2	1.00	13.7	77.77	7.9	33.20	8.1
C6	04 Jan 2023	904	1	2e	<2	<2	1.00	14.6	55.82	7.5	33.30	8.0
C6	04 Jan 2023	904	3	<20	<2	<2	0.10	14.6	55.53	7.5	33.30	8.0
C6	04 Jan 2023	904	9	<20	<2	<2	0.10	14.6	50.63	7.4	33.31	8.0
C6	12 Jan 2023	900	1	<2	<2	<2	1.00	14.8	58.14	7.9	33.33	8.1
C6	12 Jan 2023	900	3	4e	<2	<2	0.50	14.8	58.14	7.9	33.34	8.1
C6	12 Jan 2023	900	9	<20	2e	<2	0.10	14.7	56.84	7.8	33.34	8.1
C6	18 Jan 2023	859	1	60	4e	4e	0.07	14.6	56.46	7.8	33.28	8.1
C6	18 Jan 2023	859	3	60e	4e	10e	0.07	14.6	55.23	7.6	33.28	8.1
C6	18 Jan 2023	859	9	60e	8e	10e	0.13	14.6	51.16	7.5	33.28	8.1

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
C6	24 Jan 2023	928	1	2e	<2	<2	1.00	14.0	71.69	7.8	33.24	8.1
C6	24 Jan 2023	928	3	<2	<2	<2	1.00	14.0	71.32	7.7	33.24	8.1
C6	24 Jan 2023	928	9	20e	2e	<2	0.10	14.0	66.95	7.2	33.28	8.0
C6	31 Jan 2023	932	1	<2	<2	<2	1.00	13.6	83.28	8.1	33.18	8.1
C6	31 Jan 2023	932	3	2e	<2	<2	1.00	13.5	82.83	8.1	33.18	8.1
C6	31 Jan 2023	932	9	<2	<2	<2	1.00	13.6	83.83	7.8	33.21	8.1
C7	04 Jan 2023	832	1	2e	<2	<2	1.00	14.6	83.13	7.8	33.35	8.1
C7	04 Jan 2023	832	12	<2	<2	<2	1.00	14.6	83.42	7.8	33.35	8.1
C7	04 Jan 2023	832	18	6e	<2	<2	0.33	14.5	76.32	7.5	33.33	8.1
C7	12 Jan 2023	828	1	<2	<2	<2	1.00	14.8	69.98	7.9	33.35	8.1
C7	12 Jan 2023	828	12	6e	2e	<2	0.33	14.8	70.15	7.8	33.36	8.1
C7	12 Jan 2023	828	18	<2	<2	<2	1.00	14.8	70.85	7.7	33.38	8.1
C7	18 Jan 2023	826	1	20e	4e	4e	0.20	14.6	67.48	7.9	33.08	8.1
C7	18 Jan 2023	826	12	24e	4e	4e	0.17	14.8	78.83	7.7	33.28	8.1
C7	18 Jan 2023	826	18	44	6e	2e	0.14	14.4	48.92	7.2	33.33	8.1
C7	24 Jan 2023	856	1	<2	<2	<2	1.00	14.3	86.74	8.1	33.27	8.1
C7	24 Jan 2023	856	12	<2	<2	<2	1.00	14.3	86.86	8.1	33.28	8.1
C7	24 Jan 2023	856	18	<2	<2	<2	1.00	13.9	88.01	6.9	33.34	8.1
C7	31 Jan 2023	900	1	2e	4e	6e	2.00	13.6	82.35	8.2	33.23	8.1
C7	31 Jan 2023	900	12	<2	<2	<2	1.00	13.6	85.58	7.8	33.28	8.1
C7	31 Jan 2023	900	18	<2	<2	<2	1.00	13.6	87.96	7.6	33.29	8.1
C8	04 Jan 2023	842	1	4e	2e	<2	0.50	14.4	78.10	7.5	33.29	8.0
C8	04 Jan 2023	842	12	4e	<2	<2	0.50	14.4	80.38	7.5	33.30	8.0
C8	04 Jan 2023	842	18	<20	2e	2e	0.10	14.4	75.73	7.5	33.32	8.0
C8	12 Jan 2023	841	1	<20	<2	<2	0.10	14.7	65.59	8.0	33.30	8.1
C8	12 Jan 2023	841	12	<2	<2	<2	1.00	14.8	74.79	7.9	33.37	8.1
C8	12 Jan 2023	841	18	4e	<2	<2	0.50	14.8	70.63	7.9	33.37	8.1
C8	18 Jan 2023	837	1	12e	<2	<2	0.17	14.6	56.13	8.1	33.11	8.1
C8	18 Jan 2023	837	12	20e	2e	<2	0.10	14.8	75.92	7.7	33.30	8.1
C8	18 Jan 2023	837	18	12e	4e	<2	0.33	14.7	69.61	7.6	33.31	8.1
C8	24 Jan 2023	907	1	36e	<2	<2	0.06	14.3	85.39	8.1	33.24	8.1
C8	24 Jan 2023	907	12	<2	<2	<2	1.00	14.3	86.06	8.0	33.26	8.1
C8	24 Jan 2023	907	18	6e	<2	<2	0.33	14.0	87.44	7.0	33.33	8.1
C8	31 Jan 2023	912	1	<2	<2	<2	1.00	13.8	83.24	8.2	33.26	8.1
C8	31 Jan 2023	912	12	6e	<2	<2	0.33	13.8	83.34	8.1	33.26	8.1
C8	31 Jan 2023	912	18	8e	6e	<2	0.75	13.7	83.49	7.9	33.29	8.1

ns = not sampled

ND = no data

Table 3.9

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

Station	Date	Parameter	Value
A1	04 Jan 2023	Depth (m)	18
A1	04 Jan 2023	Arrive Time	755
A1	04 Jan 2023	Depart Time	800
A1	04 Jan 2023	Air Temp (C)	14.7
A1	04 Jan 2023	Weather	Drizzle
A1	04 Jan 2023	Visibility (mi)	5
A1	04 Jan 2023	Wind Speed (kts)	9.2
A1	04 Jan 2023	Wind Dir	SE
A1	04 Jan 2023	Water Color	Greenish-Blue
A1	04 Jan 2023	Wave Ht Low (ft)	8
A1	04 Jan 2023	Wave Period (sec)	15
A1	04 Jan 2023	Sea State	Confused Swell
A1	04 Jan 2023	High Tide (ft)	20.51
A1	04 Jan 2023	High Tide Time	730
A1	04 Jan 2023	Low Tide (ft)	-2.2
A1	04 Jan 2023	Low Tide Time	1424
A1	04 Jan 2023	Comments	Lobster Floats
A1	12 Jan 2023	Depth (m)	18
A1	12 Jan 2023	Arrive Time	752
A1	12 Jan 2023	Depart Time	753
A1	12 Jan 2023	Air Temp (C)	15.6
A1	12 Jan 2023	Weather	Clear
A1	12 Jan 2023	Visibility (mi)	11
A1	12 Jan 2023	Wind Speed (kts)	5.2
A1	12 Jan 2023	Wind Dir	E
A1	12 Jan 2023	Water Color	Blue
A1	12 Jan 2023	Wave Ht Low (ft)	5
A1	12 Jan 2023	Wave Period (sec)	16
A1	12 Jan 2023	Sea State	Regular Swell
A1	12 Jan 2023	High Tide (ft)	14.63
A1	12 Jan 2023	High Tide Time	1130
A1	12 Jan 2023	Low Tide (ft)	2.23
A1	12 Jan 2023	Low Tide Time	1830
A1	12 Jan 2023	Comments	none
A1	18 Jan 2023	Depth (m)	18
A1	18 Jan 2023	Arrive Time	740
A1	18 Jan 2023	Depart Time	751
A1	18 Jan 2023	Air Temp (C)	9.8
A1	18 Jan 2023	Weather	Partly Cloudy
A1	18 Jan 2023	Visibility (mi)	8
A1	18 Jan 2023	Wind Speed (kts)	13.3
A1	18 Jan 2023	Wind Dir	E
A1	18 Jan 2023	Water Color	Greenish-Brown
A1	18 Jan 2023	Wave Ht Low (ft)	5
A1	18 Jan 2023	Wave Period (sec)	12
A1	18 Jan 2023	Sea State	Confused Swell
A1	18 Jan 2023	High Tide (ft)	22.05
A1	18 Jan 2023	High Tide Time	630
A1	18 Jan 2023	Low Tide (ft)	-2.85
A1	18 Jan 2023	Low Tide Time	1312
A1	18 Jan 2023	Comments	none
A1	24 Jan 2023	Depth (m)	18
A1	24 Jan 2023	Arrive Time	813

Station	Date	Parameter	Value
A1	24 Jan 2023	Depart Time	821
A1	24 Jan 2023	Air Temp (C)	10.3
A1	24 Jan 2023	Weather	Clear
A1	24 Jan 2023	Visibility (mi)	12
A1	24 Jan 2023	Wind Speed (kts)	12.4
A1	24 Jan 2023	Wind Dir	SE
A1	24 Jan 2023	Water Color	Greenish-Blue
A1	24 Jan 2023	Wave Ht Low (ft)	3
A1	24 Jan 2023	Wave Period (sec)	16
A1	24 Jan 2023	Sea State	Light Chop
A1	24 Jan 2023	High Tide (ft)	6.01
A1	24 Jan 2023	High Tide Time	1024
A1	24 Jan 2023	Low Tide (ft)	-1.01
A1	24 Jan 2023	Low Tide Time	1712
A1	24 Jan 2023	Comments	GPS data error, nominal lat and lon recorded
A1	31 Jan 2023	Depth (m)	19
A1	31 Jan 2023	Arrive Time	813
A1	31 Jan 2023	Depart Time	828
A1	31 Jan 2023	Air Temp (C)	11.7
A1	31 Jan 2023	Weather	Clear
A1	31 Jan 2023	Visibility (mi)	10
A1	31 Jan 2023	Wind Speed (kts)	3.9
A1	31 Jan 2023	Wind Dir	NE
A1	31 Jan 2023	Water Color	Greenish-Blue
A1	31 Jan 2023	Wave Ht Low (ft)	3
A1	31 Jan 2023	Wave Period (sec)	11
A1	31 Jan 2023	Sea State	Calm
A1	31 Jan 2023	High Tide (ft)	5.02
A1	31 Jan 2023	High Tide Time	512
A1	31 Jan 2023	Low Tide (ft)	-0.23
A1	31 Jan 2023	Low Tide Time	1300
A1	31 Jan 2023	Comments	none
A6	04 Jan 2023	Depth (m)	19
A6	04 Jan 2023	Arrive Time	818
A6	04 Jan 2023	Depart Time	827
A6	04 Jan 2023	Air Temp (C)	14.5
A6	04 Jan 2023	Weather	Drizzle
A6	04 Jan 2023	Visibility (mi)	5
A6	04 Jan 2023	Wind Speed (kts)	11.3
A6	04 Jan 2023	Wind Dir	SE
A6	04 Jan 2023	Water Color	Green
A6	04 Jan 2023	Wave Ht Low (ft)	8
A6	04 Jan 2023	Wave Period (sec)	15
A6	04 Jan 2023	Sea State	Confused Swell
A6	04 Jan 2023	High Tide (ft)	20.51
A6	04 Jan 2023	High Tide Time	730
A6	04 Jan 2023	Low Tide (ft)	-2.2
A6	04 Jan 2023	Low Tide Time	1424
A6	04 Jan 2023	Comments	Kelp; Lobster Floats
A6	12 Jan 2023	Depth (m)	20
A6	12 Jan 2023	Arrive Time	812
A6	12 Jan 2023	Depart Time	818
A6	12 Jan 2023	Air Temp (C)	14.9
A6	12 Jan 2023	Weather	Clear
A6	12 Jan 2023	Visibility (mi)	11
A6	12 Jan 2023	Wind Speed (kts)	4.8
A6	12 Jan 2023	Wind Dir	E
A6	12 Jan 2023	Water Color	Greenish-Blue

Station	Date	Parameter	Value
A6	12 Jan 2023	Wave Ht Low (ft)	5
A6	12 Jan 2023	Wave Period (sec)	16
A6	12 Jan 2023	Sea State	Regular Swell
A6	12 Jan 2023	High Tide (ft)	14.63
A6	12 Jan 2023	High Tide Time	1130
A6	12 Jan 2023	Low Tide (ft)	2.23
A6	12 Jan 2023	Low Tide Time	1830
A6	12 Jan 2023	Comments	none
A6	18 Jan 2023	Depth (m)	18
A6	18 Jan 2023	Arrive Time	809
A6	18 Jan 2023	Depart Time	818
A6	18 Jan 2023	Air Temp (C)	9.9
A6	18 Jan 2023	Weather	Partly Cloudy
A6	18 Jan 2023	Visibility (mi)	8
A6	18 Jan 2023	Wind Speed (kts)	8.7
A6	18 Jan 2023	Wind Dir	E
A6	18 Jan 2023	Water Color	Greenish-Brown
A6	18 Jan 2023	Wave Ht Low (ft)	5
A6	18 Jan 2023	Wave Period (sec)	12
A6	18 Jan 2023	Sea State	Confused Swell
A6	18 Jan 2023	High Tide (ft)	22.05
A6	18 Jan 2023	High Tide Time	630
A6	18 Jan 2023	Low Tide (ft)	-2.85
A6	18 Jan 2023	Low Tide Time	1312
A6	18 Jan 2023	Comments	none
A6	24 Jan 2023	Depth (m)	18
A6	24 Jan 2023	Arrive Time	838
A6	24 Jan 2023	Depart Time	847
A6	24 Jan 2023	Air Temp (C)	11.7
A6	24 Jan 2023	Weather	Clear
A6	24 Jan 2023	Visibility (mi)	12
A6	24 Jan 2023	Wind Speed (kts)	2.6
A6	24 Jan 2023	Wind Dir	NE
A6	24 Jan 2023	Water Color	Greenish-Blue
A6	24 Jan 2023	Wave Ht Low (ft)	3
A6	24 Jan 2023	Wave Period (sec)	16
A6	24 Jan 2023	Sea State	Light Chop
A6	24 Jan 2023	High Tide (ft)	6.01
A6	24 Jan 2023	High Tide Time	1024
A6	24 Jan 2023	Low Tide (ft)	-1.01
A6	24 Jan 2023	Low Tide Time	1712
A6	24 Jan 2023	Comments	GPS data error, nominal lat and lon recorded
A6	31 Jan 2023	Depth (m)	18
A6	31 Jan 2023	Arrive Time	845
A6	31 Jan 2023	Depart Time	851
A6	31 Jan 2023	Air Temp (C)	11.5
A6	31 Jan 2023	Weather	Clear
A6	31 Jan 2023	Visibility (mi)	10
A6	31 Jan 2023	Wind Speed (kts)	4.4
A6	31 Jan 2023	Wind Dir	NW
A6	31 Jan 2023	Water Color	Greenish-Blue
A6	31 Jan 2023	Wave Ht Low (ft)	3
A6	31 Jan 2023	Wave Period (sec)	11
A6	31 Jan 2023	Sea State	Calm
A6	31 Jan 2023	High Tide (ft)	5.02
A6	31 Jan 2023	High Tide Time	512
A6	31 Jan 2023	Low Tide (ft)	-0.23
A6	31 Jan 2023	Low Tide Time	1300

Station	Date	Parameter	Value
A6	31 Jan 2023	Comments	none
A7	04 Jan 2023	Depth (m)	17
A7	04 Jan 2023	Arrive Time	807
A7	04 Jan 2023	Depart Time	813
A7	04 Jan 2023	Air Temp (C)	14.5
A7	04 Jan 2023	Weather	Drizzle
A7	04 Jan 2023	Visibility (mi)	5
A7	04 Jan 2023	Wind Speed (kts)	14
A7	04 Jan 2023	Wind Dir	SE
A7	04 Jan 2023	Water Color	Greenish-Blue
A7	04 Jan 2023	Wave Ht Low (ft)	8
A7	04 Jan 2023	Wave Period (sec)	15
A7	04 Jan 2023	Sea State	Confused Swell
A7	04 Jan 2023	High Tide (ft)	20.51
A7	04 Jan 2023	High Tide Time	730
A7	04 Jan 2023	Low Tide (ft)	-2.2
A7	04 Jan 2023	Low Tide Time	1424
A7	04 Jan 2023	Comments	Lobster Floats
A7	12 Jan 2023	Depth (m)	3
A7	12 Jan 2023	Arrive Time	800
A7	12 Jan 2023	Depart Time	803
A7	12 Jan 2023	Air Temp (C)	15
A7	12 Jan 2023	Weather	Clear
A7	12 Jan 2023	Visibility (mi)	11
A7	12 Jan 2023	Wind Speed (kts)	1.8
A7	12 Jan 2023	Wind Dir	NE
A7	12 Jan 2023	Water Color	Greenish-Blue
A7	12 Jan 2023	Wave Ht Low (ft)	5
A7	12 Jan 2023	Wave Period (sec)	16
A7	12 Jan 2023	Sea State	Regular Swell
A7	12 Jan 2023	High Tide (ft)	14.63
A7	12 Jan 2023	High Tide Time	1130
A7	12 Jan 2023	Low Tide (ft)	2.23
A7	12 Jan 2023	Low Tide Time	1830
A7	12 Jan 2023	Comments	none
A7	18 Jan 2023	Depth (m)	18
A7	18 Jan 2023	Arrive Time	753
A7	18 Jan 2023	Depart Time	802
A7	18 Jan 2023	Air Temp (C)	9.8
A7	18 Jan 2023	Weather	Partly Cloudy
A7	18 Jan 2023	Visibility (mi)	8
A7	18 Jan 2023	Wind Speed (kts)	6.6
A7	18 Jan 2023	Wind Dir	E
A7	18 Jan 2023	Water Color	Greenish-Brown
A7	18 Jan 2023	Wave Ht Low (ft)	5
A7	18 Jan 2023	Wave Period (sec)	12
A7	18 Jan 2023	Sea State	Confused Swell
A7	18 Jan 2023	High Tide (ft)	22.05
A7	18 Jan 2023	High Tide Time	630
A7	18 Jan 2023	Low Tide (ft)	-2.85
A7	18 Jan 2023	Low Tide Time	1312
A7	18 Jan 2023	Comments	none
A7	24 Jan 2023	Depth (m)	18
A7	24 Jan 2023	Arrive Time	827
A7	24 Jan 2023	Depart Time	834
A7	24 Jan 2023	Air Temp (C)	10.5
A7	24 Jan 2023	Weather	Clear

Station	Date	Parameter	Value
A7	24 Jan 2023	Visibility (mi)	12
A7	24 Jan 2023	Wind Speed (kts)	5.3
A7	24 Jan 2023	Wind Dir	E
A7	24 Jan 2023	Water Color	Greenish-Blue
A7	24 Jan 2023	Wave Ht Low (ft)	3
A7	24 Jan 2023	Wave Period (sec)	16
A7	24 Jan 2023	Sea State	Light Chop
A7	24 Jan 2023	High Tide (ft)	6.01
A7	24 Jan 2023	High Tide Time	1024
A7	24 Jan 2023	Low Tide (ft)	-1.01
A7	24 Jan 2023	Low Tide Time	1712
A7	24 Jan 2023	Comments	GPS data error, nominal lat and lon recorded
A7	31 Jan 2023	Depth (m)	20
A7	31 Jan 2023	Arrive Time	833
A7	31 Jan 2023	Depart Time	837
A7	31 Jan 2023	Air Temp (C)	11.5
A7	31 Jan 2023	Weather	Clear
A7	31 Jan 2023	Visibility (mi)	10
A7	31 Jan 2023	Wind Speed (kts)	3.9
A7	31 Jan 2023	Wind Dir	N
A7	31 Jan 2023	Water Color	Greenish-Blue
A7	31 Jan 2023	Wave Ht Low (ft)	3
A7	31 Jan 2023	Wave Period (sec)	11
A7	31 Jan 2023	Sea State	Calm
A7	31 Jan 2023	High Tide (ft)	5.02
A7	31 Jan 2023	High Tide Time	512
A7	31 Jan 2023	Low Tide (ft)	-0.23
A7	31 Jan 2023	Low Tide Time	1300
A7	31 Jan 2023	Comments	none
C4	04 Jan 2023	Depth (m)	11
C4	04 Jan 2023	Arrive Time	924
C4	04 Jan 2023	Depart Time	929
C4	04 Jan 2023	Air Temp (C)	15.1
C4	04 Jan 2023	Weather	Drizzle
C4	04 Jan 2023	Visibility (mi)	7
C4	04 Jan 2023	Wind Speed (kts)	11.2
C4	04 Jan 2023	Wind Dir	SE
C4	04 Jan 2023	Water Color	Green
C4	04 Jan 2023	Wave Ht Low (ft)	7
C4	04 Jan 2023	Wave Period (sec)	16
C4	04 Jan 2023	Sea State	Confused Swell
C4	04 Jan 2023	High Tide (ft)	20.51
C4	04 Jan 2023	High Tide Time	730
C4	04 Jan 2023	Low Tide (ft)	-2.2
C4	04 Jan 2023	Low Tide Time	1424
C4	04 Jan 2023	Comments	Kelp; Lobster Floats
C4	12 Jan 2023	Depth (m)	11
C4	12 Jan 2023	Arrive Time	920
C4	12 Jan 2023	Depart Time	922
C4	12 Jan 2023	Air Temp (C)	17.4
C4	12 Jan 2023	Weather	Clear
C4	12 Jan 2023	Visibility (mi)	11
C4	12 Jan 2023	Wind Speed (kts)	5.7
C4	12 Jan 2023	Wind Dir	E
C4	12 Jan 2023	Water Color	Blueish-Green
C4	12 Jan 2023	Wave Ht Low (ft)	6
C4	12 Jan 2023	Wave Period (sec)	13
C4	12 Jan 2023	Sea State	Regular Swell

Station	Date	Parameter	Value
C4	12 Jan 2023	High Tide (ft)	14.63
C4	12 Jan 2023	High Tide Time	1130
C4	12 Jan 2023	Low Tide (ft)	2.23
C4	12 Jan 2023	Low Tide Time	1830
C4	12 Jan 2023	Comments	none
C4	18 Jan 2023	Depth (m)	11
C4	18 Jan 2023	Arrive Time	919
C4	18 Jan 2023	Depart Time	922
C4	18 Jan 2023	Air Temp (C)	10.5
C4	18 Jan 2023	Weather	Partly Cloudy
C4	18 Jan 2023	Visibility (mi)	10
C4	18 Jan 2023	Wind Speed (kts)	12.5
C4	18 Jan 2023	Wind Dir	E
C4	18 Jan 2023	Water Color	Greenish-Brown
C4	18 Jan 2023	Wave Ht Low (ft)	4
C4	18 Jan 2023	Wave Period (sec)	12
C4	18 Jan 2023	Sea State	Confused Swell
C4	18 Jan 2023	High Tide (ft)	22.05
C4	18 Jan 2023	High Tide Time	630
C4	18 Jan 2023	Low Tide (ft)	-2.85
C4	18 Jan 2023	Low Tide Time	1312
C4	18 Jan 2023	Comments	none
C4	24 Jan 2023	Depth (m)	9
C4	24 Jan 2023	Arrive Time	951
C4	24 Jan 2023	Depart Time	954
C4	24 Jan 2023	Air Temp (C)	12
C4	24 Jan 2023	Weather	Clear
C4	24 Jan 2023	Visibility (mi)	12
C4	24 Jan 2023	Wind Speed (kts)	9.1
C4	24 Jan 2023	Wind Dir	E
C4	24 Jan 2023	Water Color	Greenish-Blue
C4	24 Jan 2023	Wave Ht Low (ft)	3
C4	24 Jan 2023	Wave Period (sec)	16
C4	24 Jan 2023	Sea State	Light Chop
C4	24 Jan 2023	High Tide (ft)	6.01
C4	24 Jan 2023	High Tide Time	1024
C4	24 Jan 2023	Low Tide (ft)	-1.01
C4	24 Jan 2023	Low Tide Time	1712
C4	24 Jan 2023	Comments	GPS data error, nominal lat and lon recorded
C4	31 Jan 2023	Depth (m)	11
C4	31 Jan 2023	Arrive Time	952
C4	31 Jan 2023	Depart Time	957
C4	31 Jan 2023	Air Temp (C)	12.4
C4	31 Jan 2023	Weather	Clear
C4	31 Jan 2023	Visibility (mi)	10
C4	31 Jan 2023	Wind Speed (kts)	5
C4	31 Jan 2023	Wind Dir	SW
C4	31 Jan 2023	Water Color	Greenish-Blue
C4	31 Jan 2023	Wave Ht Low (ft)	3
C4	31 Jan 2023	Wave Period (sec)	11
C4	31 Jan 2023	Sea State	Calm
C4	31 Jan 2023	High Tide (ft)	5.02
C4	31 Jan 2023	High Tide Time	512
C4	31 Jan 2023	Low Tide (ft)	-0.23
C4	31 Jan 2023	Low Tide Time	1300
C4	31 Jan 2023	Comments	none
C5	04 Jan 2023	Depth (m)	9

