



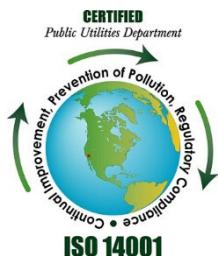
POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

**POINT LOMA
WASTEWATER TREATMENT PLANT**

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

SEPTEMBER 2022

Environmental Monitoring and Technical Services
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
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Public Utilities Department
Environmental Monitoring & Technical Services Division

October 31, 2022

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 September 2022 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,

A handwritten signature in blue ink that reads "Peter S. Vroom".

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, chromomorphic dissolved organic matter (CDOM), and visual observations of weather and water conditions.

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

Bacteriological Reporting and Quality Assurance

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

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

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

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

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 2022 Quality Assurance Report, which will be completed in March 2023.

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 September 7, 14, 21, and 28.
- During September, each of the eight shore stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Nothing of sewage origin was observed at PLOO shore stations in September.
- 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 September 7, 13, 20, and 29.
- During September, 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 12.67 to 23.80°C. The difference between surface and bottom waters ranged from 0.67 to 9.72°C.
- Chlorophyll *a* concentrations ranged from 0.52 to 9.17 µg/L.

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

- Nothing of sewage origin was observed at PLOO kelp stations in September.

Offshore Stations

- Quarterly water quality sampling was not conducted during September at the offshore stations. The next quarterly sampling is scheduled for November 2022.



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 Sep 2022	23	91	80	174	99	36	31	20
02 Sep 2022	36	112	63	168	83	42	47	20
03 Sep 2022	36	112	63	168	83	42	47	20
04 Sep 2022	36	112	63	168	83	42	47	20
05 Sep 2022	36	112	63	168	83	42	47	20
06 Sep 2022	36	112	63	168	83	42	47	20
07 Sep 2022	50	126	80	174	99	58	39	20
08 Sep 2022	50	126	80	174	99	58	39	20
09 Sep 2022	36	200	63	168	112	42	26	20
10 Sep 2022	36	200	63	168	112	42	26	20
11 Sep 2022	36	200	63	168	112	42	26	20
12 Sep 2022	36	200	63	168	112	42	26	20
13 Sep 2022	36	200	63	168	112	42	26	20
14 Sep 2022	50	200	80	174	126	58	25	26
15 Sep 2022	50	200	80	174	126	58	25	26
16 Sep 2022	112	200	112	112	200	63	20	28
17 Sep 2022	112	200	112	112	200	63	20	28
18 Sep 2022	112	200	112	112	200	63	20	28
19 Sep 2022	112	200	112	112	200	63	20	28
20 Sep 2022	112	200	112	112	200	63	20	28
21 Sep 2022	126	200	126	126	230	80	32	26
22 Sep 2022	126	200	126	126	230	80	32	26
23 Sep 2022	200	200	200	200	238	112	36	28
24 Sep 2022	200	200	200	200	238	112	36	28
25 Sep 2022	200	200	200	200	238	112	36	28
26 Sep 2022	200	200	200	200	238	112	36	28
27 Sep 2022	200	200	200	200	238	112	36	28
28 Sep 2022	126	200	200	200	145	80	50	30
29 Sep 2022	126	200	200	200	145	80	50	30
30 Sep 2022	112	200	200	200	134	112	63	34

* 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 Sep 2022	2	2	3	10	3	3	4	2
02 Sep 2022	3	2	3	14	3	3	5	2
03 Sep 2022	3	2	3	14	3	3	5	2
04 Sep 2022	3	2	3	14	3	3	5	2
05 Sep 2022	3	2	3	14	3	3	5	2
06 Sep 2022	3	2	3	14	3	3	5	2
07 Sep 2022	2	2	3	11	3	3	7	2
08 Sep 2022	2	2	3	11	3	3	7	2
09 Sep 2022	3	2	2	16	3	3	7	2
10 Sep 2022	3	2	2	16	3	3	7	2
11 Sep 2022	3	2	2	16	3	3	7	2
12 Sep 2022	3	2	2	16	3	3	7	2
13 Sep 2022	3	2	2	16	3	3	7	2
14 Sep 2022	2	2	2	17	4	5	6	4
15 Sep 2022	2	2	2	17	4	5	6	4
16 Sep 2022	3	2	2	8	5	6	8	5
17 Sep 2022	3	2	2	5	5	6	8	5
18 Sep 2022	3	2	2	5	5	6	8	5
19 Sep 2022	3	2	2	5	5	6	8	5
20 Sep 2022	3	2	2	5	5	6	8	5
21 Sep 2022	4	4	2	5	4	5	6	4
22 Sep 2022	4	4	2	5	4	5	6	4
23 Sep 2022	5	4	2	6	3	4	4	5
24 Sep 2022	5	4	2	6	3	4	4	5
25 Sep 2022	5	4	2	6	3	4	4	5
26 Sep 2022	5	4	2	6	3	4	4	5
27 Sep 2022	5	4	2	6	3	4	4	5
28 Sep 2022	5	3	4	5	3	3	7	6
29 Sep 2022	5	3	4	5	3	3	7	6
30 Sep 2022	5	4	5	5	3	4	10	8

* 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 Sep 2022	2	2	4	3	3	3	5	2
02 Sep 2022	2	2	5	3	3	3	6	2
03 Sep 2022	2	2	5	3	3	3	6	2
04 Sep 2022	2	2	5	3	3	3	6	2
05 Sep 2022	2	2	5	3	3	3	6	2
06 Sep 2022	2	2	5	3	3	3	6	2
07 Sep 2022	2	3	8	3	3	3	5	2
08 Sep 2022	2	3	8	3	3	3	5	2
09 Sep 2022	2	3	4	3	3	2	4	2
10 Sep 2022	2	3	4	3	3	2	4	2
11 Sep 2022	2	3	4	3	3	2	4	2
12 Sep 2022	2	3	4	3	3	2	4	2
13 Sep 2022	2	3	4	3	3	2	4	2
14 Sep 2022	2	3	4	3	3	3	4	4
15 Sep 2022	2	3	4	3	3	3	4	4
16 Sep 2022	2	3	4	3	3	4	4	5
17 Sep 2022	2	3	4	3	3	4	4	5
18 Sep 2022	2	3	4	3	3	4	4	5
19 Sep 2022	2	3	4	3	3	4	4	5
20 Sep 2022	2	3	4	3	3	4	4	5
21 Sep 2022	2	3	4	3	3	3	4	4
22 Sep 2022	2	3	4	3	3	3	4	4
23 Sep 2022	2	3	4	3	2	4	2	5
24 Sep 2022	2	3	4	3	2	4	2	5
25 Sep 2022	2	3	4	3	2	4	2	5
26 Sep 2022	2	3	4	3	2	4	2	5
27 Sep 2022	2	3	4	3	2	4	2	5
28 Sep 2022	3	3	4	3	2	4	3	8
29 Sep 2022	3	3	4	3	2	4	3	8
30 Sep 2022	4	3	5	2	2	5	4	11

* 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
07 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
14 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
21 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
28 Sep 2022	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
07 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
14 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
21 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
28 Sep 2022	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
07 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
14 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
21 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
28 Sep 2022	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
07 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
14 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
21 Sep 2022	IC	IC	IC	IC	IC	IC	IC	IC
28 Sep 2022	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* (Enter) 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	Enter	F:T
D4	07 Sep 2022	903	<200	<2	<2	0.010
	14 Sep 2022	839	<200	<2	<2	0.010
	21 Sep 2022	805	<200	<20	<2	0.100
	28 Sep 2022	815	<20	6e	30e	0.300
D5	07 Sep 2022	915	<200	2e	8e	0.010
	14 Sep 2022	817	<200	2e	2e	0.010
	21 Sep 2022	820	<200	20e	<2	0.100
	28 Sep 2022	832	<200	<2	<2	0.010
D7	07 Sep 2022	959	<200	2e	40e	0.010
	14 Sep 2022	918	<200	4e	2e	0.020
	21 Sep 2022	840	<200	2e	<2	0.010
	28 Sep 2022	858	<200	44	4e	0.220
D8-B	07 Sep 2022	1015	<200	4e	4e	0.020
	14 Sep 2022	930	<200	<20	2e	0.100
	21 Sep 2022	857	<200	4e	<2	0.020
	28 Sep 2022	916	<200	<2	<2	0.010
D9	07 Sep 2022	1034	<200	<2	<2	0.010
	14 Sep 2022	939	<200	8e	2e	0.040
	21 Sep 2022	906	400e	<2	<2	0.005
	28 Sep 2022	958	20e	<2	2e	0.100
D10	07 Sep 2022	1050	<200	2e	2e	0.010
	14 Sep 2022	953	<200	20e	32e	0.100
	21 Sep 2022	940	200e	<2	<2	0.010
	28 Sep 2022	1010	20e	<2	4e	0.100
D11	07 Sep 2022	1104	20e	<20	2e	1.000
	14 Sep 2022	1010	<20	4e	2e	0.200
	21 Sep 2022	956	<200	<2	4e	0.010
	28 Sep 2022	1030	<200	52	16e	0.260
D12	07 Sep 2022	1133	20e	<2	2e	0.100
	14 Sep 2022	1038	80e	72	90	0.900
	21 Sep 2022	1019	<20	<2	2e	0.100
	28 Sep 2022	1106	40e	18e	42	0.450

ns = not sampled

ND = no data

Table 2.9

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

Station	Date	Parameter	Value
D4	07 Sep 2022	Arrive Time	903
D4	07 Sep 2022	Weather	Foggy
D4	07 Sep 2022	Wind Speed (kts)	3.1
D4	07 Sep 2022	Wind Dir	NW
D4	07 Sep 2022	Animal Life	Bird-3
D4	07 Sep 2022	Floatables	Foam
D4	07 Sep 2022	Water Color	Green
D4	07 Sep 2022	Current Direction	S
D4	07 Sep 2022	Water Temp (C)	23.7
D4	07 Sep 2022	Wave Height Low (ft)	3
D4	07 Sep 2022	High Tide (ft)	4.29
D4	07 Sep 2022	High Tide Time	824
D4	07 Sep 2022	Low Tide (ft)	-0.75
D4	07 Sep 2022	Low Tide Time	159
D4	07 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-1; Kelp; Seagrass; Algae
D4	14 Sep 2022	Arrive Time	839
D4	14 Sep 2022	Weather	Cloudy
D4	14 Sep 2022	Wind Speed (kts)	1.9
D4	14 Sep 2022	Wind Dir	W
D4	14 Sep 2022	Animal Life	Pelican-3
D4	14 Sep 2022	Floatables	Foam
D4	14 Sep 2022	Water Color	Green
D4	14 Sep 2022	Current Direction	N
D4	14 Sep 2022	Water Temp (C)	21.4
D4	14 Sep 2022	Wave Height Low (ft)	2
D4	14 Sep 2022	High Tide (ft)	4.26
D4	14 Sep 2022	High Tide Time	3
D4	14 Sep 2022	Low Tide (ft)	1.47
D4	14 Sep 2022	Low Tide Time	552
D4	14 Sep 2022	Comments	Kelp; Seagrass; Algae
D4	21 Sep 2022	Arrive Time	805
D4	21 Sep 2022	Weather	Sunny
D4	21 Sep 2022	Wind Speed (kts)	2.8
D4	21 Sep 2022	Wind Dir	NW
D4	21 Sep 2022	Animal Life	Bird-1; Pelican-1
D4	21 Sep 2022	Floatables	Foam
D4	21 Sep 2022	Water Color	Green
D4	21 Sep 2022	Current Direction	S
D4	21 Sep 2022	Water Temp (C)	22.5
D4	21 Sep 2022	Wave Height Low (ft)	2
D4	21 Sep 2022	High Tide (ft)	4.16
D4	21 Sep 2022	High Tide Time	816
D4	21 Sep 2022	Low Tide (ft)	0.28
D4	21 Sep 2022	Low Tide Time	145
D4	21 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-3; Boater/Kayaker-1; Trash-1; Seagrass; Algae; Kelp
D4	28 Sep 2022	Arrive Time	815
D4	28 Sep 2022	Weather	Foggy
D4	28 Sep 2022	Wind Speed (kts)	1.4
D4	28 Sep 2022	Wind Dir	W
D4	28 Sep 2022	Animal Life	Pelican-3
D4	28 Sep 2022	Floatables	Foam

Station	Date	Parameter	Value
D4	28 Sep 2022	Water Color	Grey
D4	28 Sep 2022	Current Direction	S
D4	28 Sep 2022	Water Temp (C)	19.1
D4	28 Sep 2022	Wave Height Low (ft)	3
D4	28 Sep 2022	High Tide (ft)	5.67
D4	28 Sep 2022	High Tide Time	1047
D4	28 Sep 2022	Low Tide (ft)	1.07
D4	28 Sep 2022	Low Tide Time	438
D4	28 Sep 2022	Comments	Kelp; Seagrass; Algae
D5	07 Sep 2022	Arrive Time	917
D5	07 Sep 2022	Weather	Foggy
D5	07 Sep 2022	Wind Speed (kts)	2.2
D5	07 Sep 2022	Wind Dir	NW
D5	07 Sep 2022	Animal Life	Seagull-1
D5	07 Sep 2022	Floatables	Foam
D5	07 Sep 2022	Water Color	Green
D5	07 Sep 2022	Current Direction	S
D5	07 Sep 2022	Water Temp (C)	25.4
D5	07 Sep 2022	Wave Height Low (ft)	5
D5	07 Sep 2022	High Tide (ft)	4.29
D5	07 Sep 2022	High Tide Time	824
D5	07 Sep 2022	Low Tide (ft)	-0.75
D5	07 Sep 2022	Low Tide Time	159
D5	07 Sep 2022	Comments	Kelp; Seagrass; Algae; Debris
D5	14 Sep 2022	Arrive Time	817
D5	14 Sep 2022	Weather	Overcast
D5	14 Sep 2022	Wind Speed (kts)	1.3
D5	14 Sep 2022	Wind Dir	W
D5	14 Sep 2022	Animal Life	
D5	14 Sep 2022	Floatables	Foam
D5	14 Sep 2022	Water Color	Green
D5	14 Sep 2022	Current Direction	N
D5	14 Sep 2022	Water Temp (C)	22.2
D5	14 Sep 2022	Wave Height Low (ft)	3
D5	14 Sep 2022	High Tide (ft)	4.26
D5	14 Sep 2022	High Tide Time	3
D5	14 Sep 2022	Low Tide (ft)	1.47
D5	14 Sep 2022	Low Tide Time	552
D5	14 Sep 2022	Comments	Kelp; Algae; Debris
D5	21 Sep 2022	Arrive Time	820
D5	21 Sep 2022	Weather	Sunny
D5	21 Sep 2022	Wind Speed (kts)	2
D5	21 Sep 2022	Wind Dir	NW
D5	21 Sep 2022	Animal Life	
D5	21 Sep 2022	Floatables	Foam
D5	21 Sep 2022	Water Color	Brown
D5	21 Sep 2022	Current Direction	S
D5	21 Sep 2022	Water Temp (C)	22.2
D5	21 Sep 2022	Wave Height Low (ft)	2
D5	21 Sep 2022	High Tide (ft)	4.16
D5	21 Sep 2022	High Tide Time	816
D5	21 Sep 2022	Low Tide (ft)	0.28
D5	21 Sep 2022	Low Tide Time	145
D5	21 Sep 2022	Comments	Kelp; Algae
D5	28 Sep 2022	Arrive Time	832
D5	28 Sep 2022	Weather	Foggy
D5	28 Sep 2022	Wind Speed (kts)	1.9

Station	Date	Parameter	Value
D5	28 Sep 2022	Wind Dir	S
D5	28 Sep 2022	Animal Life	
D5	28 Sep 2022	Floatables	Foam
D5	28 Sep 2022	Water Color	Brown
D5	28 Sep 2022	Current Direction	S
D5	28 Sep 2022	Water Temp (C)	19.4
D5	28 Sep 2022	Wave Height Low (ft)	2
D5	28 Sep 2022	High Tide (ft)	5.67
D5	28 Sep 2022	High Tide Time	1047
D5	28 Sep 2022	Low Tide (ft)	1.07
D5	28 Sep 2022	Low Tide Time	438
D5	28 Sep 2022	Comments	Kelp; Seagrass; Algae
D7	07 Sep 2022	Arrive Time	959
D7	07 Sep 2022	Weather	Foggy
D7	07 Sep 2022	Wind Speed (kts)	3.8
D7	07 Sep 2022	Wind Dir	NW
D7	07 Sep 2022	Animal Life	
D7	07 Sep 2022	Floatables	Foam
D7	07 Sep 2022	Water Color	Green
D7	07 Sep 2022	Current Direction	N
D7	07 Sep 2022	Water Temp (C)	24.7
D7	07 Sep 2022	Wave Height Low (ft)	4
D7	07 Sep 2022	High Tide (ft)	4.29
D7	07 Sep 2022	High Tide Time	824
D7	07 Sep 2022	Low Tide (ft)	-0.75
D7	07 Sep 2022	Low Tide Time	159
D7	07 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-4; Trash-1; Kelp; Seagrass; Algae
D7	14 Sep 2022	Arrive Time	918
D7	14 Sep 2022	Weather	Cloudy
D7	14 Sep 2022	Wind Speed (kts)	1.5
D7	14 Sep 2022	Wind Dir	SW
D7	14 Sep 2022	Animal Life	
D7	14 Sep 2022	Floatables	Foam
D7	14 Sep 2022	Water Color	Green
D7	14 Sep 2022	Current Direction	N
D7	14 Sep 2022	Water Temp (C)	22.2
D7	14 Sep 2022	Wave Height Low (ft)	3
D7	14 Sep 2022	High Tide (ft)	4.26
D7	14 Sep 2022	High Tide Time	3
D7	14 Sep 2022	Low Tide (ft)	1.47
D7	14 Sep 2022	Low Tide Time	552
D7	14 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-9; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-1
D7	21 Sep 2022	Arrive Time	840
D7	21 Sep 2022	Weather	Sunny
D7	21 Sep 2022	Wind Speed (kts)	6.4
D7	21 Sep 2022	Wind Dir	NW
D7	21 Sep 2022	Animal Life	
D7	21 Sep 2022	Floatables	Foam
D7	21 Sep 2022	Water Color	Green
D7	21 Sep 2022	Current Direction	S
D7	21 Sep 2022	Water Temp (C)	22.3
D7	21 Sep 2022	Wave Height Low (ft)	4
D7	21 Sep 2022	High Tide (ft)	4.16
D7	21 Sep 2022	High Tide Time	816
D7	21 Sep 2022	Low Tide (ft)	0.28
D7	21 Sep 2022	Low Tide Time	145

Station	Date	Parameter	Value
D7	21 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-5; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-2
D7	28 Sep 2022	Arrive Time	858
D7	28 Sep 2022	Weather	Foggy
D7	28 Sep 2022	Wind Speed (kts)	0
D7	28 Sep 2022	Wind Dir	
D7	28 Sep 2022	Animal Life	
D7	28 Sep 2022	Floatables	Foam
D7	28 Sep 2022	Water Color	Green
D7	28 Sep 2022	Current Direction	S
D7	28 Sep 2022	Water Temp (C)	20.1
D7	28 Sep 2022	Wave Height Low (ft)	1
D7	28 Sep 2022	High Tide (ft)	5.67
D7	28 Sep 2022	High Tide Time	1047
D7	28 Sep 2022	Low Tide (ft)	1.07
D7	28 Sep 2022	Low Tide Time	438
D7	28 Sep 2022	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Seagrass; Algae; Kelp
D8-B	07 Sep 2022	Arrive Time	1015
D8-B	07 Sep 2022	Weather	Foggy
D8-B	07 Sep 2022	Wind Speed (kts)	1.8
D8-B	07 Sep 2022	Wind Dir	W
D8-B	07 Sep 2022	Animal Life	
D8-B	07 Sep 2022	Floatables	Foam
D8-B	07 Sep 2022	Water Color	Brown
D8-B	07 Sep 2022	Current Direction	S
D8-B	07 Sep 2022	Water Temp (C)	24.9
D8-B	07 Sep 2022	Wave Height Low (ft)	4
D8-B	07 Sep 2022	High Tide (ft)	4.29
D8-B	07 Sep 2022	High Tide Time	824
D8-B	07 Sep 2022	Low Tide (ft)	-0.75
D8-B	07 Sep 2022	Low Tide Time	159
D8-B	07 Sep 2022	Comments	Water turbid; Trash-2; Kelp; Seagrass; Algae; Person/Walker/Jogger-1
D8-B	14 Sep 2022	Arrive Time	930
D8-B	14 Sep 2022	Weather	Cloudy
D8-B	14 Sep 2022	Wind Speed (kts)	3.6
D8-B	14 Sep 2022	Wind Dir	W
D8-B	14 Sep 2022	Animal Life	
D8-B	14 Sep 2022	Floatables	Foam
D8-B	14 Sep 2022	Water Color	Green
D8-B	14 Sep 2022	Current Direction	N
D8-B	14 Sep 2022	Water Temp (C)	22.1
D8-B	14 Sep 2022	Wave Height Low (ft)	3
D8-B	14 Sep 2022	High Tide (ft)	4.26
D8-B	14 Sep 2022	High Tide Time	3
D8-B	14 Sep 2022	Low Tide (ft)	1.47
D8-B	14 Sep 2022	Low Tide Time	552
D8-B	14 Sep 2022	Comments	Kelp; Seagrass; Algae; Debris
D8-B	21 Sep 2022	Arrive Time	857
D8-B	21 Sep 2022	Weather	Sunny
D8-B	21 Sep 2022	Wind Speed (kts)	5.9
D8-B	21 Sep 2022	Wind Dir	W
D8-B	21 Sep 2022	Animal Life	
D8-B	21 Sep 2022	Floatables	Foam
D8-B	21 Sep 2022	Water Color	Green
D8-B	21 Sep 2022	Current Direction	S