Station	Date	Parameter	Value
C5	04 Jan 2023	Arrive Time	914
C5	04 Jan 2023	Depart Time	919
C5	04 Jan 2023	Air Temp (C)	15
C5	04 Jan 2023	Weather	Drizzle
C5	04 Jan 2023	Visibility (mi)	7
C5	04 Jan 2023	Wind Speed (kts)	9.9
C5	04 Jan 2023	Wind Dir	SE
C5	04 Jan 2023	Water Color	Green
C5	04 Jan 2023	Wave Ht Low (ft)	7
C5	04 Jan 2023	Wave Period (sec)	16
C5	04 Jan 2023	Sea State	Confused Swell
C5	04 Jan 2023	High Tide (ft)	20.51
C5	04 Jan 2023	High Tide Time	730
C5	04 Jan 2023	Low Tide (ft)	-2.2
C5	04 Jan 2023	Low Tide Time	1424
C5	04 Jan 2023	Comments	Kelp; Lobster Floats
C5	12 Jan 2023	Depth (m)	12
C5	12 Jan 2023	Arrive Time	911
C5	12 Jan 2023	Depart Time	914
C5	12 Jan 2023	Air Temp (C)	16.7
C5	12 Jan 2023	Weather	Clear
C5	12 Jan 2023	Visibility (mi)	11
C5	12 Jan 2023	Wind Speed (kts)	6.7
C5	12 Jan 2023	Wind Dir	E
C5	12 Jan 2023	Water Color	Blueish-Green
C5	12 Jan 2023	Wave Ht Low (ft)	6
C5	12 Jan 2023	Wave Period (sec)	13
C5	12 Jan 2023	Sea State	Regular Swell
C5	12 Jan 2023	High Tide (ft)	14.63
C5	12 Jan 2023	High Tide Time	1130
C5	12 Jan 2023	Low Tide (ft)	2.23
C5	12 Jan 2023	Low Tide Time	1830
C5	12 Jan 2023	Comments	none
C5	18 Jan 2023	Depth (m)	11
C5	18 Jan 2023	Arrive Time	909
C5	18 Jan 2023	Depart Time	913
C5	18 Jan 2023	Air Temp (C)	10.7
C5	18 Jan 2023	Weather	Partly Cloudy
C5	18 Jan 2023	Visibility (mi)	10
C5	18 Jan 2023	Wind Speed (kts)	13
C5	18 Jan 2023	Wind Dir	E
C5	18 Jan 2023	Water Color	Greenish-Brown
C5	18 Jan 2023	Wave Ht Low (ft)	4
C5	18 Jan 2023	Wave Period (sec)	12
C5	18 Jan 2023	Sea State	Confused Swell
C5	18 Jan 2023	High Tide (ft)	22.05
C5	18 Jan 2023	High Tide Time	630
C5	18 Jan 2023	Low Tide (ft)	-2.85
C5	18 Jan 2023	Low Tide Time	1312
C5	18 Jan 2023	Comments	none
C5	24 Jan 2023	Depth (m)	9
C5	24 Jan 2023	Arrive Time	939
C5	24 Jan 2023	Depart Time	943
C5	24 Jan 2023	Air Temp (C)	11.7
C5	24 Jan 2023	Weather	Clear
C5	24 Jan 2023	Visibility (mi)	12
C5	24 Jan 2023	Wind Speed (kts)	7.5
C5	24 Jan 2023	Wind Dir	S

Station	Date	Parameter	Value
C5	24 Jan 2023	Water Color	Greenish-Blue
C5	24 Jan 2023	Wave Ht Low (ft)	3
C5	24 Jan 2023	Wave Period (sec)	16
C5	24 Jan 2023	Sea State	Light Chop
C5	24 Jan 2023	High Tide (ft)	6.01
C5	24 Jan 2023	High Tide Time	1024
C5	24 Jan 2023	Low Tide (ft)	-1.01
C5	24 Jan 2023	Low Tide Time	1712
C5	24 Jan 2023	Comments	GPS data error, nominal lat and lon recorded
C5	31 Jan 2023	Depth (m)	9
C5	31 Jan 2023	Arrive Time	942
C5	31 Jan 2023	Depart Time	947
C5	31 Jan 2023	Air Temp (C)	12.7
C5	31 Jan 2023	Weather	Clear
C5	31 Jan 2023	Visibility (mi)	10
C5	31 Jan 2023	Wind Speed (kts)	1.7
C5	31 Jan 2023	Wind Dir	NW
C5	31 Jan 2023	Water Color	Greenish-Blue
C5	31 Jan 2023	Wave Ht Low (ft)	3
C5	31 Jan 2023	Wave Period (sec)	11
C5	31 Jan 2023	Sea State	Calm
C5	31 Jan 2023	High Tide (ft)	5.02
C5	31 Jan 2023	High Tide Time	512
C5	31 Jan 2023	Low Tide (ft)	-0.23
C5	31 Jan 2023	Low Tide Time	1300
C5	31 Jan 2023	Comments	none
C6	04 Jan 2023	Depth (m)	9
C6	04 Jan 2023	Arrive Time	904
C6	04 Jan 2023	Depart Time	908
C6	04 Jan 2023	Air Temp (C)	16.2
C6	04 Jan 2023	Weather	Drizzle
C6	04 Jan 2023	Visibility (mi)	7
C6	04 Jan 2023	Wind Speed (kts)	10.5
C6	04 Jan 2023	Wind Dir	SE
C6	04 Jan 2023	Water Color	Green
C6	04 Jan 2023	Wave Ht Low (ft)	8
C6	04 Jan 2023	Wave Period (sec)	15
C6	04 Jan 2023	Sea State	Confused Swell
C6	04 Jan 2023	High Tide (ft)	20.51
C6	04 Jan 2023	High Tide Time	730
C6	04 Jan 2023	Low Tide (ft)	-2.2
C6	04 Jan 2023	Low Tide Time	1424
C6	04 Jan 2023	Comments	Kelp
C6	12 Jan 2023	Depth (m)	11
C6	12 Jan 2023	Arrive Time	900
C6	12 Jan 2023	Depart Time	904
C6	12 Jan 2023	Air Temp (C)	15.4
C6	12 Jan 2023	Weather	Clear
C6	12 Jan 2023	Visibility (mi)	11
C6	12 Jan 2023	Wind Speed (kts)	2
C6	12 Jan 2023	Wind Dir	NE
C6	12 Jan 2023	Water Color	Blueish-Green
C6	12 Jan 2023	Wave Ht Low (ft)	6
C6	12 Jan 2023	Wave Period (sec)	13
C6	12 Jan 2023	Sea State	Regular Swell
C6	12 Jan 2023	High Tide (ft)	14.63
C6	12 Jan 2023	High Tide Time	1130
C6	12 Jan 2023	Low Tide (ft)	2.23

Station	Date	Parameter	Value
C6	12 Jan 2023	Low Tide Time	1830
C6	12 Jan 2023	Comments	none
C6	18 Jan 2023	Depth (m)	10
C6	18 Jan 2023	Arrive Time	859
C6	18 Jan 2023	Depart Time	902
C6	18 Jan 2023	Air Temp (C)	10.9
C6	18 Jan 2023	Weather	Partly Cloudy
C6	18 Jan 2023	Visibility (mi)	10
C6	18 Jan 2023	Wind Speed (kts)	13.9
C6	18 Jan 2023	Wind Dir	SE
C6	18 Jan 2023	Water Color	Greenish-Brown
C6	18 Jan 2023	Wave Ht Low (ft)	5
C6	18 Jan 2023	Wave Period (sec)	12
C6	18 Jan 2023	Sea State	Confused Swell
C6	18 Jan 2023	High Tide (ft)	22.05
C6	18 Jan 2023	High Tide Time	630
C6	18 Jan 2023	Low Tide (ft)	-2.85
C6	18 Jan 2023	Low Tide Time	1312
C6	18 Jan 2023	Comments	none
C6	24 Jan 2023	Depth (m)	9
C6	24 Jan 2023	Arrive Time	928
C6	24 Jan 2023	Depart Time	932
C6	24 Jan 2023	Air Temp (C)	11.6
C6	24 Jan 2023	Weather	Clear
C6	24 Jan 2023	Visibility (mi)	12
C6	24 Jan 2023	Wind Speed (kts)	3.9
C6	24 Jan 2023	Wind Dir	SE
C6	24 Jan 2023	Water Color	Greenish-Blue
C6	24 Jan 2023	Wave Ht Low (ft)	3
C6	24 Jan 2023	Wave Period (sec)	16
C6	24 Jan 2023	Sea State	Light Chop
C6	24 Jan 2023	High Tide (ft)	6.01
C6	24 Jan 2023	High Tide Time	1024
C6	24 Jan 2023	Low Tide (ft)	-1.01
C6	24 Jan 2023	Low Tide Time	1712
C6	24 Jan 2023	Comments	GPS data error, nominal lat and lon recorded
C6	31 Jan 2023	Depth (m)	10
C6	31 Jan 2023	Arrive Time	932
C6	31 Jan 2023	Depart Time	935
C6	31 Jan 2023	Air Temp (C)	12.6
C6	31 Jan 2023	Weather	Clear
C6	31 Jan 2023	Visibility (mi)	10
C6	31 Jan 2023	Wind Speed (kts)	5.1
C6	31 Jan 2023	Wind Dir	N
C6	31 Jan 2023	Water Color	Greenish-Blue
C6	31 Jan 2023	Wave Ht Low (ft)	3
C6	31 Jan 2023	Wave Period (sec)	11
C6	31 Jan 2023	Sea State	Calm
C6	31 Jan 2023	High Tide (ft)	5.02
C6	31 Jan 2023	High Tide Time	512
C6	31 Jan 2023	Low Tide (ft)	-0.23
C6	31 Jan 2023	Low Tide Time	1300
C6	31 Jan 2023	Comments	none
C7	04 Jan 2023	Depth (m)	18
C7	04 Jan 2023	Arrive Time	832
C7	04 Jan 2023	Depart Time	837
C7	04 Jan 2023	Air Temp (C)	14.6

Station	Date	Parameter	Value
C7	04 Jan 2023	Weather	Drizzle
C7	04 Jan 2023	Visibility (mi)	5
C7	04 Jan 2023	Wind Speed (kts)	10.1
C7	04 Jan 2023	Wind Dir	SE
C7	04 Jan 2023	Water Color	Green
C7	04 Jan 2023	Wave Ht Low (ft)	8
C7	04 Jan 2023	Wave Period (sec)	15
C7	04 Jan 2023	Sea State	Confused Swell
C7	04 Jan 2023	High Tide (ft)	20.51
C7	04 Jan 2023	High Tide Time	730
C7	04 Jan 2023	Low Tide (ft)	-2.2
C7	04 Jan 2023	Low Tide Time	1424
C7	04 Jan 2023	Comments	Kelp
C7	12 Jan 2023	Depth (m)	19
C7	12 Jan 2023	Arrive Time	828
C7	12 Jan 2023	Depart Time	831
C7	12 Jan 2023	Air Temp (C)	13.9
C7	12 Jan 2023	Weather	Clear
C7	12 Jan 2023	Visibility (mi)	11
C7	12 Jan 2023	Wind Speed (kts)	3.7
C7	12 Jan 2023	Wind Dir	NE
C7	12 Jan 2023	Water Color	Greenish-Blue
C7	12 Jan 2023	Wave Ht Low (ft)	5
C7	12 Jan 2023	Wave Period (sec)	16
C7	12 Jan 2023	Sea State	Regular Swell
C7	12 Jan 2023	High Tide (ft)	14.63
C7	12 Jan 2023	High Tide Time	1130
C7	12 Jan 2023	Low Tide (ft)	2.23
C7	12 Jan 2023	Low Tide Time	1830
C7	12 Jan 2023	Comments	none
C7	18 Jan 2023	Depth (m)	18
C7	18 Jan 2023	Arrive Time	826
C7	18 Jan 2023	Depart Time	834
C7	18 Jan 2023	Air Temp (C)	11
C7	18 Jan 2023	Weather	Partly Cloudy
C7	18 Jan 2023	Visibility (mi)	8
C7	18 Jan 2023	Wind Speed (kts)	6.6
C7	18 Jan 2023	Wind Dir	E
C7	18 Jan 2023	Water Color	Greenish-Brown
C7	18 Jan 2023	Wave Ht Low (ft)	5
C7	18 Jan 2023	Wave Period (sec)	12
C7	18 Jan 2023	Sea State	Confused Swell
C7	18 Jan 2023	High Tide (ft)	22.05
C7	18 Jan 2023	High Tide Time	630
C7	18 Jan 2023	Low Tide (ft)	-2.85
C7	18 Jan 2023	Low Tide Time	1312
C7	18 Jan 2023	Comments	none
C7	24 Jan 2023	Depth (m)	18
C7	24 Jan 2023	Arrive Time	856
C7	24 Jan 2023	Depart Time	902
C7	24 Jan 2023	Air Temp (C)	11.7
C7	24 Jan 2023	Weather	Clear
C7	24 Jan 2023	Visibility (mi)	12
C7	24 Jan 2023	Wind Speed (kts)	4.7
C7	24 Jan 2023	Wind Dir	N
C7	24 Jan 2023	Water Color	Greenish-Blue
C7	24 Jan 2023	Wave Ht Low (ft)	3
C7	24 Jan 2023	Wave Period (sec)	16

Station	Date	Parameter	Value
C7	24 Jan 2023	Sea State	Light Chop
C7	24 Jan 2023	High Tide (ft)	6.01
C7	24 Jan 2023	High Tide Time	1024
C7	24 Jan 2023	Low Tide (ft)	-1.01
C7	24 Jan 2023	Low Tide Time	1712
C7	24 Jan 2023	Comments	GPS data error, nominal lat and lon recorded
C7	31 Jan 2023	Depth (m)	18
C7	31 Jan 2023	Arrive Time	900
C7	31 Jan 2023	Depart Time	905
C7	31 Jan 2023	Air Temp (C)	11.6
C7	31 Jan 2023	Weather	Clear
C7	31 Jan 2023	Visibility (mi)	10
C7	31 Jan 2023	Wind Speed (kts)	2.9
C7	31 Jan 2023	Wind Dir	NE
C7	31 Jan 2023	Water Color	Greenish-Blue
C7	31 Jan 2023	Wave Ht Low (ft)	3
C7	31 Jan 2023	Wave Period (sec)	11
C7	31 Jan 2023	Sea State	Calm
C7	31 Jan 2023	High Tide (ft)	5.02
C7	31 Jan 2023	High Tide Time	512
C7	31 Jan 2023	Low Tide (ft)	-0.23
C7	31 Jan 2023	Low Tide Time	1300
C7	31 Jan 2023	Comments	none
C8	04 Jan 2023	Depth (m)	20
C8	04 Jan 2023	Arrive Time	842
C8	04 Jan 2023	Depart Time	847
C8	04 Jan 2023	Air Temp (C)	14.7
C8	04 Jan 2023	Weather	Drizzle
C8	04 Jan 2023	Visibility (mi)	5
C8	04 Jan 2023	Wind Speed (kts)	11.4
C8	04 Jan 2023	Wind Dir	SE
C8	04 Jan 2023	Water Color	Green
C8	04 Jan 2023	Wave Ht Low (ft)	8
C8	04 Jan 2023	Wave Period (sec)	15
C8	04 Jan 2023	Sea State	Confused Swell
C8	04 Jan 2023	High Tide (ft)	20.51
C8	04 Jan 2023	High Tide Time	730
C8	04 Jan 2023	Low Tide (ft)	-2.2
C8	04 Jan 2023	Low Tide Time	1424
C8	04 Jan 2023	Comments	Lobster Floats
C8	12 Jan 2023	Depth (m)	19
C8	12 Jan 2023	Arrive Time	841
C8	12 Jan 2023	Depart Time	844
C8	12 Jan 2023	Air Temp (C)	13.9
C8	12 Jan 2023	Weather	Clear
C8	12 Jan 2023	Visibility (mi)	11
C8	12 Jan 2023	Wind Speed (kts)	5.6
C8	12 Jan 2023	Wind Dir	NE
C8	12 Jan 2023	Water Color	Greenish-Blue
C8	12 Jan 2023	Wave Ht Low (ft)	6
C8	12 Jan 2023	Wave Period (sec)	13
C8	12 Jan 2023	Sea State	Regular Swell
C8	12 Jan 2023	High Tide (ft)	14.63
C8	12 Jan 2023	High Tide Time	1130
C8	12 Jan 2023	Low Tide (ft)	2.23
C8	12 Jan 2023	Low Tide Time	1830
C8	12 Jan 2023	Comments	none

Station	Date	Parameter	Value
C8	18 Jan 2023	Depth (m)	19
C8	18 Jan 2023	Arrive Time	837
C8	18 Jan 2023	Depart Time	842
C8	18 Jan 2023	Air Temp (C)	10.9
C8	18 Jan 2023	Weather	Partly Cloudy
C8	18 Jan 2023	Visibility (mi)	10
C8	18 Jan 2023	Wind Speed (kts)	9.4
C8	18 Jan 2023	Wind Dir	E
C8	18 Jan 2023	Water Color	Greenish-Brown
C8	18 Jan 2023	Wave Ht Low (ft)	5
C8	18 Jan 2023	Wave Period (sec)	12
C8	18 Jan 2023	Sea State	Confused Swell
C8	18 Jan 2023	High Tide (ft)	22.05
C8	18 Jan 2023	High Tide Time	630
C8	18 Jan 2023	Low Tide (ft)	-2.85
C8	18 Jan 2023	Low Tide Time	1312
C8	18 Jan 2023	Comments	none
C8	24 Jan 2023	Depth (m)	18
C8	24 Jan 2023	Arrive Time	907
C8	24 Jan 2023	Depart Time	912
C8	24 Jan 2023	Air Temp (C)	11.5
C8	24 Jan 2023	Weather	Clear
C8	24 Jan 2023	Visibility (mi)	12
C8	24 Jan 2023	Wind Speed (kts)	5.2
C8	24 Jan 2023	Wind Dir	NE
C8	24 Jan 2023	Water Color	Greenish-Blue
C8	24 Jan 2023	Wave Ht Low (ft)	3
C8	24 Jan 2023	Wave Period (sec)	16
C8	24 Jan 2023	Sea State	Light Chop
C8	24 Jan 2023	High Tide (ft)	6.01
C8	24 Jan 2023	High Tide Time	1024
C8	24 Jan 2023	Low Tide (ft)	-1.01
C8	24 Jan 2023	Low Tide Time	1712
C8	24 Jan 2023	Comments	GPS data error, nominal lat and lon recorded
C8	31 Jan 2023	Depth (m)	19
C8	31 Jan 2023	Arrive Time	912
C8	31 Jan 2023	Depart Time	917
C8	31 Jan 2023	Air Temp (C)	11.5
C8	31 Jan 2023	Weather	Clear
C8	31 Jan 2023	Visibility (mi)	10
C8	31 Jan 2023	Wind Speed (kts)	7.3
C8	31 Jan 2023	Wind Dir	NE
C8	31 Jan 2023	Water Color	Greenish-Blue
C8	31 Jan 2023	Wave Ht Low (ft)	3
C8	31 Jan 2023	Wave Period (sec)	11
C8	31 Jan 2023	Sea State	Calm
C8	31 Jan 2023	High Tide (ft)	5.02
C8	31 Jan 2023	High Tide Time	512
C8	31 Jan 2023	Low Tide (ft)	-0.23
C8	31 Jan 2023	Low Tide Time	1300
C8	31 Jan 2023	Comments	none

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 (σ -t)	Chlor (μ g/L)
A1	04 Jan 2023	1	14.71	71.83	7.9	33.32	8.1	24.7	1.41
A1	04 Jan 2023	2	14.71	73.05	7.9	33.32	8.1	24.7	1.45
A1	04 Jan 2023	3	14.71	78.11	7.9	33.33	8.1	24.7	1.39
A1	04 Jan 2023	4	14.71	78.18	7.9	33.33	8.1	24.7	1.52
A1	04 Jan 2023	5	14.71	77.98	7.9	33.33	8.1	24.7	1.51
A1	04 Jan 2023	6	14.71	77.88	7.9	33.33	8.1	24.7	1.53
A1	04 Jan 2023	7	14.71	77.79	7.9	33.33	8.1	24.7	1.48
A1	04 Jan 2023	8	14.71	77.67	7.9	33.33	8.1	24.7	1.54
A1	04 Jan 2023	9	14.71	77.42	7.9	33.33	8.1	24.7	1.47
A1	04 Jan 2023	10	14.71	76.17	7.9	33.33	8.1	24.7	1.46
A1	04 Jan 2023	11	14.71	76.93	7.9	33.33	8.1	24.7	1.43
A1	04 Jan 2023	12	14.71	75.01	7.9	33.33	8.1	24.7	1.39
A1	04 Jan 2023	13	14.71	69.25	7.8	33.33	8.1	24.7	1.46
A1	04 Jan 2023	14	14.71	70.68	7.8	33.33	8.1	24.7	1.45
A1	04 Jan 2023	15	14.71	72.78	7.9	33.33	8.1	24.7	1.61
A1	04 Jan 2023	16	14.71	75.97	7.6	33.33	8.1	24.7	1.47
A1	04 Jan 2023	17	14.71	76.84	7.4	33.33	8.1	24.7	1.50
A1	04 Jan 2023	18	14.71	75.34	7.8	33.33	8.1	24.7	1.47
A1	04 Jan 2023	19	14.71	67.38	7.9	33.34	8.1	24.8	1.33
A1	04 Jan 2023	20	14.70	66.01	7.8	33.34	8.1	24.8	1.24
A1	12 Jan 2023	1	14.75	77.22	7.9	33.36	8.1	24.8	1.15
A1	12 Jan 2023	2	14.75	77.27	7.8	33.36	8.1	24.8	1.18
A1	12 Jan 2023	3	14.76	72.71	7.8	33.36	8.1	24.8	1.26
A1	12 Jan 2023	4	14.76	76.80	7.8	33.36	8.1	24.8	1.25
A1	12 Jan 2023	5	14.76	77.04	7.8	33.36	8.1	24.8	1.25
A1	12 Jan 2023	6	14.76	77.13	7.8	33.36	8.1	24.8	1.26
A1	12 Jan 2023	7	14.76	77.13	7.8	33.36	8.1	24.8	1.25
A1	12 Jan 2023	8	14.76	77.04	7.8	33.36	8.1	24.8	1.20
A1	12 Jan 2023	9	14.75	76.70	7.8	33.36	8.1	24.8	1.20
A1	12 Jan 2023	10	14.75	76.24	7.8	33.36	8.1	24.8	1.16
A1	12 Jan 2023	11	14.74	75.76	7.7	33.36	8.1	24.8	1.11
A1	12 Jan 2023	12	14.69	74.64	7.7	33.37	8.1	24.8	1.08
A1	12 Jan 2023	13	14.66	71.64	7.6	33.37	8.1	24.8	1.07
A1	12 Jan 2023	14	14.67	70.66	7.7	33.37	8.1	24.8	1.05
A1	12 Jan 2023	15	14.67	67.79	7.6	33.37	8.1	24.8	1.02
A1	12 Jan 2023	16	14.65	66.78	7.6	33.37	8.1	24.8	1.05
A1	12 Jan 2023	17	14.64	65.71	7.6	33.37	8.1	24.8	1.04
A1	12 Jan 2023	18	14.64	63.89	7.6	33.37	8.1	24.8	1.03
A1	12 Jan 2023	19	14.64	63.37	7.6	33.37	8.1	24.8	1.04
A1	12 Jan 2023	20	14.64	63.19	7.6	33.37	8.1	24.8	1.03
A1	18 Jan 2023	1	14.53	56.20	7.7	33.10	8.1	24.6	1.05
A1	18 Jan 2023	2	14.54	55.83	7.7	33.10	8.1	24.6	1.10
A1	18 Jan 2023	3	14.54	55.71	7.7	33.10	8.1	24.6	1.10
A1	18 Jan 2023	4	14.54	56.12	7.6	33.10	8.1	24.6	1.13
A1	18 Jan 2023	5	14.55	55.14	7.6	33.10	8.1	24.6	1.09
A1	18 Jan 2023	6	14.55	56.52	7.7	33.10	8.1	24.6	1.09
A1	18 Jan 2023	7	14.55	56.65	7.6	33.10	8.1	24.6	1.09
A1	18 Jan 2023	8	14.55	56.14	7.6	33.10	8.1	24.6	1.09
A1	18 Jan 2023	9	14.55	56.87	7.6	33.10	8.1	24.6	1.06
A1	18 Jan 2023	10	14.54	58.74	7.6	33.12	8.1	24.6	1.03
A1	18 Jan 2023	11	14.54	61.12	7.6	33.13	8.1	24.6	1.02
A1	18 Jan 2023	12	14.54	61.22	7.6	33.13	8.1	24.6	0.98
A1	18 Jan 2023	13	14.54	60.39	7.6	33.13	8.1	24.6	0.98