Station	Date	Parameter	Value
D8-B	21 Sep 2022	Water Temp (C)	22.4
D8-B	21 Sep 2022	Wave Height Low (ft)	4
D8-B	21 Sep 2022	High Tide (ft)	4.16
D8-B	21 Sep 2022	High Tide Time	816
D8-B	21 Sep 2022	Low Tide (ft)	0.28
D8-B	21 Sep 2022	Low Tide Time	145
D8-B	21 Sep 2022	Comments	Kelp; Seagrass; Algae
D8-B	28 Sep 2022	Arrive Time	916
D8-B	28 Sep 2022	Weather	Foggy
D8-B	28 Sep 2022	Wind Speed (kts)	0.7
D8-B	28 Sep 2022	Wind Dir	S
D8-B	28 Sep 2022	Animal Life	
D8-B	28 Sep 2022	Floatables	Foam
D8-B	28 Sep 2022	Water Color	Brown
D8-B	28 Sep 2022	Current Direction	
D8-B	28 Sep 2022	Water Temp (C)	19.7
D8-B	28 Sep 2022	Wave Height Low (ft)	2
D8-B	28 Sep 2022	High Tide (ft)	5.67
D8-B	28 Sep 2022	High Tide Time	1047
D8-B	28 Sep 2022	Low Tide (ft)	1.07
D8-B	28 Sep 2022	Low Tide Time	438
D8-B	28 Sep 2022	Comments	Kelp; Seagrass; Algae
D9	07 Sep 2022	Arrive Time	1034
D9	07 Sep 2022	Weather	Foggy
D9	07 Sep 2022	Wind Speed (kts)	2.7
D9	07 Sep 2022	Wind Dir	SW
D9	07 Sep 2022	Animal Life	
D9	07 Sep 2022	Floatables	Foam
D9	07 Sep 2022	Water Color	Green
D9	07 Sep 2022	Current Direction	N
D9	07 Sep 2022	Water Temp (C)	25
D9	07 Sep 2022	Wave Height Low (ft)	3
D9	07 Sep 2022	High Tide (ft)	4.29
D9	07 Sep 2022	High Tide Time	824
D9	07 Sep 2022	Low Tide (ft)	-0.75
D9	07 Sep 2022	Low Tide Time	159
D9	07 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-5; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-2
D9	14 Sep 2022	Arrive Time	939
D9	14 Sep 2022	Weather	Cloudy
D9	14 Sep 2022	Wind Speed (kts)	4.7
D9	14 Sep 2022	Wind Dir	SW
D9	14 Sep 2022	Animal Life	
D9	14 Sep 2022	Floatables	Foam
D9	14 Sep 2022	Water Color	Green
D9	14 Sep 2022	Current Direction	N
D9	14 Sep 2022	Water Temp (C)	22.3
D9	14 Sep 2022	Wave Height Low (ft)	3
D9	14 Sep 2022	High Tide (ft)	4.26
D9	14 Sep 2022	High Tide Time	3
D9	14 Sep 2022	Low Tide (ft)	1.47
D9	14 Sep 2022	Low Tide Time	552
D9	14 Sep 2022	Comments	Kelp; Seagrass; Algae
D9	21 Sep 2022	Arrive Time	906
D9	21 Sep 2022	Weather	Sunny
D9	21 Sep 2022	Wind Speed (kts)	3.5
D9	21 Sep 2022	Wind Dir	NW

Station	Date	Parameter	Value
D9	21 Sep 2022	Animal Life	
D9	21 Sep 2022	Floatables	Foam
D9	21 Sep 2022	Water Color	Green
D9	21 Sep 2022	Current Direction	S
D9	21 Sep 2022	Water Temp (C)	22.1
D9	21 Sep 2022	Wave Height Low (ft)	3
D9	21 Sep 2022	High Tide (ft)	4.16
D9	21 Sep 2022	High Tide Time	816
D9	21 Sep 2022	Low Tide (ft)	0.28
D9	21 Sep 2022	Low Tide Time	145
D9	21 Sep 2022	Comments	Water turbid; Trash-1; Algae; Person/Walker/Jogger-1
D9	28 Sep 2022	Arrive Time	958
D9	28 Sep 2022	Weather	Foggy
D9	28 Sep 2022	Wind Speed (kts)	3
D9	28 Sep 2022	Wind Dir	W
D9	28 Sep 2022	Animal Life	Dog-1
D9	28 Sep 2022	Floatables	Foam
D9	28 Sep 2022	Water Color	Grey
D9	28 Sep 2022	Current Direction	N
D9	28 Sep 2022	Water Temp (C)	19.9
D9	28 Sep 2022	Wave Height Low (ft)	2
D9	28 Sep 2022	High Tide (ft)	5.67
D9	28 Sep 2022	High Tide Time	1047
D9	28 Sep 2022	Low Tide (ft)	1.07
D9	28 Sep 2022	Low Tide Time	438
D9	28 Sep 2022	Comments	Water turbid; Trash-1; Seagrass; Kelp; Algae; Person/Walker/Jogger-1
D10	07 Sep 2022	Arrive Time	1050
D10	07 Sep 2022	Weather	Foggy
D10	07 Sep 2022	Wind Speed (kts)	2.7
D10	07 Sep 2022	Wind Dir	W
D10	07 Sep 2022	Animal Life	Seagull-4
D10	07 Sep 2022	Floatables	Foam
D10	07 Sep 2022	Water Color	Green
D10	07 Sep 2022	Current Direction	N
D10	07 Sep 2022	Water Temp (C)	25.2
D10	07 Sep 2022	Wave Height Low (ft)	4
D10	07 Sep 2022	High Tide (ft)	4.29
D10	07 Sep 2022	High Tide Time	824
D10	07 Sep 2022	Low Tide (ft)	-0.75
D10	07 Sep 2022	Low Tide Time	159
D10	07 Sep 2022	Comments	Water turbid; Boogie boarder/Swimmer-7; Surfer/Paddle boarder-22; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-24
D10	14 Sep 2022	Arrive Time	953
D10	14 Sep 2022	Weather	Cloudy
D10	14 Sep 2022	Wind Speed (kts)	3.6
D10	14 Sep 2022	Wind Dir	SW
D10	14 Sep 2022	Animal Life	Bird-2; Seagull-4
D10	14 Sep 2022	Floatables	Foam
D10	14 Sep 2022	Water Color	Green
D10	14 Sep 2022	Current Direction	N
D10	14 Sep 2022	Water Temp (C)	23.5
D10	14 Sep 2022	Wave Height Low (ft)	3
D10	14 Sep 2022	High Tide (ft)	4.26
D10	14 Sep 2022	High Tide Time	3
D10	14 Sep 2022	Low Tide (ft)	1.47
D10	14 Sep 2022	Low Tide Time	552

Station	Date	Parameter	Value
D10	14 Sep 2022	Comments	Water turbid; Boogie boarder/Swimmer-3; Surfer/Paddle boarder-16; Trash-2; Kelp; Seagrass; Algae; Person/Walker/Jogger-20
D10	21 Sep 2022	Arrive Time	940
D10	21 Sep 2022	Weather	Sunny
D10	21 Sep 2022	Wind Speed (kts)	7.7
D10	21 Sep 2022	Wind Dir	NW
D10	21 Sep 2022	Animal Life	Bird-18
D10	21 Sep 2022	Floatables	Foam
D10	21 Sep 2022	Water Color	Green
D10	21 Sep 2022	Current Direction	S
D10	21 Sep 2022	Water Temp (C)	22.6
D10	21 Sep 2022	Wave Height Low (ft)	3
D10	21 Sep 2022	High Tide (ft)	4.16
D10	21 Sep 2022	High Tide Time	816
D10	21 Sep 2022	Low Tide (ft)	0.28
D10	21 Sep 2022	Low Tide Time	145
D10	21 Sep 2022	Comments	Water turbid; Boogie boarder/Swimmer-4; Surfer/Paddle boarder-3; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-9
D10	28 Sep 2022	Arrive Time	1010
D10	28 Sep 2022	Weather	Foggy
D10	28 Sep 2022	Wind Speed (kts)	1.8
D10	28 Sep 2022	Wind Dir	W
D10	28 Sep 2022	Animal Life	Seagull-118
D10	28 Sep 2022	Floatables	Foam
D10	28 Sep 2022	Water Color	Green
D10	28 Sep 2022	Current Direction	N
D10	28 Sep 2022	Water Temp (C)	20.7
D10	28 Sep 2022	Wave Height Low (ft)	3
D10	28 Sep 2022	High Tide (ft)	5.67
D10	28 Sep 2022	High Tide Time	1047
D10	28 Sep 2022	Low Tide (ft)	1.07
D10	28 Sep 2022	Low Tide Time	438
D10	28 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-14; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-18
D11	07 Sep 2022	Arrive Time	1104
D11	07 Sep 2022	Weather	Partly cloudy
D11	07 Sep 2022	Wind Speed (kts)	3.3
D11	07 Sep 2022	Wind Dir	W
D11	07 Sep 2022	Animal Life	
D11	07 Sep 2022	Floatables	Foam
D11	07 Sep 2022	Water Color	Green
D11	07 Sep 2022	Current Direction	N
D11	07 Sep 2022	Water Temp (C)	25.9
D11	07 Sep 2022	Wave Height Low (ft)	3
D11	07 Sep 2022	High Tide (ft)	4.29
D11	07 Sep 2022	High Tide Time	824
D11	07 Sep 2022	Low Tide (ft)	-0.75
D11	07 Sep 2022	Low Tide Time	159
D11	07 Sep 2022	Comments	Water turbid; Boogie boarder/Swimmer-2; Surfer/Paddle boarder-21; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-22
D11	14 Sep 2022	Arrive Time	1010
D11	14 Sep 2022	Weather	Partly cloudy
D11	14 Sep 2022	Wind Speed (kts)	5
D11	14 Sep 2022	Wind Dir	W

Station	Date	Parameter	Value
D11	14 Sep 2022	Animal Life	Dog-2
D11	14 Sep 2022	Floatables	Foam
D11	14 Sep 2022	Water Color	Green
D11	14 Sep 2022	Current Direction	N
D11	14 Sep 2022	Water Temp (C)	22.7
D11	14 Sep 2022	Wave Height Low (ft)	3
D11	14 Sep 2022	High Tide (ft)	4.26
D11	14 Sep 2022	High Tide Time	3
D11	14 Sep 2022	Low Tide (ft)	1.47
D11	14 Sep 2022	Low Tide Time	552
D11	14 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-30; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-18
D11	21 Sep 2022	Arrive Time	956
D11	21 Sep 2022	Weather	Sunny
D11	21 Sep 2022	Wind Speed (kts)	8.1
D11	21 Sep 2022	Wind Dir	NW
D11	21 Sep 2022	Animal Life	Bird-1
D11	21 Sep 2022	Floatables	Foam
D11	21 Sep 2022	Water Color	Green
D11	21 Sep 2022	Current Direction	S
D11	21 Sep 2022	Water Temp (C)	22.4
D11	21 Sep 2022	Wave Height Low (ft)	3
D11	21 Sep 2022	High Tide (ft)	4.16
D11	21 Sep 2022	High Tide Time	816
D11	21 Sep 2022	Low Tide (ft)	0.28
D11	21 Sep 2022	Low Tide Time	145
D11	21 Sep 2022	Comments	Water clear; Surfer/Paddle boarder-19; Trash-1; Algae; Person/Walker/Jogger-20
D11	28 Sep 2022	Arrive Time	1030
D11	28 Sep 2022	Weather	Foggy
D11	28 Sep 2022	Wind Speed (kts)	2.7
D11	28 Sep 2022	Wind Dir	W
D11	28 Sep 2022	Animal Life	Dog-5
D11	28 Sep 2022	Floatables	Foam
D11	28 Sep 2022	Water Color	Green
D11	28 Sep 2022	Current Direction	S
D11	28 Sep 2022	Water Temp (C)	20.3
D11	28 Sep 2022	Wave Height Low (ft)	3
D11	28 Sep 2022	High Tide (ft)	5.67
D11	28 Sep 2022	High Tide Time	1047
D11	28 Sep 2022	Low Tide (ft)	1.07
D11	28 Sep 2022	Low Tide Time	438
D11	28 Sep 2022	Comments	Water turbid; Surfer/Paddle boarder-19; Trash-1; Algae; Seagrass; Kelp; Person/Walker/Jogger-12
D12	07 Sep 2022	Arrive Time	1133
D12	07 Sep 2022	Weather	Sunny
D12	07 Sep 2022	Wind Speed (kts)	4.7
D12	07 Sep 2022	Wind Dir	W
D12	07 Sep 2022	Animal Life	
D12	07 Sep 2022	Floatables	None
D12	07 Sep 2022	Water Color	Green
D12	07 Sep 2022	Current Direction	N
D12	07 Sep 2022	Water Temp (C)	26.1
D12	07 Sep 2022	Wave Height Low (ft)	3
D12	07 Sep 2022	High Tide (ft)	4.29
D12	07 Sep 2022	High Tide Time	824
D12	07 Sep 2022	Low Tide (ft)	-0.75
D12	07 Sep 2022	Low Tide Time	159

Station	Date	Parameter	Value
D12	07 Sep 2022	Comments	Water clear; Boogie boarder/Swimmer-18; Trash-1; Kelp; Person/Walker/Jogger-33
D12	14 Sep 2022	Arrive Time	1038
D12	14 Sep 2022	Weather	Partly cloudy
D12	14 Sep 2022	Wind Speed (kts)	4.1
D12	14 Sep 2022	Wind Dir	SW
D12	14 Sep 2022	Animal Life	
D12	14 Sep 2022	Floatables	Foam
D12	14 Sep 2022	Water Color	Green
D12	14 Sep 2022	Current Direction	N
D12	14 Sep 2022	Water Temp (C)	21.1
D12	14 Sep 2022	Wave Height Low (ft)	3
D12	14 Sep 2022	High Tide (ft)	4.26
D12	14 Sep 2022	High Tide Time	3
D12	14 Sep 2022	Low Tide (ft)	1.47
D12	14 Sep 2022	Low Tide Time	552
D12	14 Sep 2022	Comments	Water clear; Surfer/Paddle boarder-8; Trash-2; Kelp; Seagrass; Algae; Debris; Person/Walker/Jogger-19
D12	21 Sep 2022	Arrive Time	1019
D12	21 Sep 2022	Weather	Sunny
D12	21 Sep 2022	Wind Speed (kts)	10.1
D12	21 Sep 2022	Wind Dir	NW
D12	21 Sep 2022	Animal Life	
D12	21 Sep 2022	Floatables	Foam
D12	21 Sep 2022	Water Color	Green
D12	21 Sep 2022	Current Direction	S
D12	21 Sep 2022	Water Temp (C)	23.4
D12	21 Sep 2022	Wave Height Low (ft)	3
D12	21 Sep 2022	High Tide (ft)	4.16
D12	21 Sep 2022	High Tide Time	816
D12	21 Sep 2022	Low Tide (ft)	0.28
D12	21 Sep 2022	Low Tide Time	145
D12	21 Sep 2022	Comments	Water turbid; Boogie boarder/Swimmer-3; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-36
D12	28 Sep 2022	Arrive Time	1106
D12	28 Sep 2022	Weather	Foggy
D12	28 Sep 2022	Wind Speed (kts)	3.2
D12	28 Sep 2022	Wind Dir	SW
D12	28 Sep 2022	Animal Life	Seagull-2
D12	28 Sep 2022	Floatables	Foam
D12	28 Sep 2022	Water Color	Green
D12	28 Sep 2022	Current Direction	N
D12	28 Sep 2022	Water Temp (C)	21.9
D12	28 Sep 2022	Wave Height Low (ft)	2
D12	28 Sep 2022	High Tide (ft)	5.67
D12	28 Sep 2022	High Tide Time	1047
D12	28 Sep 2022	Low Tide (ft)	1.07
D12	28 Sep 2022	Low Tide Time	438
D12	28 Sep 2022	Comments	Water turbid; Boogie boarder/Swimmer-5; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-10

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 Sep 2022	2	3	3	5	4	8	3	2
02 Sep 2022	2	3	3	5	4	8	3	2
03 Sep 2022	2	3	3	5	4	8	3	2
04 Sep 2022	2	3	3	5	4	8	3	2
05 Sep 2022	2	3	3	5	4	8	3	2
06 Sep 2022	2	3	3	5	4	8	3	2
07 Sep 2022	2	3	2	7	3	8	3	3
08 Sep 2022	2	3	2	7	3	8	3	3
09 Sep 2022	2	3	2	7	3	8	3	3
10 Sep 2022	2	3	2	7	3	8	3	3
11 Sep 2022	2	3	2	7	3	8	3	3
12 Sep 2022	2	3	2	7	3	8	3	3
13 Sep 2022	3	4	3	14	4	10	4	4
14 Sep 2022	4	5	3	16	4	9	5	5
15 Sep 2022	4	5	3	16	4	9	5	5
16 Sep 2022	4	5	3	16	4	9	5	5
17 Sep 2022	4	5	3	16	4	9	5	5
18 Sep 2022	4	5	3	16	4	9	5	5
19 Sep 2022	4	5	3	16	4	9	5	5
20 Sep 2022	3	4	3	17	5	11	6	4
21 Sep 2022	3	4	3	17	5	11	6	4
22 Sep 2022	4	5	3	28	6	11	5	5
23 Sep 2022	4	5	3	28	6	11	5	5
24 Sep 2022	4	5	3	28	6	11	5	5
25 Sep 2022	4	5	3	28	6	11	5	5
26 Sep 2022	4	5	3	28	6	11	5	5
27 Sep 2022	4	5	3	28	6	11	5	5
28 Sep 2022	4	5	3	28	6	11	5	5
29 Sep 2022	6	7	4	28	7	11	6	6
30 Sep 2022	6	7	4	28	7	11	6	6

* 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 Sep 2022	2	2	2	3	2	2	2	2
02 Sep 2022	2	2	2	3	2	2	2	2
03 Sep 2022	2	2	2	3	2	2	2	2
04 Sep 2022	2	2	2	3	2	2	2	2
05 Sep 2022	2	2	2	3	2	2	2	2
06 Sep 2022	2	2	2	3	2	2	2	2
07 Sep 2022	2	2	2	2	2	2	2	2
08 Sep 2022	2	2	2	2	2	2	2	2
09 Sep 2022	2	2	2	2	2	2	2	2
10 Sep 2022	2	2	2	2	2	2	2	2
11 Sep 2022	2	2	2	2	2	2	2	2
12 Sep 2022	2	2	2	2	2	2	2	2
13 Sep 2022	2	2	2	2	2	2	2	2
14 Sep 2022	2	2	2	2	2	2	2	2
15 Sep 2022	2	2	2	2	2	2	2	2
16 Sep 2022	2	2	2	2	2	2	2	2
17 Sep 2022	2	2	2	2	2	2	2	2
18 Sep 2022	2	2	2	2	2	2	2	2
19 Sep 2022	2	2	2	2	2	2	2	2
20 Sep 2022	2	2	2	3	2	2	2	2
21 Sep 2022	2	2	2	3	2	2	2	2
22 Sep 2022	2	2	2	3	2	2	2	2
23 Sep 2022	2	2	2	3	2	2	2	2
24 Sep 2022	2	2	2	3	2	2	2	2
25 Sep 2022	2	2	2	3	2	2	2	2
26 Sep 2022	2	2	2	3	2	2	2	2
27 Sep 2022	2	2	2	3	2	2	2	2
28 Sep 2022	2	2	2	3	2	2	2	2
29 Sep 2022	2	3	2	3	2	2	2	2
30 Sep 2022	2	3	2	3	2	2	2	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 Sep 2022	2	2	2	2	2	2	2	2
02 Sep 2022	2	2	2	2	2	2	2	2
03 Sep 2022	2	2	2	2	2	2	2	2
04 Sep 2022	2	2	2	2	2	2	2	2
05 Sep 2022	2	2	2	2	2	2	2	2
06 Sep 2022	2	2	2	2	2	2	2	2
07 Sep 2022	2	2	2	2	2	2	2	2
08 Sep 2022	2	2	2	2	2	2	2	2
09 Sep 2022	2	2	2	2	2	2	2	2
10 Sep 2022	2	2	2	2	2	2	2	2
11 Sep 2022	2	2	2	2	2	2	2	2
12 Sep 2022	2	2	2	2	2	2	2	2
13 Sep 2022	2	2	2	2	2	2	2	2
14 Sep 2022	2	2	2	2	2	2	2	2
15 Sep 2022	2	2	2	2	2	2	2	2
16 Sep 2022	2	2	2	2	2	2	2	2
17 Sep 2022	2	2	2	2	2	2	2	2
18 Sep 2022	2	2	2	2	2	2	2	2
19 Sep 2022	2	2	2	2	2	2	2	2
20 Sep 2022	2	2	2	2	2	2	2	2
21 Sep 2022	2	2	2	2	2	2	2	2
22 Sep 2022	2	2	2	2	2	2	2	2
23 Sep 2022	2	2	2	2	2	2	2	2
24 Sep 2022	2	2	2	2	2	2	2	2
25 Sep 2022	2	2	2	2	2	2	2	2
26 Sep 2022	2	2	2	2	2	2	2	2
27 Sep 2022	2	2	2	2	2	2	2	2
28 Sep 2022	2	2	2	2	2	2	2	2
29 Sep 2022	2	2	2	2	2	2	2	2
30 Sep 2022	2	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Single Sample Maximum standard for 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
07 Sep 2022	IC							
13 Sep 2022	IC							
20 Sep 2022	IC							
29 Sep 2022	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
07 Sep 2022	IC							
13 Sep 2022	IC							
20 Sep 2022	IC							
29 Sep 2022	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
07 Sep 2022	IC							
13 Sep 2022	IC							
20 Sep 2022	IC							
29 Sep 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
07 Sep 2022	IC							
13 Sep 2022	IC							
20 Sep 2022	IC							
29 Sep 2022	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* (Enter) 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	Enter	F:T	Temp	XMS	DO	Sal	pH
A1	07 Sep 2022	755	1	<2	<2	<2	1.00	22.7	88.41	7.6	33.62	8.1
A1	07 Sep 2022	755	12	<2	2e	<2	1.00	17.7	88.99	8.0	33.49	8.1
A1	07 Sep 2022	755	18	<2	4e	<2	2.00	16.8	86.11	7.0	33.48	8.0
A1	13 Sep 2022	835	1	<20	4e	<2	0.20	20.2	81.73	7.9	33.40	8.1
A1	13 Sep 2022	835	12	<20	<2	<2	0.10	19.9	84.39	7.8	33.39	8.1
A1	13 Sep 2022	835	18	<20	<2	<2	0.10	19.4	85.52	7.2	33.40	8.1
A1	20 Sep 2022	759	1	2e	<2	<2	1.00	ns	ns	ns	ns	ns
A1	20 Sep 2022		1	ns	ns	ns	ns	20.8	85.69	7.6	33.48	8.1
A1	20 Sep 2022	759	12	2e	<2	<2	1.00	ns	ns	ns	ns	ns
A1	20 Sep 2022		12	ns	ns	ns	ns	18.4	89.46	7.6	33.42	8.1
A1	20 Sep 2022	759	18	<2	<2	<2	1.00	ns	ns	ns	ns	ns
A1	20 Sep 2022		18	ns	ns	ns	ns	16.1	87.22	6.8	33.41	8.0
A1	29 Sep 2022	825	1	<2	<2	<2	1.00	15.9	84.66	8.1	33.41	8.0
A1	29 Sep 2022	825	12	2e	4e	<2	2.00	13.2	89.01	6.3	33.43	7.9
A1	29 Sep 2022	825	18	40e	<2	<2	0.05	12.8	90.31	6.2	33.43	7.9
A6	07 Sep 2022	823	1	<20	<2	4e	0.10	23.1	81.24	7.6	33.61	8.2
A6	07 Sep 2022	823	12	<2	2e	<2	1.00	19.3	87.29	7.7	33.53	8.1
A6	07 Sep 2022	823	18	<2	<2	<2	1.00	17.7	88.51	7.9	33.50	8.1
A6	13 Sep 2022	909	1	<20	<2	<2	0.10	20.2	82.81	7.7	33.41	8.1
A6	13 Sep 2022	909	12	<20	4e	<2	0.20	19.6	85.55	7.8	33.40	8.1
A6	13 Sep 2022	909	18	<20	<2	<2	0.10	19.0	87.53	7.5	33.40	8.1
A6	20 Sep 2022	824	1	<2	2e	<2	1.00	ns	ns	ns	ns	ns
A6	20 Sep 2022		1	ns	ns	ns	ns	21.1	86.42	7.7	33.49	8.2
A6	20 Sep 2022	824	12	2e	<2	<2	1.00	ns	ns	ns	ns	ns
A6	20 Sep 2022		12	ns	ns	ns	ns	19.2	86.21	6.8	33.43	8.1
A6	20 Sep 2022	824	18	2e	<2	<2	1.00	ns	ns	ns	ns	ns
A6	20 Sep 2022		18	ns	ns	ns	ns	16.9	87.91	6.3	33.42	8.0
A6	29 Sep 2022	856	1	<2	<2	<2	1.00	18.6	74.47	8.9	33.42	8.2
A6	29 Sep 2022	856	12	<2	2e	<2	1.00	14.6	83.26	6.9	33.40	8.0
A6	29 Sep 2022	856	18	14e	8e	<2	0.57	13.3	88.65	6.3	33.42	7.9
A7	07 Sep 2022	809	1	<2	<2	<2	1.00	22.9	87.75	7.6	33.61	8.2
A7	07 Sep 2022	809	12	<2	<2	<2	1.00	19.5	86.69	8.0	33.51	8.1
A7	07 Sep 2022	809	18	<2	<2	<2	1.00	16.9	86.91	7.2	33.48	8.1
A7	13 Sep 2022	849	1	2e	<2	<2	1.00	20.4	83.28	8.2	33.38	8.1
A7	13 Sep 2022	849	12	<20	<2	<2	0.10	19.1	85.97	7.6	33.39	8.1
A7	13 Sep 2022	849	18	<20	<2	<2	0.10	19.1	86.04	7.5	33.40	8.1
A7	20 Sep 2022	811	1	<2	2e	<2	1.00	ns	ns	ns	ns	ns
A7	20 Sep 2022		1	ns	ns	ns	ns	21.1	87.18	7.7	33.49	8.2
A7	20 Sep 2022	811	12	<2	2e	<2	1.00	ns	ns	ns	ns	ns
A7	20 Sep 2022		12	ns	ns	ns	ns	19.1	89.68	7.7	33.42	8.1
A7	20 Sep 2022	811	18	2e	<2	<2	1.00	ns	ns	ns	ns	ns