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
A1	18 Jan 2023	14	14.54	61.41	7.6	33.13	8.1	24.6	0.99
A1	18 Jan 2023	15	14.54	61.32	7.6	33.14	8.1	24.6	0.97
A1	18 Jan 2023	16	14.54	61.82	7.6	33.14	8.1	24.6	0.96
A1	18 Jan 2023	17	14.54	62.45	7.6	33.15	8.1	24.6	0.96
A1	18 Jan 2023	18	14.54	62.64	7.6	33.15	8.1	24.6	0.98
A1	18 Jan 2023	19	14.54	62.19	7.6	33.15	8.1	24.6	0.94
A1	24 Jan 2023	1	14.12	86.72	8.0	33.28	8.1	24.8	1.17
A1	24 Jan 2023	2	14.12	85.96	8.0	33.28	8.1	24.8	1.16
A1	24 Jan 2023	3	14.13	86.54	8.0	33.28	8.1	24.8	1.29
A1	24 Jan 2023	4	14.15	86.59	8.0	33.28	8.1	24.8	1.37
A1	24 Jan 2023	5	14.15	86.58	8.0	33.28	8.1	24.8	1.51
A1	24 Jan 2023	6	14.15	86.76	8.0	33.28	8.1	24.8	1.66
A1	24 Jan 2023	7	14.16	86.80	7.9	33.28	8.1	24.8	1.65
A1	24 Jan 2023	8	14.16	86.95	7.9	33.29	8.1	24.8	1.66
A1	24 Jan 2023	9	14.17	87.07	7.9	33.29	8.1	24.8	1.65
A1	24 Jan 2023	10	14.16	87.03	7.9	33.29	8.1	24.8	1.64
A1	24 Jan 2023	11	14.16	87.04	7.9	33.29	8.1	24.8	1.64
A1	24 Jan 2023	12	14.16	87.16	7.8	33.29	8.1	24.8	1.51
A1	24 Jan 2023	13	14.13	87.52	7.6	33.31	8.1	24.9	1.43
A1	24 Jan 2023	14	14.05	88.12	7.2	33.33	8.1	24.9	1.22
A1	24 Jan 2023	15	13.85	88.14	6.7	33.35	8.0	24.9	0.99
A1	24 Jan 2023	16	13.59	87.67	6.3	33.38	8.0	25.0	0.85
A1	24 Jan 2023	17	13.34	87.08	6.0	33.41	8.0	25.1	0.70
A1	24 Jan 2023	18	13.14	86.31	5.9	33.42	7.9	25.1	0.55
A1	24 Jan 2023	19	13.04	85.77	6.1	33.44	7.9	25.2	0.53
A1	31 Jan 2023	1	13.87	77.83	8.2	33.27	8.1	24.9	1.53
A1	31 Jan 2023	2	13.87	78.25	8.2	33.27	8.1	24.9	1.50
A1	31 Jan 2023	3	13.87	78.12	8.2	33.27	8.1	24.9	1.72
A1	31 Jan 2023	4	13.88	77.80	8.2	33.27	8.1	24.9	2.08
A1	31 Jan 2023	5	13.88	77.56	8.2	33.27	8.1	24.9	2.07
A1	31 Jan 2023	6	13.88	77.18	8.2	33.27	8.1	24.9	1.92
A1	31 Jan 2023	7	13.88	77.22	8.2	33.27	8.1	24.9	1.96
A1	31 Jan 2023	8	13.88	77.36	8.2	33.27	8.1	24.9	2.01
A1	31 Jan 2023	9	13.88	77.12	8.2	33.27	8.1	24.9	2.05
A1	31 Jan 2023	10	13.88	76.88	8.2	33.27	8.1	24.9	1.94
A1	31 Jan 2023	11	13.88	77.09	8.2	33.27	8.1	24.9	1.91
A1	31 Jan 2023	12	13.88	76.94	8.2	33.27	8.1	24.9	1.91
A1	31 Jan 2023	13	13.88	77.08	8.2	33.27	8.1	24.9	1.95
A1	31 Jan 2023	14	13.88	77.10	8.2	33.27	8.1	24.9	2.09
A1	31 Jan 2023	15	13.88	76.75	8.2	33.27	8.1	24.9	2.12
A1	31 Jan 2023	16	13.88	77.03	8.2	33.27	8.1	24.9	2.01
A1	31 Jan 2023	17	13.88	77.06	8.2	33.27	8.1	24.9	1.91
A1	31 Jan 2023	18	13.88	77.10	8.1	33.27	8.1	24.9	1.82
A6	04 Jan 2023	1	14.56	73.89	7.6	33.31	8.1	24.8	0.82
A6	04 Jan 2023	2	14.56	72.91	7.6	33.31	8.1	24.8	0.82
A6	04 Jan 2023	3	14.56	74.35	7.6	33.31	8.1	24.8	0.80
A6	04 Jan 2023	4	14.56	74.10	7.6	33.31	8.1	24.8	0.85
A6	04 Jan 2023	5	14.55	74.26	7.6	33.31	8.1	24.8	0.91
A6	04 Jan 2023	6	14.55	74.04	7.6	33.31	8.1	24.8	0.88
A6	04 Jan 2023	7	14.55	74.81	7.6	33.31	8.1	24.8	0.90
A6	04 Jan 2023	8	14.55	74.72	7.6	33.32	8.1	24.8	0.93
A6	04 Jan 2023	9	14.55	75.10	7.6	33.32	8.1	24.8	0.87
A6	04 Jan 2023	10	14.55	75.46	7.6	33.33	8.1	24.8	0.84
A6	04 Jan 2023	11	14.55	75.28	7.6	33.33	8.1	24.8	0.87
A6	04 Jan 2023	12	14.55	75.29	7.6	33.33	8.1	24.8	0.83
A6	04 Jan 2023	13	14.55	75.57	7.6	33.33	8.1	24.8	0.90
A6	04 Jan 2023	14	14.55	74.86	7.6	33.33	8.1	24.8	0.89
A6	04 Jan 2023	15	14.55	74.67	7.6	33.33	8.1	24.8	0.90

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
A6	04 Jan 2023	16	14.55	74.29	7.7	33.34	8.1	24.8	0.88
A6	04 Jan 2023	17	14.55	73.57	7.7	33.34	8.1	24.8	0.90
A6	04 Jan 2023	18	14.55	72.17	7.7	33.34	8.1	24.8	0.84
A6	12 Jan 2023	1	14.75	65.57	7.9	33.34	8.1	24.7	0.89
A6	12 Jan 2023	2	14.74	65.18	7.9	33.34	8.1	24.7	0.90
A6	12 Jan 2023	3	14.75	64.50	7.9	33.34	8.1	24.7	0.97
A6	12 Jan 2023	4	14.75	63.59	7.9	33.34	8.1	24.7	0.94
A6	12 Jan 2023	5	14.75	62.84	7.9	33.34	8.1	24.7	0.95
A6	12 Jan 2023	6	14.75	62.28	7.9	33.34	8.1	24.7	0.96
A6	12 Jan 2023	7	14.75	62.60	7.9	33.34	8.1	24.7	0.96
A6	12 Jan 2023	8	14.75	62.96	7.9	33.34	8.1	24.7	0.94
A6	12 Jan 2023	9	14.75	63.09	7.9	33.34	8.1	24.7	0.94
A6	12 Jan 2023	10	14.75	62.31	7.9	33.34	8.1	24.7	0.93
A6	12 Jan 2023	11	14.76	62.18	7.9	33.34	8.1	24.7	0.92
A6	12 Jan 2023	12	14.75	62.26	7.9	33.34	8.1	24.7	0.91
A6	12 Jan 2023	13	14.76	62.13	7.9	33.34	8.1	24.7	0.93
A6	12 Jan 2023	14	14.76	62.44	7.8	33.34	8.1	24.7	0.89
A6	12 Jan 2023	15	14.76	61.58	7.8	33.34	8.1	24.7	0.91
A6	12 Jan 2023	16	14.76	61.58	7.8	33.34	8.1	24.7	0.93
A6	12 Jan 2023	17	14.75	61.36	7.7	33.35	8.1	24.8	0.93
A6	12 Jan 2023	18	14.74	57.23	7.7	33.35	8.1	24.8	0.91
A6	12 Jan 2023	19	14.72	55.65	7.6	33.36	8.1	24.8	0.98
A6	12 Jan 2023	20	14.70	40.64	7.5	33.36	8.1	24.8	1.07
A6	18 Jan 2023	1	14.50	63.11	7.6	33.19	8.1	24.7	0.61
A6	18 Jan 2023	2	14.51	62.89	7.6	33.19	8.1	24.7	0.62
A6	18 Jan 2023	3	14.51	62.80	7.6	33.19	8.1	24.7	0.66
A6	18 Jan 2023	4	14.51	63.17	7.6	33.19	8.1	24.7	0.66
A6	18 Jan 2023	5	14.51	63.07	7.5	33.19	8.1	24.7	0.66
A6	18 Jan 2023	6	14.51	62.32	7.5	33.19	8.1	24.7	0.66
A6	18 Jan 2023	7	14.51	63.20	7.5	33.19	8.1	24.7	0.65
A6	18 Jan 2023	8	14.51	63.13	7.5	33.19	8.1	24.7	0.67
A6	18 Jan 2023	9	14.51	63.14	7.5	33.19	8.1	24.7	0.67
A6	18 Jan 2023	10	14.51	63.23	7.5	33.19	8.1	24.7	0.66
A6	18 Jan 2023	11	14.51	62.70	7.5	33.19	8.1	24.7	0.67
A6	18 Jan 2023	12	14.51	63.27	7.5	33.19	8.1	24.7	0.67
A6	18 Jan 2023	13	14.52	62.37	7.5	33.20	8.1	24.7	0.65
A6	18 Jan 2023	14	14.53	61.34	7.5	33.20	8.1	24.7	0.64
A6	18 Jan 2023	15	14.52	62.31	7.5	33.20	8.1	24.7	0.65
A6	18 Jan 2023	16	14.52	61.34	7.5	33.20	8.1	24.7	0.64
A6	18 Jan 2023	17	14.53	61.97	7.5	33.20	8.1	24.7	0.65
A6	18 Jan 2023	18	14.53	61.61	7.5	33.21	8.1	24.7	0.65
A6	18 Jan 2023	19	14.54	60.19	7.4	33.21	8.1	24.7	0.64
A6	18 Jan 2023	20	14.54	59.96	7.4	33.22	8.1	24.7	0.62
A6	18 Jan 2023	21	14.54	60.02	7.5	33.21	8.1	24.7	0.65
A6	24 Jan 2023	1	14.11	85.03	7.7	33.26	8.1	24.8	0.96
A6	24 Jan 2023	2	14.12	83.68	7.7	33.26	8.1	24.8	0.98
A6	24 Jan 2023	3	14.12	84.85	7.7	33.26	8.1	24.8	1.08
A6	24 Jan 2023	4	14.12	84.79	7.7	33.26	8.1	24.8	1.18
A6	24 Jan 2023	5	14.12	84.59	7.7	33.26	8.1	24.8	1.24
A6	24 Jan 2023	6	14.12	84.67	7.7	33.26	8.1	24.8	1.29
A6	24 Jan 2023	7	14.12	84.65	7.7	33.26	8.1	24.8	1.33
A6	24 Jan 2023	8	14.11	84.75	7.7	33.26	8.1	24.8	1.39
A6	24 Jan 2023	9	14.12	84.69	7.7	33.26	8.1	24.8	1.43
A6	24 Jan 2023	10	14.12	83.31	7.7	33.26	8.1	24.8	1.36
A6	24 Jan 2023	11	14.13	84.85	7.7	33.27	8.1	24.8	1.34
A6	24 Jan 2023	12	14.12	84.92	7.6	33.27	8.1	24.8	1.31
A6	24 Jan 2023	13	14.08	85.33	7.5	33.28	8.1	24.8	1.30
A6	24 Jan 2023	14	14.06	85.67	7.3	33.28	8.1	24.8	1.27

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
A6	24 Jan 2023	15	13.87	85.83	6.8	33.31	8.1	24.9	1.05
A6	24 Jan 2023	16	13.12	85.97	6.0	33.43	8.0	25.2	0.84
A6	24 Jan 2023	17	13.15	84.54	5.9	33.40	7.9	25.1	0.62
A6	24 Jan 2023	18	13.18	84.13	5.9	33.38	7.9	25.1	0.55
A6	31 Jan 2023	1	13.65	82.59	8.1	33.20	8.1	24.9	1.53
A6	31 Jan 2023	2	13.65	82.74	8.1	33.20	8.1	24.9	1.57
A6	31 Jan 2023	3	13.65	82.29	8.0	33.20	8.1	24.9	1.71
A6	31 Jan 2023	4	13.65	82.41	8.0	33.20	8.1	24.9	1.81
A6	31 Jan 2023	5	13.64	82.50	8.0	33.20	8.1	24.9	2.05
A6	31 Jan 2023	6	13.64	82.48	8.0	33.20	8.1	24.9	2.09
A6	31 Jan 2023	7	13.64	82.52	8.0	33.20	8.1	24.9	2.19
A6	31 Jan 2023	8	13.64	82.58	8.0	33.20	8.1	24.9	1.97
A6	31 Jan 2023	9	13.65	82.76	8.0	33.20	8.1	24.9	1.98
A6	31 Jan 2023	10	13.65	82.85	8.0	33.20	8.1	24.9	1.84
A6	31 Jan 2023	11	13.65	82.77	8.0	33.20	8.1	24.9	1.83
A6	31 Jan 2023	12	13.66	83.16	8.0	33.21	8.1	24.9	1.66
A6	31 Jan 2023	13	13.66	83.33	7.9	33.21	8.1	24.9	1.77
A6	31 Jan 2023	14	13.67	83.51	7.9	33.21	8.1	24.9	1.79
A6	31 Jan 2023	15	13.66	83.55	7.9	33.21	8.1	24.9	1.56
A6	31 Jan 2023	16	13.66	83.57	7.9	33.21	8.1	24.9	1.53
A6	31 Jan 2023	17	13.66	83.59	7.8	33.22	8.1	24.9	1.49
A6	31 Jan 2023	18	13.66	84.33	7.7	33.23	8.1	24.9	1.25
A6	31 Jan 2023	19	13.65	85.22	7.6	33.23	8.1	24.9	1.00
A7	04 Jan 2023	1	14.59	73.58	7.8	33.29	8.1	24.7	1.74
A7	04 Jan 2023	2	14.59	73.86	7.8	33.30	8.1	24.7	1.93
A7	04 Jan 2023	3	14.59	74.41	7.8	33.30	8.1	24.7	1.94
A7	04 Jan 2023	4	14.59	74.55	7.8	33.30	8.1	24.8	1.96
A7	04 Jan 2023	5	14.59	74.60	7.8	33.30	8.1	24.8	1.96
A7	04 Jan 2023	6	14.59	74.70	7.8	33.30	8.1	24.8	2.01
A7	04 Jan 2023	7	14.58	74.40	7.8	33.30	8.1	24.8	1.96
A7	04 Jan 2023	8	14.58	74.77	7.8	33.31	8.1	24.8	1.91
A7	04 Jan 2023	9	14.57	74.70	7.8	33.32	8.1	24.8	1.64
A7	04 Jan 2023	10	14.57	75.53	7.7	33.32	8.1	24.8	1.52
A7	04 Jan 2023	11	14.56	75.77	7.7	33.33	8.1	24.8	1.27
A7	04 Jan 2023	12	14.56	75.94	7.7	33.34	8.1	24.8	1.14
A7	04 Jan 2023	13	14.55	73.63	7.7	33.34	8.1	24.8	1.06
A7	04 Jan 2023	14	14.55	75.41	7.6	33.34	8.1	24.8	1.01
A7	04 Jan 2023	15	14.55	75.68	7.6	33.34	8.1	24.8	0.97
A7	04 Jan 2023	16	14.55	75.59	7.6	33.35	8.1	24.8	0.96
A7	04 Jan 2023	17	14.55	75.29	7.6	33.35	8.1	24.8	0.94
A7	04 Jan 2023	18	14.55	74.33	7.6	33.35	8.1	24.8	0.89
A7	04 Jan 2023	19	14.56	72.16	7.6	33.35	8.1	24.8	0.95
A7	04 Jan 2023	20	14.56	71.83	7.6	33.35	8.1	24.8	0.90
A7	12 Jan 2023	1	14.76	71.47	7.8	33.35	8.1	24.8	1.10
A7	12 Jan 2023	2	14.76	70.42	7.8	33.33	8.1	24.7	1.11
A7	12 Jan 2023	3	14.76	61.75	7.9	33.35	8.1	24.8	1.09
A7	12 Jan 2023	4	14.77	67.93	7.9	33.35	8.1	24.8	1.11
A7	12 Jan 2023	5	14.77	70.93	7.9	33.35	8.1	24.8	1.19
A7	12 Jan 2023	6	14.77	74.10	7.8	33.35	8.1	24.8	1.19
A7	12 Jan 2023	7	14.77	74.07	7.8	33.35	8.1	24.8	1.19
A7	12 Jan 2023	8	14.77	74.04	7.8	33.35	8.1	24.8	1.15
A7	12 Jan 2023	9	14.76	73.26	7.8	33.35	8.1	24.8	1.11
A7	12 Jan 2023	10	14.76	72.51	7.8	33.35	8.1	24.8	1.13
A7	12 Jan 2023	11	14.76	72.92	7.8	33.35	8.1	24.8	1.10
A7	12 Jan 2023	12	14.76	73.06	7.8	33.35	8.1	24.8	1.10
A7	12 Jan 2023	13	14.76	73.13	7.8	33.35	8.1	24.8	1.13
A7	12 Jan 2023	14	14.76	73.19	7.8	33.35	8.1	24.8	1.07
A7	12 Jan 2023	15	14.76	72.95	7.8	33.35	8.1	24.8	1.03

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
A7	12 Jan 2023	16	14.75	72.53	7.8	33.35	8.1	24.8	1.00
A7	12 Jan 2023	17	14.75	71.76	7.7	33.35	8.1	24.8	0.98
A7	12 Jan 2023	18	14.74	70.55	7.7	33.35	8.1	24.8	0.97
A7	12 Jan 2023	19	14.74	68.14	7.7	33.35	8.1	24.8	0.94
A7	12 Jan 2023	20	14.75	67.59	7.7	33.35	8.1	24.8	0.91
A7	18 Jan 2023	1	14.47	65.47	7.8	33.06	8.1	24.6	0.96
A7	18 Jan 2023	2	14.48	65.53	7.8	33.07	8.1	24.6	0.99
A7	18 Jan 2023	3	14.50	66.00	7.8	33.07	8.1	24.6	1.03
A7	18 Jan 2023	4	14.52	65.66	7.8	33.08	8.1	24.6	1.01
A7	18 Jan 2023	5	14.53	66.59	7.8	33.08	8.1	24.6	1.01
A7	18 Jan 2023	6	14.58	66.80	7.8	33.10	8.1	24.6	1.00
A7	18 Jan 2023	7	14.58	67.93	7.8	33.11	8.1	24.6	0.98
A7	18 Jan 2023	8	14.59	68.06	7.8	33.12	8.1	24.6	0.94
A7	18 Jan 2023	9	14.59	68.73	7.8	33.12	8.1	24.6	0.95
A7	18 Jan 2023	10	14.60	68.92	7.8	33.13	8.1	24.6	0.92
A7	18 Jan 2023	11	14.61	69.70	7.8	33.14	8.1	24.6	0.90
A7	18 Jan 2023	12	14.61	70.70	7.8	33.14	8.1	24.6	0.89
A7	18 Jan 2023	13	14.64	71.13	7.7	33.17	8.1	24.6	0.88
A7	18 Jan 2023	14	14.65	72.56	7.8	33.18	8.1	24.6	0.85
A7	18 Jan 2023	15	14.67	72.57	7.7	33.20	8.1	24.7	0.83
A7	18 Jan 2023	16	14.67	73.18	7.7	33.22	8.1	24.7	0.83
A7	18 Jan 2023	17	14.69	73.11	7.6	33.25	8.1	24.7	0.79
A7	18 Jan 2023	18	14.69	73.52	7.6	33.25	8.1	24.7	0.76
A7	24 Jan 2023	1	14.13	85.41	7.8	33.25	8.1	24.8	1.03
A7	24 Jan 2023	2	14.13	85.06	7.7	33.25	8.1	24.8	1.07
A7	24 Jan 2023	3	14.12	85.26	7.7	33.25	8.1	24.8	1.12
A7	24 Jan 2023	4	14.11	85.45	7.7	33.25	8.1	24.8	1.27
A7	24 Jan 2023	5	14.11	85.46	7.7	33.25	8.1	24.8	1.32
A7	24 Jan 2023	6	14.12	85.27	7.7	33.25	8.1	24.8	1.37
A7	24 Jan 2023	7	14.13	85.34	7.7	33.26	8.1	24.8	1.45
A7	24 Jan 2023	8	14.12	85.55	7.7	33.26	8.1	24.8	1.42
A7	24 Jan 2023	9	14.15	86.00	7.7	33.26	8.1	24.8	1.46
A7	24 Jan 2023	10	14.15	86.12	7.8	33.26	8.1	24.8	1.51
A7	24 Jan 2023	11	14.15	86.18	7.7	33.26	8.1	24.8	1.45
A7	24 Jan 2023	12	14.16	86.20	7.7	33.27	8.1	24.8	1.42
A7	24 Jan 2023	13	14.17	86.31	7.8	33.28	8.1	24.8	1.44
A7	24 Jan 2023	14	14.17	86.67	7.7	33.28	8.1	24.8	1.38
A7	24 Jan 2023	15	14.16	86.81	7.7	33.28	8.1	24.8	1.37
A7	24 Jan 2023	16	14.15	86.85	7.6	33.29	8.1	24.8	1.32
A7	24 Jan 2023	17	14.06	87.13	7.4	33.29	8.1	24.9	1.17
A7	24 Jan 2023	18	13.94	86.00	7.3	33.31	8.0	24.9	1.04
A7	31 Jan 2023	1	13.77	80.61	8.1	33.22	8.1	24.9	1.15
A7	31 Jan 2023	2	13.77	80.39	8.1	33.22	8.1	24.9	1.23
A7	31 Jan 2023	3	13.77	80.03	8.1	33.22	8.1	24.9	1.35
A7	31 Jan 2023	4	13.77	79.63	8.1	33.22	8.1	24.9	1.69
A7	31 Jan 2023	5	13.77	79.57	8.1	33.22	8.1	24.9	1.70
A7	31 Jan 2023	6	13.77	79.45	8.0	33.22	8.1	24.9	1.91
A7	31 Jan 2023	7	13.77	79.39	8.1	33.22	8.1	24.9	1.80
A7	31 Jan 2023	8	13.77	79.55	8.0	33.22	8.1	24.9	1.64
A7	31 Jan 2023	9	13.77	79.53	8.0	33.22	8.1	24.9	1.56
A7	31 Jan 2023	10	13.77	79.78	8.0	33.22	8.1	24.9	1.33
A7	31 Jan 2023	11	13.78	79.78	8.0	33.22	8.1	24.9	1.34
A7	31 Jan 2023	12	13.78	79.97	7.9	33.23	8.1	24.9	1.31
A7	31 Jan 2023	13	13.78	80.37	7.9	33.23	8.1	24.9	1.24
A7	31 Jan 2023	14	13.78	80.63	7.9	33.23	8.1	24.9	1.25
A7	31 Jan 2023	15	13.78	81.05	7.9	33.24	8.1	24.9	1.26
A7	31 Jan 2023	16	13.78	81.21	7.9	33.24	8.1	24.9	1.21
A7	31 Jan 2023	17	13.78	81.43	7.9	33.24	8.1	24.9	1.07