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
A7	20 Sep 2022		18	ns	ns	ns	ns	17.1	87.58	6.4	NA	8.1
A7	29 Sep 2022	841	1	<2	<2	<2	1.00	17.3	78.08	8.8	33.42	8.1
A7	29 Sep 2022	841	12	4e	<2	<2	0.50	13.7	88.48	6.4	33.41	7.9
A7	29 Sep 2022	841	18	4e	2e	<2	0.50	13.3	89.41	6.1	33.43	7.9
C4	07 Sep 2022	925	1	<20	4e	<2	0.20	23.4	73.74	6.2	33.60	8.0
C4	07 Sep 2022	925	3	<200	4e	<2	0.02	22.9	74.66	7.4	33.60	8.1
C4	07 Sep 2022	925	9	<20	<2	<2	0.10	18.0	81.36	5.6	33.49	8.0
C4	13 Sep 2022	1021	1	<200	<2	<2	0.01	20.5	80.54	8.0	33.40	8.1
C4	13 Sep 2022	1021	3	<200	2e	<2	0.01	20.3	79.62	7.8	33.40	8.1
C4	13 Sep 2022	1021	9	<200	<2	<2	0.01	19.7	78.98	7.1	33.40	8.1
C4	20 Sep 2022	930	1	<20	4e	10e	0.20	ns	ns	ns	ns	ns
C4	20 Sep 2022		1	ns	ns	ns	ns	21.9	62.06	5.6	33.51	7.9
C4	20 Sep 2022	930	3	20e	6e	<2	0.30	ns	ns	ns	ns	ns
C4	20 Sep 2022		3	ns	ns	ns	ns	21.5	62.88	6.2	33.49	8.0
C4	20 Sep 2022	930	9	<20	<2	<2	0.10	ns	ns	ns	ns	ns
C4	20 Sep 2022		9	ns	ns	ns	ns	19.4	75.74	4.6	33.43	7.9
C4	29 Sep 2022	1006	1	<2	<2	<2	1.00	17.4	76.43	8.9	33.42	8.1
C4	29 Sep 2022	1006	3	2e	<2	<2	1.00	16.9	76.73	8.2	33.42	8.1
C4	29 Sep 2022	1006	9	<2	<2	<2	1.00	14.5	84.78	6.1	33.41	7.9
C5	07 Sep 2022	916	1	<2	<2	<2	1.00	23.1	87.50	7.5	33.62	8.2
C5	07 Sep 2022	916	3	<2	<2	<2	1.00	22.7	87.51	7.7	33.60	8.2
C5	07 Sep 2022	916	9	4e	<2	<2	0.50	20.2	81.23	6.5	33.54	8.1
C5	13 Sep 2022	1012	1	<20	<2	<2	0.10	20.0	81.41	7.6	33.39	8.1
C5	13 Sep 2022	1012	3	<20	<2	<2	0.10	19.9	81.74	7.6	33.40	8.1
C5	13 Sep 2022	1012	9	<20	<2	<2	0.10	19.9	82.00	7.4	33.39	8.1
C5	20 Sep 2022	918	1	<2	<2	<2	1.00	ns	ns	ns	ns	ns
C5	20 Sep 2022		1	ns	ns	ns	ns	21.4	79.70	7.0	33.49	8.1
C5	20 Sep 2022	918	3	<20	<2	<2	0.10	ns	ns	ns	ns	ns
C5	20 Sep 2022		3	ns	ns	ns	ns	21.3	79.34	7.0	33.49	8.1
C5	20 Sep 2022	918	9	<20	<2	<2	0.10	ns	ns	ns	ns	ns
C5	20 Sep 2022		9	ns	ns	ns	ns	19.2	83.78	5.8	33.43	8.0
C5	29 Sep 2022	953	1	<2	<2	<2	1.00	17.9	70.16	9.6	33.42	8.2
C5	29 Sep 2022	953	3	<2	<2	<2	1.00	16.9	71.75	8.4	33.41	8.1
C5	29 Sep 2022	953	9	6e	<2	<2	0.33	14.6	87.39	6.5	33.40	8.0
C6	07 Sep 2022	907	1	<20	<2	<2	0.10	23.2	88.48	7.4	33.62	8.2
C6	07 Sep 2022	907	3	<20	<2	<2	0.10	22.8	86.10	7.6	33.60	8.2
C6	07 Sep 2022	907	9	<20	2e	<2	0.10	18.6	83.50	6.6	33.53	8.1
C6	13 Sep 2022	1000	1	<20	<2	<2	0.10	20.4	84.63	7.9	33.41	8.1
C6	13 Sep 2022	1000	3	<20	<2	<2	0.10	20.3	84.56	7.9	33.41	8.1
C6	13 Sep 2022	1000	9	<20	<2	2e	0.10	19.2	84.37	6.8	33.41	8.0
C6	20 Sep 2022	908	1	20e	<2	<2	0.10	ns	ns	ns	ns	ns
C6	20 Sep 2022		1	ns	ns	ns	ns	21.5	71.37	7.1	33.50	8.1
C6	20 Sep 2022	908	3	20e	<2	<2	0.10	ns	ns	ns	ns	ns
C6	20 Sep 2022		3	ns	ns	ns	ns	21.3	74.47	7.3	33.49	8.1
C6	20 Sep 2022	908	9	20e	<2	<2	0.10	ns	ns	ns	ns	ns
C6	20 Sep 2022		9	ns	ns	ns	ns	19.3	60.07	5.1	33.44	7.9
C6	29 Sep 2022	943	1	<2	<2	<2	1.00	19.3	81.09	9.0	33.44	8.2
C6	29 Sep 2022	943	3	<2	<2	<2	1.00	18.3	79.56	8.8	33.41	8.2

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
C6	29 Sep 2022	943	9	<2	<2	<2	1.00	15.3	79.28	6.8	33.39	8.0
C7	07 Sep 2022	837	1	<2	<2	<2	1.00	23.3	81.97	8.1	33.60	8.2
C7	07 Sep 2022	837	12	<2	<2	<2	1.00	19.8	90.22	7.8	33.53	8.2
C7	07 Sep 2022	837	18	<2	<2	<2	1.00	15.2	86.07	6.4	33.47	8.0
C7	13 Sep 2022	927	1	<20	<2	<2	0.10	20.1	85.37	8.0	33.41	8.1
C7	13 Sep 2022	927	12	<20	<2	<2	0.10	19.5	86.35	8.1	33.40	8.1
C7	13 Sep 2022	927	18	<20	<2	<2	0.10	18.3	86.18	6.4	33.41	8.0
C7	20 Sep 2022	838	1	20e	<2	<2	0.10	ns	ns	ns	ns	ns
C7	20 Sep 2022		1	ns	ns	ns	ns	21.4	84.83	7.6	33.50	8.2
C7	20 Sep 2022	838	12	<2	<2	<2	1.00	ns	ns	ns	ns	ns
C7	20 Sep 2022		12	ns	ns	ns	ns	18.9	88.85	7.7	33.42	8.1
C7	20 Sep 2022	838	18	<2	<2	<2	1.00	ns	ns	ns	ns	ns
C7	20 Sep 2022		18	ns	ns	ns	ns	17.2	85.78	7.2	33.41	8.1
C7	29 Sep 2022	911	1	<2	<2	<2	1.00	20.4	85.26	8.2	33.52	8.2
C7	29 Sep 2022	911	12	<2	<2	<2	1.00	14.0	85.79	5.6	33.39	7.9
C7	29 Sep 2022	911	18	8e	<2	<2	0.25	13.2	89.79	5.9	33.42	7.9
C8	07 Sep 2022	848	1	4e	2e	<2	0.50	23.8	84.41	7.8	33.60	8.2
C8	07 Sep 2022	848	12	<20	<2	<2	0.10	17.6	89.68	7.9	33.49	8.2
C8	07 Sep 2022	848	18	<2	<2	<2	1.00	14.6	86.88	7.2	33.43	8.0
C8	13 Sep 2022	941	1	<20	<2	<2	0.10	20.1	84.22	8.2	33.41	8.1
C8	13 Sep 2022	941	12	<2	<2	<2	1.00	19.4	86.41	8.1	33.39	8.1
C8	13 Sep 2022	941	18	<20	<2	<2	0.10	18.9	87.39	7.7	33.40	8.1
C8	20 Sep 2022	850	1	2e	<2	<2	1.00	ns	ns	ns	ns	ns
C8	20 Sep 2022		1	ns	ns	ns	ns	21.6	82.98	7.8	33.51	8.2
C8	20 Sep 2022	850	12	<2	<2	<2	1.00	ns	ns	ns	ns	ns
C8	20 Sep 2022		12	ns	ns	ns	ns	18.6	87.56	7.7	33.42	8.1
C8	20 Sep 2022	850	18	2e	<2	<2	1.00	ns	ns	ns	ns	ns
C8	20 Sep 2022		18	ns	ns	ns	ns	16.9	84.59	7.1	33.41	8.1
C8	29 Sep 2022	921	1	<2	<2	<2	1.00	19.5	79.31	8.4	33.48	8.2
C8	29 Sep 2022	921	12	2e	<2	<2	1.00	13.6	84.92	6.3	33.40	7.9
C8	29 Sep 2022	921	18	8e	2e	<2	0.25	13.2	88.99	6.0	33.42	7.9

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	07 Sep 2022	Depth (m)	18
A1	07 Sep 2022	Arrive Time	755
A1	07 Sep 2022	Depart Time	800
A1	07 Sep 2022	Air Temp (C)	22.2
A1	07 Sep 2022	Weather	Fog
A1	07 Sep 2022	Visibility (mi)	1
A1	07 Sep 2022	Wind Speed (kts)	8
A1	07 Sep 2022	Wind Dir	NW
A1	07 Sep 2022	Water Color	Greenish-Blue
A1	07 Sep 2022	Wave Ht Low (ft)	4.9
A1	07 Sep 2022	Wave Period (sec)	17
A1	07 Sep 2022	Sea State	Calm
A1	07 Sep 2022	High Tide (ft)	6.46
A1	07 Sep 2022	High Tide Time	236
A1	07 Sep 2022	Low Tide (ft)	-0.71
A1	07 Sep 2022	Low Tide Time	900
A1	07 Sep 2022	Comments	none
A1	13 Sep 2022	Depth (m)	19
A1	13 Sep 2022	Arrive Time	835
A1	13 Sep 2022	Depart Time	841
A1	13 Sep 2022	Air Temp (C)	20.9
A1	13 Sep 2022	Weather	Partly Cloudy
A1	13 Sep 2022	Visibility (mi)	8
A1	13 Sep 2022	Wind Speed (kts)	0
A1	13 Sep 2022	Wind Dir	NE
A1	13 Sep 2022	Water Color	Greenish-Blue
A1	13 Sep 2022	Wave Ht Low (ft)	3.9
A1	13 Sep 2022	Wave Period (sec)	13
A1	13 Sep 2022	Sea State	Calm
A1	13 Sep 2022	High Tide (ft)	5.46
A1	13 Sep 2022	High Tide Time	1836
A1	13 Sep 2022	Low Tide (ft)	0.82
A1	13 Sep 2022	Low Tide Time	100
A1	13 Sep 2022	Comments	Kelp Debris;
A1	20 Sep 2022	Depth (m)	19
A1	20 Sep 2022	Arrive Time	759
A1	20 Sep 2022	Depart Time	807
A1	20 Sep 2022	Air Temp (C)	20.3
A1	20 Sep 2022	Weather	Clear
A1	20 Sep 2022	Visibility (mi)	11
A1	20 Sep 2022	Wind Speed (kts)	5.7
A1	20 Sep 2022	Wind Dir	NW
A1	20 Sep 2022	Water Color	Green
A1	20 Sep 2022	Wave Ht Low (ft)	4
A1	20 Sep 2022	Wave Period (sec)	15
A1	20 Sep 2022	Sea State	Light Chop
A1	20 Sep 2022	High Tide (ft)	4.94
A1	20 Sep 2022	High Tide Time	136
A1	20 Sep 2022	Low Tide (ft)	0.52
A1	20 Sep 2022	Low Tide Time	812
A1	20 Sep 2022	Comments	Kelp
A1	29 Sep 2022	Depth (m)	18
A1	29 Sep 2022	Arrive Time	825

Station	Date	Parameter	Value
A1	29 Sep 2022	Depart Time	832
A1	29 Sep 2022	Air Temp (C)	17.6
A1	29 Sep 2022	Weather	Fog
A1	29 Sep 2022	Visibility (mi)	0
A1	29 Sep 2022	Wind Speed (kts)	1.3
A1	29 Sep 2022	Wind Dir	SE
A1	29 Sep 2022	Water Color	Greenish-Blue
A1	29 Sep 2022	Wave Ht Low (ft)	3
A1	29 Sep 2022	Wave Period (sec)	14
A1	29 Sep 2022	Sea State	Calm
A1	29 Sep 2022	High Tide (ft)	5.69
A1	29 Sep 2022	High Tide Time	1824
A1	29 Sep 2022	Low Tide (ft)	0.48
A1	29 Sep 2022	Low Tide Time	130
A1	29 Sep 2022	Comments	Kelp
A6	07 Sep 2022	Depth (m)	20
A6	07 Sep 2022	Arrive Time	823
A6	07 Sep 2022	Depart Time	825
A6	07 Sep 2022	Air Temp (C)	22.1
A6	07 Sep 2022	Weather	Fog
A6	07 Sep 2022	Visibility (mi)	1
A6	07 Sep 2022	Wind Speed (kts)	3.8
A6	07 Sep 2022	Wind Dir	N
A6	07 Sep 2022	Water Color	Greenish-Blue
A6	07 Sep 2022	Wave Ht Low (ft)	4.9
A6	07 Sep 2022	Wave Period (sec)	17
A6	07 Sep 2022	Sea State	Calm
A6	07 Sep 2022	High Tide (ft)	6.46
A6	07 Sep 2022	High Tide Time	236
A6	07 Sep 2022	Low Tide (ft)	-0.71
A6	07 Sep 2022	Low Tide Time	900
A6	07 Sep 2022	Comments	Kelp Debris
A6	13 Sep 2022	Depth (m)	19
A6	13 Sep 2022	Arrive Time	909
A6	13 Sep 2022	Depart Time	922
A6	13 Sep 2022	Air Temp (C)	21
A6	13 Sep 2022	Weather	Partly Cloudy
A6	13 Sep 2022	Visibility (mi)	8
A6	13 Sep 2022	Wind Speed (kts)	0
A6	13 Sep 2022	Wind Dir	E
A6	13 Sep 2022	Water Color	Greenish-Blue
A6	13 Sep 2022	Wave Ht Low (ft)	3.9
A6	13 Sep 2022	Wave Period (sec)	13
A6	13 Sep 2022	Sea State	Calm
A6	13 Sep 2022	High Tide (ft)	5.46
A6	13 Sep 2022	High Tide Time	1836
A6	13 Sep 2022	Low Tide (ft)	0.82
A6	13 Sep 2022	Low Tide Time	100
A6	13 Sep 2022	Comments	Did not get depth used 2nd cast
A6	20 Sep 2022	Depth (m)	19
A6	20 Sep 2022	Arrive Time	824
A6	20 Sep 2022	Depart Time	830
A6	20 Sep 2022	Air Temp (C)	20.2
A6	20 Sep 2022	Weather	Clear
A6	20 Sep 2022	Visibility (mi)	11
A6	20 Sep 2022	Wind Speed (kts)	5.6
A6	20 Sep 2022	Wind Dir	NW
A6	20 Sep 2022	Water Color	Green

Station	Date	Parameter	Value
A6	20 Sep 2022	Wave Ht Low (ft)	4
A6	20 Sep 2022	Wave Period (sec)	15
A6	20 Sep 2022	Sea State	Light Chop
A6	20 Sep 2022	High Tide (ft)	4.94
A6	20 Sep 2022	High Tide Time	136
A6	20 Sep 2022	Low Tide (ft)	0.52
A6	20 Sep 2022	Low Tide Time	812
A6	20 Sep 2022	Comments	used btl 4 for mid depth; Kelp; Kelp Debris; Seagrass
A6	29 Sep 2022	Depth (m)	18
A6	29 Sep 2022	Arrive Time	856
A6	29 Sep 2022	Depart Time	900
A6	29 Sep 2022	Air Temp (C)	18.1
A6	29 Sep 2022	Weather	Fog
A6	29 Sep 2022	Visibility (mi)	0
A6	29 Sep 2022	Wind Speed (kts)	2.2
A6	29 Sep 2022	Wind Dir	SE
A6	29 Sep 2022	Water Color	Green
A6	29 Sep 2022	Wave Ht Low (ft)	3
A6	29 Sep 2022	Wave Period (sec)	12
A6	29 Sep 2022	Sea State	Calm
A6	29 Sep 2022	High Tide (ft)	5.69
A6	29 Sep 2022	High Tide Time	1824
A6	29 Sep 2022	Low Tide (ft)	0.48
A6	29 Sep 2022	Low Tide Time	130
A6	29 Sep 2022	Comments	Kelp; Kelp Debris
A7	07 Sep 2022	Depth (m)	1
A7	07 Sep 2022	Arrive Time	809
A7	07 Sep 2022	Depart Time	814
A7	07 Sep 2022	Air Temp (C)	22.2
A7	07 Sep 2022	Weather	Fog
A7	07 Sep 2022	Visibility (mi)	1
A7	07 Sep 2022	Wind Speed (kts)	4.5
A7	07 Sep 2022	Wind Dir	N
A7	07 Sep 2022	Water Color	Greenish-Blue
A7	07 Sep 2022	Wave Ht Low (ft)	4.9
A7	07 Sep 2022	Wave Period (sec)	17
A7	07 Sep 2022	Sea State	Calm
A7	07 Sep 2022	High Tide (ft)	6.46
A7	07 Sep 2022	High Tide Time	236
A7	07 Sep 2022	Low Tide (ft)	-0.71
A7	07 Sep 2022	Low Tide Time	900
A7	07 Sep 2022	Comments	none
A7	13 Sep 2022	Depth (m)	19
A7	13 Sep 2022	Arrive Time	849
A7	13 Sep 2022	Depart Time	900
A7	13 Sep 2022	Air Temp (C)	21.1
A7	13 Sep 2022	Weather	Partly Cloudy
A7	13 Sep 2022	Visibility (mi)	8
A7	13 Sep 2022	Wind Speed (kts)	0
A7	13 Sep 2022	Wind Dir	NE
A7	13 Sep 2022	Water Color	Greenish-Blue
A7	13 Sep 2022	Wave Ht Low (ft)	3.9
A7	13 Sep 2022	Wave Period (sec)	13
A7	13 Sep 2022	Sea State	Calm
A7	13 Sep 2022	High Tide (ft)	5.46
A7	13 Sep 2022	High Tide Time	1836
A7	13 Sep 2022	Low Tide (ft)	0.82
A7	13 Sep 2022	Low Tide Time	100

Station	Date	Parameter	Value
A7	13 Sep 2022	Comments	Redo used 2nd cast; Kelp Debris
A7	20 Sep 2022	Depth (m)	20
A7	20 Sep 2022	Arrive Time	811
A7	20 Sep 2022	Depart Time	817
A7	20 Sep 2022	Air Temp (C)	20.3
A7	20 Sep 2022	Weather	Clear
A7	20 Sep 2022	Visibility (mi)	11
A7	20 Sep 2022	Wind Speed (kts)	1.1
A7	20 Sep 2022	Wind Dir	NW
A7	20 Sep 2022	Water Color	Green
A7	20 Sep 2022	Wave Ht Low (ft)	4
A7	20 Sep 2022	Wave Period (sec)	15
A7	20 Sep 2022	Sea State	Light Chop
A7	20 Sep 2022	High Tide (ft)	4.94
A7	20 Sep 2022	High Tide Time	136
A7	20 Sep 2022	Low Tide (ft)	0.52
A7	20 Sep 2022	Low Tide Time	812
A7	20 Sep 2022	Comments	Kelp
A7	29 Sep 2022	Depth (m)	20
A7	29 Sep 2022	Arrive Time	841
A7	29 Sep 2022	Depart Time	846
A7	29 Sep 2022	Air Temp (C)	17.9
A7	29 Sep 2022	Weather	Fog
A7	29 Sep 2022	Visibility (mi)	0
A7	29 Sep 2022	Wind Speed (kts)	2.5
A7	29 Sep 2022	Wind Dir	SE
A7	29 Sep 2022	Water Color	Brownish-Green
A7	29 Sep 2022	Wave Ht Low (ft)	3
A7	29 Sep 2022	Wave Period (sec)	14
A7	29 Sep 2022	Sea State	Calm
A7	29 Sep 2022	High Tide (ft)	5.69
A7	29 Sep 2022	High Tide Time	1824
A7	29 Sep 2022	Low Tide (ft)	0.48
A7	29 Sep 2022	Low Tide Time	130
A7	29 Sep 2022	Comments	Kelp; Kelp Debris; Possible Red Tide
C4	07 Sep 2022	Depth (m)	11
C4	07 Sep 2022	Arrive Time	925
C4	07 Sep 2022	Depart Time	928
C4	07 Sep 2022	Air Temp (C)	22.4
C4	07 Sep 2022	Weather	Fog
C4	07 Sep 2022	Visibility (mi)	1
C4	07 Sep 2022	Wind Speed (kts)	2.9
C4	07 Sep 2022	Wind Dir	N
C4	07 Sep 2022	Water Color	Green
C4	07 Sep 2022	Wave Ht Low (ft)	4.9
C4	07 Sep 2022	Wave Period (sec)	17
C4	07 Sep 2022	Sea State	Calm
C4	07 Sep 2022	High Tide (ft)	6.46
C4	07 Sep 2022	High Tide Time	236
C4	07 Sep 2022	Low Tide (ft)	-0.71
C4	07 Sep 2022	Low Tide Time	900
C4	07 Sep 2022	Comments	Kelp; Kelp Debris
C4	13 Sep 2022	Depth (m)	12
C4	13 Sep 2022	Arrive Time	1021
C4	13 Sep 2022	Depart Time	1027
C4	13 Sep 2022	Air Temp (C)	21.3
C4	13 Sep 2022	Weather	Partly Cloudy