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
A7	31 Jan 2023	18	13.78	81.55	7.8	33.24	8.1	24.9	1.16
A7	31 Jan 2023	19	13.78	81.82	7.8	33.25	8.1	24.9	1.02
A7	31 Jan 2023	20	13.77	81.99	7.8	33.25	8.1	24.9	1.09
C4	04 Jan 2023	1	14.73	79.03	7.9	33.34	8.1	24.7	1.11
C4	04 Jan 2023	2	14.73	79.08	7.9	33.34	8.1	24.8	1.19
C4	04 Jan 2023	3	14.72	78.60	7.9	33.34	8.1	24.8	1.39
C4	04 Jan 2023	4	14.72	78.69	7.9	33.34	8.1	24.8	1.38
C4	04 Jan 2023	5	14.72	78.13	7.9	33.34	8.1	24.8	1.49
C4	04 Jan 2023	6	14.71	78.45	7.9	33.34	8.1	24.8	1.54
C4	04 Jan 2023	7	14.70	77.57	7.9	33.34	8.1	24.8	1.43
C4	04 Jan 2023	8	14.70	77.16	7.8	33.34	8.1	24.8	1.33
C4	04 Jan 2023	9	14.70	75.92	7.8	33.34	8.1	24.8	1.13
C4	04 Jan 2023	10	14.70	74.77	7.8	33.34	8.1	24.8	1.04
C4	04 Jan 2023	11	14.70	73.44	7.8	33.34	8.1	24.8	0.97
C4	12 Jan 2023	1	14.82	65.81	6.9	33.23	8.1	24.6	0.65
C4	12 Jan 2023	2	14.81	65.26	7.5	33.30	8.1	24.7	0.67
C4	12 Jan 2023	3	14.79	64.47	7.5	33.31	8.1	24.7	0.69
C4	12 Jan 2023	4	14.78	63.93	7.8	33.32	8.1	24.7	0.76
C4	12 Jan 2023	5	14.77	62.91	7.9	33.32	8.1	24.7	0.72
C4	12 Jan 2023	6	14.77	62.60	7.8	33.33	8.1	24.7	0.69
C4	12 Jan 2023	7	14.76	62.31	7.8	33.33	8.0	24.7	0.68
C4	12 Jan 2023	8	14.76	62.04	7.8	33.33	8.0	24.7	0.68
C4	12 Jan 2023	9	14.76	60.61	7.8	33.33	8.0	24.7	0.65
C4	12 Jan 2023	10	14.76	60.55	7.8	33.33	8.0	24.7	0.65
C4	12 Jan 2023	11	14.76	60.29	7.8	33.33	8.0	24.7	0.64
C4	12 Jan 2023	12	14.76	59.90	7.8	33.33	8.0	24.7	0.63
C4	18 Jan 2023	1	14.47	57.18	7.8	33.15	8.1	24.7	0.60
C4	18 Jan 2023	2	14.47	57.11	7.8	33.15	8.1	24.7	0.62
C4	18 Jan 2023	3	14.47	57.29	7.8	33.15	8.1	24.7	0.65
C4	18 Jan 2023	4	14.47	57.87	7.8	33.15	8.1	24.7	0.67
C4	18 Jan 2023	5	14.48	56.62	7.8	33.15	8.1	24.7	0.69
C4	18 Jan 2023	6	14.48	55.61	7.8	33.15	8.1	24.7	0.71
C4	18 Jan 2023	7	14.49	55.03	7.8	33.16	8.1	24.7	0.74
C4	18 Jan 2023	8	14.49	54.81	7.7	33.16	8.1	24.7	0.75
C4	18 Jan 2023	9	14.49	55.07	7.7	33.16	8.1	24.7	0.79
C4	18 Jan 2023	10	14.50	54.86	7.7	33.16	8.1	24.7	0.79
C4	18 Jan 2023	11	14.50	55.04	7.7	33.16	8.1	24.7	0.81
C4	24 Jan 2023	1	13.97	81.65	7.6	33.15	8.1	24.8	0.83
C4	24 Jan 2023	2	13.96	79.13	7.6	33.15	8.1	24.8	0.93
C4	24 Jan 2023	3	13.95	80.77	7.6	33.15	8.1	24.8	1.02
C4	24 Jan 2023	4	13.95	80.30	7.6	33.16	8.1	24.8	1.17
C4	24 Jan 2023	5	13.94	81.32	7.5	33.16	8.1	24.8	1.45
C4	24 Jan 2023	6	13.94	81.23	7.5	33.16	8.1	24.8	1.37
C4	24 Jan 2023	7	13.89	81.13	7.3	33.20	8.1	24.8	1.38
C4	24 Jan 2023	8	13.84	80.78	7.0	33.24	8.1	24.9	1.23
C4	24 Jan 2023	9	13.83	81.01	6.9	33.25	8.0	24.9	1.07
C4	24 Jan 2023	10	13.84	81.04	7.0	33.25	8.0	24.9	1.07
C4	31 Jan 2023	1	13.90	79.88	8.3	33.24	8.1	24.9	0.86
C4	31 Jan 2023	2	13.86	78.57	8.3	33.25	8.1	24.9	0.82
C4	31 Jan 2023	3	13.82	78.62	8.3	33.24	8.1	24.9	1.24
C4	31 Jan 2023	4	13.81	77.28	8.3	33.25	8.1	24.9	1.84
C4	31 Jan 2023	5	13.80	77.20	8.2	33.25	8.1	24.9	2.05
C4	31 Jan 2023	6	13.80	77.04	8.2	33.25	8.1	24.9	2.09
C4	31 Jan 2023	7	13.80	77.43	8.2	33.25	8.1	24.9	2.14
C4	31 Jan 2023	8	13.79	77.68	8.2	33.25	8.1	24.9	1.89
C4	31 Jan 2023	9	13.79	77.92	8.1	33.25	8.1	24.9	1.62

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
C4	31 Jan 2023	10	13.79	78.44	8.1	33.25	8.1	24.9	1.47
C4	31 Jan 2023	11	13.79	78.52	8.1	33.25	8.1	24.9	1.32
C5	04 Jan 2023	1	14.64	66.16	7.9	33.24	8.1	24.7	1.59
C5	04 Jan 2023	2	14.64	65.70	7.8	33.25	8.1	24.7	1.82
C5	04 Jan 2023	3	14.63	64.92	7.8	33.25	8.1	24.7	1.90
C5	04 Jan 2023	4	14.62	63.83	7.8	33.26	8.1	24.7	1.75
C5	04 Jan 2023	5	14.61	61.81	7.7	33.27	8.1	24.7	1.55
C5	04 Jan 2023	6	14.61	60.90	7.7	33.28	8.1	24.7	1.25
C5	04 Jan 2023	7	14.60	57.44	7.6	33.32	8.1	24.8	1.11
C5	04 Jan 2023	8	14.60	46.68	7.5	33.33	8.1	24.8	1.01
C5	04 Jan 2023	9	14.60	34.70	7.5	33.33	8.1	24.8	1.02
C5	04 Jan 2023	10	14.60	27.38	7.5	33.34	8.1	24.8	1.04
C5	04 Jan 2023	11	14.60	23.42	7.5	33.34	8.1	24.8	1.01
C5	12 Jan 2023	1	14.80	69.52	7.5	33.24	8.1	24.7	0.68
C5	12 Jan 2023	2	14.80	68.12	8.0	33.32	8.1	24.7	0.74
C5	12 Jan 2023	3	14.79	68.06	7.9	33.33	8.1	24.7	0.79
C5	12 Jan 2023	4	14.78	68.52	7.8	33.33	8.1	24.7	0.89
C5	12 Jan 2023	5	14.77	67.74	7.8	33.33	8.1	24.7	0.86
C5	12 Jan 2023	6	14.76	67.19	7.8	33.33	8.1	24.7	0.86
C5	12 Jan 2023	7	14.75	66.05	7.8	33.33	8.1	24.7	0.83
C5	12 Jan 2023	8	14.73	65.05	7.9	33.33	8.1	24.7	0.83
C5	12 Jan 2023	9	14.71	64.08	7.9	33.33	8.1	24.8	0.78
C5	12 Jan 2023	10	14.71	61.18	8.0	33.33	8.1	24.8	0.79
C5	12 Jan 2023	11	14.70	59.93	8.0	33.33	8.1	24.8	0.76
C5	18 Jan 2023	1	14.60	60.92	7.6	33.22	8.1	24.7	0.46
C5	18 Jan 2023	2	14.60	61.03	7.6	33.22	8.1	24.7	0.47
C5	18 Jan 2023	3	14.60	60.27	7.6	33.22	8.1	24.7	0.57
C5	18 Jan 2023	4	14.60	60.63	7.6	33.22	8.1	24.7	0.59
C5	18 Jan 2023	5	14.60	59.79	7.6	33.22	8.1	24.7	0.60
C5	18 Jan 2023	6	14.60	59.49	7.6	33.22	8.1	24.7	0.60
C5	18 Jan 2023	7	14.60	59.60	7.6	33.22	8.1	24.7	0.59
C5	18 Jan 2023	8	14.60	58.82	7.5	33.23	8.1	24.7	0.60
C5	18 Jan 2023	9	14.61	57.14	7.5	33.23	8.1	24.7	0.61
C5	18 Jan 2023	10	14.61	56.54	7.5	33.23	8.1	24.7	0.60
C5	18 Jan 2023	11	14.61	55.71	7.5	33.23	8.1	24.7	0.60
C5	24 Jan 2023	1	13.94	63.53	7.8	33.23	8.1	24.8	0.51
C5	24 Jan 2023	2	13.93	62.96	7.7	33.24	8.1	24.8	0.58
C5	24 Jan 2023	3	13.91	60.84	7.7	33.24	8.1	24.8	0.65
C5	24 Jan 2023	4	13.91	61.77	7.7	33.24	8.1	24.8	0.68
C5	24 Jan 2023	5	13.91	61.74	7.7	33.24	8.1	24.8	0.69
C5	24 Jan 2023	6	13.90	61.66	7.7	33.24	8.1	24.8	0.67
C5	24 Jan 2023	7	13.89	61.73	7.7	33.24	8.1	24.8	0.68
C5	24 Jan 2023	8	13.89	61.25	7.7	33.24	8.1	24.8	0.67
C5	24 Jan 2023	9	13.89	60.57	7.7	33.24	8.1	24.9	0.67
C5	24 Jan 2023	10	13.87	60.20	7.7	33.24	8.1	24.9	0.66
C5	24 Jan 2023	11	13.87	59.03	7.7	33.24	8.1	24.9	0.64
C5	31 Jan 2023	1	13.82	82.45	8.1	33.17	8.1	24.8	0.62
C5	31 Jan 2023	2	13.78	82.34	8.1	33.18	8.1	24.8	0.66
C5	31 Jan 2023	3	13.74	81.46	8.1	33.18	8.1	24.8	0.99
C5	31 Jan 2023	4	13.74	81.16	8.0	33.18	8.1	24.8	1.13
C5	31 Jan 2023	5	13.70	80.64	8.0	33.19	8.1	24.9	1.12
C5	31 Jan 2023	6	13.70	80.21	7.9	33.20	8.1	24.9	1.06
C5	31 Jan 2023	7	13.71	78.90	7.9	33.21	8.1	24.9	0.95
C5	31 Jan 2023	8	13.71	77.26	7.9	33.21	8.1	24.9	0.98
C5	31 Jan 2023	9	13.70	77.77	7.9	33.20	8.1	24.9	0.91
C5	31 Jan 2023	10	13.70	78.08	7.9	33.20	8.1	24.9	0.93

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
C6	04 Jan 2023	1	14.59	55.82	7.5	33.30	8.0	24.8	0.71
C6	04 Jan 2023	2	14.58	55.70	7.5	33.30	8.0	24.8	0.76
C6	04 Jan 2023	3	14.58	55.53	7.5	33.30	8.0	24.8	0.82
C6	04 Jan 2023	4	14.58	56.13	7.5	33.30	8.0	24.8	0.80
C6	04 Jan 2023	5	14.57	54.07	7.5	33.30	8.0	24.8	0.81
C6	04 Jan 2023	6	14.57	54.94	7.5	33.30	8.0	24.8	0.79
C6	04 Jan 2023	7	14.56	53.85	7.5	33.30	8.0	24.8	0.79
C6	04 Jan 2023	8	14.56	53.00	7.4	33.30	8.0	24.8	0.73
C6	04 Jan 2023	9	14.56	50.63	7.4	33.31	8.0	24.8	0.71
C6	04 Jan 2023	10	14.56	50.06	7.4	33.31	8.0	24.8	0.67
C6	12 Jan 2023	1	14.76	58.14	7.9	33.33	8.1	24.7	0.82
C6	12 Jan 2023	2	14.77	57.96	7.9	33.34	8.1	24.7	0.84
C6	12 Jan 2023	3	14.77	58.14	7.9	33.34	8.1	24.7	0.85
C6	12 Jan 2023	4	14.77	58.82	7.9	33.34	8.1	24.7	0.82
C6	12 Jan 2023	5	14.76	59.03	7.9	33.34	8.1	24.7	0.89
C6	12 Jan 2023	6	14.74	57.94	7.8	33.34	8.1	24.7	0.86
C6	12 Jan 2023	7	14.74	56.31	7.8	33.34	8.1	24.7	0.84
C6	12 Jan 2023	8	14.74	56.44	7.8	33.34	8.1	24.7	0.82
C6	12 Jan 2023	9	14.74	56.84	7.8	33.34	8.1	24.7	0.83
C6	12 Jan 2023	10	14.75	55.09	7.8	33.34	8.1	24.7	0.80
C6	18 Jan 2023	1	14.56	56.46	7.8	33.28	8.1	24.7	0.46
C6	18 Jan 2023	2	14.57	55.57	7.7	33.28	8.1	24.7	0.49
C6	18 Jan 2023	3	14.58	55.23	7.6	33.28	8.1	24.7	0.53
C6	18 Jan 2023	4	14.61	54.69	7.5	33.28	8.1	24.7	0.58
C6	18 Jan 2023	5	14.61	54.05	7.5	33.28	8.1	24.7	0.60
C6	18 Jan 2023	6	14.62	53.59	7.5	33.28	8.1	24.7	0.61
C6	18 Jan 2023	7	14.63	52.62	7.5	33.28	8.1	24.7	0.60
C6	18 Jan 2023	8	14.63	52.05	7.5	33.28	8.1	24.7	0.61
C6	18 Jan 2023	9	14.63	51.16	7.5	33.28	8.1	24.7	0.63
C6	18 Jan 2023	10	14.63	49.66	7.4	33.28	8.1	24.7	0.61
C6	24 Jan 2023	1	14.03	71.69	7.8	33.24	8.1	24.8	0.42
C6	24 Jan 2023	2	14.03	72.05	7.8	33.24	8.1	24.8	0.49
C6	24 Jan 2023	3	14.00	71.32	7.7	33.24	8.1	24.8	0.59
C6	24 Jan 2023	4	13.99	69.13	7.7	33.24	8.1	24.8	0.66
C6	24 Jan 2023	5	13.99	68.06	7.7	33.24	8.1	24.8	0.65
C6	24 Jan 2023	6	13.98	67.76	7.7	33.24	8.1	24.8	0.66
C6	24 Jan 2023	7	13.97	67.82	7.6	33.25	8.1	24.8	0.63
C6	24 Jan 2023	8	13.97	67.38	7.4	33.27	8.1	24.9	0.58
C6	24 Jan 2023	9	13.98	66.95	7.2	33.28	8.0	24.9	0.56
C6	24 Jan 2023	10	13.99	66.42	7.1	33.29	8.0	24.9	0.54
C6	31 Jan 2023	1	13.58	83.28	8.1	33.18	8.1	24.9	0.92
C6	31 Jan 2023	2	13.56	83.29	8.1	33.18	8.1	24.9	0.92
C6	31 Jan 2023	3	13.54	82.83	8.1	33.18	8.1	24.9	1.15
C6	31 Jan 2023	4	13.53	82.54	8.0	33.19	8.1	24.9	1.37
C6	31 Jan 2023	5	13.53	82.60	7.9	33.19	8.1	24.9	1.37
C6	31 Jan 2023	6	13.54	82.62	7.8	33.20	8.1	24.9	1.24
C6	31 Jan 2023	7	13.54	82.94	7.8	33.20	8.1	24.9	1.12
C6	31 Jan 2023	8	13.55	83.37	7.7	33.21	8.1	24.9	0.97
C6	31 Jan 2023	9	13.55	83.83	7.8	33.21	8.1	24.9	0.87
C6	31 Jan 2023	10	13.55	83.99	7.8	33.21	8.1	24.9	0.78
C7	04 Jan 2023	1	14.65	83.13	7.8	33.35	8.1	24.8	1.09
C7	04 Jan 2023	2	14.65	82.33	7.8	33.35	8.1	24.8	1.11
C7	04 Jan 2023	3	14.65	83.29	7.8	33.35	8.1	24.8	1.18
C7	04 Jan 2023	4	14.66	83.79	7.8	33.35	8.1	24.8	1.14
C7	04 Jan 2023	5	14.67	83.49	7.8	33.35	8.1	24.8	1.23

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
C7	04 Jan 2023	6	14.66	83.69	7.8	33.35	8.1	24.8	1.25
C7	04 Jan 2023	7	14.66	83.75	7.8	33.35	8.1	24.8	1.25
C7	04 Jan 2023	8	14.67	83.33	7.8	33.35	8.1	24.8	1.20
C7	04 Jan 2023	9	14.66	83.66	7.8	33.35	8.1	24.8	1.21
C7	04 Jan 2023	10	14.65	83.45	7.8	33.35	8.1	24.8	1.16
C7	04 Jan 2023	11	14.64	83.36	7.8	33.35	8.1	24.8	1.14
C7	04 Jan 2023	12	14.64	83.42	7.8	33.35	8.1	24.8	1.15
C7	04 Jan 2023	13	14.63	83.17	7.8	33.35	8.1	24.8	1.14
C7	04 Jan 2023	14	14.63	83.27	7.8	33.35	8.1	24.8	1.14
C7	04 Jan 2023	15	14.61	82.93	7.6	33.35	8.1	24.8	1.08
C7	04 Jan 2023	16	14.60	81.98	7.7	33.34	8.1	24.8	1.05
C7	04 Jan 2023	17	14.56	80.77	7.6	33.34	8.1	24.8	0.89
C7	04 Jan 2023	18	14.52	76.32	7.5	33.33	8.1	24.8	0.75
C7	12 Jan 2023	1	14.79	69.98	7.9	33.35	8.1	24.7	0.93
C7	12 Jan 2023	2	14.79	69.63	7.9	33.35	8.1	24.7	0.96
C7	12 Jan 2023	3	14.79	69.41	7.9	33.35	8.1	24.7	1.02
C7	12 Jan 2023	4	14.80	68.99	7.9	33.35	8.1	24.7	1.14
C7	12 Jan 2023	5	14.80	68.09	7.9	33.35	8.1	24.7	1.15
C7	12 Jan 2023	6	14.79	68.63	7.9	33.35	8.1	24.7	1.17
C7	12 Jan 2023	7	14.79	69.18	7.9	33.35	8.1	24.7	1.17
C7	12 Jan 2023	8	14.79	69.07	7.9	33.35	8.1	24.7	1.17
C7	12 Jan 2023	9	14.79	69.23	7.9	33.35	8.1	24.7	1.17
C7	12 Jan 2023	10	14.80	69.07	7.9	33.35	8.1	24.7	1.19
C7	12 Jan 2023	11	14.80	69.31	7.9	33.35	8.1	24.7	1.18
C7	12 Jan 2023	12	14.80	70.15	7.8	33.36	8.1	24.7	1.15
C7	12 Jan 2023	13	14.80	71.54	7.8	33.36	8.1	24.8	1.16
C7	12 Jan 2023	14	14.81	71.63	7.8	33.37	8.1	24.8	1.13
C7	12 Jan 2023	15	14.81	70.80	7.8	33.37	8.1	24.8	1.12
C7	12 Jan 2023	16	14.80	71.84	7.7	33.38	8.1	24.8	1.06
C7	12 Jan 2023	17	14.79	71.64	7.7	33.38	8.1	24.8	0.99
C7	12 Jan 2023	18	14.80	70.85	7.7	33.38	8.1	24.8	0.97
C7	12 Jan 2023	19	14.79	68.62	7.7	33.38	8.1	24.8	1.00
C7	18 Jan 2023	1	14.57	67.48	7.9	33.08	8.1	24.6	0.98
C7	18 Jan 2023	2	14.59	67.25	7.9	33.09	8.1	24.6	1.02
C7	18 Jan 2023	3	14.60	67.98	7.9	33.09	8.1	24.6	1.12
C7	18 Jan 2023	4	14.67	67.45	7.8	33.13	8.1	24.6	1.12
C7	18 Jan 2023	5	14.69	68.63	7.8	33.16	8.1	24.6	1.14
C7	18 Jan 2023	6	14.72	71.84	7.8	33.18	8.1	24.6	1.11
C7	18 Jan 2023	7	14.80	74.69	7.8	33.27	8.1	24.7	1.08
C7	18 Jan 2023	8	14.80	78.23	7.7	33.27	8.1	24.7	1.01
C7	18 Jan 2023	9	14.80	78.67	7.7	33.27	8.1	24.7	1.02
C7	18 Jan 2023	10	14.80	78.95	7.7	33.27	8.1	24.7	0.99
C7	18 Jan 2023	11	14.79	78.59	7.7	33.28	8.1	24.7	0.99
C7	18 Jan 2023	12	14.79	78.83	7.7	33.28	8.1	24.7	0.96
C7	18 Jan 2023	13	14.78	78.34	7.7	33.28	8.1	24.7	0.93
C7	18 Jan 2023	14	14.77	78.15	7.7	33.28	8.1	24.7	0.89
C7	18 Jan 2023	15	14.74	78.58	7.6	33.29	8.1	24.7	0.84
C7	18 Jan 2023	16	14.64	75.89	7.4	33.30	8.1	24.7	0.79
C7	18 Jan 2023	17	14.46	68.10	7.1	33.33	8.1	24.8	0.71
C7	18 Jan 2023	18	14.44	48.92	7.2	33.33	8.1	24.8	0.69
C7	24 Jan 2023	1	14.31	86.74	8.1	33.27	8.1	24.8	0.91
C7	24 Jan 2023	2	14.31	85.92	8.1	33.27	8.1	24.8	0.94
C7	24 Jan 2023	3	14.31	83.57	8.1	33.27	8.1	24.8	1.05
C7	24 Jan 2023	4	14.31	86.23	8.1	33.27	8.1	24.8	1.15
C7	24 Jan 2023	5	14.31	86.52	8.1	33.27	8.1	24.8	1.31
C7	24 Jan 2023	6	14.31	86.59	8.1	33.27	8.1	24.8	1.42
C7	24 Jan 2023	7	14.30	86.55	8.1	33.27	8.1	24.8	1.57
C7	24 Jan 2023	8	14.30	86.55	8.1	33.27	8.1	24.8	1.74

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
C7	24 Jan 2023	9	14.30	85.88	8.1	33.27	8.1	24.8	1.71
C7	24 Jan 2023	10	14.30	86.52	8.1	33.27	8.1	24.8	1.71
C7	24 Jan 2023	11	14.30	86.66	8.1	33.27	8.1	24.8	1.65
C7	24 Jan 2023	12	14.30	86.86	8.1	33.28	8.1	24.8	1.64
C7	24 Jan 2023	13	14.31	86.90	8.0	33.28	8.1	24.8	1.60
C7	24 Jan 2023	14	14.30	87.08	8.0	33.28	8.1	24.8	1.69
C7	24 Jan 2023	15	14.30	87.19	8.0	33.28	8.1	24.8	1.59
C7	24 Jan 2023	16	14.30	87.23	7.9	33.28	8.1	24.8	1.56
C7	24 Jan 2023	17	14.21	87.42	7.4	33.30	8.1	24.8	1.41
C7	24 Jan 2023	18	13.91	88.01	6.9	33.34	8.1	24.9	1.02
C7	24 Jan 2023	19	13.84	88.16	6.7	33.34	8.0	24.9	0.80
C7	31 Jan 2023	1	13.64	82.35	8.2	33.23	8.1	24.9	1.71
C7	31 Jan 2023	2	13.63	82.11	8.2	33.23	8.1	24.9	1.92
C7	31 Jan 2023	3	13.62	81.98	8.2	33.23	8.1	24.9	2.78
C7	31 Jan 2023	4	13.61	81.86	8.1	33.23	8.1	24.9	2.94
C7	31 Jan 2023	5	13.59	82.07	8.1	33.24	8.1	24.9	2.55
C7	31 Jan 2023	6	13.56	83.39	8.1	33.24	8.1	24.9	2.56
C7	31 Jan 2023	7	13.55	84.43	8.0	33.25	8.1	24.9	2.29
C7	31 Jan 2023	8	13.55	84.72	8.0	33.25	8.1	24.9	2.25
C7	31 Jan 2023	9	13.56	84.99	8.0	33.26	8.1	24.9	2.14
C7	31 Jan 2023	10	13.58	85.25	8.0	33.26	8.1	24.9	2.15
C7	31 Jan 2023	11	13.59	85.42	7.9	33.27	8.1	24.9	1.79
C7	31 Jan 2023	12	13.61	85.58	7.8	33.28	8.1	24.9	1.46
C7	31 Jan 2023	13	13.61	86.06	7.7	33.28	8.1	24.9	1.19
C7	31 Jan 2023	14	13.64	86.52	7.6	33.29	8.1	24.9	1.05
C7	31 Jan 2023	15	13.63	86.78	7.7	33.29	8.1	24.9	0.95
C7	31 Jan 2023	16	13.65	86.92	7.6	33.29	8.1	24.9	0.91
C7	31 Jan 2023	17	13.65	87.68	7.6	33.29	8.1	24.9	0.72
C7	31 Jan 2023	18	13.65	87.96	7.6	33.29	8.1	24.9	0.72
C8	04 Jan 2023	1	14.43	78.10	7.5	33.29	8.0	24.8	0.78
C8	04 Jan 2023	2	14.43	78.85	7.5	33.29	8.0	24.8	0.86
C8	04 Jan 2023	3	14.43	80.61	7.5	33.29	8.0	24.8	0.92
C8	04 Jan 2023	4	14.43	80.74	7.5	33.30	8.0	24.8	0.96
C8	04 Jan 2023	5	14.43	80.56	7.5	33.30	8.0	24.8	0.96
C8	04 Jan 2023	6	14.43	80.60	7.5	33.30	8.0	24.8	0.95
C8	04 Jan 2023	7	14.43	80.26	7.5	33.30	8.0	24.8	1.00
C8	04 Jan 2023	8	14.43	80.64	7.5	33.30	8.0	24.8	0.95
C8	04 Jan 2023	9	14.43	80.23	7.5	33.30	8.0	24.8	0.94
C8	04 Jan 2023	10	14.42	80.64	7.5	33.30	8.0	24.8	0.92
C8	04 Jan 2023	11	14.42	80.27	7.5	33.30	8.0	24.8	0.96
C8	04 Jan 2023	12	14.42	80.38	7.5	33.30	8.0	24.8	0.99
C8	04 Jan 2023	13	14.42	80.43	7.5	33.30	8.0	24.8	0.92
C8	04 Jan 2023	14	14.43	80.30	7.5	33.31	8.0	24.8	0.89
C8	04 Jan 2023	15	14.44	80.24	7.6	33.31	8.0	24.8	0.86
C8	04 Jan 2023	16	14.44	80.29	7.5	33.32	8.0	24.8	0.79
C8	04 Jan 2023	17	14.44	76.63	7.5	33.32	8.0	24.8	0.74
C8	04 Jan 2023	18	14.44	75.73	7.5	33.32	8.0	24.8	0.71
C8	04 Jan 2023	19	14.44	72.88	7.5	33.32	8.1	24.8	0.73
C8	04 Jan 2023	20	14.44	71.80	7.5	33.32	8.1	24.8	0.71
C8	12 Jan 2023	1	14.74	65.59	8.0	33.30	8.1	24.7	1.45
C8	12 Jan 2023	2	14.75	61.71	8.0	33.31	8.1	24.7	1.50
C8	12 Jan 2023	3	14.77	65.06	8.0	33.32	8.1	24.7	1.54
C8	12 Jan 2023	4	14.80	67.16	8.0	33.33	8.1	24.7	1.59
C8	12 Jan 2023	5	14.82	72.03	8.0	33.35	8.1	24.7	1.58
C8	12 Jan 2023	6	14.82	75.06	8.0	33.35	8.1	24.7	1.54
C8	12 Jan 2023	7	14.83	76.10	8.0	33.36	8.1	24.7	1.50
C8	12 Jan 2023	8	14.83	76.30	8.0	33.36	8.1	24.7	1.48
C8	12 Jan 2023	9	14.83	76.52	8.0	33.36	8.1	24.7	1.50