Station	Date	Parameter	Value
C4	13 Sep 2022	Visibility (mi)	8
C4	13 Sep 2022	Wind Speed (kts)	1.9
C4	13 Sep 2022	Wind Dir	E
C4	13 Sep 2022	Water Color	Greenish-Blue
C4	13 Sep 2022	Wave Ht Low (ft)	3.9
C4	13 Sep 2022	Wave Period (sec)	13
C4	13 Sep 2022	Sea State	Regular Swell
C4	13 Sep 2022	High Tide (ft)	5.46
C4	13 Sep 2022	High Tide Time	1836
C4	13 Sep 2022	Low Tide (ft)	0.82
C4	13 Sep 2022	Low Tide Time	100
C4	13 Sep 2022	Comments	none
C4	20 Sep 2022	Depth (m)	12
C4	20 Sep 2022	Arrive Time	930
C4	20 Sep 2022	Depart Time	933
C4	20 Sep 2022	Air Temp (C)	21
C4	20 Sep 2022	Weather	Clear
C4	20 Sep 2022	Visibility (mi)	11
C4	20 Sep 2022	Wind Speed (kts)	4.3
C4	20 Sep 2022	Wind Dir	W
C4	20 Sep 2022	Water Color	Green
C4	20 Sep 2022	Wave Ht Low (ft)	4
C4	20 Sep 2022	Wave Period (sec)	15
C4	20 Sep 2022	Sea State	Light Chop
C4	20 Sep 2022	High Tide (ft)	4.94
C4	20 Sep 2022	High Tide Time	136
C4	20 Sep 2022	Low Tide (ft)	0.52
C4	20 Sep 2022	Low Tide Time	812
C4	20 Sep 2022	Comments	Kelp; Kelp Debris; Seagrass
C4	29 Sep 2022	Depth (m)	10
C4	29 Sep 2022	Arrive Time	1006
C4	29 Sep 2022	Depart Time	1010
C4	29 Sep 2022	Air Temp (C)	17.6
C4	29 Sep 2022	Weather	Fog
C4	29 Sep 2022	Visibility (mi)	0
C4	29 Sep 2022	Wind Speed (kts)	0
C4	29 Sep 2022	Wind Dir	N
C4	29 Sep 2022	Water Color	Brownish-Green
C4	29 Sep 2022	Wave Ht Low (ft)	3
C4	29 Sep 2022	Wave Period (sec)	12
C4	29 Sep 2022	Sea State	Calm
C4	29 Sep 2022	High Tide (ft)	5.69
C4	29 Sep 2022	High Tide Time	1824
C4	29 Sep 2022	Low Tide (ft)	0.48
C4	29 Sep 2022	Low Tide Time	130
C4	29 Sep 2022	Comments	Kelp
C5	07 Sep 2022	Depth (m)	10
C5	07 Sep 2022	Arrive Time	916
C5	07 Sep 2022	Depart Time	920
C5	07 Sep 2022	Air Temp (C)	22.3
C5	07 Sep 2022	Weather	Fog
C5	07 Sep 2022	Visibility (mi)	1
C5	07 Sep 2022	Wind Speed (kts)	6.6
C5	07 Sep 2022	Wind Dir	NW
C5	07 Sep 2022	Water Color	Greenish-Blue
C5	07 Sep 2022	Wave Ht Low (ft)	4.9
C5	07 Sep 2022	Wave Period (sec)	17
C5	07 Sep 2022	Sea State	Calm

Station	Date	Parameter	Value
C5	07 Sep 2022	High Tide (ft)	6.46
C5	07 Sep 2022	High Tide Time	236
C5	07 Sep 2022	Low Tide (ft)	-0.71
C5	07 Sep 2022	Low Tide Time	900
C5	07 Sep 2022	Comments	Kelp Debris
C5	13 Sep 2022	Depth (m)	13
C5	13 Sep 2022	Arrive Time	1012
C5	13 Sep 2022	Depart Time	1017
C5	13 Sep 2022	Air Temp (C)	21.2
C5	13 Sep 2022	Weather	Partly Cloudy
C5	13 Sep 2022	Visibility (mi)	8
C5	13 Sep 2022	Wind Speed (kts)	0.4
C5	13 Sep 2022	Wind Dir	SE
C5	13 Sep 2022	Water Color	Greenish-Blue
C5	13 Sep 2022	Wave Ht Low (ft)	3.9
C5	13 Sep 2022	Wave Period (sec)	13
C5	13 Sep 2022	Sea State	Regular Swell
C5	13 Sep 2022	High Tide (ft)	5.46
C5	13 Sep 2022	High Tide Time	1836
C5	13 Sep 2022	Low Tide (ft)	0.82
C5	13 Sep 2022	Low Tide Time	100
C5	13 Sep 2022	Comments	Kelp Debris
C5	20 Sep 2022	Depth (m)	12
C5	20 Sep 2022	Arrive Time	918
C5	20 Sep 2022	Depart Time	922
C5	20 Sep 2022	Air Temp (C)	21.2
C5	20 Sep 2022	Weather	Clear
C5	20 Sep 2022	Visibility (mi)	11
C5	20 Sep 2022	Wind Speed (kts)	1.2
C5	20 Sep 2022	Wind Dir	NW
C5	20 Sep 2022	Water Color	Blueish-Green
C5	20 Sep 2022	Wave Ht Low (ft)	4
C5	20 Sep 2022	Wave Period (sec)	15
C5	20 Sep 2022	Sea State	Light Chop
C5	20 Sep 2022	High Tide (ft)	4.94
C5	20 Sep 2022	High Tide Time	136
C5	20 Sep 2022	Low Tide (ft)	0.52
C5	20 Sep 2022	Low Tide Time	812
C5	20 Sep 2022	Comments	Kelp; Kelp Debris; Seagrass
C5	29 Sep 2022	Depth (m)	10
C5	29 Sep 2022	Arrive Time	953
C5	29 Sep 2022	Depart Time	959
C5	29 Sep 2022	Air Temp (C)	17.9
C5	29 Sep 2022	Weather	Fog
C5	29 Sep 2022	Visibility (mi)	0
C5	29 Sep 2022	Wind Speed (kts)	0.8
C5	29 Sep 2022	Wind Dir	NW
C5	29 Sep 2022	Water Color	Brownish-Green
C5	29 Sep 2022	Wave Ht Low (ft)	3
C5	29 Sep 2022	Wave Period (sec)	12
C5	29 Sep 2022	Sea State	Calm
C5	29 Sep 2022	High Tide (ft)	5.69
C5	29 Sep 2022	High Tide Time	1824
C5	29 Sep 2022	Low Tide (ft)	0.48
C5	29 Sep 2022	Low Tide Time	130
C5	29 Sep 2022	Comments	Kelp; Possible Red Tide
C6	07 Sep 2022	Depth (m)	9

Station	Date	Parameter	Value
C6	07 Sep 2022	Arrive Time	907
C6	07 Sep 2022	Depart Time	909
C6	07 Sep 2022	Air Temp (C)	22.2
C6	07 Sep 2022	Weather	Fog
C6	07 Sep 2022	Visibility (mi)	1
C6	07 Sep 2022	Wind Speed (kts)	4.5
C6	07 Sep 2022	Wind Dir	NW
C6	07 Sep 2022	Water Color	Greenish-Blue
C6	07 Sep 2022	Wave Ht Low (ft)	4.9
C6	07 Sep 2022	Wave Period (sec)	17
C6	07 Sep 2022	Sea State	Calm
C6	07 Sep 2022	High Tide (ft)	6.46
C6	07 Sep 2022	High Tide Time	236
C6	07 Sep 2022	Low Tide (ft)	-0.71
C6	07 Sep 2022	Low Tide Time	900
C6	07 Sep 2022	Comments	Kelp Debris
C6	13 Sep 2022	Depth (m)	10
C6	13 Sep 2022	Arrive Time	1000
C6	13 Sep 2022	Depart Time	1004
C6	13 Sep 2022	Air Temp (C)	21.4
C6	13 Sep 2022	Weather	Partly Cloudy
C6	13 Sep 2022	Visibility (mi)	8
C6	13 Sep 2022	Wind Speed (kts)	2.5
C6	13 Sep 2022	Wind Dir	S
C6	13 Sep 2022	Water Color	Greenish-Blue
C6	13 Sep 2022	Wave Ht Low (ft)	3.9
C6	13 Sep 2022	Wave Period (sec)	13
C6	13 Sep 2022	Sea State	Regular Swell
C6	13 Sep 2022	High Tide (ft)	5.46
C6	13 Sep 2022	High Tide Time	1836
C6	13 Sep 2022	Low Tide (ft)	0.82
C6	13 Sep 2022	Low Tide Time	100
C6	13 Sep 2022	Comments	Kelp Debris
C6	20 Sep 2022	Depth (m)	9
C6	20 Sep 2022	Arrive Time	908
C6	20 Sep 2022	Depart Time	912
C6	20 Sep 2022	Air Temp (C)	20.8
C6	20 Sep 2022	Weather	Clear
C6	20 Sep 2022	Visibility (mi)	11
C6	20 Sep 2022	Wind Speed (kts)	1.9
C6	20 Sep 2022	Wind Dir	NW
C6	20 Sep 2022	Water Color	Blueish-Green
C6	20 Sep 2022	Wave Ht Low (ft)	4
C6	20 Sep 2022	Wave Period (sec)	15
C6	20 Sep 2022	Sea State	Light Chop
C6	20 Sep 2022	High Tide (ft)	4.94
C6	20 Sep 2022	High Tide Time	136
C6	20 Sep 2022	Low Tide (ft)	0.52
C6	20 Sep 2022	Low Tide Time	812
C6	20 Sep 2022	Comments	Kelp; Kelp Debris
C6	29 Sep 2022	Depth (m)	10
C6	29 Sep 2022	Arrive Time	943
C6	29 Sep 2022	Depart Time	947
C6	29 Sep 2022	Air Temp (C)	18.2
C6	29 Sep 2022	Weather	Fog
C6	29 Sep 2022	Visibility (mi)	0
C6	29 Sep 2022	Wind Speed (kts)	5.9
C6	29 Sep 2022	Wind Dir	S

Station	Date	Parameter	Value
C6	29 Sep 2022	Water Color	Green
C6	29 Sep 2022	Wave Ht Low (ft)	3
C6	29 Sep 2022	Wave Period (sec)	12
C6	29 Sep 2022	Sea State	Calm
C6	29 Sep 2022	High Tide (ft)	5.69
C6	29 Sep 2022	High Tide Time	1824
C6	29 Sep 2022	Low Tide (ft)	0.48
C6	29 Sep 2022	Low Tide Time	130
C6	29 Sep 2022	Comments	none
C7	07 Sep 2022	Depth (m)	
C7	07 Sep 2022	Arrive Time	837
C7	07 Sep 2022	Depart Time	840
C7	07 Sep 2022	Air Temp (C)	22.1
C7	07 Sep 2022	Weather	Fog
C7	07 Sep 2022	Visibility (mi)	1
C7	07 Sep 2022	Wind Speed (kts)	3.1
C7	07 Sep 2022	Wind Dir	N
C7	07 Sep 2022	Water Color	Greenish-Blue
C7	07 Sep 2022	Wave Ht Low (ft)	4.9
C7	07 Sep 2022	Wave Period (sec)	17
C7	07 Sep 2022	Sea State	Calm
C7	07 Sep 2022	High Tide (ft)	6.46
C7	07 Sep 2022	High Tide Time	236
C7	07 Sep 2022	Low Tide (ft)	-0.71
C7	07 Sep 2022	Low Tide Time	900
C7	07 Sep 2022	Comments	Kelp; Kelp Debris
C7	13 Sep 2022	Depth (m)	18
C7	13 Sep 2022	Arrive Time	927
C7	13 Sep 2022	Depart Time	936
C7	13 Sep 2022	Air Temp (C)	21.4
C7	13 Sep 2022	Weather	Partly Cloudy
C7	13 Sep 2022	Visibility (mi)	8
C7	13 Sep 2022	Wind Speed (kts)	5.9
C7	13 Sep 2022	Wind Dir	NW
C7	13 Sep 2022	Water Color	Greenish-Blue
C7	13 Sep 2022	Wave Ht Low (ft)	3.9
C7	13 Sep 2022	Wave Period (sec)	13
C7	13 Sep 2022	Sea State	Calm
C7	13 Sep 2022	High Tide (ft)	5.46
C7	13 Sep 2022	High Tide Time	1836
C7	13 Sep 2022	Low Tide (ft)	0.82
C7	13 Sep 2022	Low Tide Time	100
C7	13 Sep 2022	Comments	Kelp Debris
C7	20 Sep 2022	Depth (m)	18
C7	20 Sep 2022	Arrive Time	838
C7	20 Sep 2022	Depart Time	850
C7	20 Sep 2022	Air Temp (C)	20.3
C7	20 Sep 2022	Weather	Clear
C7	20 Sep 2022	Visibility (mi)	11
C7	20 Sep 2022	Wind Speed (kts)	0
C7	20 Sep 2022	Wind Dir	N
C7	20 Sep 2022	Water Color	Blueish-Green
C7	20 Sep 2022	Wave Ht Low (ft)	4
C7	20 Sep 2022	Wave Period (sec)	15
C7	20 Sep 2022	Sea State	Light Chop
C7	20 Sep 2022	High Tide (ft)	4.94
C7	20 Sep 2022	High Tide Time	136
C7	20 Sep 2022	Low Tide (ft)	0.52

Station	Date	Parameter	Value
C7	20 Sep 2022	Low Tide Time	812
C7	20 Sep 2022	Comments	none
C7	29 Sep 2022	Depth (m)	19
C7	29 Sep 2022	Arrive Time	911
C7	29 Sep 2022	Depart Time	916
C7	29 Sep 2022	Air Temp (C)	18.3
C7	29 Sep 2022	Weather	Fog
C7	29 Sep 2022	Visibility (mi)	0
C7	29 Sep 2022	Wind Speed (kts)	4.4
C7	29 Sep 2022	Wind Dir	S
C7	29 Sep 2022	Water Color	Green
C7	29 Sep 2022	Wave Ht Low (ft)	3
C7	29 Sep 2022	Wave Period (sec)	12
C7	29 Sep 2022	Sea State	Calm
C7	29 Sep 2022	High Tide (ft)	5.69
C7	29 Sep 2022	High Tide Time	1824
C7	29 Sep 2022	Low Tide (ft)	0.48
C7	29 Sep 2022	Low Tide Time	130
C7	29 Sep 2022	Comments	none
C8	07 Sep 2022	Depth (m)	20
C8	07 Sep 2022	Arrive Time	848
C8	07 Sep 2022	Depart Time	851
C8	07 Sep 2022	Air Temp (C)	22.3
C8	07 Sep 2022	Weather	Fog
C8	07 Sep 2022	Visibility (mi)	1
C8	07 Sep 2022	Wind Speed (kts)	2.1
C8	07 Sep 2022	Wind Dir	N
C8	07 Sep 2022	Water Color	Greenish-Blue
C8	07 Sep 2022	Wave Ht Low (ft)	4.9
C8	07 Sep 2022	Wave Period (sec)	17
C8	07 Sep 2022	Sea State	Calm
C8	07 Sep 2022	High Tide (ft)	6.46
C8	07 Sep 2022	High Tide Time	236
C8	07 Sep 2022	Low Tide (ft)	-0.71
C8	07 Sep 2022	Low Tide Time	900
C8	07 Sep 2022	Comments	none
C8	13 Sep 2022	Depth (m)	20
C8	13 Sep 2022	Arrive Time	941
C8	13 Sep 2022	Depart Time	946
C8	13 Sep 2022	Air Temp (C)	21.1
C8	13 Sep 2022	Weather	Partly Cloudy
C8	13 Sep 2022	Visibility (mi)	8
C8	13 Sep 2022	Wind Speed (kts)	1.1
C8	13 Sep 2022	Wind Dir	SE
C8	13 Sep 2022	Water Color	Greenish-Blue
C8	13 Sep 2022	Wave Ht Low (ft)	3.9
C8	13 Sep 2022	Wave Period (sec)	13
C8	13 Sep 2022	Sea State	Regular Swell
C8	13 Sep 2022	High Tide (ft)	5.46
C8	13 Sep 2022	High Tide Time	1836
C8	13 Sep 2022	Low Tide (ft)	0.82
C8	13 Sep 2022	Low Tide Time	100
C8	13 Sep 2022	Comments	none
C8	20 Sep 2022	Depth (m)	19
C8	20 Sep 2022	Arrive Time	850
C8	20 Sep 2022	Depart Time	859
C8	20 Sep 2022	Air Temp (C)	20.7

Station	Date	Parameter	Value
C8	20 Sep 2022	Weather	Clear
C8	20 Sep 2022	Visibility (mi)	11
C8	20 Sep 2022	Wind Speed (kts)	2.7
C8	20 Sep 2022	Wind Dir	W
C8	20 Sep 2022	Water Color	Blueish-Green
C8	20 Sep 2022	Wave Ht Low (ft)	4
C8	20 Sep 2022	Wave Period (sec)	15
C8	20 Sep 2022	Sea State	Light Chop
C8	20 Sep 2022	High Tide (ft)	4.94
C8	20 Sep 2022	High Tide Time	136
C8	20 Sep 2022	Low Tide (ft)	0.52
C8	20 Sep 2022	Low Tide Time	812
C8	20 Sep 2022	Comments	none
C8	29 Sep 2022	Depth (m)	19
C8	29 Sep 2022	Arrive Time	921
C8	29 Sep 2022	Depart Time	927
C8	29 Sep 2022	Air Temp (C)	18.3
C8	29 Sep 2022	Weather	Fog
C8	29 Sep 2022	Visibility (mi)	0
C8	29 Sep 2022	Wind Speed (kts)	0.2
C8	29 Sep 2022	Wind Dir	SW
C8	29 Sep 2022	Water Color	Green
C8	29 Sep 2022	Wave Ht Low (ft)	3
C8	29 Sep 2022	Wave Period (sec)	12
C8	29 Sep 2022	Sea State	Calm
C8	29 Sep 2022	High Tide (ft)	5.69
C8	29 Sep 2022	High Tide Time	1824
C8	29 Sep 2022	Low Tide (ft)	0.48
C8	29 Sep 2022	Low Tide Time	130
C8	29 Sep 2022	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 ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A1	07 Sep 2022	1	22.74	88.41	7.6	33.62	8.1	23.0	1.08
A1	07 Sep 2022	2	22.72	88.20	7.6	33.62	8.1	23.0	1.17
A1	07 Sep 2022	3	22.44	88.11	7.8	33.60	8.1	23.0	1.57
A1	07 Sep 2022	4	21.72	86.17	8.0	33.58	8.1	23.2	2.60
A1	07 Sep 2022	5	21.56	82.05	7.9	33.56	8.1	23.2	3.65
A1	07 Sep 2022	6	20.84	80.37	8.0	33.55	8.1	23.4	3.95
A1	07 Sep 2022	7	20.24	81.69	8.0	33.53	8.1	23.6	3.04
A1	07 Sep 2022	8	19.38	83.97	7.9	33.52	8.1	23.8	2.32
A1	07 Sep 2022	9	18.52	85.80	7.9	33.50	8.1	24.0	1.97
A1	07 Sep 2022	10	18.16	86.80	7.9	33.50	8.1	24.1	1.57
A1	07 Sep 2022	11	17.98	87.54	8.0	33.50	8.1	24.1	1.36
A1	07 Sep 2022	12	17.72	88.99	8.0	33.49	8.1	24.2	0.97
A1	07 Sep 2022	13	17.67	89.42	8.0	33.50	8.1	24.2	0.88
A1	07 Sep 2022	14	17.58	89.61	8.0	33.49	8.1	24.2	0.88
A1	07 Sep 2022	15	17.60	88.97	8.0	33.50	8.1	24.2	0.93
A1	07 Sep 2022	16	17.46	88.39	7.8	33.50	8.1	24.3	1.10
A1	07 Sep 2022	17	17.38	87.40	7.6	33.50	8.1	24.3	1.41
A1	07 Sep 2022	18	16.78	86.11	7.0	33.48	8.0	24.4	1.50
A1	07 Sep 2022	19	15.68	84.70	6.4	33.47	8.0	24.6	1.27
A1	13 Sep 2022	1	20.16	81.73	7.9	33.40	8.1	23.5	1.62
A1	13 Sep 2022	2	20.12	82.42	7.9	33.39	8.1	23.5	1.74
A1	13 Sep 2022	3	20.11	82.65	7.9	33.39	8.1	23.5	1.85
A1	13 Sep 2022	4	20.10	82.96	8.0	33.39	8.1	23.5	1.93
A1	13 Sep 2022	5	20.09	83.09	7.9	33.39	8.1	23.5	1.99
A1	13 Sep 2022	6	20.08	83.26	8.0	33.39	8.1	23.5	2.10
A1	13 Sep 2022	7	20.05	83.46	7.9	33.39	8.1	23.5	2.02
A1	13 Sep 2022	8	20.04	83.71	7.8	33.39	8.1	23.5	1.98
A1	13 Sep 2022	9	20.00	83.96	7.9	33.39	8.1	23.5	1.94
A1	13 Sep 2022	10	19.98	84.18	7.9	33.39	8.1	23.5	1.83
A1	13 Sep 2022	11	19.93	84.12	7.8	33.39	8.1	23.6	1.81
A1	13 Sep 2022	12	19.87	84.39	7.8	33.39	8.1	23.6	1.67
A1	13 Sep 2022	13	19.79	84.73	7.7	33.39	8.1	23.6	1.58
A1	13 Sep 2022	14	19.72	85.04	7.6	33.40	8.1	23.6	1.39
A1	13 Sep 2022	15	19.68	85.34	7.5	33.40	8.1	23.6	1.30
A1	13 Sep 2022	16	19.62	85.44	7.4	33.40	8.1	23.6	1.16
A1	13 Sep 2022	17	19.57	85.49	7.3	33.40	8.1	23.7	1.06
A1	13 Sep 2022	18	19.39	85.52	7.2	33.40	8.1	23.7	0.93
A1	13 Sep 2022	19	19.31	85.10	7.2	33.39	8.0	23.7	0.78
A1	20 Sep 2022	1	20.83	85.69	7.6	33.48	8.1	23.4	1.10
A1	20 Sep 2022	2	20.67	85.87	7.6	33.48	8.1	23.4	1.14
A1	20 Sep 2022	3	20.56	86.53	7.6	33.47	8.1	23.4	1.06
A1	20 Sep 2022	4	20.36	87.63	7.7	33.46	8.1	23.5	0.94
A1	20 Sep 2022	5	20.41	88.49	7.7	33.46	8.1	23.5	0.82
A1	20 Sep 2022	6	20.22	88.50	7.6	33.45	8.1	23.5	0.76
A1	20 Sep 2022	7	19.93	89.32	7.7	33.45	8.1	23.6	0.61
A1	20 Sep 2022	8	19.92	90.01	7.7	33.44	8.1	23.6	0.57
A1	20 Sep 2022	9	19.76	90.26	7.7	33.44	8.1	23.6	0.57
A1	20 Sep 2022	10	19.62	90.34	7.6	33.43	8.1	23.7	0.56
A1	20 Sep 2022	11	18.80	90.16	7.5	33.43	8.1	23.9	0.73
A1	20 Sep 2022	12	18.35	89.46	7.6	33.42	8.1	24.0	1.11
A1	20 Sep 2022	13	17.96	88.51	7.6	33.42	8.1	24.1	1.30
A1	20 Sep 2022	14	17.72	88.24	7.5	33.41	8.1	24.1	1.43
A1	20 Sep 2022	15	17.67	88.15	7.4	33.40	8.1	24.1	1.50