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
C8	12 Jan 2023	10	14.84	76.19	8.0	33.37	8.1	24.7	1.46
C8	12 Jan 2023	11	14.84	75.46	7.9	33.37	8.1	24.7	1.50
C8	12 Jan 2023	12	14.84	74.79	7.9	33.37	8.1	24.7	1.45
C8	12 Jan 2023	13	14.84	74.42	8.0	33.37	8.1	24.7	1.43
C8	12 Jan 2023	14	14.84	73.95	8.0	33.37	8.1	24.7	1.43
C8	12 Jan 2023	15	14.84	73.45	7.9	33.37	8.1	24.7	1.42
C8	12 Jan 2023	16	14.84	72.19	7.9	33.37	8.1	24.7	1.41
C8	12 Jan 2023	17	14.84	71.69	7.9	33.37	8.1	24.7	1.39
C8	12 Jan 2023	18	14.83	70.63	7.9	33.37	8.1	24.8	1.34
C8	12 Jan 2023	19	14.83	69.47	7.9	33.37	8.1	24.8	1.31
C8	12 Jan 2023	20	14.83	67.46	7.9	33.37	8.1	24.8	1.30
C8	18 Jan 2023	1	14.61	56.13	8.1	33.11	8.1	24.6	0.93
C8	18 Jan 2023	2	14.62	57.23	8.1	33.12	8.1	24.6	0.98
C8	18 Jan 2023	3	14.64	56.94	8.0	33.12	8.1	24.6	1.11
C8	18 Jan 2023	4	14.68	58.68	8.0	33.15	8.1	24.6	1.20
C8	18 Jan 2023	5	14.72	66.77	8.0	33.18	8.1	24.6	1.25
C8	18 Jan 2023	6	14.80	68.14	7.9	33.23	8.1	24.7	1.17
C8	18 Jan 2023	7	14.84	71.86	7.9	33.28	8.1	24.7	1.10
C8	18 Jan 2023	8	14.83	78.73	7.8	33.28	8.1	24.7	1.03
C8	18 Jan 2023	9	14.81	79.86	7.8	33.29	8.1	24.7	0.96
C8	18 Jan 2023	10	14.80	79.21	7.8	33.29	8.1	24.7	0.93
C8	18 Jan 2023	11	14.78	77.83	7.7	33.30	8.1	24.7	0.88
C8	18 Jan 2023	12	14.76	75.92	7.7	33.30	8.1	24.7	0.88
C8	18 Jan 2023	13	14.76	75.42	7.7	33.30	8.1	24.7	0.83
C8	18 Jan 2023	14	14.75	75.09	7.7	33.30	8.1	24.7	0.82
C8	18 Jan 2023	15	14.74	74.78	7.6	33.30	8.1	24.7	0.81
C8	18 Jan 2023	16	14.71	74.11	7.6	33.31	8.1	24.7	0.80
C8	18 Jan 2023	17	14.70	71.37	7.6	33.31	8.1	24.7	0.77
C8	18 Jan 2023	18	14.70	69.61	7.6	33.31	8.1	24.7	0.77
C8	18 Jan 2023	19	14.70	69.27	7.6	33.31	8.1	24.7	0.77
C8	24 Jan 2023	1	14.28	85.39	8.1	33.24	8.1	24.8	1.01
C8	24 Jan 2023	2	14.28	85.00	8.1	33.24	8.1	24.8	1.03
C8	24 Jan 2023	3	14.28	85.04	8.1	33.24	8.1	24.8	1.18
C8	24 Jan 2023	4	14.28	85.30	8.1	33.24	8.1	24.8	1.26
C8	24 Jan 2023	5	14.27	85.26	8.2	33.24	8.1	24.8	1.43
C8	24 Jan 2023	6	14.27	85.34	8.1	33.24	8.1	24.8	1.54
C8	24 Jan 2023	7	14.27	85.36	8.1	33.25	8.1	24.8	1.57
C8	24 Jan 2023	8	14.27	85.46	8.1	33.25	8.1	24.8	1.65
C8	24 Jan 2023	9	14.27	85.63	8.1	33.25	8.1	24.8	1.75
C8	24 Jan 2023	10	14.27	85.87	8.1	33.26	8.1	24.8	1.77
C8	24 Jan 2023	11	14.27	85.97	8.0	33.26	8.1	24.8	1.70
C8	24 Jan 2023	12	14.27	86.06	8.0	33.26	8.1	24.8	1.73
C8	24 Jan 2023	13	14.27	86.22	8.0	33.26	8.1	24.8	1.73
C8	24 Jan 2023	14	14.27	86.30	8.0	33.26	8.1	24.8	1.74
C8	24 Jan 2023	15	14.26	86.27	8.0	33.26	8.1	24.8	1.71
C8	24 Jan 2023	16	14.25	86.34	7.8	33.27	8.1	24.8	1.64
C8	24 Jan 2023	17	14.17	86.65	7.4	33.31	8.1	24.8	1.52
C8	24 Jan 2023	18	13.96	87.44	7.0	33.33	8.1	24.9	1.17
C8	24 Jan 2023	19	13.80	87.57	6.7	33.34	8.0	24.9	0.98
C8	24 Jan 2023	20	13.76	85.74	6.7	33.35	8.0	25.0	0.85
C8	31 Jan 2023	1	13.80	83.24	8.2	33.26	8.1	24.9	1.37
C8	31 Jan 2023	2	13.80	83.26	8.2	33.26	8.1	24.9	1.40
C8	31 Jan 2023	3	13.80	83.37	8.2	33.26	8.1	24.9	1.41
C8	31 Jan 2023	4	13.79	83.25	8.2	33.26	8.1	24.9	1.54
C8	31 Jan 2023	5	13.78	83.22	8.2	33.26	8.1	24.9	1.78
C8	31 Jan 2023	6	13.78	82.84	8.2	33.26	8.1	24.9	2.12
C8	31 Jan 2023	7	13.78	82.60	8.2	33.26	8.1	24.9	2.41
C8	31 Jan 2023	8	13.77	83.01	8.2	33.26	8.1	24.9	2.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
C8	31 Jan 2023	9	13.77	82.91	8.1	33.26	8.1	24.9	2.37
C8	31 Jan 2023	10	13.77	82.97	8.1	33.26	8.1	24.9	2.24
C8	31 Jan 2023	11	13.76	83.17	8.1	33.26	8.1	24.9	2.17
C8	31 Jan 2023	12	13.76	83.34	8.1	33.26	8.1	24.9	2.07
C8	31 Jan 2023	13	13.75	83.37	8.1	33.27	8.1	24.9	1.87
C8	31 Jan 2023	14	13.72	83.30	8.0	33.28	8.1	24.9	1.87
C8	31 Jan 2023	15	13.71	83.24	8.0	33.28	8.1	24.9	1.70
C8	31 Jan 2023	16	13.70	83.43	7.9	33.29	8.1	24.9	1.69
C8	31 Jan 2023	17	13.70	83.52	7.9	33.29	8.1	24.9	1.64
C8	31 Jan 2023	18	13.69	83.49	7.9	33.29	8.1	24.9	1.68
C8	31 Jan 2023	19	13.69	83.29	7.8	33.29	8.1	24.9	1.67