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A1	20 Sep 2022	16	17.04	87.85	7.2	33.41	8.1	24.3	1.54
A1	20 Sep 2022	17	16.75	87.64	7.0	33.40	8.0	24.3	1.44
A1	20 Sep 2022	18	16.11	87.22	6.8	33.41	8.0	24.5	1.21
A1	29 Sep 2022	1	15.93	84.66	8.1	33.41	8.0	24.5	2.63
A1	29 Sep 2022	2	15.61	84.57	7.8	33.40	8.0	24.6	2.86
A1	29 Sep 2022	3	15.01	83.92	7.7	33.41	8.0	24.7	2.91
A1	29 Sep 2022	4	14.70	85.11	7.5	33.41	8.0	24.8	2.60
A1	29 Sep 2022	5	14.61	85.99	7.3	33.40	8.0	24.8	2.44
A1	29 Sep 2022	6	14.29	86.39	7.1	33.40	8.0	24.9	2.16
A1	29 Sep 2022	7	14.01	86.53	7.0	33.40	7.9	24.9	1.77
A1	29 Sep 2022	8	13.88	87.50	6.9	33.40	7.9	25.0	1.55
A1	29 Sep 2022	9	13.82	88.69	6.9	33.40	7.9	25.0	1.42
A1	29 Sep 2022	10	13.80	88.87	6.8	33.40	7.9	25.0	1.38
A1	29 Sep 2022	11	13.74	88.92	6.5	33.39	7.9	25.0	1.31
A1	29 Sep 2022	12	13.19	89.01	6.3	33.43	7.9	25.1	1.10
A1	29 Sep 2022	13	13.03	89.23	6.2	33.43	7.9	25.2	0.92
A1	29 Sep 2022	14	12.89	89.60	6.2	33.42	7.9	25.2	0.85
A1	29 Sep 2022	15	12.82	89.67	6.2	33.43	7.9	25.2	0.85
A1	29 Sep 2022	16	12.81	89.60	6.2	33.43	7.9	25.2	0.80
A1	29 Sep 2022	17	12.81	90.23	6.2	33.43	7.9	25.2	0.77
A1	29 Sep 2022	18	12.77	90.31	6.2	33.43	7.9	25.2	0.76
A1	29 Sep 2022	19	12.71	90.31	6.1	33.44	7.8	25.2	0.73
A1	29 Sep 2022	20	12.67	90.19	6.1	33.44	7.8	25.3	0.74
A6	07 Sep 2022	1	23.12	81.24	7.6	33.61	8.2	22.8	3.10
A6	07 Sep 2022	2	22.77	80.53	7.5	33.59	8.2	22.9	3.80
A6	07 Sep 2022	3	21.32	79.61	7.8	33.61	8.2	23.3	4.55
A6	07 Sep 2022	4	20.85	80.67	8.0	33.57	8.2	23.4	3.33
A6	07 Sep 2022	5	20.62	85.29	8.0	33.56	8.2	23.5	2.32
A6	07 Sep 2022	6	20.45	86.90	8.1	33.55	8.2	23.5	1.97
A6	07 Sep 2022	7	20.10	87.15	8.2	33.54	8.2	23.6	1.76
A6	07 Sep 2022	8	19.99	87.21	8.2	33.54	8.2	23.6	1.60
A6	07 Sep 2022	9	19.84	87.25	8.1	33.54	8.2	23.7	1.50
A6	07 Sep 2022	10	19.80	87.41	8.1	33.54	8.2	23.7	1.47
A6	07 Sep 2022	11	19.72	87.42	8.0	33.53	8.2	23.7	1.52
A6	07 Sep 2022	12	19.30	87.29	7.7	33.53	8.1	23.8	1.50
A6	07 Sep 2022	13	18.82	87.54	7.6	33.53	8.1	23.9	1.30
A6	07 Sep 2022	14	18.37	87.80	7.7	33.51	8.1	24.0	1.23
A6	07 Sep 2022	15	17.96	87.92	7.9	33.51	8.1	24.1	1.10
A6	07 Sep 2022	16	17.93	88.35	7.9	33.50	8.1	24.1	1.14
A6	07 Sep 2022	17	17.87	88.42	8.0	33.50	8.1	24.2	1.16
A6	07 Sep 2022	18	17.74	88.51	7.9	33.50	8.1	24.2	1.17
A6	07 Sep 2022	19	17.48	88.44	7.8	33.50	8.1	24.2	1.16
A6	07 Sep 2022	20	17.15	88.32	7.7	33.50	8.1	24.3	1.11
A6	13 Sep 2022	1	20.24	82.81	7.7	33.41	8.1	23.5	1.09
A6	13 Sep 2022	2	20.14	83.02	7.8	33.41	8.1	23.5	1.26
A6	13 Sep 2022	3	19.89	83.14	7.8	33.40	8.1	23.6	1.51
A6	13 Sep 2022	4	19.79	83.67	7.8	33.40	8.1	23.6	1.64
A6	13 Sep 2022	5	19.71	84.70	7.8	33.40	8.1	23.6	1.71
A6	13 Sep 2022	6	19.67	84.75	7.8	33.40	8.1	23.6	1.72
A6	13 Sep 2022	7	19.64	84.87	7.7	33.40	8.1	23.6	1.79
A6	13 Sep 2022	8	19.60	85.08	7.7	33.40	8.1	23.6	1.75
A6	13 Sep 2022	9	19.59	85.57	7.7	33.40	8.1	23.6	1.67
A6	13 Sep 2022	10	19.58	85.69	7.7	33.40	8.1	23.7	1.56
A6	13 Sep 2022	11	19.58	85.78	7.7	33.40	8.1	23.7	1.61
A6	13 Sep 2022	12	19.59	85.55	7.8	33.40	8.1	23.6	1.68
A6	13 Sep 2022	13	19.58	85.57	7.7	33.40	8.1	23.7	1.63
A6	13 Sep 2022	14	19.55	85.60	7.7	33.40	8.1	23.7	1.59
A6	13 Sep 2022	15	19.43	85.83	7.6	33.40	8.1	23.7	1.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A6	13 Sep 2022	16	19.41	86.36	7.5	33.40	8.1	23.7	1.36
A6	13 Sep 2022	17	19.20	86.81	7.5	33.40	8.1	23.7	1.08
A6	13 Sep 2022	18	19.04	87.53	7.5	33.40	8.1	23.8	0.94
A6	20 Sep 2022	1	21.15	86.42	7.7	33.49	8.2	23.3	1.03
A6	20 Sep 2022	2	21.13	86.42	7.7	33.49	8.2	23.3	1.10
A6	20 Sep 2022	3	21.00	86.52	7.6	33.49	8.2	23.3	1.49
A6	20 Sep 2022	4	20.96	86.02	7.6	33.48	8.2	23.4	1.97
A6	20 Sep 2022	5	20.69	85.03	7.6	33.48	8.2	23.4	3.47
A6	20 Sep 2022	6	20.69	82.40	7.6	33.48	8.2	23.4	4.41
A6	20 Sep 2022	7	20.24	82.27	7.4	33.46	8.1	23.5	4.61
A6	20 Sep 2022	8	19.83	83.17	7.3	33.45	8.1	23.6	3.87
A6	20 Sep 2022	9	19.68	83.69	7.3	33.44	8.1	23.7	3.14
A6	20 Sep 2022	10	19.57	84.52	7.2	33.44	8.1	23.7	2.66
A6	20 Sep 2022	11	19.35	85.25	7.1	33.44	8.1	23.7	2.06
A6	20 Sep 2022	12	19.16	86.21	6.8	33.43	8.1	23.8	1.72
A6	20 Sep 2022	13	18.87	86.33	6.4	33.42	8.1	23.8	1.43
A6	20 Sep 2022	14	18.19	86.51	6.3	33.43	8.0	24.0	1.14
A6	20 Sep 2022	15	17.97	87.10	6.4	33.42	8.0	24.1	0.97
A6	20 Sep 2022	16	17.73	87.75	6.4	33.41	8.0	24.1	0.98
A6	20 Sep 2022	17	17.27	88.15	6.4	33.42	8.0	24.2	0.93
A6	20 Sep 2022	18	16.88	87.91	6.3	33.42	8.0	24.3	0.79
A6	29 Sep 2022	1	18.58	74.47	8.9	33.42	8.2	23.9	6.44
A6	29 Sep 2022	2	18.29	74.04	8.8	33.41	8.2	24.0	7.38
A6	29 Sep 2022	3	17.50	71.36	8.8	33.41	8.1	24.2	8.37
A6	29 Sep 2022	4	17.14	70.68	8.7	33.41	8.1	24.3	6.83
A6	29 Sep 2022	5	16.52	75.81	8.4	33.41	8.1	24.4	5.86
A6	29 Sep 2022	6	16.25	79.37	8.3	33.40	8.1	24.5	5.09
A6	29 Sep 2022	7	16.16	80.70	8.2	33.40	8.1	24.5	4.61
A6	29 Sep 2022	8	16.02	81.63	8.1	33.40	8.1	24.5	4.17
A6	29 Sep 2022	9	15.87	81.82	7.9	33.40	8.1	24.5	4.14
A6	29 Sep 2022	10	15.61	82.04	7.6	33.40	8.0	24.6	3.94
A6	29 Sep 2022	11	15.19	82.54	7.3	33.40	8.0	24.7	3.36
A6	29 Sep 2022	12	14.55	83.26	6.9	33.40	8.0	24.8	2.91
A6	29 Sep 2022	13	14.13	85.23	6.6	33.41	7.9	24.9	2.16
A6	29 Sep 2022	14	13.96	86.56	6.5	33.41	7.9	25.0	1.74
A6	29 Sep 2022	15	13.87	87.65	6.5	33.40	7.9	25.0	1.63
A6	29 Sep 2022	16	13.76	87.72	6.4	33.41	7.9	25.0	1.64
A6	29 Sep 2022	17	13.60	88.15	6.4	33.41	7.9	25.0	1.64
A6	29 Sep 2022	18	13.31	88.65	6.3	33.42	7.9	25.1	1.41
A6	29 Sep 2022	19	13.00	89.47	6.2	33.43	7.9	25.2	1.21
A7	07 Sep 2022	1	22.90	87.75	7.6	33.61	8.2	22.9	1.61
A7	07 Sep 2022	2	22.42	87.30	7.8	33.60	8.2	23.0	2.03
A7	07 Sep 2022	3	22.04	86.82	8.0	33.59	8.2	23.1	2.05
A7	07 Sep 2022	4	21.63	86.94	8.0	33.58	8.2	23.2	1.89
A7	07 Sep 2022	5	21.18	87.27	8.1	33.56	8.2	23.3	1.54
A7	07 Sep 2022	6	20.83	86.80	8.2	33.54	8.2	23.4	1.58
A7	07 Sep 2022	7	20.47	85.54	8.2	33.51	8.2	23.5	1.64
A7	07 Sep 2022	8	19.71	85.03	8.3	33.52	8.2	23.7	1.44
A7	07 Sep 2022	9	19.58	86.74	8.3	33.51	8.2	23.7	1.30
A7	07 Sep 2022	10	19.54	87.20	8.2	33.51	8.1	23.7	1.29
A7	07 Sep 2022	11	19.51	86.84	8.1	33.52	8.1	23.8	1.43
A7	07 Sep 2022	12	19.47	86.69	8.0	33.51	8.1	23.8	1.56
A7	07 Sep 2022	13	19.23	86.46	7.8	33.52	8.1	23.8	1.58
A7	07 Sep 2022	14	19.14	86.12	7.7	33.52	8.1	23.9	1.70
A7	07 Sep 2022	15	18.98	85.99	7.5	33.52	8.1	23.9	1.74
A7	07 Sep 2022	16	18.64	86.06	7.3	33.50	8.1	24.0	1.71
A7	07 Sep 2022	17	17.64	86.21	7.2	33.49	8.1	24.2	1.49
A7	07 Sep 2022	18	16.91	86.91	7.2	33.48	8.1	24.4	1.08

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
A7	07 Sep 2022	19	16.68	87.52	7.2	33.47	8.0	24.4	0.83
A7	07 Sep 2022	20	16.66	87.54	7.3	33.47	8.0	24.4	0.76
A7	13 Sep 2022	1	20.43	83.28	8.2	33.38	8.1	23.4	1.08
A7	13 Sep 2022	2	20.33	83.29	8.2	33.38	8.1	23.4	1.23
A7	13 Sep 2022	3	20.26	83.11	8.2	33.38	8.1	23.5	1.63
A7	13 Sep 2022	4	20.22	82.73	8.1	33.38	8.1	23.5	1.79
A7	13 Sep 2022	5	20.19	82.81	8.1	33.39	8.1	23.5	1.93
A7	13 Sep 2022	6	20.08	83.23	7.9	33.39	8.1	23.5	2.02
A7	13 Sep 2022	7	19.71	83.22	7.8	33.41	8.1	23.6	1.84
A7	13 Sep 2022	8	19.44	83.92	7.8	33.40	8.1	23.7	1.51
A7	13 Sep 2022	9	19.31	85.73	7.7	33.39	8.1	23.7	1.33
A7	13 Sep 2022	10	19.25	86.18	7.6	33.39	8.1	23.7	1.23
A7	13 Sep 2022	11	19.15	85.92	7.6	33.39	8.1	23.8	1.15
A7	13 Sep 2022	12	19.12	85.97	7.6	33.39	8.1	23.8	1.13
A7	13 Sep 2022	13	19.12	86.12	7.5	33.39	8.1	23.8	1.13
A7	13 Sep 2022	14	19.14	85.94	7.5	33.40	8.1	23.8	1.15
A7	13 Sep 2022	15	19.14	85.88	7.5	33.40	8.1	23.8	1.14
A7	13 Sep 2022	16	19.14	85.78	7.5	33.40	8.1	23.8	1.05
A7	13 Sep 2022	17	19.14	86.01	7.5	33.40	8.1	23.8	1.14
A7	13 Sep 2022	18	19.14	86.04	7.5	33.40	8.1	23.8	1.13
A7	13 Sep 2022	19	19.14	85.99	7.5	33.40	8.1	23.8	1.09
A7	13 Sep 2022	20	19.15	86.24	7.5	33.40	8.1	23.8	1.06
A7	20 Sep 2022	1	21.09	87.18	7.7	33.49	8.2	23.3	0.79
A7	20 Sep 2022	2	21.09	87.02	7.7	33.49	8.2	23.3	0.84
A7	20 Sep 2022	3	21.07	87.16	7.7	33.49	8.2	23.3	0.89
A7	20 Sep 2022	4	20.89	87.39	7.6	33.49	8.2	23.4	0.98
A7	20 Sep 2022	5	20.64	87.78	7.6	33.47	8.2	23.4	0.92
A7	20 Sep 2022	6	20.20	88.44	7.6	33.45	8.2	23.5	0.85
A7	20 Sep 2022	7	19.90	89.05	7.8	33.45	8.1	23.6	0.76
A7	20 Sep 2022	8	19.86	89.16	7.7	33.44	8.1	23.6	0.77
A7	20 Sep 2022	9	19.46	89.18	7.7	33.43	8.1	23.7	0.78
A7	20 Sep 2022	10	19.25	89.37	7.8	33.43	8.1	23.8	0.73
A7	20 Sep 2022	11	19.12	89.53	7.9	33.43	8.1	23.8	0.75
A7	20 Sep 2022	12	19.05	89.68	7.7	33.42	8.1	23.8	0.82
A7	20 Sep 2022	13	18.35	89.28	7.6	33.42	8.1	24.0	0.94
A7	20 Sep 2022	14	18.20	89.00	7.5	33.42	8.1	24.0	1.16
A7	20 Sep 2022	15	18.08	88.60	7.4	33.41	8.1	24.0	1.18
A7	20 Sep 2022	16	17.46	88.31	7.1	33.43	8.1	24.2	1.23
A7	20 Sep 2022	17	17.29	87.96	6.5	NA	8.1	24.4	1.10
A7	20 Sep 2022	18	17.07	87.58	6.4	NA	8.1	24.5	1.13
A7	20 Sep 2022	19	16.86	86.99	6.7	NA	8.1	24.6	1.12
A7	29 Sep 2022	1	17.30	78.08	8.8	33.42	8.1	24.2	5.59
A7	29 Sep 2022	2	16.97	78.37	8.6	33.42	8.1	24.3	5.52
A7	29 Sep 2022	3	16.33	79.16	8.3	33.41	8.1	24.4	4.65
A7	29 Sep 2022	4	15.90	81.20	8.1	33.41	8.1	24.5	4.46
A7	29 Sep 2022	5	15.67	82.22	7.8	33.40	8.1	24.6	4.01
A7	29 Sep 2022	6	15.00	82.66	7.6	33.41	8.0	24.7	3.33
A7	29 Sep 2022	7	14.74	84.84	7.4	33.40	8.0	24.8	2.75
A7	29 Sep 2022	8	14.64	86.10	7.2	33.40	8.0	24.8	2.38
A7	29 Sep 2022	9	14.25	86.38	7.0	33.40	8.0	24.9	2.10
A7	29 Sep 2022	10	14.05	87.23	6.8	33.40	7.9	24.9	1.79
A7	29 Sep 2022	11	13.84	87.92	6.6	33.41	7.9	25.0	1.57
A7	29 Sep 2022	12	13.74	88.48	6.4	33.41	7.9	25.0	1.33
A7	29 Sep 2022	13	13.58	88.77	6.4	33.41	7.9	25.0	1.11
A7	29 Sep 2022	14	13.48	89.00	6.4	33.42	7.9	25.1	1.04
A7	29 Sep 2022	15	13.46	89.48	6.4	33.42	7.9	25.1	1.00
A7	29 Sep 2022	16	13.43	89.43	6.3	33.42	7.9	25.1	0.95
A7	29 Sep 2022	17	13.38	89.34	6.2	33.42	7.9	25.1	0.89

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
A7	29 Sep 2022	18	13.29	89.41	6.1	33.43	7.9	25.1	0.87
A7	29 Sep 2022	19	13.06	89.44	6.1	33.44	7.9	25.2	0.84
A7	29 Sep 2022	20	12.91	89.69	6.0	33.45	7.9	25.2	0.76
C4	07 Sep 2022	1	23.36	73.74	6.2	33.60	8.0	22.8	0.84
C4	07 Sep 2022	2	23.17	73.09	6.8	33.61	8.1	22.8	1.11
C4	07 Sep 2022	3	22.91	74.66	7.4	33.60	8.1	22.9	2.09
C4	07 Sep 2022	4	21.96	77.61	7.8	33.59	8.2	23.2	5.99
C4	07 Sep 2022	5	21.12	74.05	7.6	33.56	8.2	23.4	7.89
C4	07 Sep 2022	6	20.54	81.39	7.4	33.54	8.1	23.5	4.28
C4	07 Sep 2022	7	19.71	83.48	6.8	33.51	8.1	23.7	2.71
C4	07 Sep 2022	8	18.64	83.25	6.2	33.50	8.0	24.0	1.99
C4	07 Sep 2022	9	17.98	81.36	5.6	33.49	8.0	24.1	1.06
C4	07 Sep 2022	10	17.54	77.06	5.4	33.48	7.9	24.2	0.66
C4	07 Sep 2022	11	17.04	69.01	5.3	33.47	7.9	24.3	0.55
C4	07 Sep 2022	12	16.96	64.15	5.3	33.47	7.9	24.4	0.55
C4	13 Sep 2022	1	20.47	80.54	8.0	33.40	8.1	23.4	1.10
C4	13 Sep 2022	2	20.40	80.41	7.9	33.40	8.1	23.4	1.09
C4	13 Sep 2022	3	20.34	79.62	7.8	33.40	8.1	23.5	1.30
C4	13 Sep 2022	4	20.30	79.19	7.8	33.40	8.1	23.5	1.59
C4	13 Sep 2022	5	20.19	78.81	7.7	33.40	8.1	23.5	1.87
C4	13 Sep 2022	6	20.16	78.77	7.6	33.40	8.1	23.5	2.02
C4	13 Sep 2022	7	20.00	78.55	7.5	33.40	8.1	23.5	1.79
C4	13 Sep 2022	8	19.92	78.66	7.3	33.40	8.1	23.6	1.44
C4	13 Sep 2022	9	19.67	78.98	7.1	33.40	8.1	23.6	1.04
C4	13 Sep 2022	10	19.66	77.57	7.2	33.40	8.1	23.6	0.73
C4	13 Sep 2022	11	19.64	74.85	7.1	33.40	8.1	23.6	0.70
C4	20 Sep 2022	1	21.95	62.06	5.6	33.51	7.9	23.1	0.91
C4	20 Sep 2022	2	21.72	61.43	5.8	33.50	7.9	23.2	1.22
C4	20 Sep 2022	3	21.49	62.88	6.2	33.49	8.0	23.2	1.80
C4	20 Sep 2022	4	21.38	67.73	6.5	33.49	8.0	23.2	2.22
C4	20 Sep 2022	5	21.22	72.37	6.6	33.48	8.1	23.3	2.49
C4	20 Sep 2022	6	21.02	75.93	6.2	33.47	8.1	23.3	2.84
C4	20 Sep 2022	7	19.60	79.72	5.1	33.45	8.0	23.7	2.10
C4	20 Sep 2022	8	19.16	78.57	4.6	33.44	7.9	23.8	1.12
C4	20 Sep 2022	9	19.36	75.74	4.6	33.43	7.9	23.7	0.73
C4	20 Sep 2022	10	18.69	71.75	4.5	33.43	7.9	23.9	0.59
C4	20 Sep 2022	11	18.56	61.53	4.6	33.42	7.9	23.9	0.52
C4	20 Sep 2022	12	18.57	55.19	4.6	33.43	7.9	23.9	0.55
C4	29 Sep 2022	1	17.40	76.43	8.9	33.42	8.1	24.2	4.50
C4	29 Sep 2022	2	17.19	76.44	8.6	33.42	8.1	24.3	5.37
C4	29 Sep 2022	3	16.92	76.73	8.2	33.42	8.1	24.3	4.91
C4	29 Sep 2022	4	16.55	78.55	8.0	33.42	8.1	24.4	4.08
C4	29 Sep 2022	5	16.01	80.73	7.6	33.42	8.1	24.5	3.24
C4	29 Sep 2022	6	15.58	82.53	7.2	33.41	8.0	24.6	2.47
C4	29 Sep 2022	7	15.17	83.44	6.8	33.41	8.0	24.7	1.91
C4	29 Sep 2022	8	14.79	84.57	6.4	33.41	8.0	24.8	1.47
C4	29 Sep 2022	9	14.51	84.78	6.1	33.41	7.9	24.9	1.19
C4	29 Sep 2022	10	14.37	82.92	5.9	33.41	7.9	24.9	0.98
C4	29 Sep 2022	11	14.37	80.78	5.9	33.41	7.9	24.9	0.91
C5	07 Sep 2022	1	23.08	87.50	7.5	33.62	8.2	22.9	0.88
C5	07 Sep 2022	2	22.87	87.56	7.6	33.62	8.2	22.9	1.07
C5	07 Sep 2022	3	22.67	87.51	7.7	33.60	8.2	23.0	1.52
C5	07 Sep 2022	4	22.42	86.83	7.7	33.59	8.2	23.0	2.04
C5	07 Sep 2022	5	21.74	85.25	7.9	33.58	8.2	23.2	3.24
C5	07 Sep 2022	6	21.42	79.06	8.0	33.57	8.2	23.3	4.29
C5	07 Sep 2022	7	21.37	73.96	7.8	33.57	8.2	23.3	4.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C5	07 Sep 2022	8	21.25	77.98	7.3	33.56	8.2	23.3	4.54
C5	07 Sep 2022	9	20.23	81.23	6.5	33.54	8.1	23.6	2.78
C5	07 Sep 2022	10	18.65	78.42	6.6	33.53	8.0	24.0	1.22
C5	13 Sep 2022	1	19.96	81.41	7.6	33.39	8.1	23.5	0.82
C5	13 Sep 2022	2	19.94	81.51	7.6	33.40	8.1	23.6	0.87
C5	13 Sep 2022	3	19.91	81.74	7.6	33.40	8.1	23.6	0.95
C5	13 Sep 2022	4	19.89	81.93	7.5	33.40	8.1	23.6	1.08
C5	13 Sep 2022	5	19.89	81.93	7.5	33.40	8.1	23.6	1.16
C5	13 Sep 2022	6	19.89	81.79	7.6	33.40	8.1	23.6	1.19
C5	13 Sep 2022	7	19.89	81.86	7.6	33.40	8.1	23.6	1.21
C5	13 Sep 2022	8	19.88	81.92	7.5	33.40	8.1	23.6	1.23
C5	13 Sep 2022	9	19.85	82.00	7.4	33.39	8.1	23.6	1.20
C5	13 Sep 2022	10	19.45	82.45	7.1	33.41	8.1	23.7	1.05
C5	13 Sep 2022	11	19.29	83.18	7.1	33.41	8.1	23.7	0.74
C5	20 Sep 2022	1	21.36	79.70	7.0	33.49	8.1	23.2	1.30
C5	20 Sep 2022	2	21.33	79.58	7.0	33.49	8.1	23.3	1.47
C5	20 Sep 2022	3	21.28	79.34	7.0	33.49	8.1	23.3	1.80
C5	20 Sep 2022	4	21.21	78.89	6.8	33.48	8.1	23.3	2.35
C5	20 Sep 2022	5	20.65	78.67	6.4	33.46	8.1	23.4	3.07
C5	20 Sep 2022	6	20.05	79.56	6.0	33.46	8.1	23.6	2.32
C5	20 Sep 2022	7	19.63	82.86	5.7	33.44	8.0	23.7	1.46
C5	20 Sep 2022	8	19.23	83.43	5.7	33.44	8.0	23.8	1.05
C5	20 Sep 2022	9	19.24	83.78	5.8	33.43	8.0	23.8	0.91
C5	20 Sep 2022	10	18.77	82.97	6.0	33.43	8.0	23.9	0.79
C5	20 Sep 2022	11	18.50	78.94	6.2	33.43	8.0	23.9	0.75
C5	29 Sep 2022	1	17.88	70.16	9.6	33.42	8.2	24.1	8.39
C5	29 Sep 2022	2	17.52	70.13	9.1	33.41	8.2	24.2	8.58
C5	29 Sep 2022	3	16.91	71.75	8.4	33.41	8.1	24.3	6.76
C5	29 Sep 2022	4	16.41	76.18	7.8	33.41	8.1	24.4	4.50
C5	29 Sep 2022	5	16.04	80.37	7.5	33.40	8.1	24.5	3.59
C5	29 Sep 2022	6	15.62	83.14	7.4	33.40	8.0	24.6	3.08
C5	29 Sep 2022	7	15.16	84.10	7.0	33.40	8.0	24.7	2.43
C5	29 Sep 2022	8	14.82	85.73	6.6	33.41	8.0	24.8	1.82
C5	29 Sep 2022	9	14.65	87.39	6.5	33.40	8.0	24.8	1.58
C5	29 Sep 2022	10	14.46	88.26	6.4	33.41	7.9	24.9	1.26
C5	29 Sep 2022	11	14.42	88.20	6.4	33.41	7.9	24.9	1.12
C6	07 Sep 2022	1	23.25	88.48	7.4	33.62	8.2	22.8	1.23
C6	07 Sep 2022	2	22.98	88.01	7.6	33.62	8.2	22.9	2.16
C6	07 Sep 2022	3	22.82	86.10	7.6	33.60	8.2	22.9	4.87
C6	07 Sep 2022	4	22.30	81.15	7.6	33.60	8.2	23.1	5.69
C6	07 Sep 2022	5	22.00	79.99	7.6	33.59	8.2	23.1	4.58
C6	07 Sep 2022	6	21.78	82.05	7.8	33.58	8.2	23.2	4.31
C6	07 Sep 2022	7	21.62	82.64	7.7	33.58	8.2	23.2	4.12
C6	07 Sep 2022	8	21.06	83.47	6.9	33.52	8.2	23.3	3.19
C6	07 Sep 2022	9	18.58	83.50	6.6	33.53	8.1	24.0	1.65
C6	07 Sep 2022	10	18.33	79.08	6.7	33.51	8.0	24.1	1.05
C6	13 Sep 2022	1	20.37	84.63	7.9	33.41	8.1	23.5	0.73
C6	13 Sep 2022	2	20.36	84.51	7.9	33.41	8.1	23.5	0.73
C6	13 Sep 2022	3	20.34	84.56	7.9	33.41	8.1	23.5	0.77
C6	13 Sep 2022	4	20.16	84.93	7.9	33.40	8.1	23.5	0.83
C6	13 Sep 2022	5	19.86	85.14	8.0	33.40	8.1	23.6	1.09
C6	13 Sep 2022	6	19.81	85.32	7.7	33.40	8.1	23.6	1.09
C6	13 Sep 2022	7	19.61	85.11	7.3	33.41	8.1	23.6	1.13
C6	13 Sep 2022	8	19.41	84.82	7.0	33.41	8.1	23.7	1.07
C6	13 Sep 2022	9	19.17	84.37	6.8	33.41	8.0	23.8	0.90
C6	13 Sep 2022	10	18.81	84.55	6.6	33.41	8.0	23.9	0.83

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
C6	13 Sep 2022	11	18.59	84.56	6.5	33.41	8.0	23.9	0.68
C6	20 Sep 2022	1	21.52	71.37	7.1	33.50	8.1	23.2	1.11
C6	20 Sep 2022	2	21.45	72.71	7.1	33.50	8.1	23.2	1.29
C6	20 Sep 2022	3	21.33	74.47	7.3	33.49	8.1	23.3	1.70
C6	20 Sep 2022	4	21.22	79.15	7.3	33.48	8.1	23.3	1.96
C6	20 Sep 2022	5	20.85	81.70	7.0	33.47	8.1	23.4	4.47
C6	20 Sep 2022	6	20.39	78.78	6.2	33.45	8.1	23.5	4.84
C6	20 Sep 2022	7	19.82	82.27	5.4	33.44	8.0	23.6	2.38
C6	20 Sep 2022	8	19.31	80.73	4.9	33.44	8.0	23.7	1.20
C6	20 Sep 2022	9	19.30	60.07	5.1	33.44	7.9	23.8	0.84
C6	20 Sep 2022	10	20.01	56.88	5.5	33.43	8.0	23.6	1.07
C6	29 Sep 2022	1	19.29	81.09	9.0	33.44	8.2	23.8	2.46
C6	29 Sep 2022	2	18.85	81.07	8.9	33.42	8.2	23.9	2.72
C6	29 Sep 2022	3	18.30	79.56	8.8	33.41	8.2	24.0	4.18
C6	29 Sep 2022	4	17.87	75.30	8.6	33.40	8.1	24.1	6.02
C6	29 Sep 2022	5	17.37	73.44	8.1	33.39	8.1	24.2	6.06
C6	29 Sep 2022	6	16.79	74.40	7.8	33.38	8.1	24.3	5.48
C6	29 Sep 2022	7	16.15	75.82	7.8	33.40	8.1	24.5	4.99
C6	29 Sep 2022	8	15.83	77.59	7.4	33.40	8.1	24.6	4.06
C6	29 Sep 2022	9	15.29	79.28	6.8	33.39	8.0	24.7	2.81
C6	29 Sep 2022	10	14.94	81.50	6.6	33.41	7.9	24.8	1.98
C7	07 Sep 2022	1	23.26	81.97	8.1	33.60	8.2	22.8	3.14
C7	07 Sep 2022	2	23.24	82.22	8.0	33.60	8.2	22.8	3.38
C7	07 Sep 2022	3	22.97	81.48	8.0	33.61	8.2	22.9	4.27
C7	07 Sep 2022	4	22.48	81.87	8.2	33.60	8.2	23.0	5.03
C7	07 Sep 2022	5	22.32	82.88	8.0	33.60	8.2	23.1	4.74
C7	07 Sep 2022	6	21.94	83.72	7.7	33.60	8.2	23.2	3.79
C7	07 Sep 2022	7	21.40	86.19	7.6	33.61	8.2	23.3	2.28
C7	07 Sep 2022	8	21.12	88.77	7.5	33.59	8.2	23.4	1.45
C7	07 Sep 2022	9	20.69	89.72	7.6	33.58	8.2	23.5	1.05
C7	07 Sep 2022	10	20.26	90.28	7.8	33.57	8.2	23.6	0.87
C7	07 Sep 2022	11	20.12	90.36	8.0	33.56	8.2	23.6	0.85
C7	07 Sep 2022	12	19.83	90.22	7.8	33.53	8.2	23.7	0.95
C7	07 Sep 2022	13	18.97	89.50	7.8	33.52	8.2	23.9	1.22
C7	07 Sep 2022	14	18.55	87.43	7.6	33.51	8.1	24.0	1.53
C7	07 Sep 2022	15	18.21	86.97	7.2	33.50	8.1	24.1	1.59
C7	07 Sep 2022	16	17.98	86.87	6.6	33.47	8.1	24.1	1.44
C7	07 Sep 2022	17	16.80	86.78	6.2	33.48	8.0	24.4	1.04
C7	07 Sep 2022	18	15.20	86.07	6.4	33.47	8.0	24.7	0.66
C7	13 Sep 2022	1	20.07	85.37	8.0	33.41	8.1	23.5	0.91
C7	13 Sep 2022	2	20.07	85.72	7.9	33.41	8.1	23.5	0.94
C7	13 Sep 2022	3	20.03	85.78	8.0	33.40	8.1	23.5	1.00
C7	13 Sep 2022	4	19.98	85.80	8.0	33.40	8.1	23.5	1.12
C7	13 Sep 2022	5	19.91	85.67	8.0	33.40	8.1	23.6	1.58
C7	13 Sep 2022	6	19.62	85.33	8.0	33.40	8.1	23.6	1.79
C7	13 Sep 2022	7	19.59	85.60	8.1	33.40	8.1	23.6	1.92
C7	13 Sep 2022	8	19.59	85.62	8.1	33.40	8.1	23.6	1.99
C7	13 Sep 2022	9	19.59	85.63	8.1	33.40	8.1	23.6	1.99
C7	13 Sep 2022	10	19.59	85.86	8.1	33.40	8.1	23.6	1.95
C7	13 Sep 2022	11	19.58	86.05	8.1	33.40	8.1	23.6	1.94
C7	13 Sep 2022	12	19.46	86.35	8.1	33.40	8.1	23.7	1.76
C7	13 Sep 2022	13	19.30	86.47	8.1	33.40	8.1	23.7	1.67
C7	13 Sep 2022	14	19.20	87.10	8.0	33.39	8.1	23.7	1.68
C7	13 Sep 2022	15	19.06	86.90	8.0	33.39	8.1	23.8	1.69
C7	13 Sep 2022	16	19.02	87.07	7.7	33.39	8.1	23.8	1.69
C7	13 Sep 2022	17	18.52	87.46	6.7	33.41	8.1	23.9	1.11
C7	13 Sep 2022	18	18.34	86.18	6.4	33.41	8.0	24.0	0.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C7	13 Sep 2022	19	18.15	84.40	6.3	33.41	8.0	24.0	0.52
C7	20 Sep 2022	1	21.38	84.83	7.6	33.50	8.2	23.2	0.84
C7	20 Sep 2022	2	21.38	84.77	7.6	33.50	8.2	23.2	0.86
C7	20 Sep 2022	3	21.38	84.80	7.6	33.50	8.2	23.2	0.93
C7	20 Sep 2022	4	21.23	85.59	7.6	33.49	8.2	23.3	1.14
C7	20 Sep 2022	5	20.78	85.74	7.7	33.48	8.2	23.4	1.37
C7	20 Sep 2022	6	20.67	87.18	7.6	33.46	8.2	23.4	1.24
C7	20 Sep 2022	7	19.90	87.96	7.8	33.45	8.2	23.6	1.08
C7	20 Sep 2022	8	19.68	88.25	7.8	33.45	8.2	23.7	1.09
C7	20 Sep 2022	9	19.54	88.61	7.8	33.43	8.1	23.7	1.08
C7	20 Sep 2022	10	19.33	88.66	7.8	33.44	8.1	23.7	1.01
C7	20 Sep 2022	11	19.29	88.75	7.8	33.43	8.1	23.7	0.98
C7	20 Sep 2022	12	18.93	88.85	7.7	33.42	8.1	23.8	0.96
C7	20 Sep 2022	13	18.77	88.57	7.7	33.42	8.1	23.9	1.03
C7	20 Sep 2022	14	18.76	88.47	7.7	33.42	8.1	23.9	1.12
C7	20 Sep 2022	15	18.27	88.03	7.3	33.40	8.1	24.0	1.19
C7	20 Sep 2022	16	17.35	86.80	7.1	33.41	8.1	24.2	1.29
C7	20 Sep 2022	17	17.13	86.49	7.1	33.41	8.1	24.3	1.05
C7	20 Sep 2022	18	17.16	85.78	7.2	33.41	8.1	24.3	0.87
C7	29 Sep 2022	1	20.41	85.26	8.2	33.52	8.2	23.5	2.08
C7	29 Sep 2022	2	20.32	85.03	7.9	33.51	8.2	23.5	3.03
C7	29 Sep 2022	3	18.71	83.76	7.7	33.44	8.2	23.9	7.34
C7	29 Sep 2022	4	16.76	77.21	7.6	33.43	8.1	24.4	8.19
C7	29 Sep 2022	5	15.72	75.32	7.2	33.40	8.1	24.6	7.11
C7	29 Sep 2022	6	15.11	77.92	6.9	33.39	8.0	24.7	6.27
C7	29 Sep 2022	7	14.93	79.72	6.8	33.38	8.0	24.7	5.60
C7	29 Sep 2022	8	14.64	80.62	6.6	33.38	8.0	24.8	4.72
C7	29 Sep 2022	9	14.35	82.46	6.2	33.39	7.9	24.9	3.53
C7	29 Sep 2022	10	14.24	83.98	5.8	33.39	7.9	24.9	2.47
C7	29 Sep 2022	11	14.10	85.45	5.6	33.39	7.9	24.9	1.80
C7	29 Sep 2022	12	13.98	85.79	5.6	33.39	7.9	24.9	1.52
C7	29 Sep 2022	13	13.82	85.79	5.8	33.41	7.9	25.0	1.33
C7	29 Sep 2022	14	13.70	86.24	5.9	33.40	7.9	25.0	1.25
C7	29 Sep 2022	15	13.51	87.16	6.0	33.40	7.9	25.1	1.26
C7	29 Sep 2022	16	13.32	88.26	6.1	33.41	7.9	25.1	1.37
C7	29 Sep 2022	17	13.23	89.37	6.1	33.42	7.9	25.1	1.14
C7	29 Sep 2022	18	13.23	89.79	5.9	33.42	7.9	25.1	0.93
C7	29 Sep 2022	19	13.24	89.53	5.9	33.42	7.9	25.1	0.84
C8	07 Sep 2022	1	23.80	84.41	7.8	33.60	8.2	22.6	1.36
C8	07 Sep 2022	2	23.36	84.08	7.6	33.60	8.2	22.8	1.93
C8	07 Sep 2022	3	22.74	85.66	7.3	33.62	8.2	23.0	1.65
C8	07 Sep 2022	4	22.21	88.27	7.4	33.62	8.2	23.1	1.37
C8	07 Sep 2022	5	21.81	88.95	7.6	33.59	8.2	23.2	1.27
C8	07 Sep 2022	6	21.23	88.88	7.6	33.59	8.2	23.4	1.06
C8	07 Sep 2022	7	20.62	89.17	7.6	33.56	8.2	23.5	0.85
C8	07 Sep 2022	8	19.77	89.81	7.8	33.56	8.2	23.7	0.79
C8	07 Sep 2022	9	19.30	90.37	7.9	33.53	8.2	23.8	0.76
C8	07 Sep 2022	10	18.82	90.43	8.0	33.52	8.2	23.9	0.82
C8	07 Sep 2022	11	18.51	90.00	8.0	33.50	8.2	24.0	0.88
C8	07 Sep 2022	12	17.65	89.68	7.9	33.49	8.2	24.2	1.01
C8	07 Sep 2022	13	17.07	89.24	7.8	33.47	8.1	24.3	1.11
C8	07 Sep 2022	14	16.76	88.49	7.6	33.47	8.1	24.4	1.34
C8	07 Sep 2022	15	16.59	87.65	7.4	33.46	8.1	24.4	1.58
C8	07 Sep 2022	16	16.34	86.93	7.2	33.46	8.1	24.5	1.38
C8	07 Sep 2022	17	15.44	87.02	7.1	33.45	8.0	24.7	1.05
C8	07 Sep 2022	18	14.65	86.88	7.2	33.43	8.0	24.8	1.03
C8	07 Sep 2022	19	14.16	87.08	7.3	33.43	8.0	24.9	1.12
C8	07 Sep 2022	20	14.08	86.91	7.4	33.42	8.0	25.0	1.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C8	13 Sep 2022	1	20.10	84.22	8.2	33.41	8.1	23.5	1.22
C8	13 Sep 2022	2	20.06	84.65	8.2	33.41	8.1	23.5	1.32
C8	13 Sep 2022	3	20.01	85.09	8.2	33.41	8.1	23.5	1.38
C8	13 Sep 2022	4	20.00	85.15	8.2	33.41	8.1	23.5	1.47
C8	13 Sep 2022	5	20.01	84.99	8.2	33.41	8.1	23.5	1.45
C8	13 Sep 2022	6	19.99	85.14	8.1	33.40	8.1	23.5	1.48
C8	13 Sep 2022	7	19.61	85.44	8.1	33.40	8.1	23.6	1.79
C8	13 Sep 2022	8	19.51	85.58	8.2	33.40	8.1	23.7	2.06
C8	13 Sep 2022	9	19.48	85.69	8.2	33.40	8.1	23.7	2.02
C8	13 Sep 2022	10	19.46	85.80	8.2	33.40	8.1	23.7	2.04
C8	13 Sep 2022	11	19.41	85.98	8.2	33.40	8.1	23.7	1.90
C8	13 Sep 2022	12	19.39	86.41	8.1	33.39	8.1	23.7	1.88
C8	13 Sep 2022	13	19.36	86.50	8.1	33.39	8.1	23.7	1.79
C8	13 Sep 2022	14	19.35	86.47	8.1	33.39	8.1	23.7	1.85
C8	13 Sep 2022	15	19.31	86.96	8.1	33.39	8.1	23.7	1.81
C8	13 Sep 2022	16	19.21	86.72	8.0	33.39	8.1	23.7	1.76
C8	13 Sep 2022	17	19.17	87.42	8.0	33.39	8.1	23.7	1.67
C8	13 Sep 2022	18	18.86	87.39	7.7	33.40	8.1	23.8	1.46
C8	13 Sep 2022	19	18.60	87.63	7.5	33.40	8.1	23.9	1.12
C8	13 Sep 2022	20	18.54	87.45	7.4	33.40	8.1	23.9	0.97
C8	20 Sep 2022	1	21.62	82.98	7.8	33.51	8.2	23.2	1.01
C8	20 Sep 2022	2	21.61	83.63	7.8	33.51	8.2	23.2	1.06
C8	20 Sep 2022	3	21.60	84.14	7.7	33.51	8.2	23.2	1.16
C8	20 Sep 2022	4	21.57	83.91	7.8	33.51	8.2	23.2	1.36
C8	20 Sep 2022	5	21.51	84.63	7.6	33.50	8.2	23.2	1.46
C8	20 Sep 2022	6	21.04	85.14	7.5	33.49	8.2	23.3	1.31
C8	20 Sep 2022	7	20.85	88.33	7.6	33.48	8.2	23.4	1.06
C8	20 Sep 2022	8	20.25	89.29	7.6	33.46	8.2	23.5	1.03
C8	20 Sep 2022	9	19.61	88.50	7.9	33.44	8.2	23.7	1.19
C8	20 Sep 2022	10	19.55	87.95	7.8	33.43	8.2	23.7	1.34
C8	20 Sep 2022	11	19.07	87.90	7.7	33.43	8.2	23.8	1.32
C8	20 Sep 2022	12	18.64	87.56	7.7	33.42	8.1	23.9	1.41
C8	20 Sep 2022	13	18.27	87.00	7.6	33.42	8.1	24.0	1.47
C8	20 Sep 2022	14	18.06	86.19	7.6	33.41	8.1	24.0	1.58
C8	20 Sep 2022	15	18.00	85.79	7.6	33.41	8.1	24.1	1.52
C8	20 Sep 2022	16	17.86	85.77	7.5	33.41	8.1	24.1	1.52
C8	20 Sep 2022	17	17.61	85.72	7.2	33.40	8.1	24.1	1.45
C8	20 Sep 2022	18	16.95	84.59	7.1	33.41	8.1	24.3	1.22
C8	20 Sep 2022	19	16.83	84.43	7.2	33.41	8.1	24.3	1.04
C8	29 Sep 2022	1	19.51	79.31	8.4	33.48	8.2	23.7	5.78
C8	29 Sep 2022	2	19.15	78.60	8.3	33.47	8.2	23.8	7.34
C8	29 Sep 2022	3	18.18	74.55	8.3	33.45	8.2	24.0	9.17
C8	29 Sep 2022	4	17.77	74.50	8.1	33.42	8.1	24.1	7.32
C8	29 Sep 2022	5	16.97	78.33	7.8	33.41	8.1	24.3	6.15
C8	29 Sep 2022	6	15.80	79.22	7.5	33.40	8.1	24.6	6.01
C8	29 Sep 2022	7	14.90	79.60	7.2	33.39	8.0	24.8	5.77
C8	29 Sep 2022	8	14.52	80.95	7.0	33.39	8.0	24.8	5.48
C8	29 Sep 2022	9	14.42	81.29	6.7	33.38	8.0	24.9	5.15
C8	29 Sep 2022	10	14.21	82.25	6.5	33.38	8.0	24.9	4.23
C8	29 Sep 2022	11	13.89	83.48	6.5	33.40	7.9	25.0	3.33
C8	29 Sep 2022	12	13.64	84.92	6.3	33.40	7.9	25.0	2.48
C8	29 Sep 2022	13	13.44	87.27	6.2	33.40	7.9	25.1	1.82
C8	29 Sep 2022	14	13.37	88.35	6.2	33.41	7.9	25.1	1.41
C8	29 Sep 2022	15	13.35	88.66	6.1	33.41	7.9	25.1	1.24
C8	29 Sep 2022	16	13.33	88.76	6.0	33.41	7.9	25.1	1.11
C8	29 Sep 2022	17	13.26	88.86	6.0	33.42	7.9	25.1	1.05
C8	29 Sep 2022	18	13.17	88.99	6.0	33.42	7.9	25.1	0.99
C8	29 Sep 2022	19	13.14	89.06	6.0	33.43	7.9	25.1	0.95