NA = not available

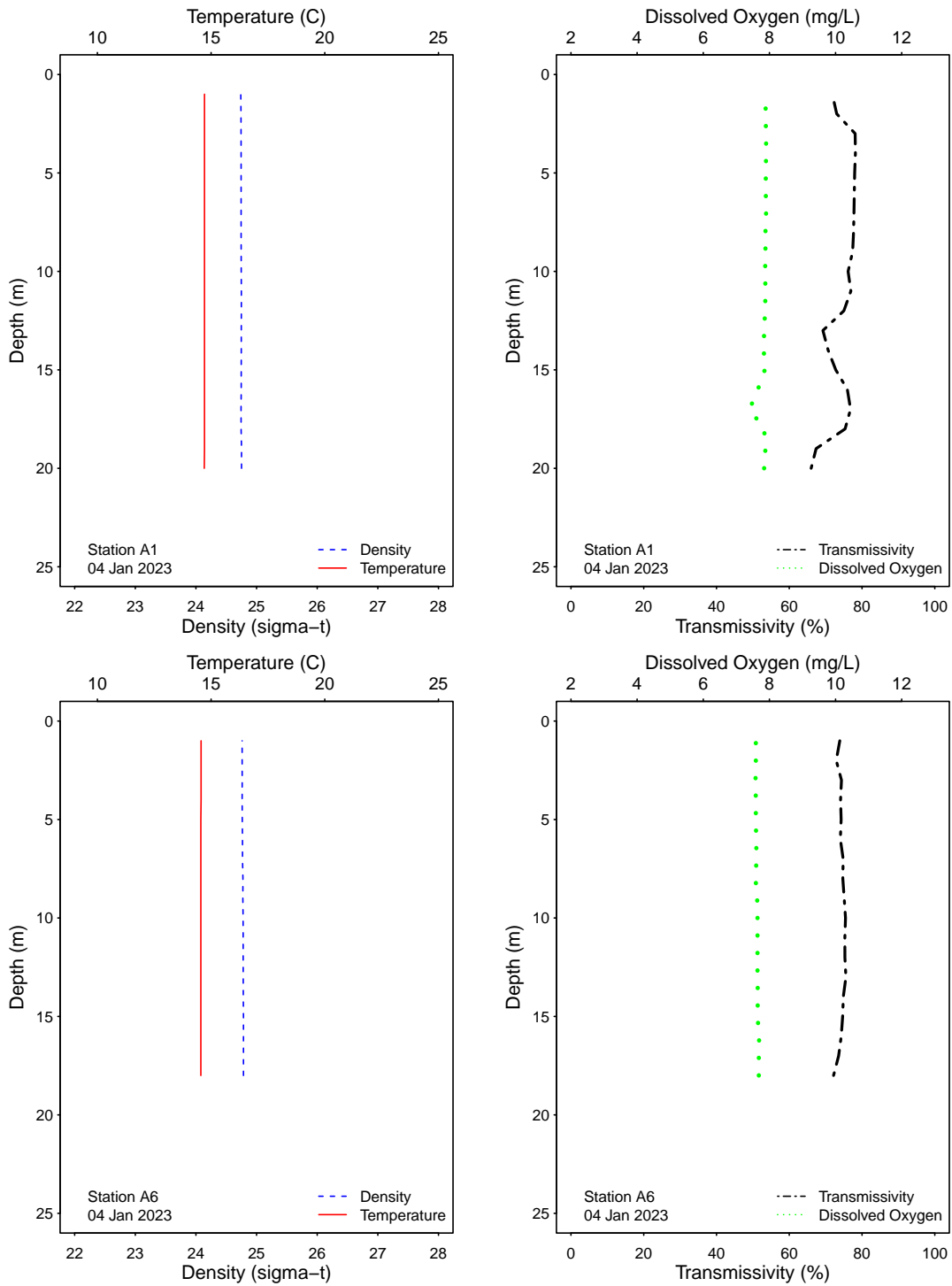


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

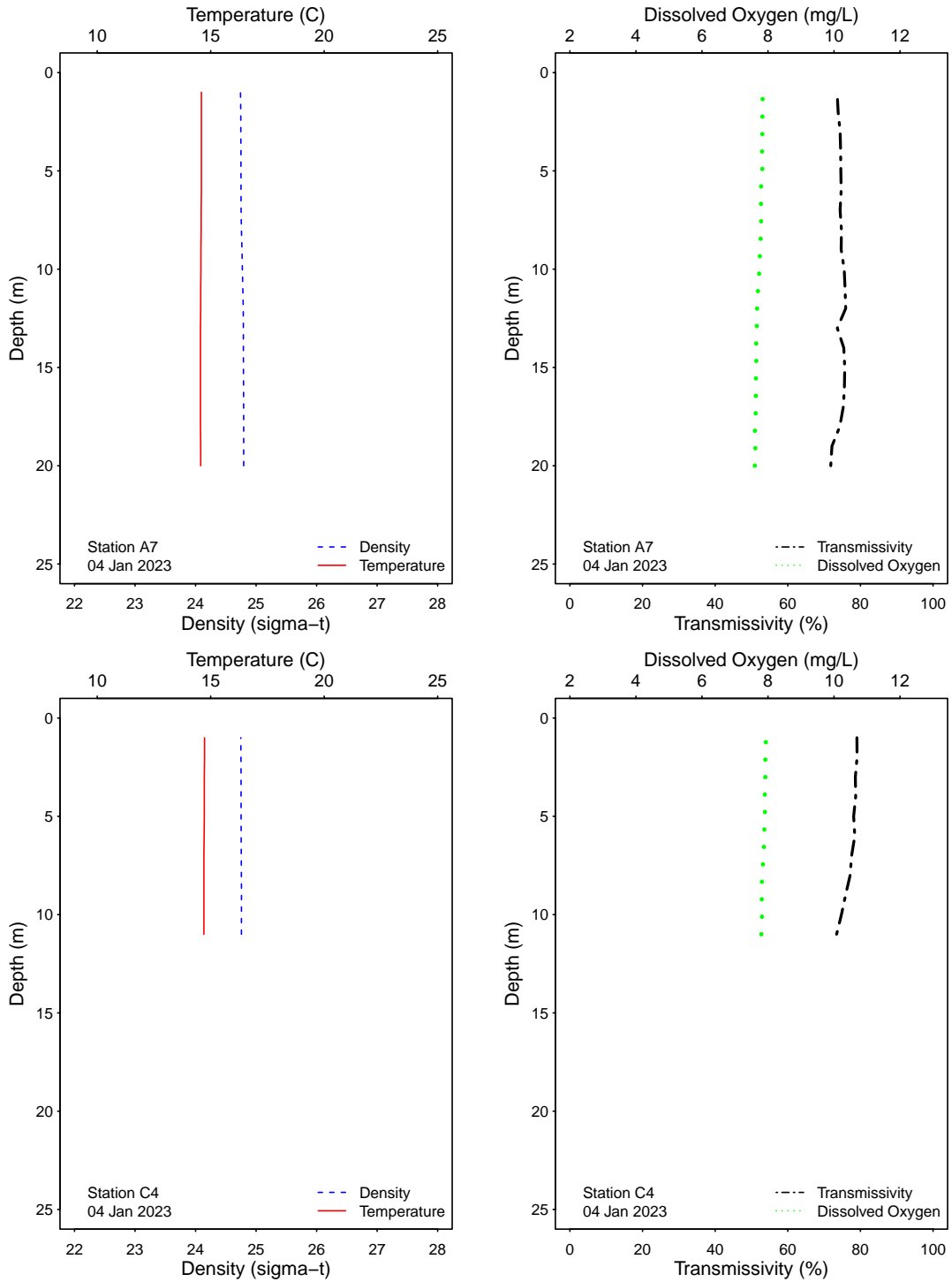


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

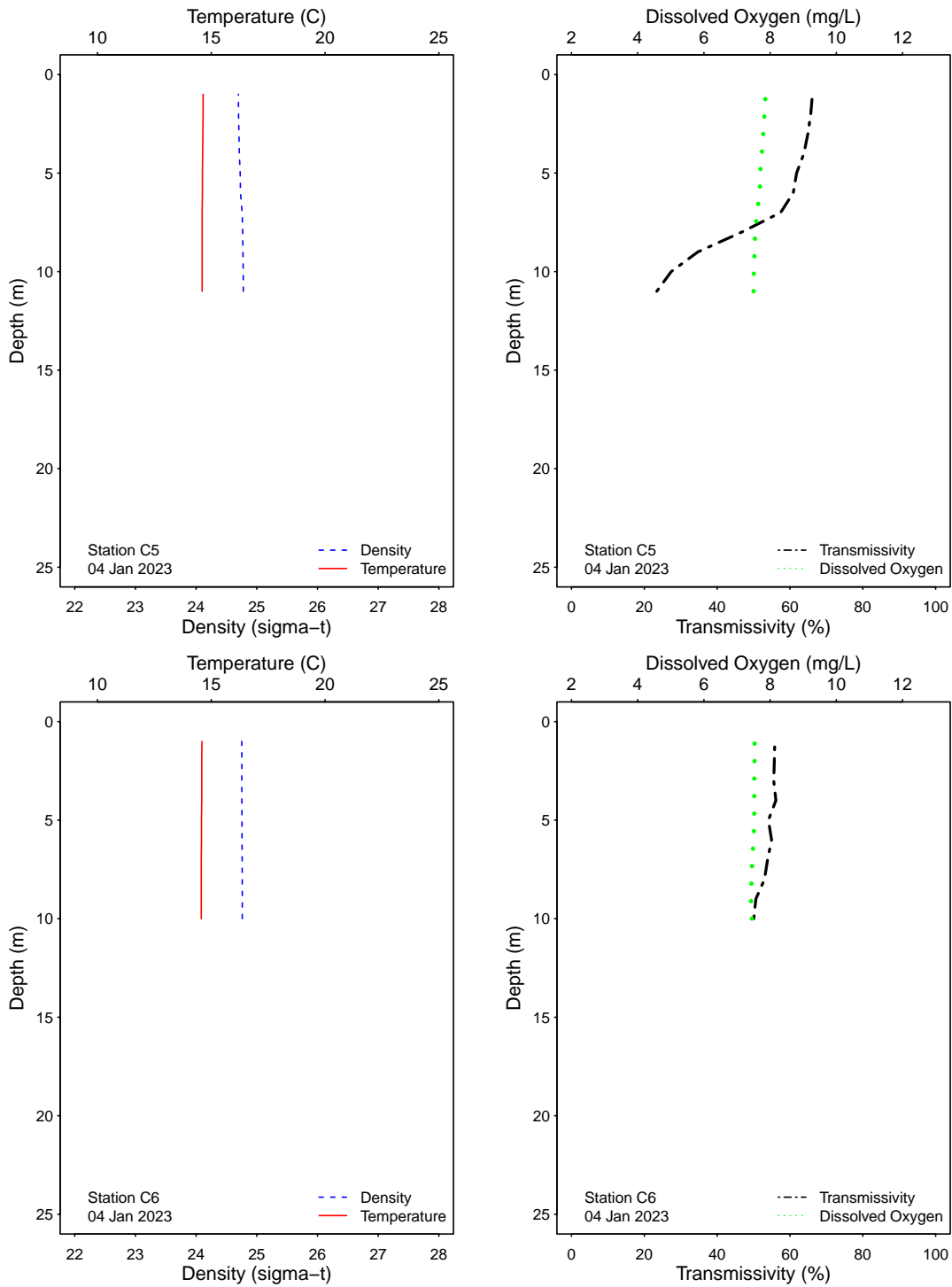


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

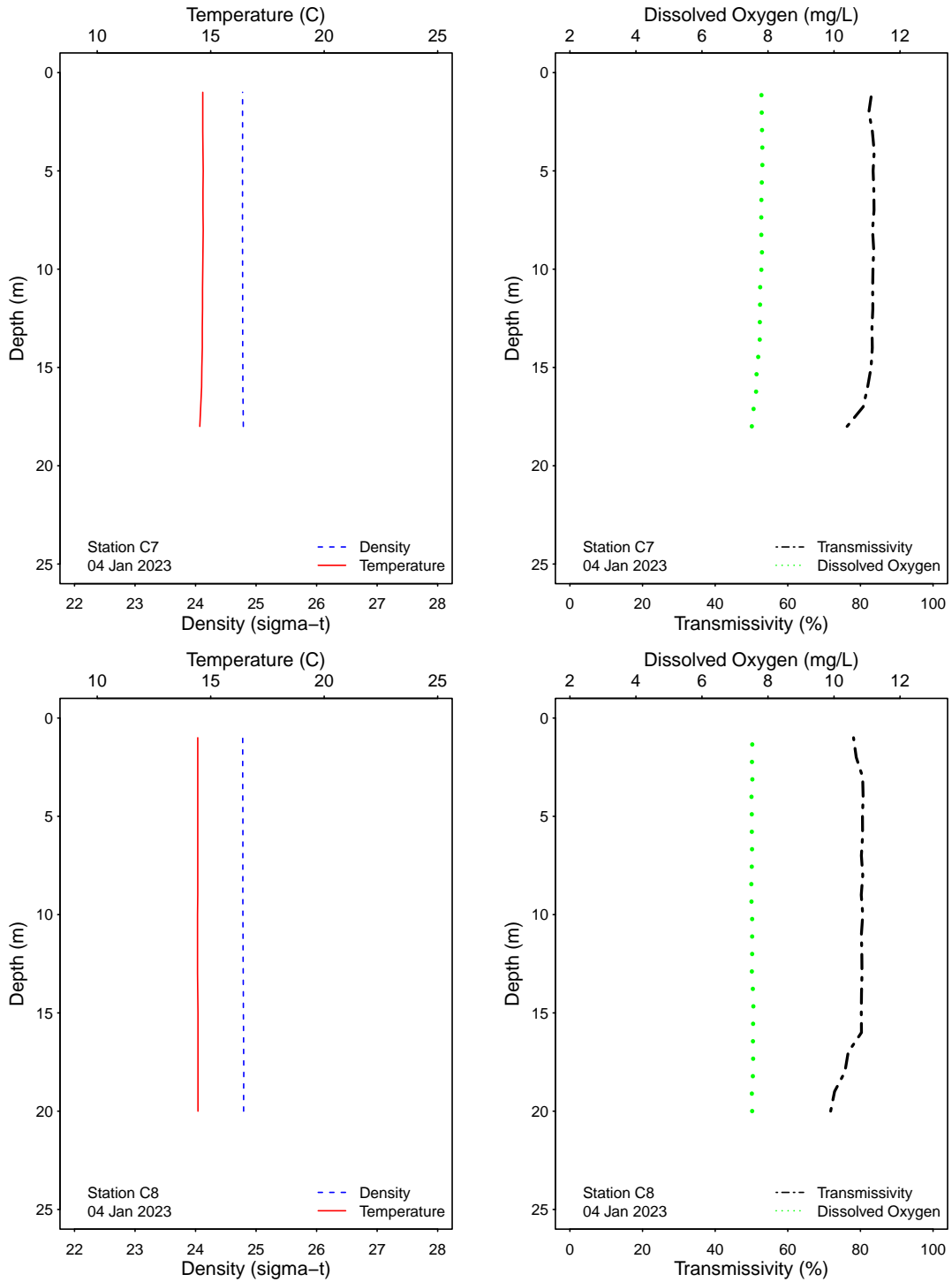


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

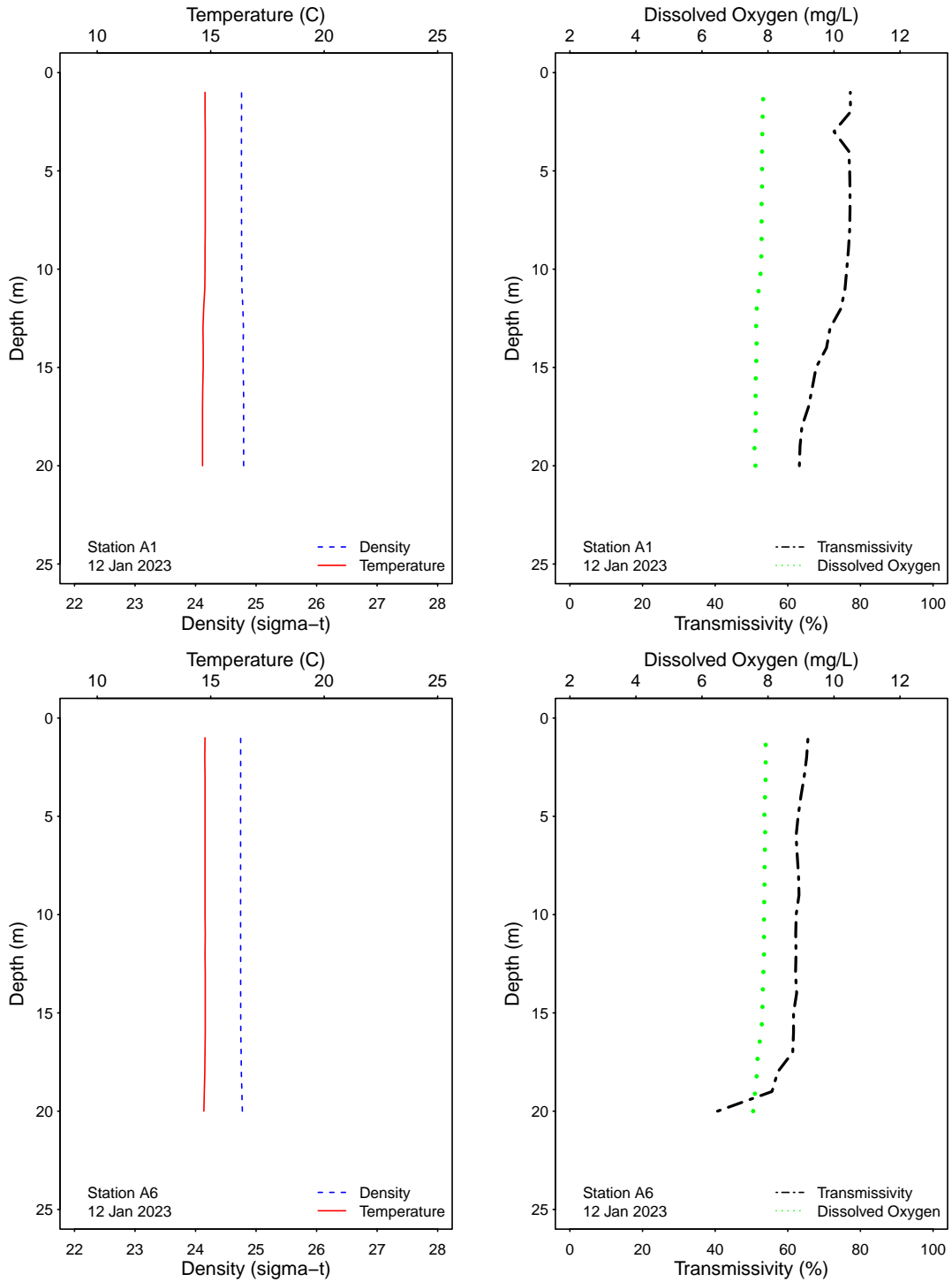


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

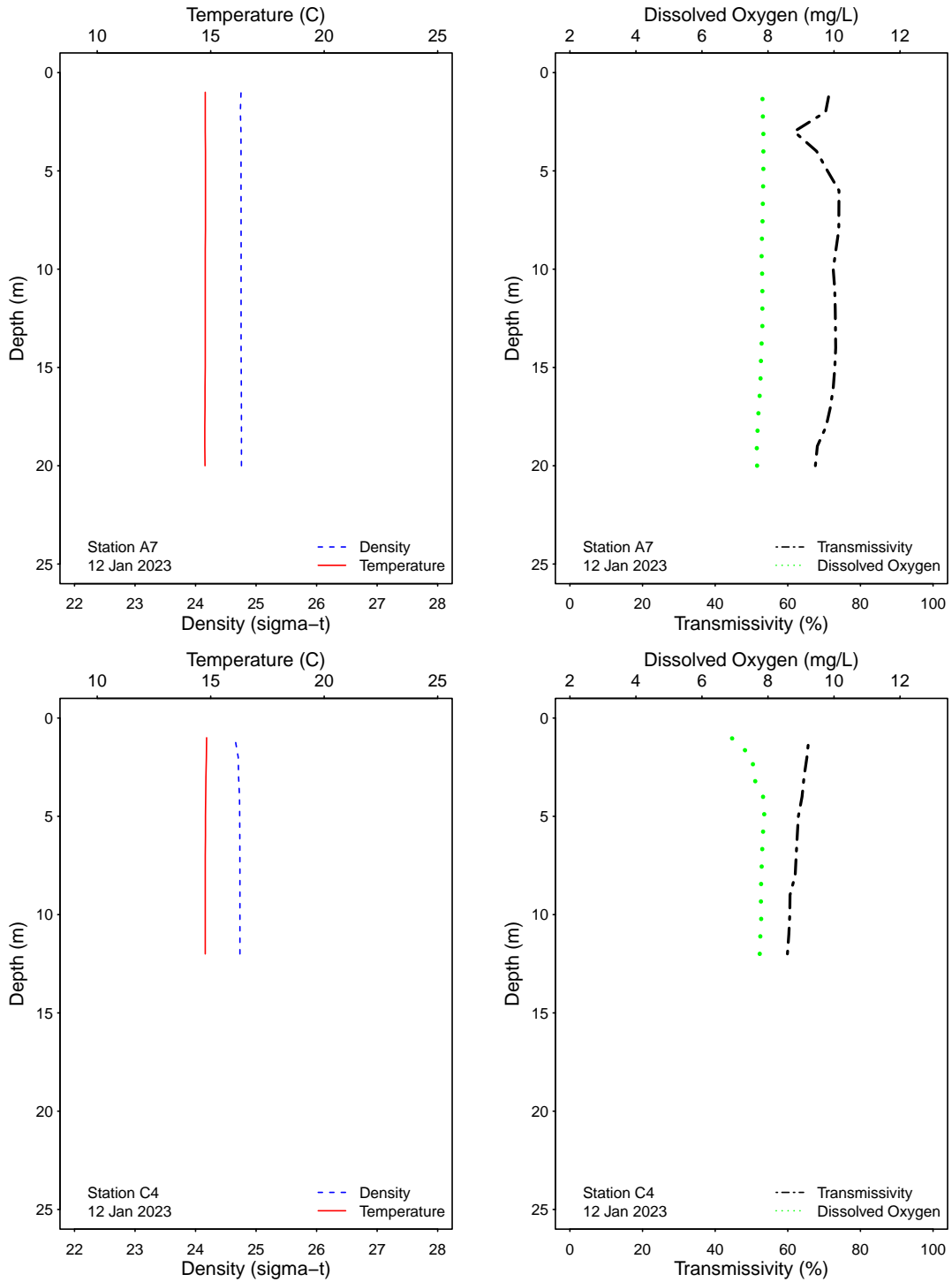


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

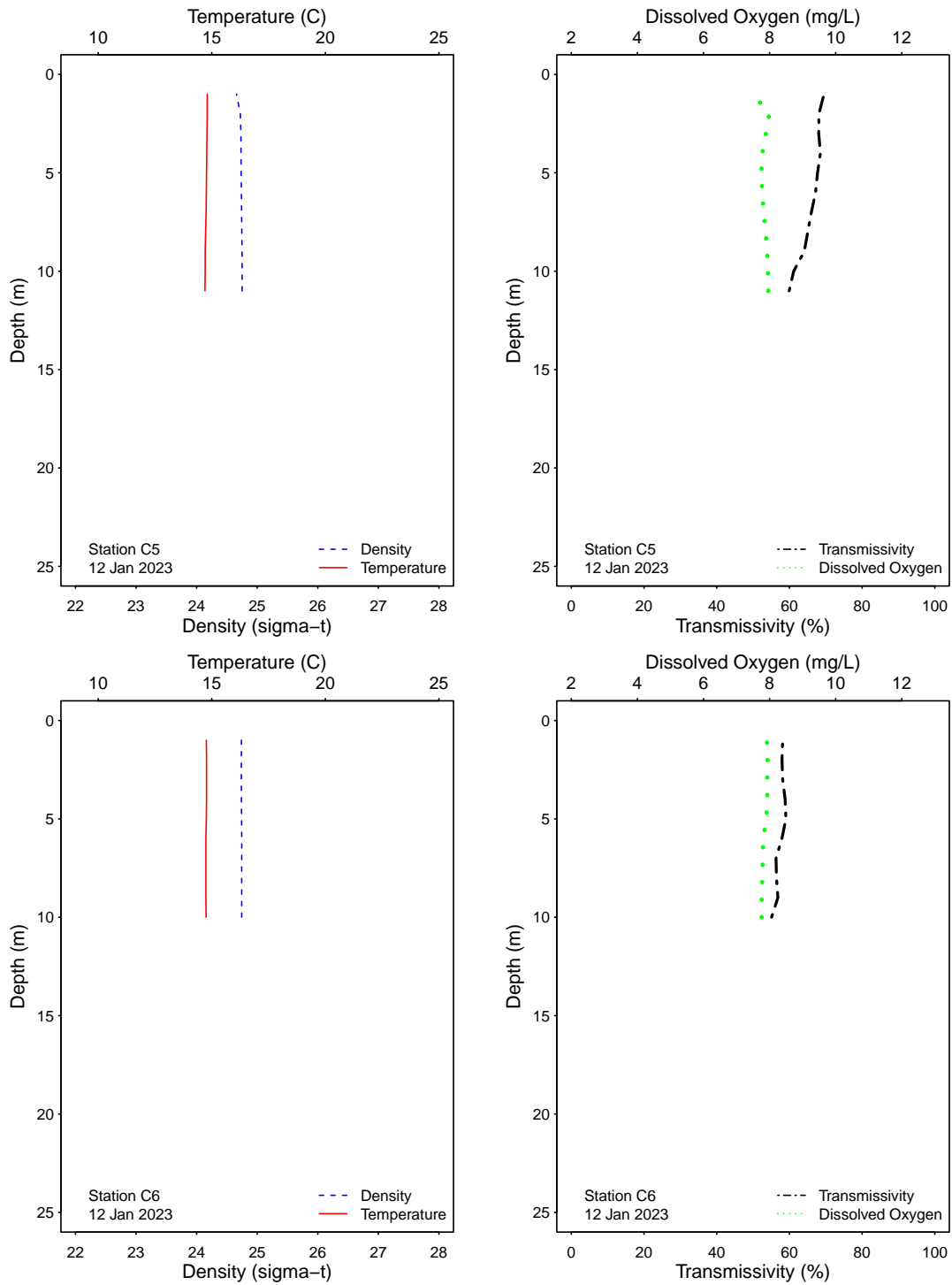