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C8	29 Sep 2022	20	13.10	89.04	6.0	33.43	7.9	25.2	0.91

NA = not available

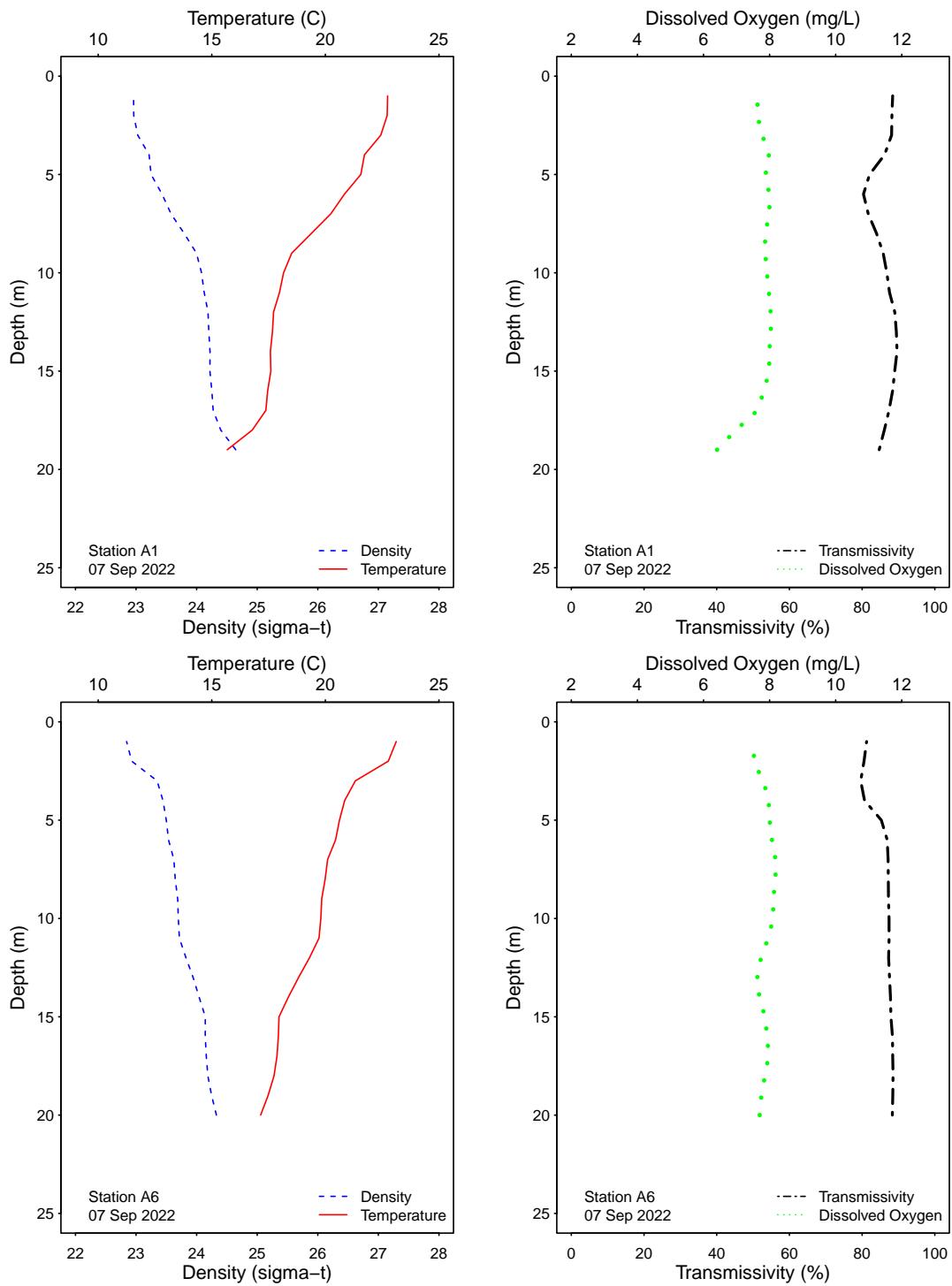


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

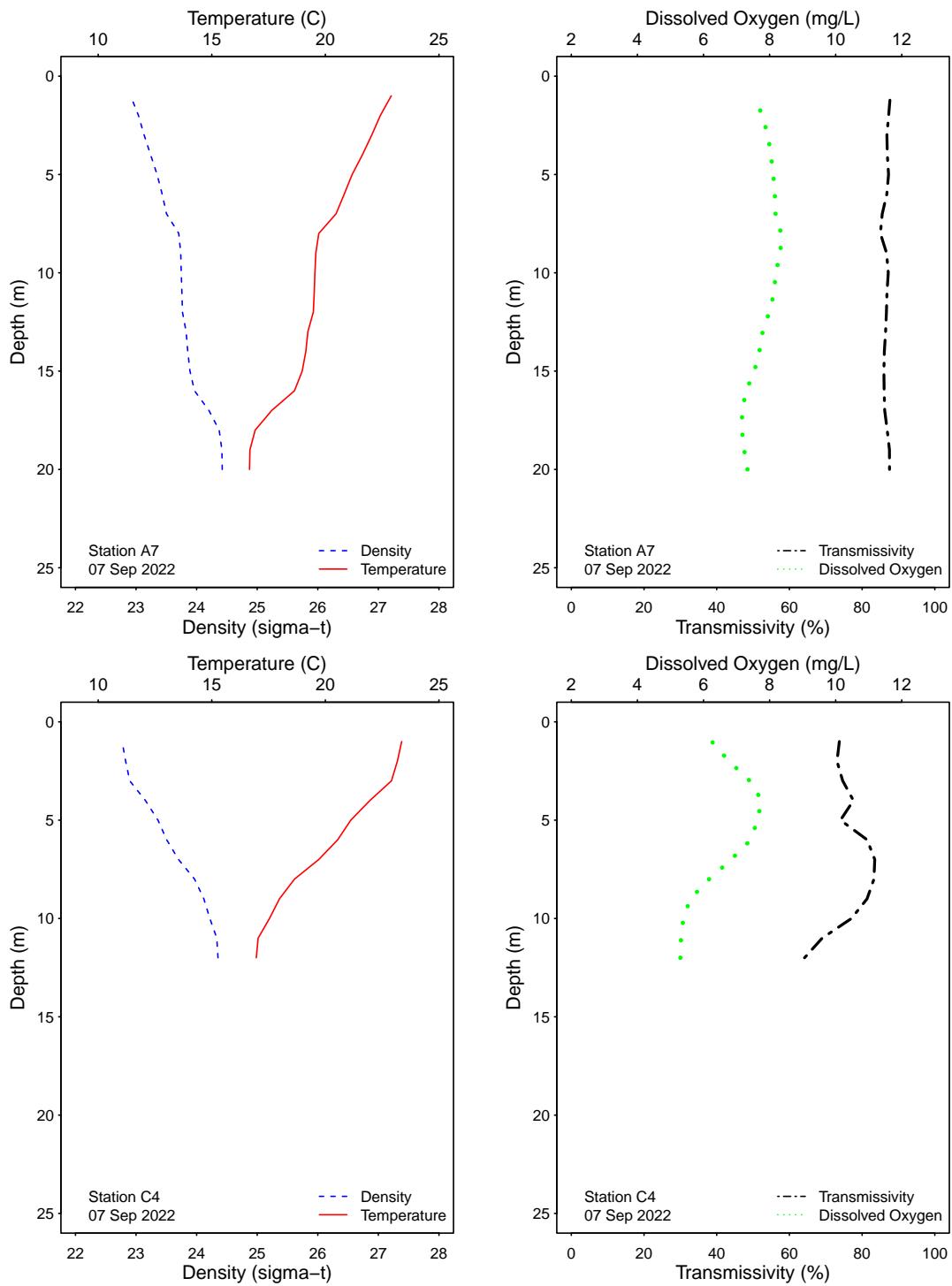


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

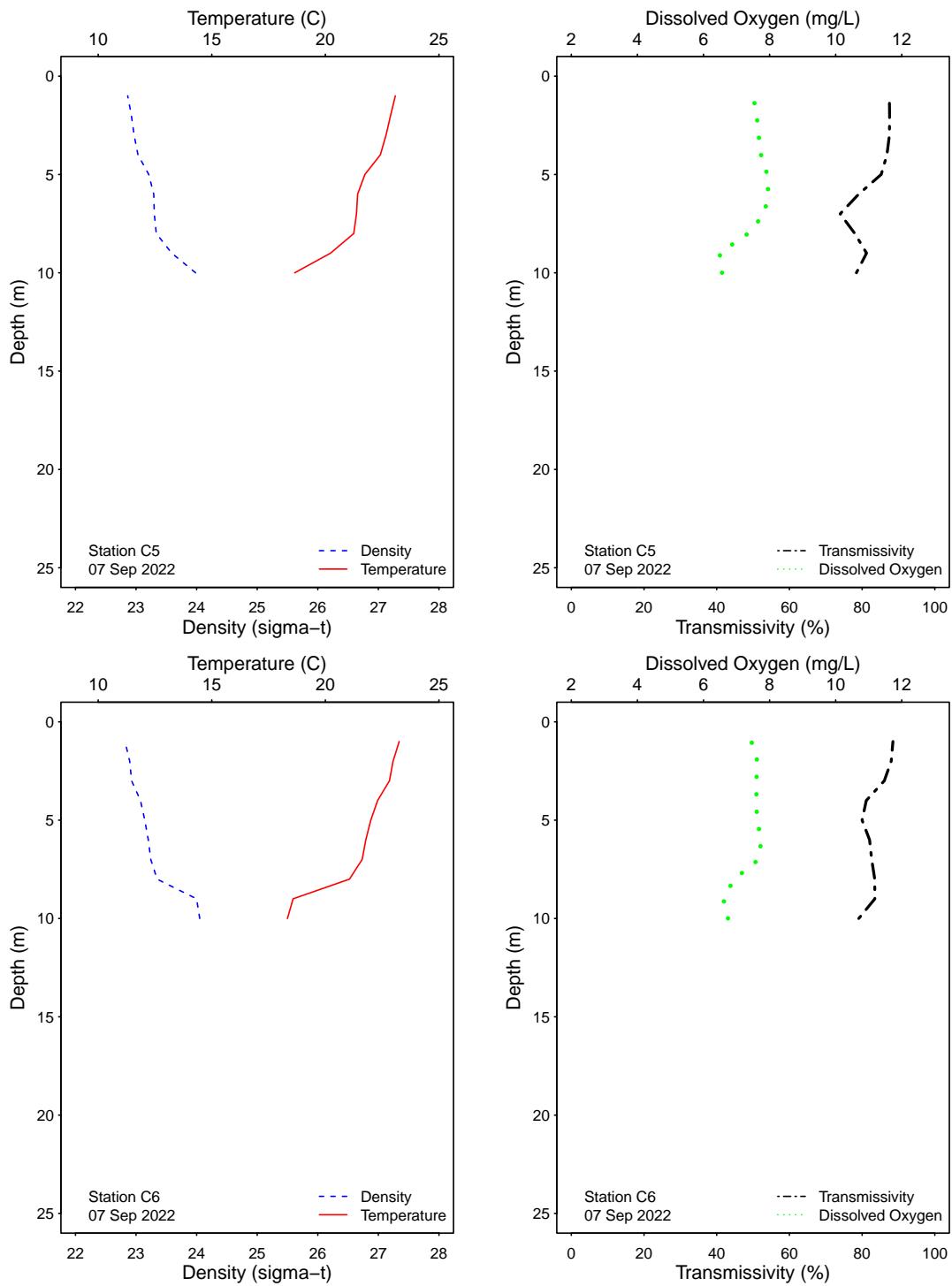


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

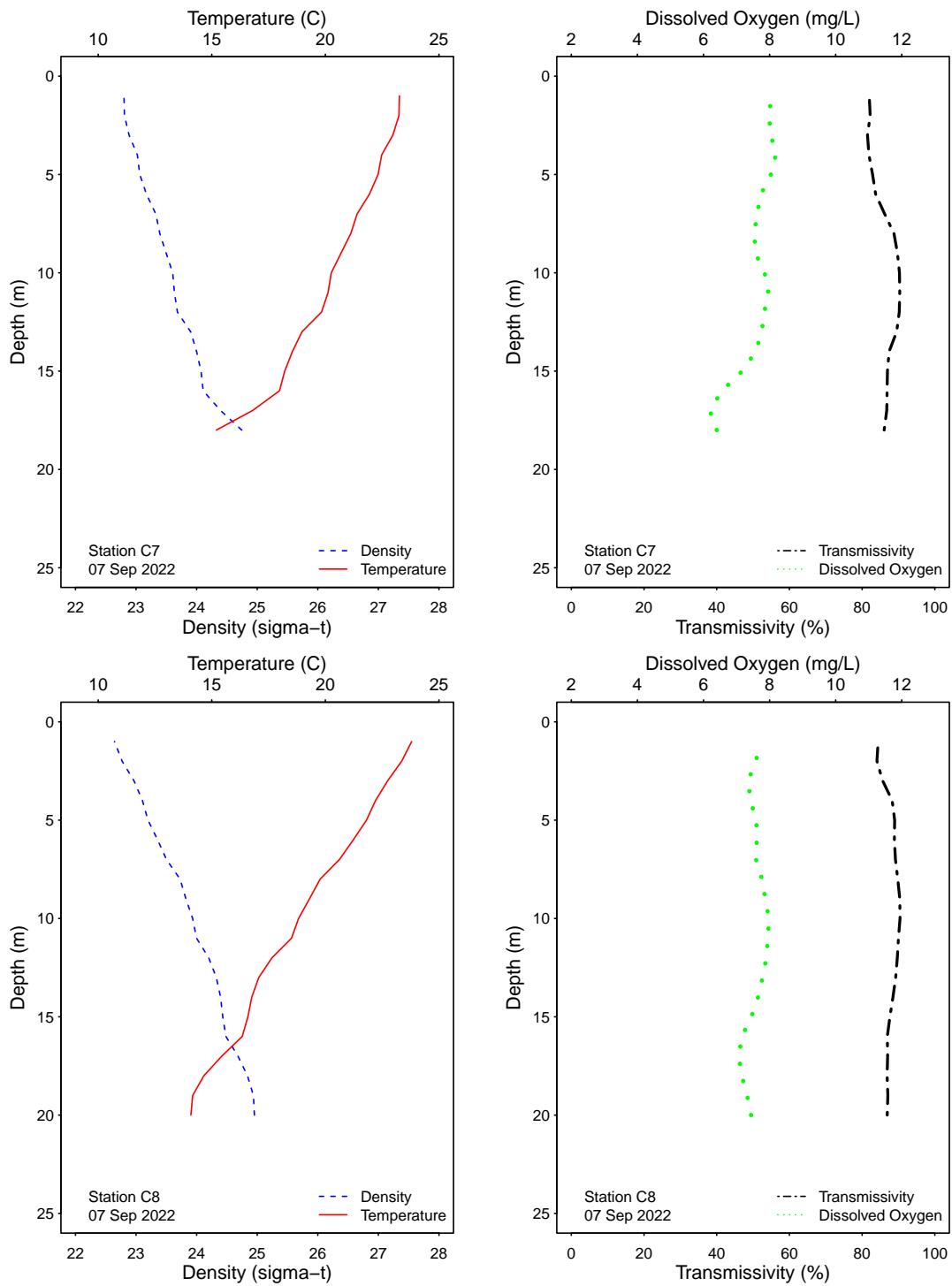


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

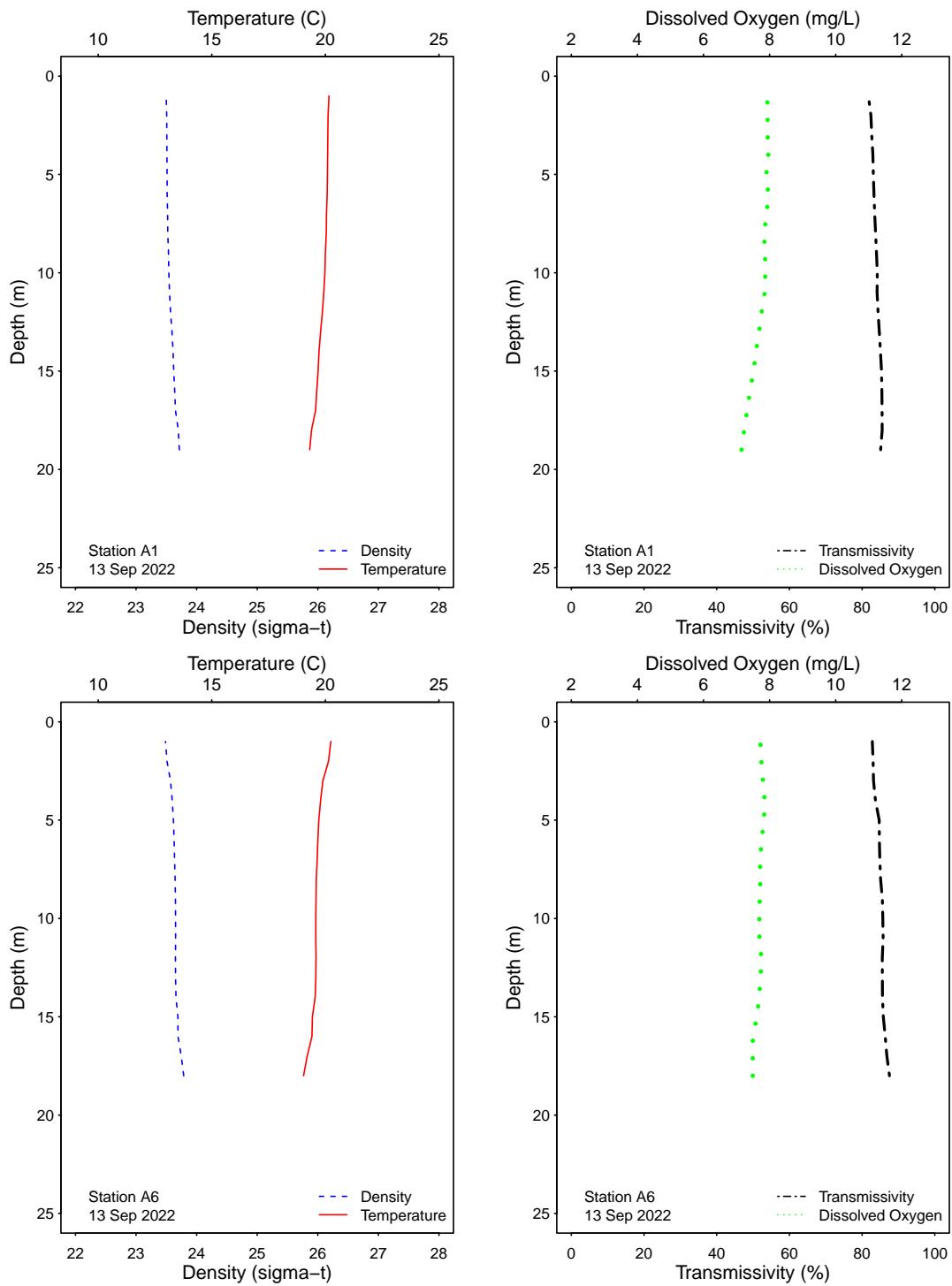


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

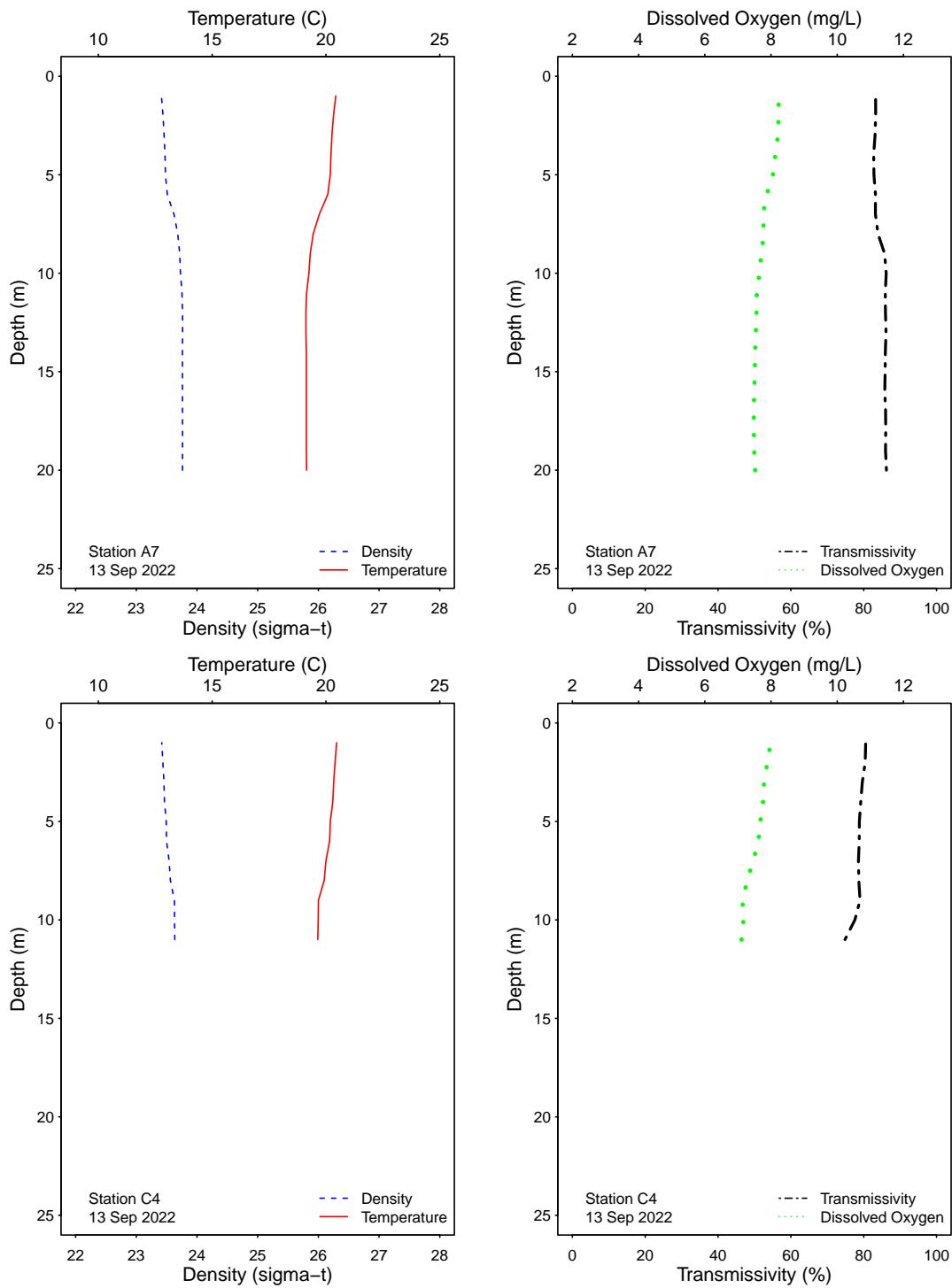