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

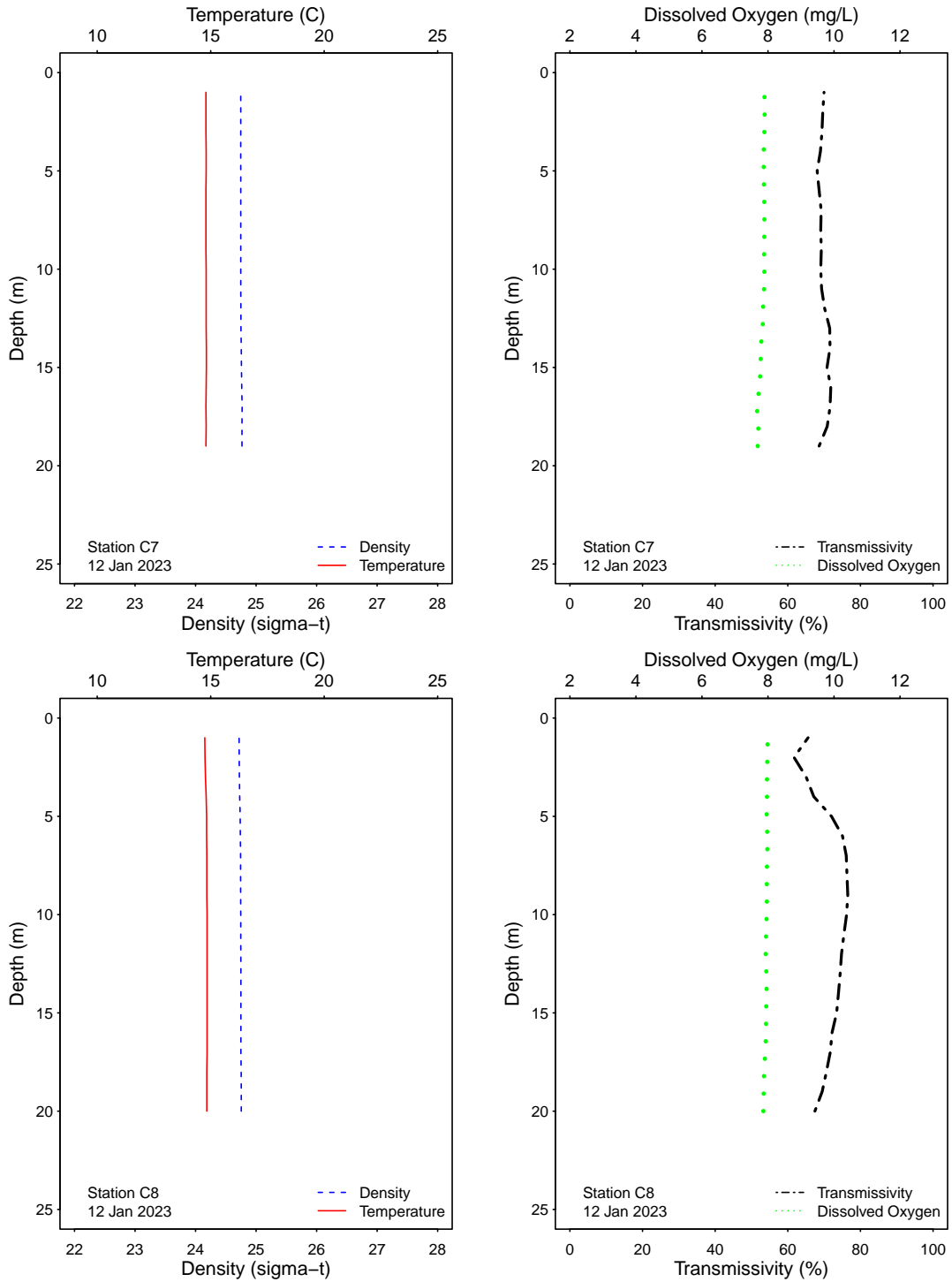


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

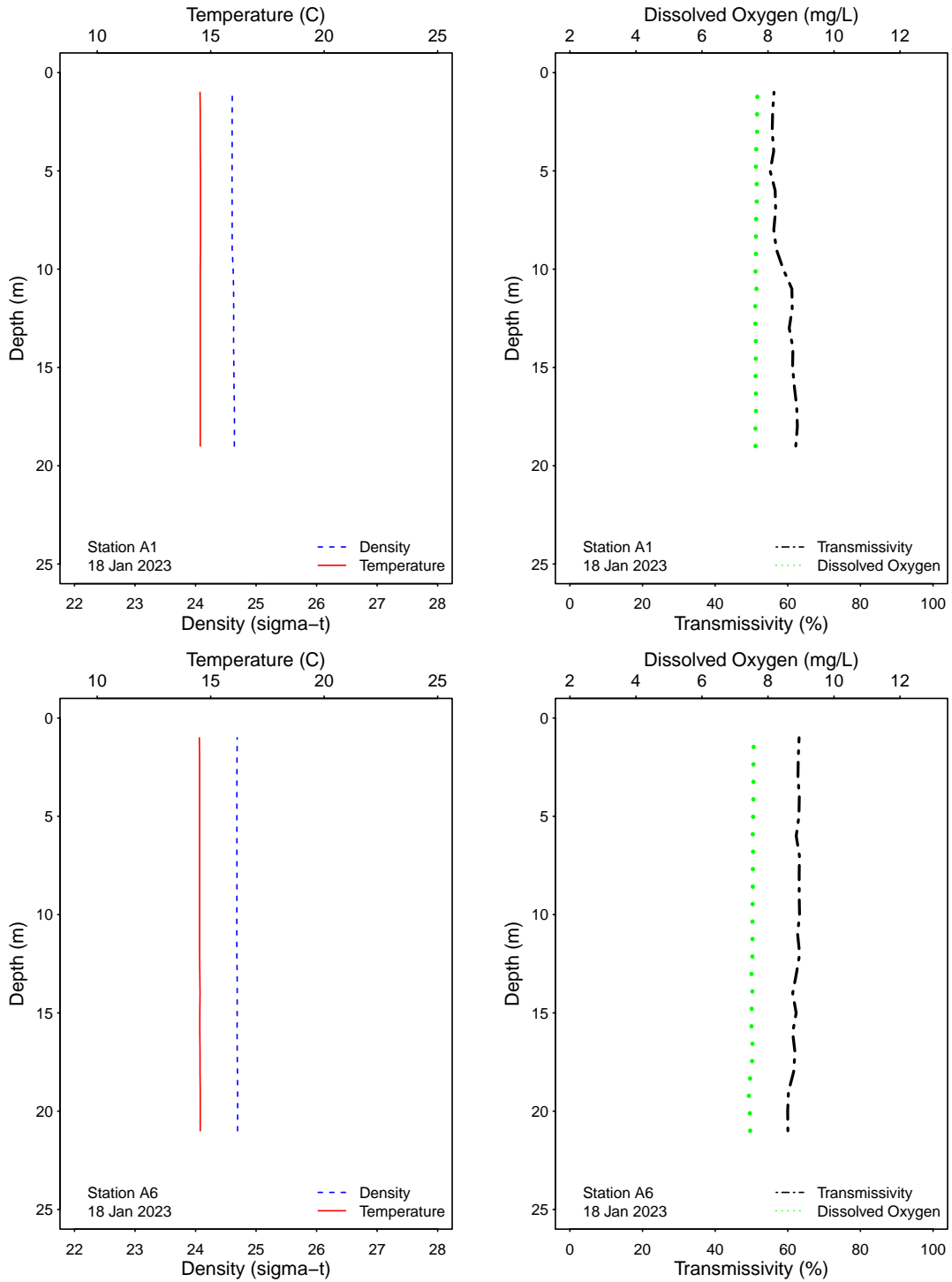


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

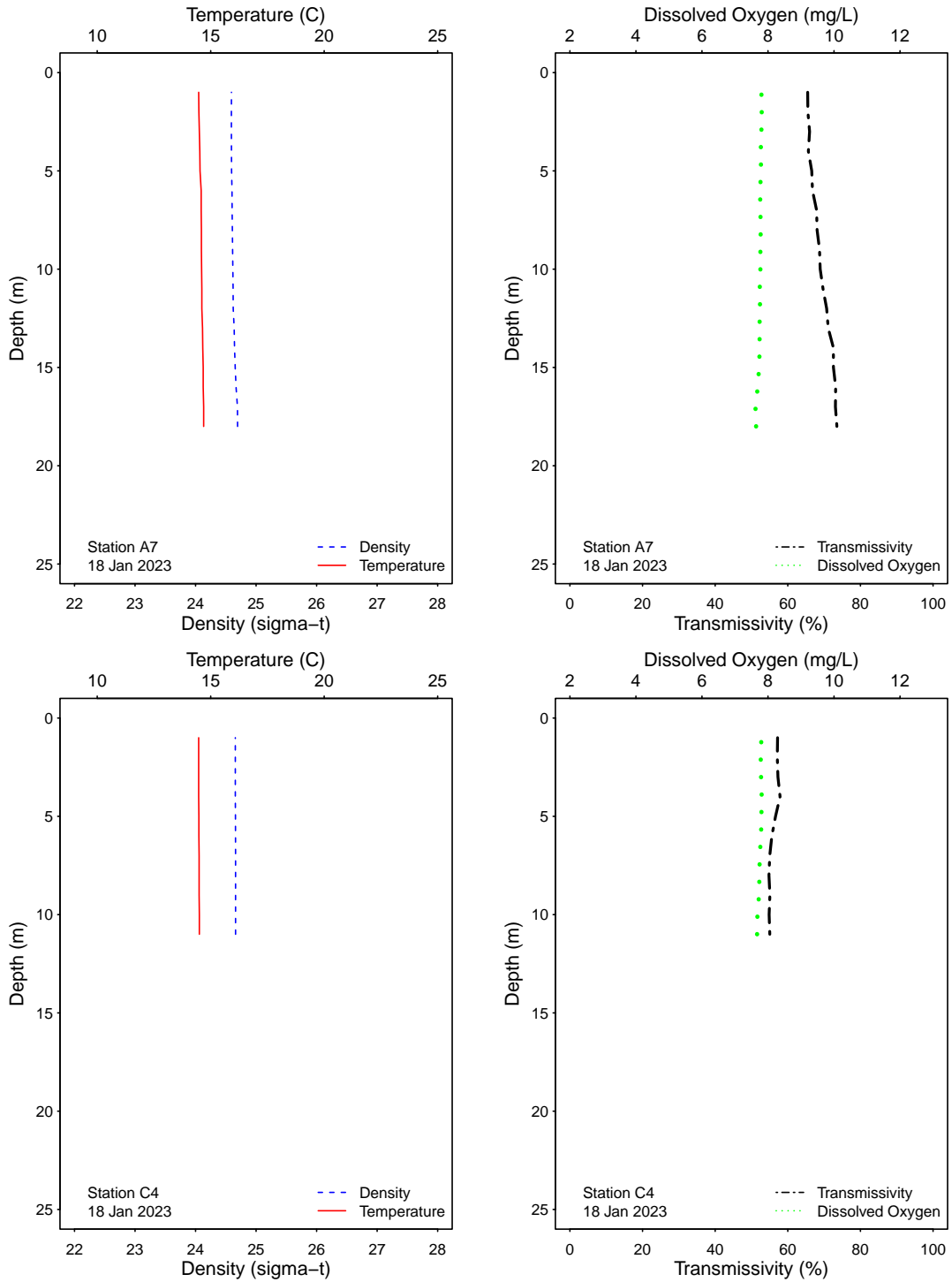


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

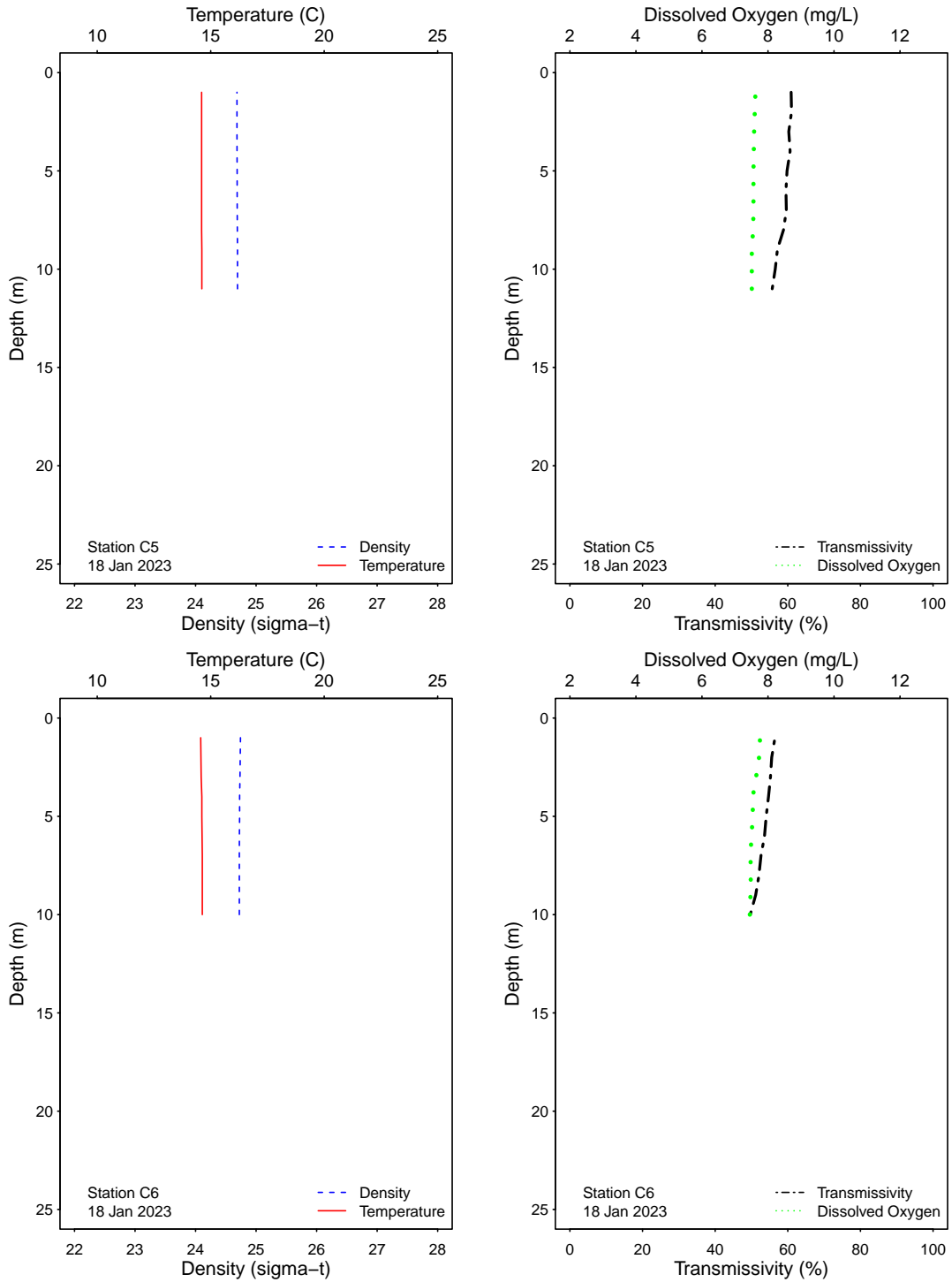


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

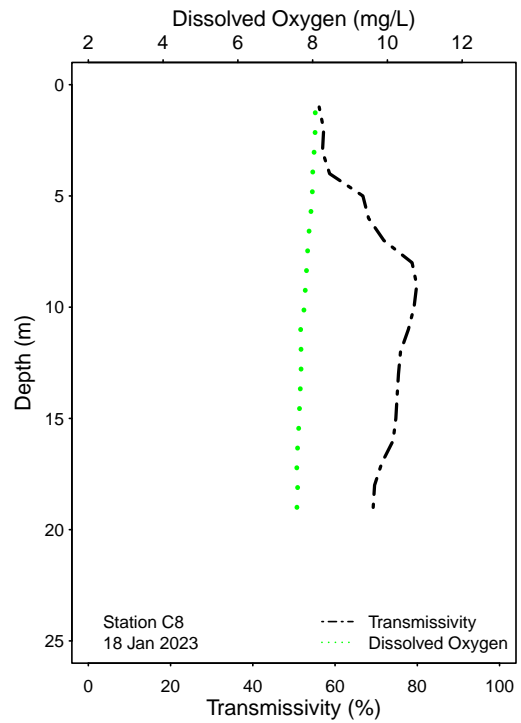
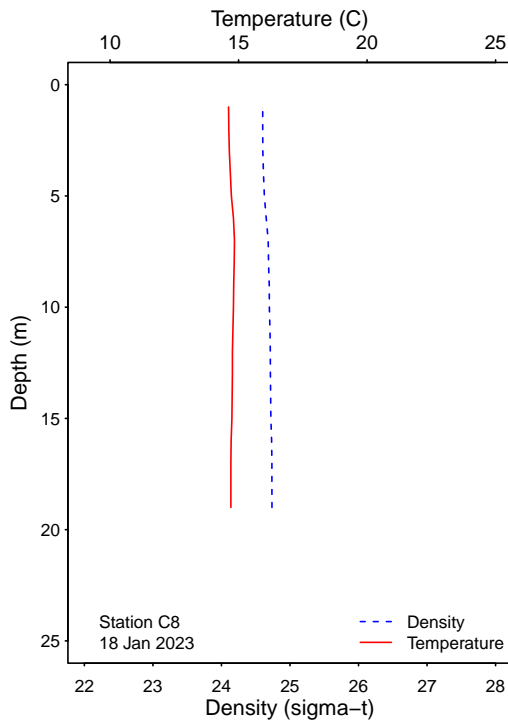
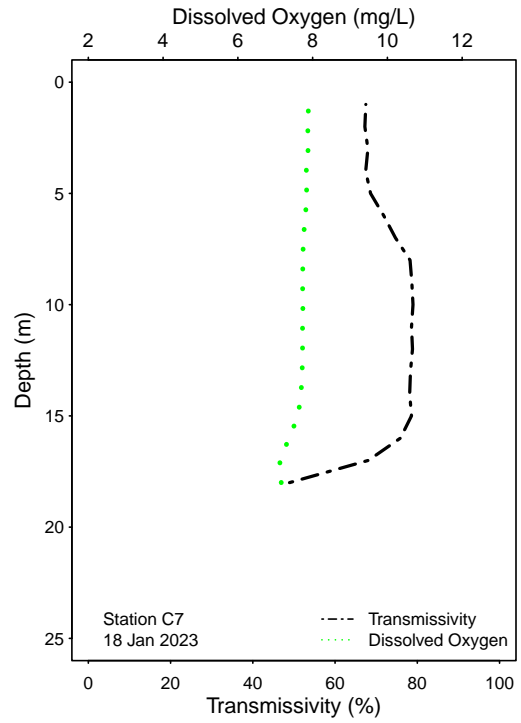
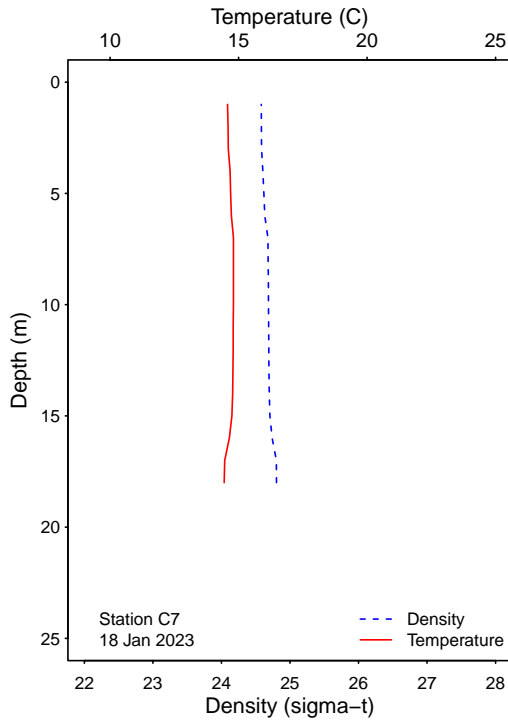


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

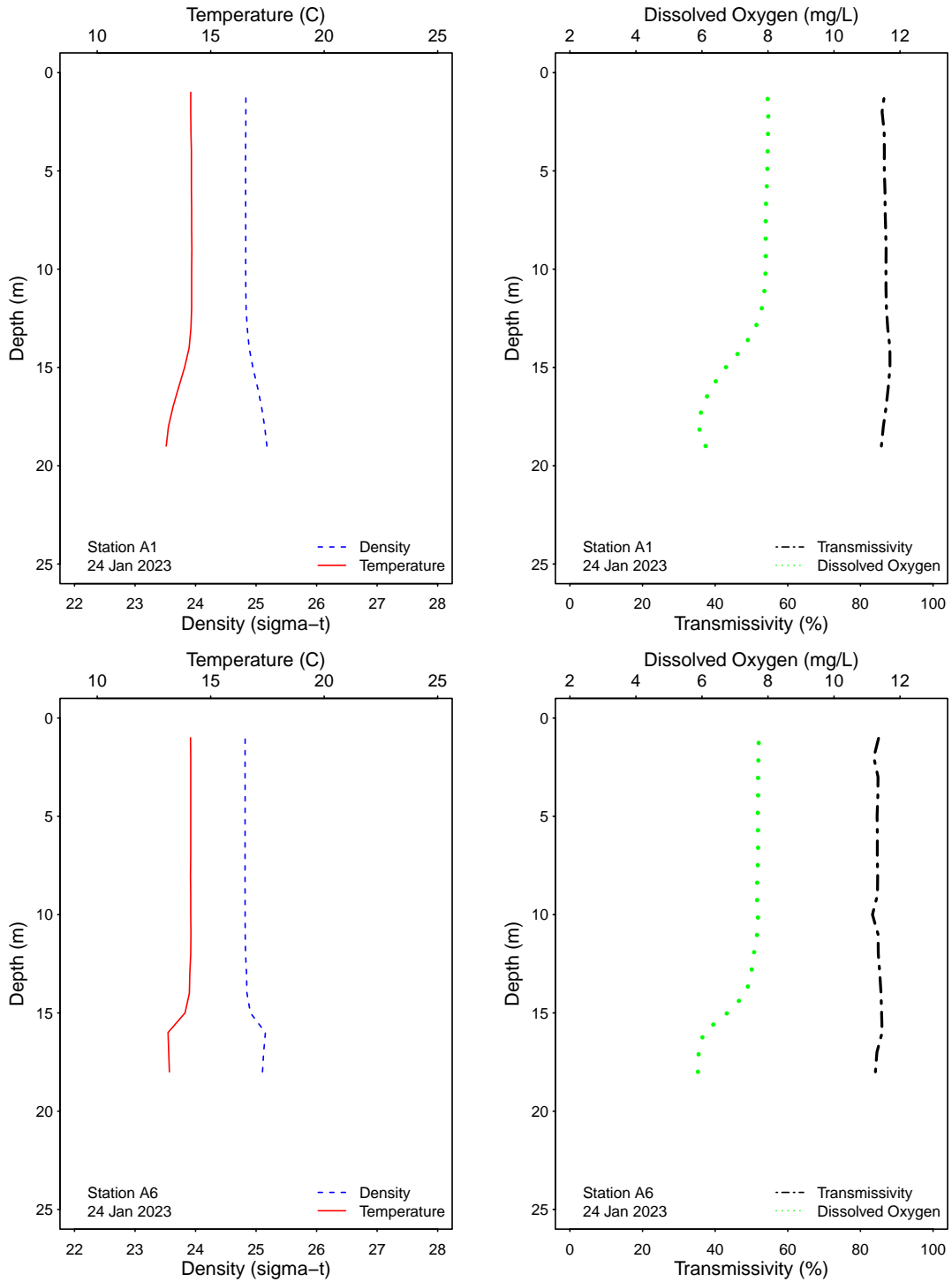


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

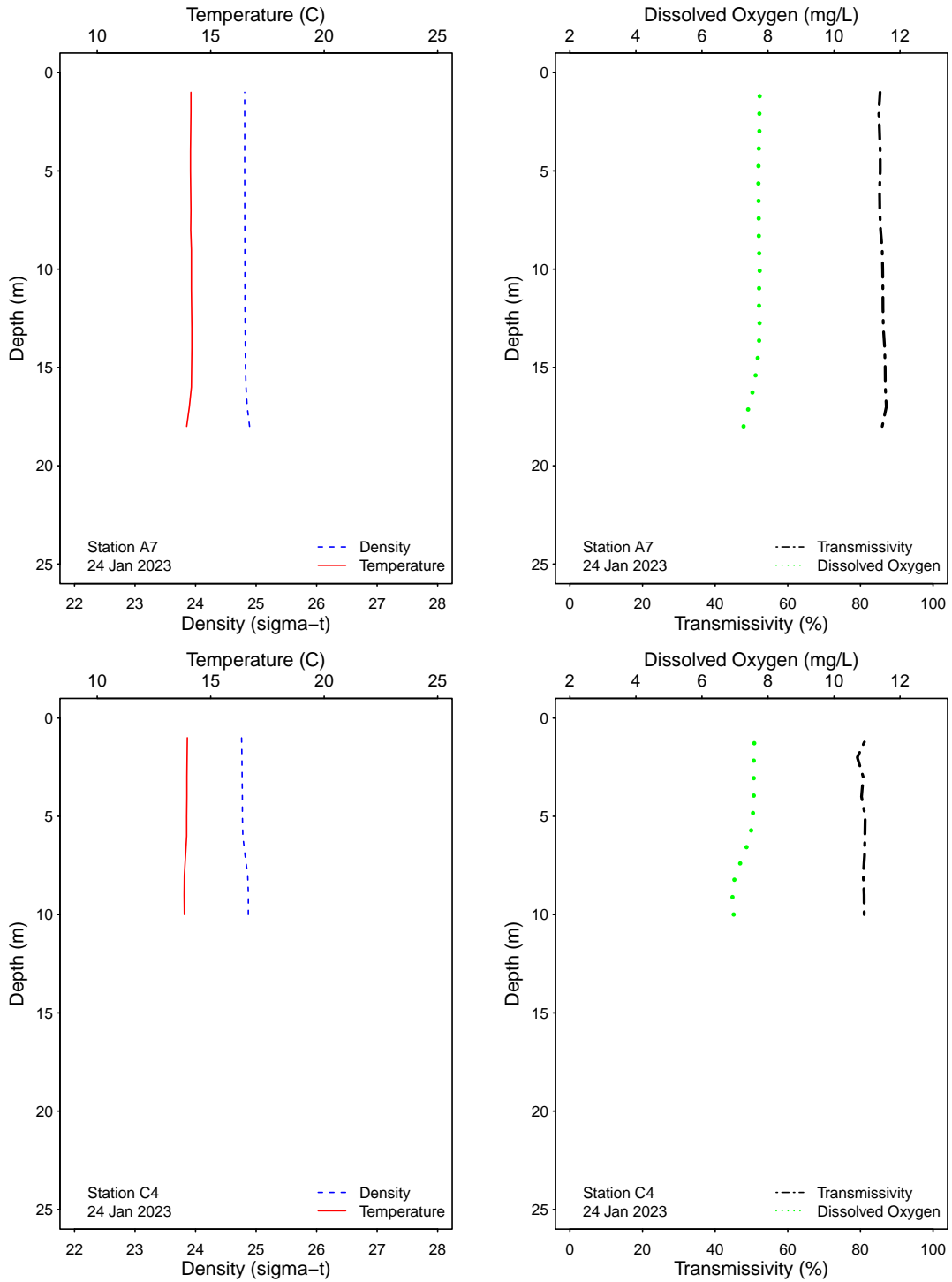


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

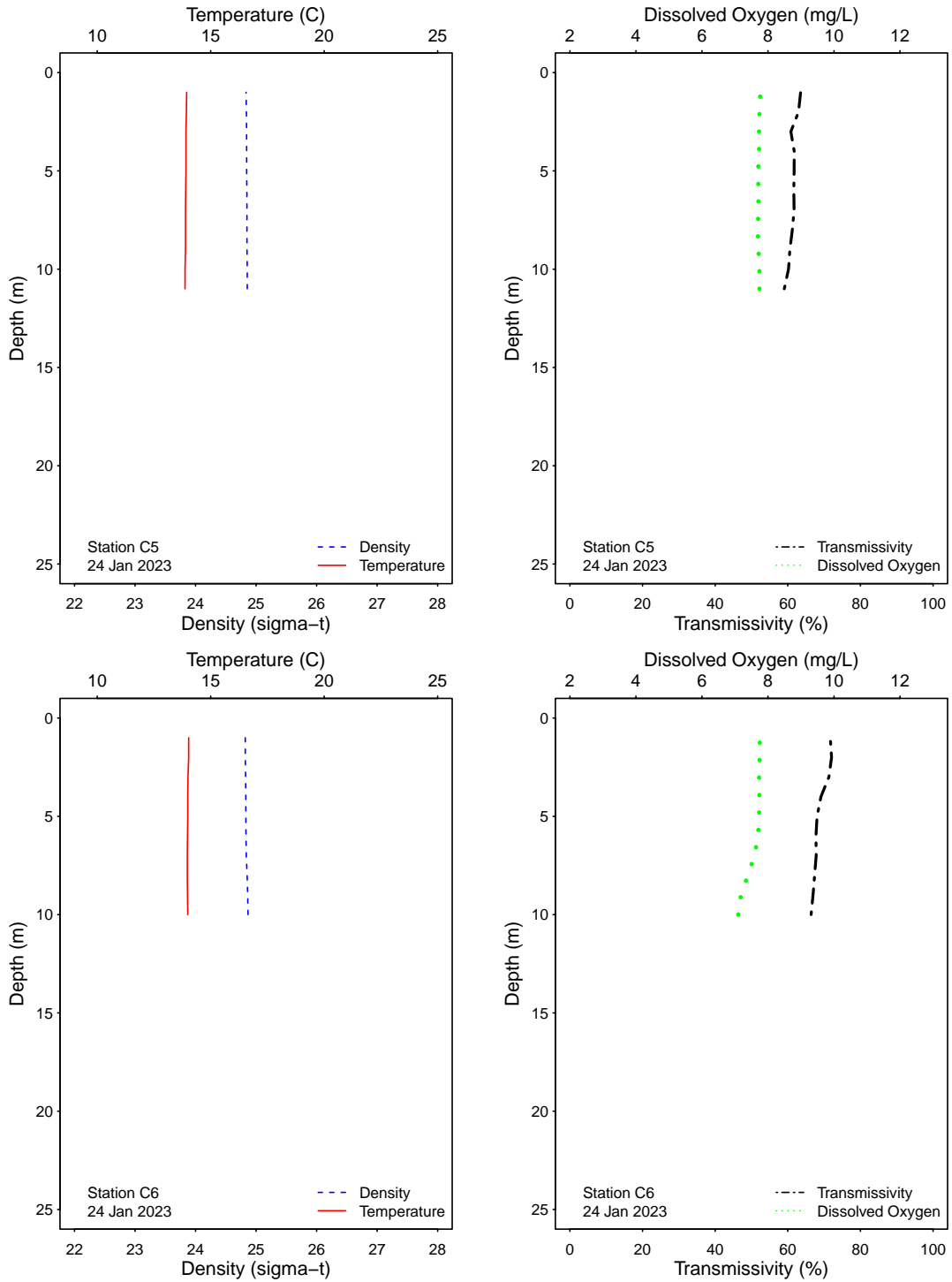


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

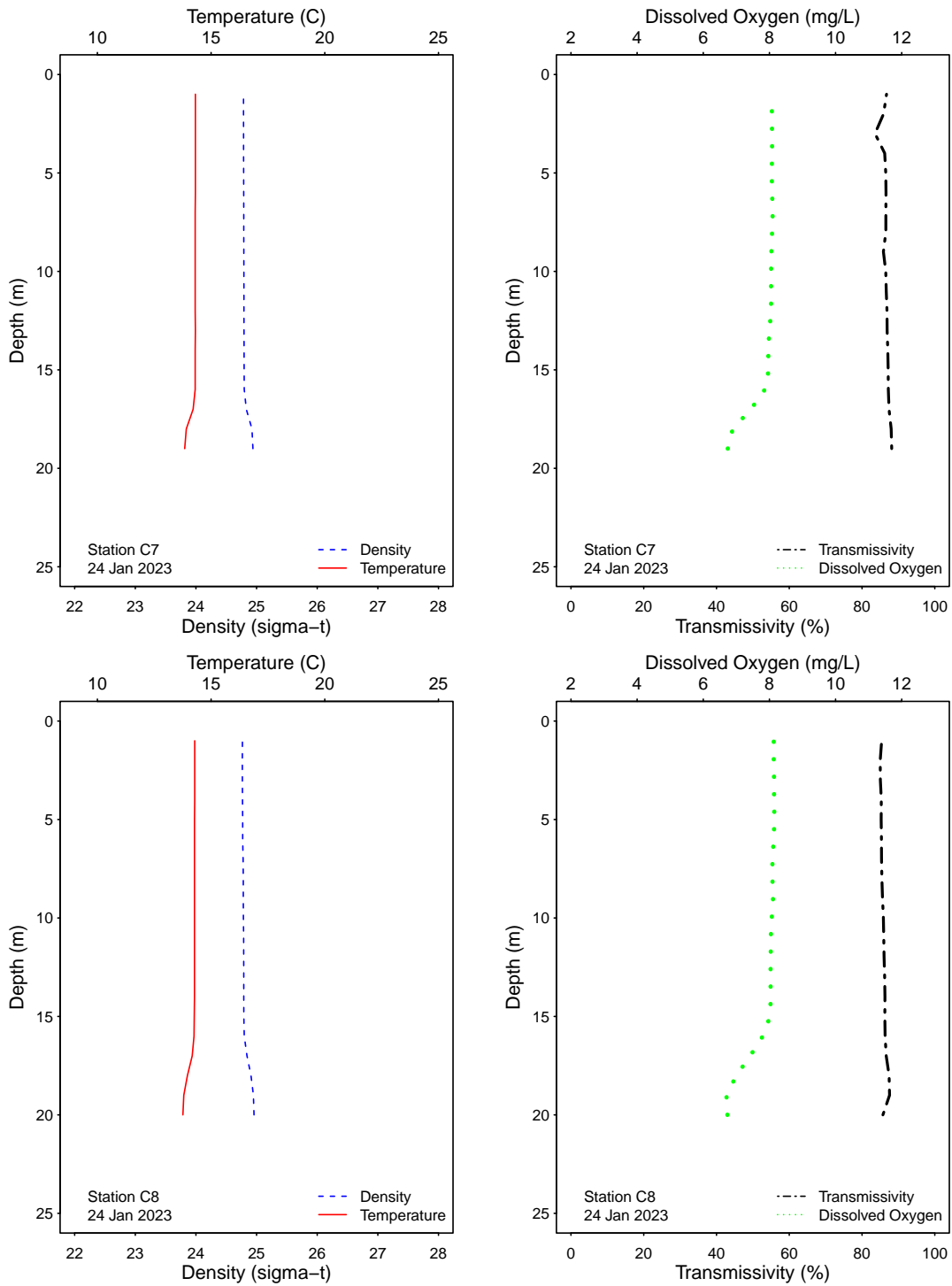


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

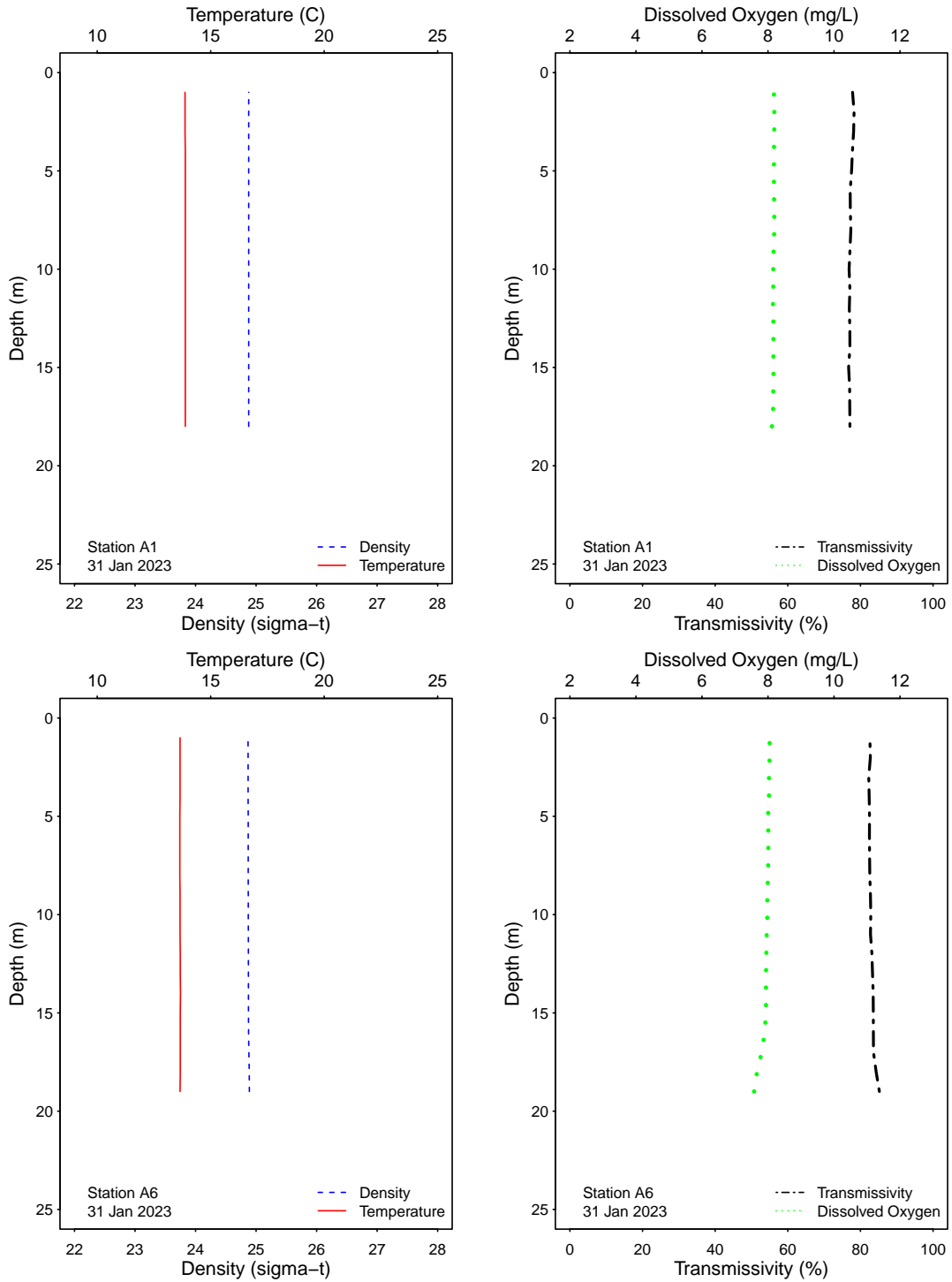


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

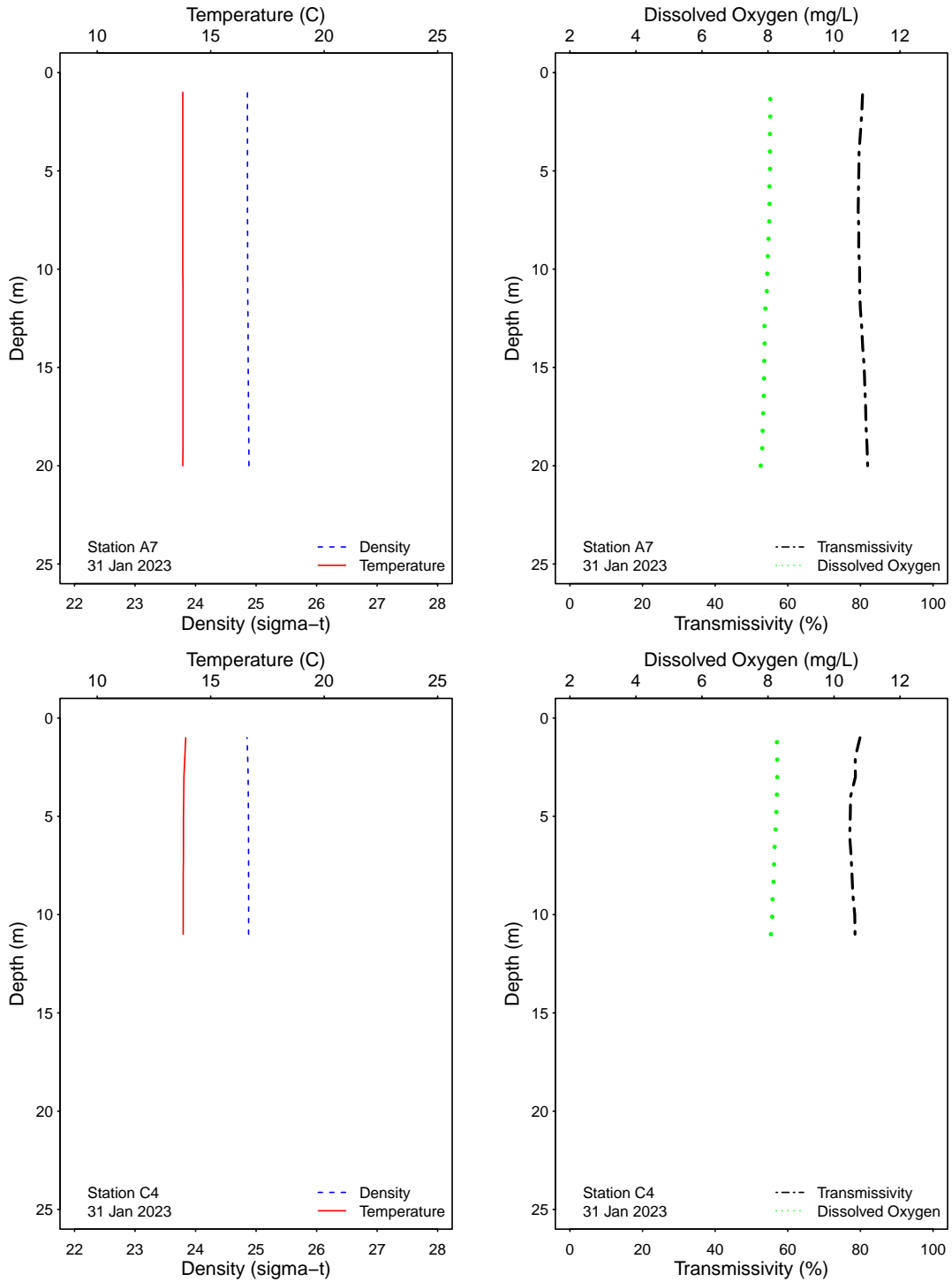


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

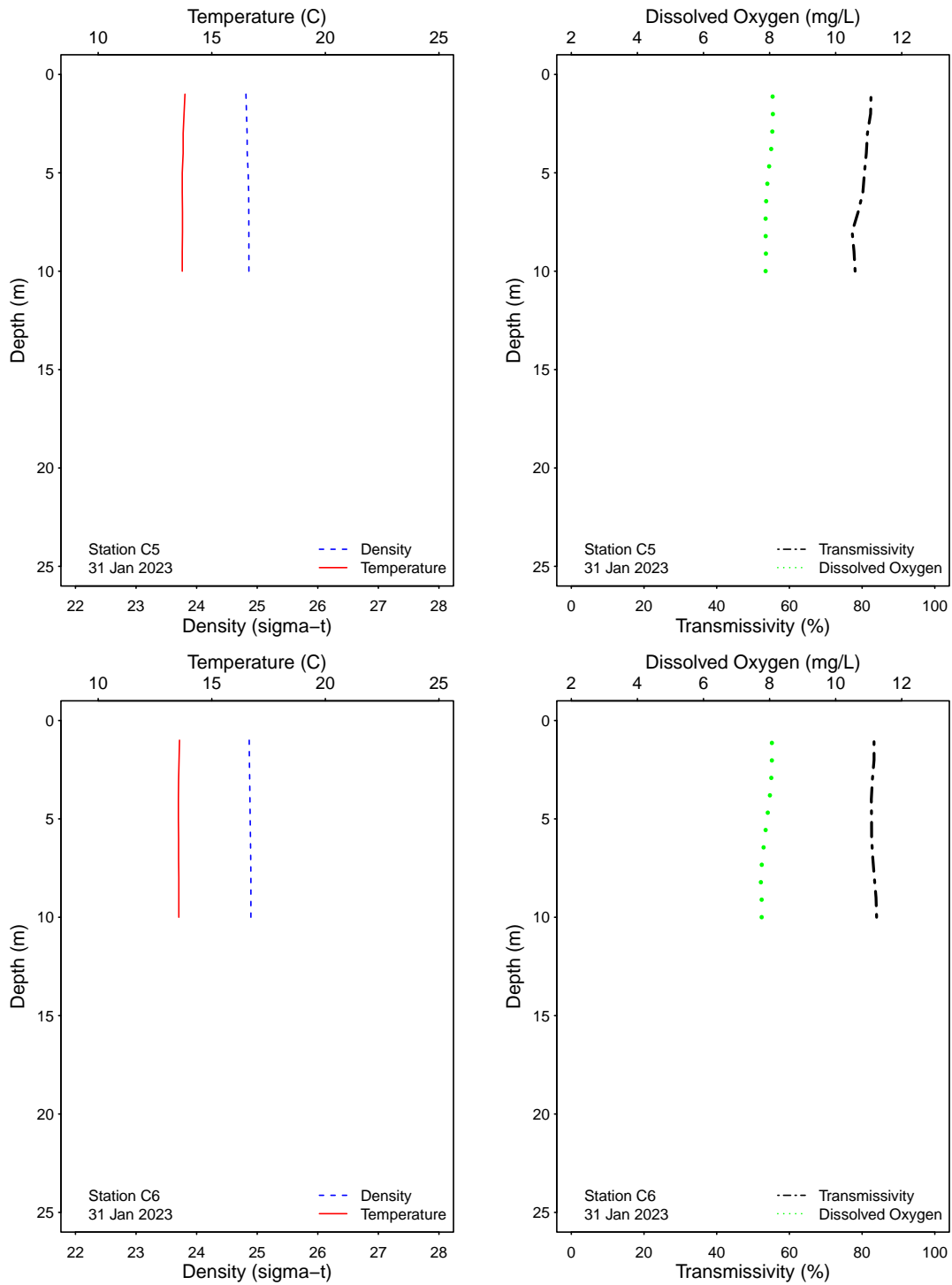


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

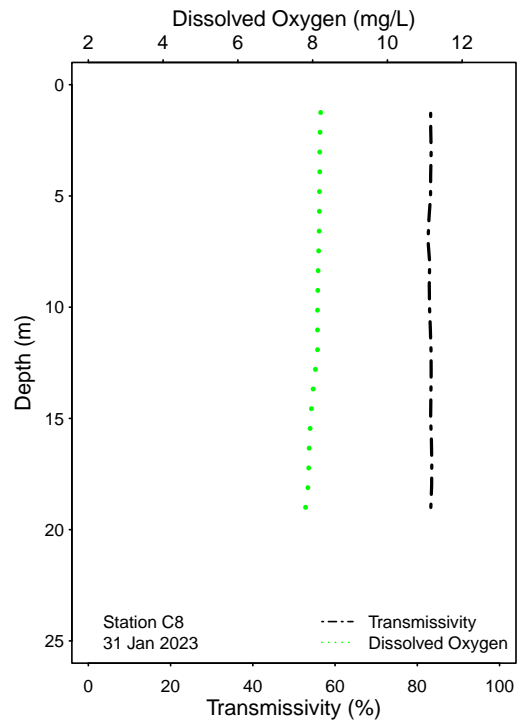
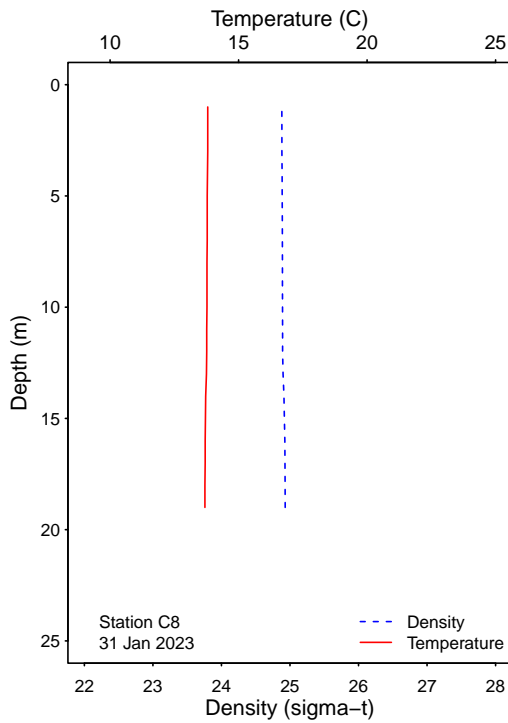
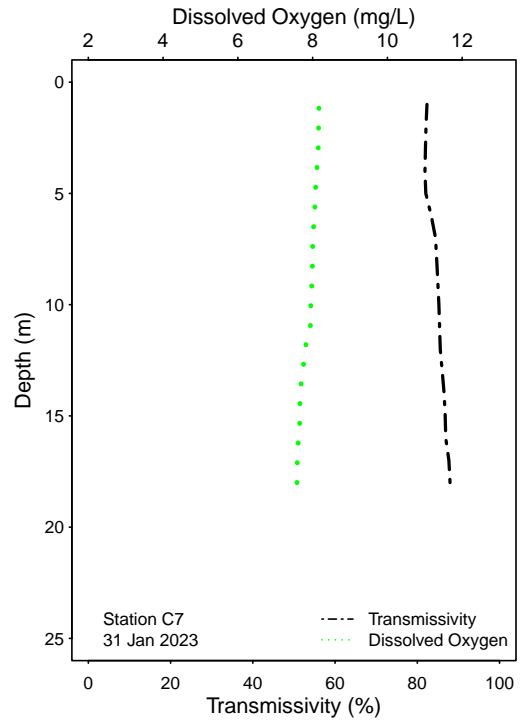
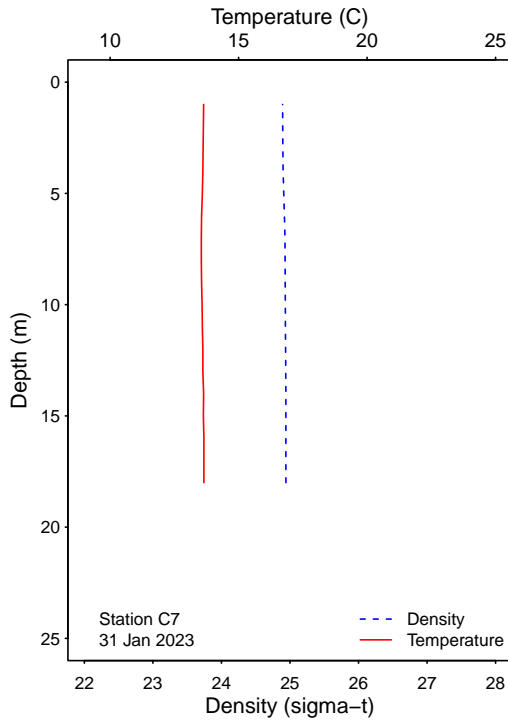


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected PLOO stations. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL.

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
A7	04 Jan 2023	18	CRE	LAB DUPLICATE	<2	<2	<2
A7	12 Jan 2023	18	CRE	LAB DUPLICATE	4e	2e	<2
A7	18 Jan 2023	18	KA	LAB DUPLICATE	50	12e	14e
A7	24 Jan 2023	18	KA	LAB DUPLICATE	26e	2e	<2
A7	31 Jan 2023	18	KA	LAB DUPLICATE	4e	<2	<2
C7	04 Jan 2023	18	CRE	LAB DUPLICATE	6e	<2	<2
C7	12 Jan 2023	18	CRE	LAB DUPLICATE	20e	<2	<2
C7	18 Jan 2023	18	KA	LAB DUPLICATE	50	4e	6e
C7	24 Jan 2023	18	KA	LAB DUPLICATE	2e	<2	<2
C7	31 Jan 2023	18	KA	LAB DUPLICATE	2e	<2	<2
C8	04 Jan 2023	12	CRE	LAB DUPLICATE	2e	2e	2e
C8	12 Jan 2023	12	CRE	LAB DUPLICATE	<2	<2	<2
C8	18 Jan 2023	12	KA	LAB DUPLICATE	2e	2e	<2
C8	24 Jan 2023	12	KA	LAB DUPLICATE	<2	<2	<2
C8	31 Jan 2023	12	KA	LAB DUPLICATE	2e	<2	<2
D12	04 Jan 2023		CRE	FIELD DUPLICATE	180e	20e	44
D12	04 Jan 2023		CRE	LAB DUPLICATE	200e	10e	16e
D12	11 Jan 2023		JF	FIELD DUPLICATE	<20	8e	12e
D12	11 Jan 2023		JF	LAB DUPLICATE	20e	8e	4e
D12	18 Jan 2023		CRE	FIELD DUPLICATE	100e	12e	12e
D12	18 Jan 2023		CRE	LAB DUPLICATE	40e	10e	18e
D12	25 Jan 2023		CRE	FIELD DUPLICATE	8e	<2	<2
D12	25 Jan 2023		CRE	LAB DUPLICATE	20e	<2	4e

ns = not sampled

ND = no data

APPENDIX B

New 2019 Ocean Plan Water Quality Objectives

Shore Stations

Table B.1

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jan 2023	4	2	3	9	4	5	6	4
02 Jan 2023	3	2	2	6	4	4	6	4
03 Jan 2023	3	2	2	6	4	4	6	4
04 Jan 2023	3	2	2	9	8	7	8	4
05 Jan 2023	3	2	2	9	8	7	8	4
06 Jan 2023	3	2	2	9	12	7	8	4
07 Jan 2023	3	2	2	9	11	7	8	4
08 Jan 2023	3	2	2	9	11	7	8	4
09 Jan 2023	3	2	2	9	11	7	8	4
10 Jan 2023	3	2	2	9	11	7	8	4
11 Jan 2023	3	2	2	11	16	9	12	6
12 Jan 2023	3	2	2	11	16	9	12	6
13 Jan 2023	3	2	2	11	16	9	12	6
14 Jan 2023	3	2	2	11	16	9	12	6
15 Jan 2023	3	2	2	11	16	9	12	6
16 Jan 2023	3	2	2	10	21	11	16	5
17 Jan 2023	3	2	2	10	21	11	16	5
18 Jan 2023	3	3	3	14	25	15	22	6
19 Jan 2023	3	3	3	14	25	15	21	6
20 Jan 2023	3	3	3	14	25	15	21	6
21 Jan 2023	3	3	3	14	25	15	21	6
22 Jan 2023	3	3	3	14	25	15	21	6
23 Jan 2023	3	3	3	14	25	15	21	6
24 Jan 2023	3	3	3	14	25	15	21	6
25 Jan 2023	3	3	4	11	23	21	27	6
26 Jan 2023	3	3	4	11	23	21	27	6
27 Jan 2023	3	3	4	11	23	21	27	6
28 Jan 2023	3	3	4	11	23	21	27	6
29 Jan 2023	3	3	4	11	23	21	27	6
30 Jan 2023	3	3	4	11	23	21	27	6
31 Jan 2023	3	3	4	11	23	21	27	6

* Geometric mean calculated using n<5
 ns = not sampled

Table B.2

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
January	IC	IC	IC	IC	E	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 Jan 2023	11	20	6	50	43	110	16	20
02 Jan 2023	11	20	6	50	43	110	16	20
03 Jan 2023	11	20	6	50	43	110	16	20
04 Jan 2023	41	80	15	100	100	200	90	30
05 Jan 2023	41	80	15	100	100	200	90	30
06 Jan 2023	41	80	15	100	100	200	90	30
07 Jan 2023	41	80	15	100	100	200	90	30
08 Jan 2023	41	80	15	100	100	200	90	30
09 Jan 2023	41	80	15	100	100	200	90	30
10 Jan 2023	41	80	15	100	100	200	90	30
11 Jan 2023	20	20	20	60	60	200	160	20
12 Jan 2023	20	20	20	60	60	200	160	20
13 Jan 2023	50	80	20	90	100	120	160	30
14 Jan 2023	50	80	20	90	100	120	160	30
15 Jan 2023	50	80	20	90	100	120	160	30
16 Jan 2023	50	80	20	90	100	120	160	30
17 Jan 2023	50	80	20	90	100	120	160	30
18 Jan 2023	20	120	20	140	140	200	160	40
19 Jan 2023	20	120	20	140	140	200	160	40
20 Jan 2023	50	70	20	170	360	200	280	30
21 Jan 2023	50	70	20	170	360	200	280	30
22 Jan 2023	50	70	20	170	360	200	280	30
23 Jan 2023	50	70	20	170	360	200	280	30
24 Jan 2023	50	70	20	170	360	200	280	30
25 Jan 2023	20	20	20	140	140	200	160	20
26 Jan 2023	20	20	20	140	140	200	160	20
27 Jan 2023	20	70	20	120	100	200	160	30
28 Jan 2023	20	70	20	120	100	200	160	30
29 Jan 2023	20	70	20	120	100	200	160	30
30 Jan 2023	20	70	20	120	100	200	160	30
31 Jan 2023	20	70	20	120	100	200	160	30

* Median calculated using n<5

Table B.4

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
January	IC	IC	IC	E	E	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 kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (*). Values >30 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Jan 2023	2	2	2	2	2	2	2	2
02 Jan 2023	2	2	2	2	2	2	2	2
03 Jan 2023	2	2	2	2	2	2	2	2
04 Jan 2023	2	2	2	2	3	2	2	2
05 Jan 2023	2	2	2	2	3	2	2	2
06 Jan 2023	2	2	2	2	3	2	2	2
07 Jan 2023	2	2	2	2	3	2	2	2
08 Jan 2023	2	2	2	2	3	2	2	2
09 Jan 2023	2	2	2	2	3	2	2	2
10 Jan 2023	2	2	2	2	3	2	2	2
11 Jan 2023	2	2	2	2	3	2	2	2
12 Jan 2023	2	2	2	2	3	2	2	2
13 Jan 2023	2	2	2	2	3	2	2	2
14 Jan 2023	2	2	2	2	3	2	2	2
15 Jan 2023	2	2	2	2	3	2	2	2
16 Jan 2023	2	2	2	2	4	2	2	2
17 Jan 2023	2	2	2	2	4	2	2	2
18 Jan 2023	3	3	3	3	5	3	2	2
19 Jan 2023	3	3	3	3	5	3	2	2
20 Jan 2023	3	3	3	3	5	3	2	2
21 Jan 2023	3	3	3	3	5	3	2	2
22 Jan 2023	3	3	3	3	5	3	2	2
23 Jan 2023	3	3	3	3	5	3	2	2
24 Jan 2023	3	3	3	3	5	3	2	2
25 Jan 2023	3	3	3	3	5	3	2	2
26 Jan 2023	3	3	3	3	5	3	2	2
27 Jan 2023	3	3	3	3	5	3	2	2
28 Jan 2023	3	3	3	3	5	3	2	2
29 Jan 2023	3	3	3	3	5	3	2	2
30 Jan 2023	3	3	3	3	5	3	2	2
31 Jan 2023	3	3	3	3	4	2	2	2

* Geometric mean calculated using n<5

Table B.6

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table B.7

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the PLOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	A1			A6			A7			C4			C5			C6			C7			C8		
	1m	12m	18m	1m	12m	18m	1m	3m	9m	1m	3m	9m	1m	3m	9m	1m	3m	9m	1m	12m	18m	1m	12m	18m
01 Jan 2023	3	3	22	2	6	7	2	6	2	2	20	2	2	2	10	3	6	6	2	3	6	2	5	10
02 Jan 2023	3	3	22	2	6	7	2	6	2	2	20	2	2	2	10	3	6	6	2	3	6	2	5	10
03 Jan 2023	3	3	22	2	6	7	2	6	2	2	20	2	2	2	10	3	6	6	2	3	6	2	5	10
04 Jan 2023	3	3	4	4	8	7	2	12	19	15	11	2	2	4	19	3	6	7	3	3	6	3	6	16
05 Jan 2023	3	3	4	4	8	7	2	12	19	15	11	2	2	4	19	3	6	7	3	3	6	3	6	16
06 Jan 2023	3	3	4	4	8	7	2	12	19	15	11	2	2	4	19	3	6	7	3	3	6	3	6	16
07 Jan 2023	3	3	4	4	8	7	2	12	19	15	11	2	2	4	19	3	6	7	3	3	6	3	6	16
08 Jan 2023	3	3	4	4	8	7	2	12	19	15	11	2	2	4	19	3	6	7	3	3	6	3	6	16
09 Jan 2023	3	3	4	4	8	7	2	12	19	15	11	2	2	4	19	3	6	7	3	3	6	3	6	16
10 Jan 2023	3	3	4	4	8	7	2	12	19	15	11	2	2	4	19	3	6	7	3	3	6	3	6	16
11 Jan 2023	3	3	4	4	8	7	2	12	19	15	11	2	2	4	19	3	6	7	3	3	6	3	6	16
12 Jan 2023	3	8	4	4	4	4	2	6	11	2	2	2	2	3	20	2	4	4	3	3	4	3	3	8
13 Jan 2023	3	8	4	4	4	4	2	6	11	2	2	2	2	3	20	2	4	4	3	3	4	3	3	8
14 Jan 2023	3	8	4	4	4	4	2	6	11	2	2	2	2	3	20	2	4	4	3	3	4	3	3	8
15 Jan 2023	3	8	4	4	4	4	2	6	11	2	2	2	2	3	20	2	4	4	3	3	4	3	3	8
16 Jan 2023	3	8	4	4	4	4	2	6	11	2	2	2	2	3	20	2	4	4	3	3	4	3	3	8
17 Jan 2023	3	8	4	4	4	4	2	6	11	2	2	2	2	3	20	2	4	4	3	3	4	3	3	8
18 Jan 2023	4	14	4	6	6	4	2	10	20	2	2	2	2	4	20	2	4	20	2	4	6	4	4	12
19 Jan 2023	4	14	4	6	6	4	2	10	20	2	2	2	2	4	20	2	4	20	2	4	6	4	4	12
20 Jan 2023	16	19	12	9	4	4	2	12	15	24	35	30	70	12	20	2	12	20	2	4	4	8	3	8
21 Jan 2023	16	19	12	9	4	4	2	12	15	24	35	30	70	12	20	2	12	20	2	4	4	8	3	8
22 Jan 2023	16	19	12	9	4	4	2	12	15	24	35	30	70	12	20	2	12	20	2	4	4	8	3	8
23 Jan 2023	16	19	12	9	4	4	2	12	15	24	35	30	70	12	20	2	12	20	2	4	4	8	3	8
24 Jan 2023	4	14	20	6	2	4	2	2	20	2	2	2	2	4	20	2	4	20	2	2	2	12	2	6
25 Jan 2023	4	14	20	6	2	4	2	2	20	2	2	2	2	4	20	2	4	20	2	2	2	12	2	6
26 Jan 2023	16	19	21	9	4	29	2	11	14	24	35	30	61	12	20	2	12	20	2	4	4	16	3	9
27 Jan 2023	16	19	21	9	4	29	2	11	14	24	35	30	61	12	20	2	12	20	2	4	4	16	3	9
28 Jan 2023	16	19	21	9	4	29	2	11	14	24	35	30	61	12	20	2	12	20	2	4	4	16	3	9
29 Jan 2023	16	19	21	9	4	29	2	11	14	24	35	30	61	12	20	2	12	20	2	4	4	16	3	9
30 Jan 2023	16	19	21	9	4	29	2	11	14	24	35	30	61	12	20	2	12	20	2	4	4	16	3	9
31 Jan 2023	8	14	20	6	2	6	2	4	20	2	2	2	2	4	20	2	4	20	2	2	2	12	4	8

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

Date	A1		A6		A7		C4		C5		C6		C7		C8	
	1m	12m	1m	12m	1m	12m	1m	3m	1m	3m	1m	3m	1m	12m	1m	12m
January	IC	E	IC	IC	IC	E	IC	IC	E	IC	IC	IC	IC	IC	IC	IC