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

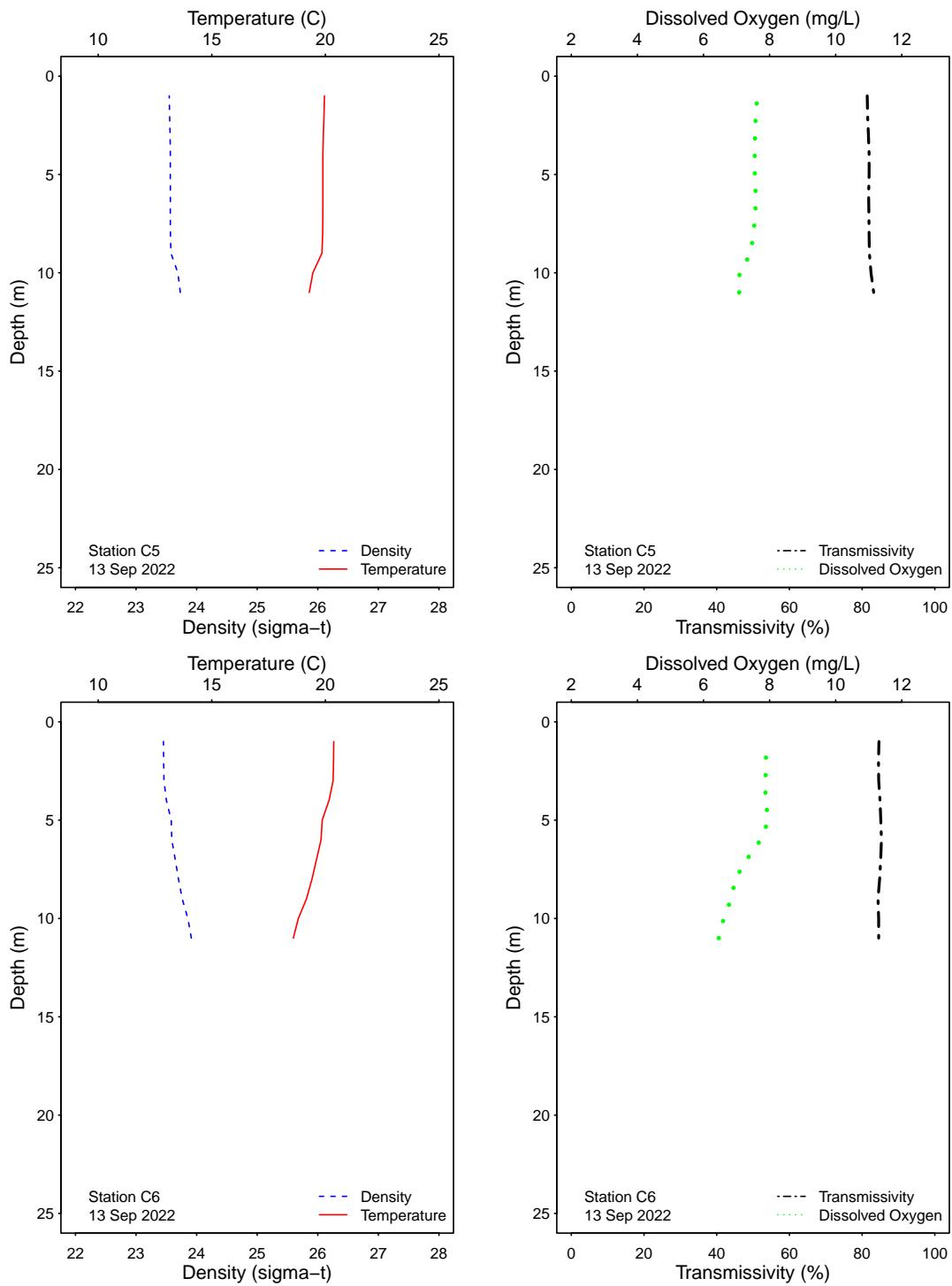


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

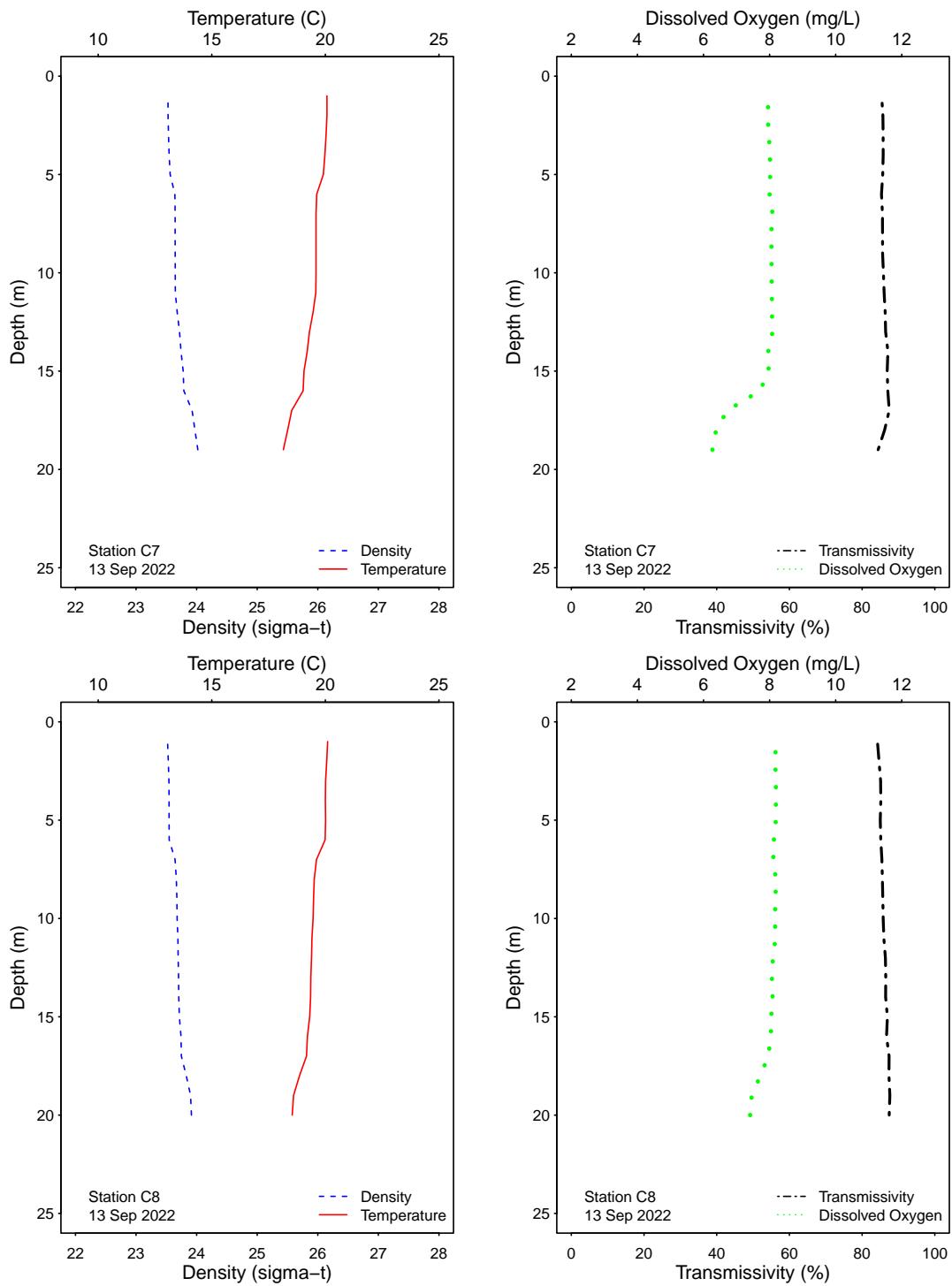


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

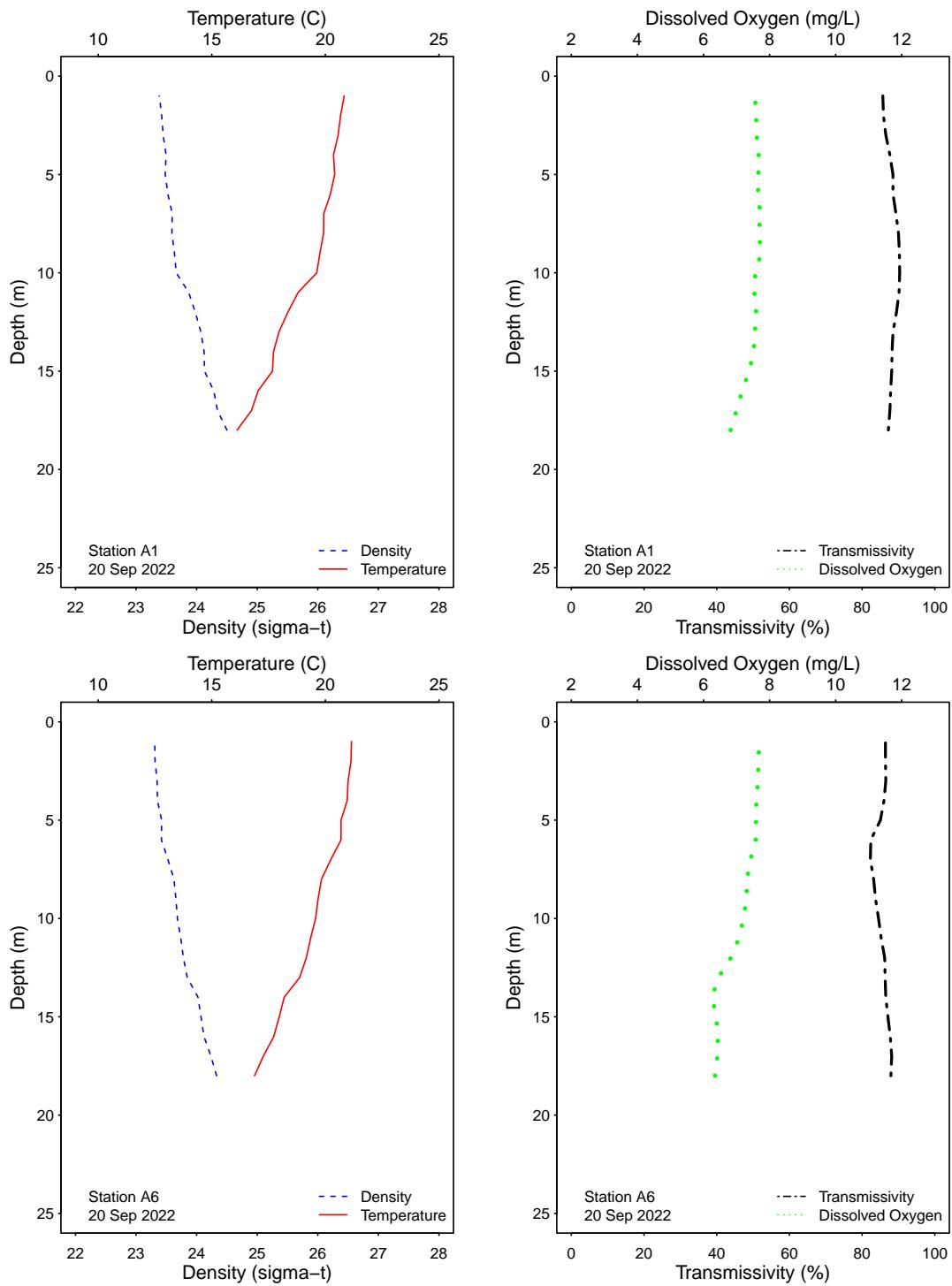


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

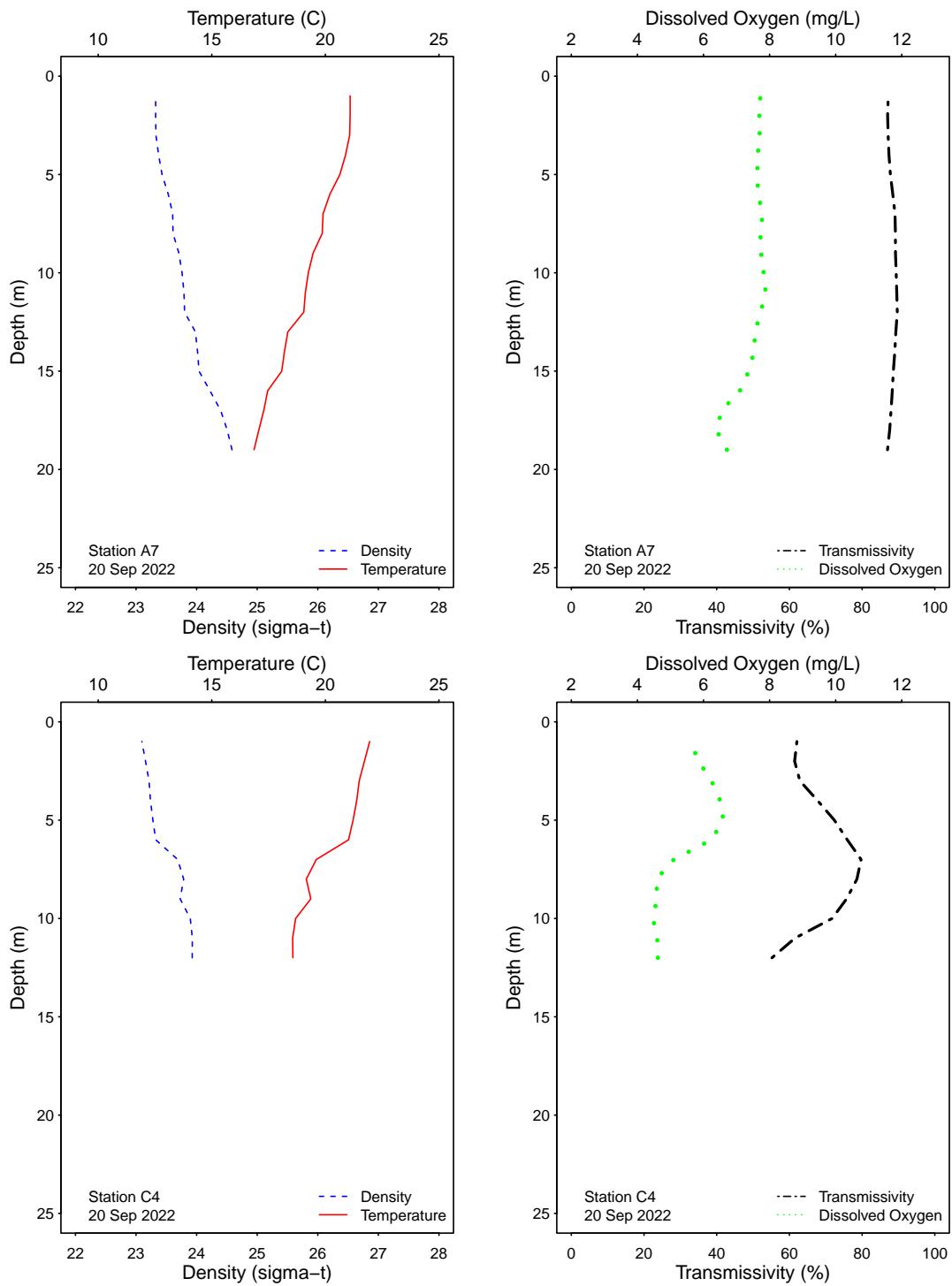


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

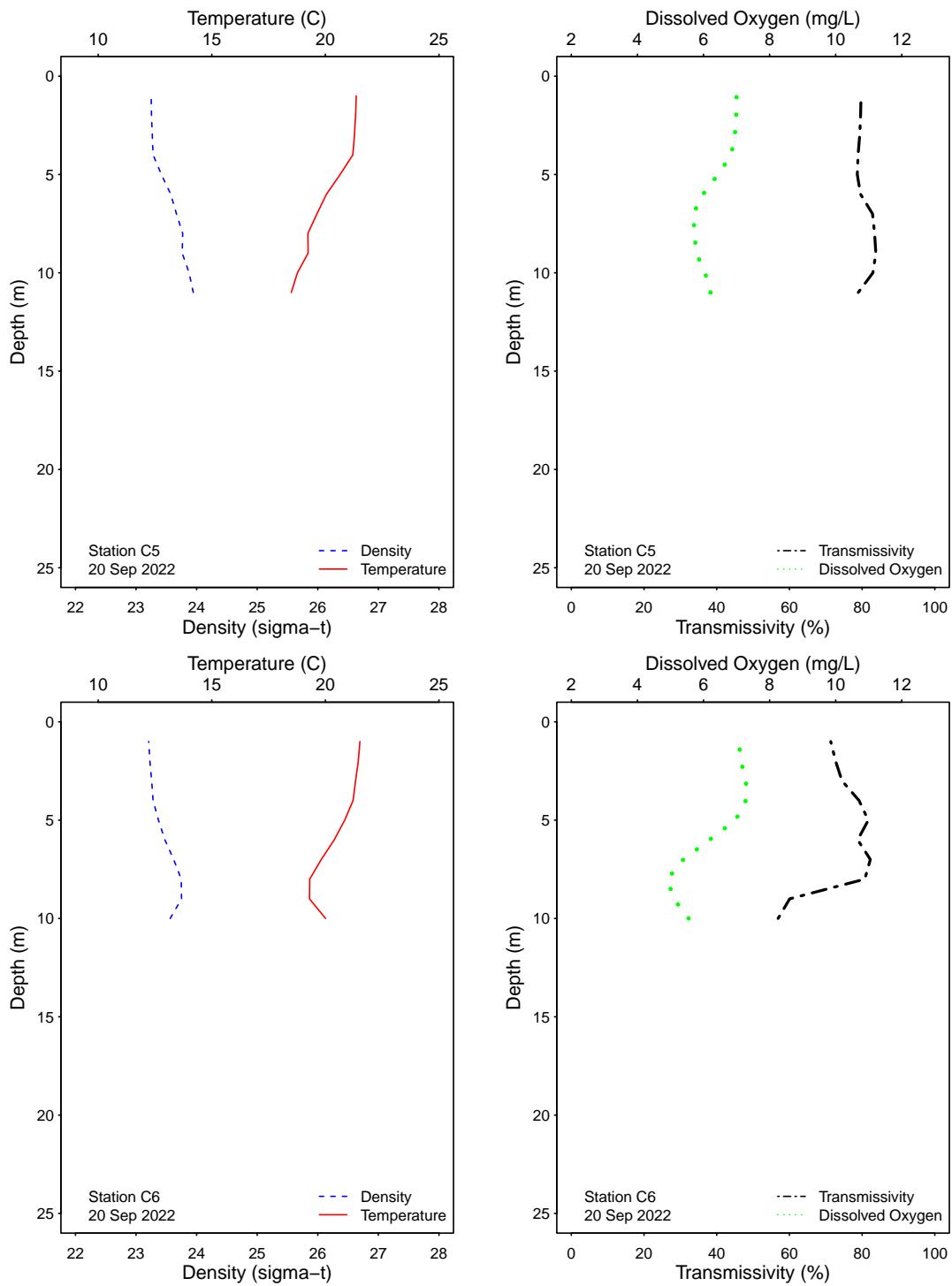


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

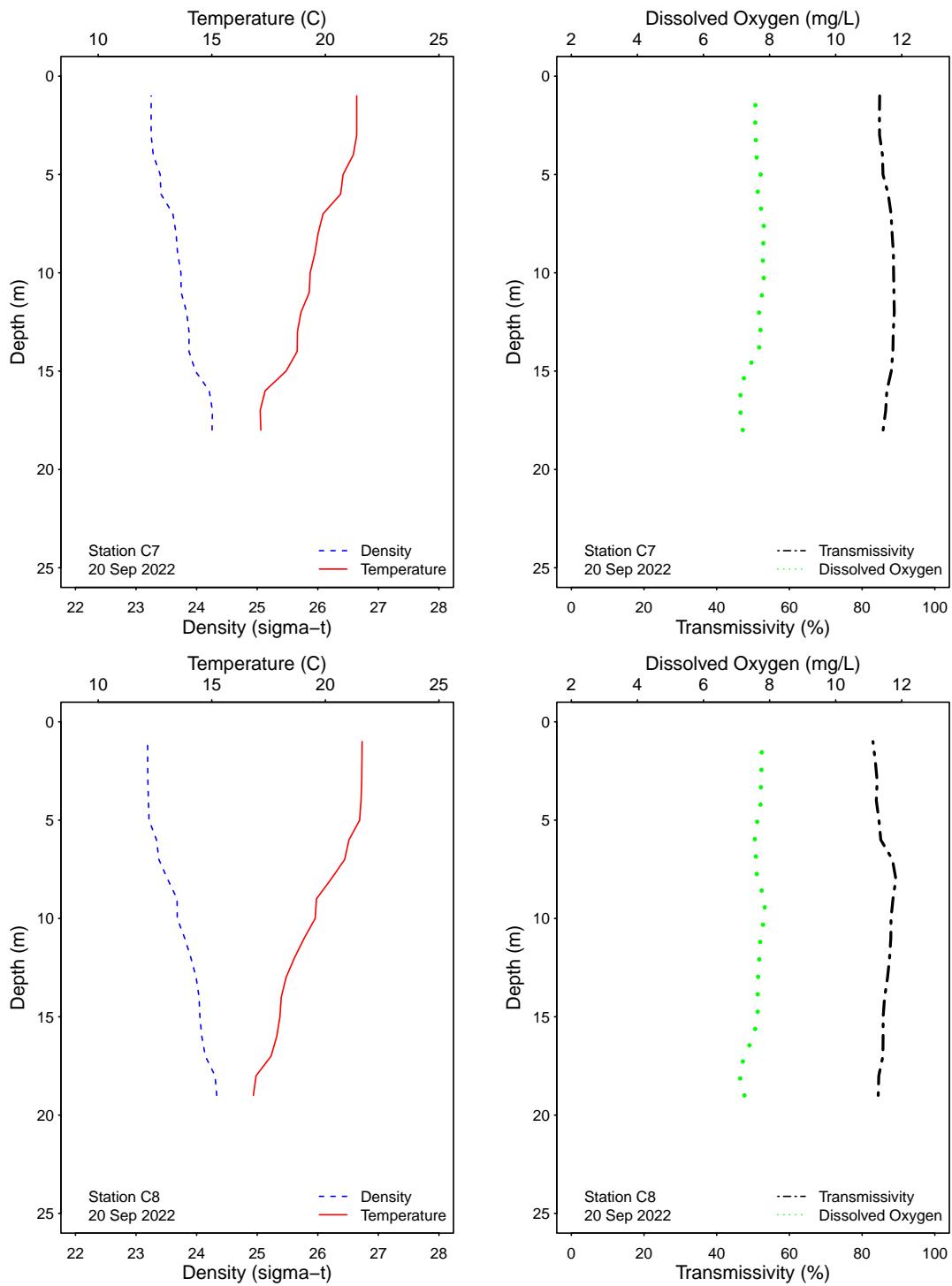


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

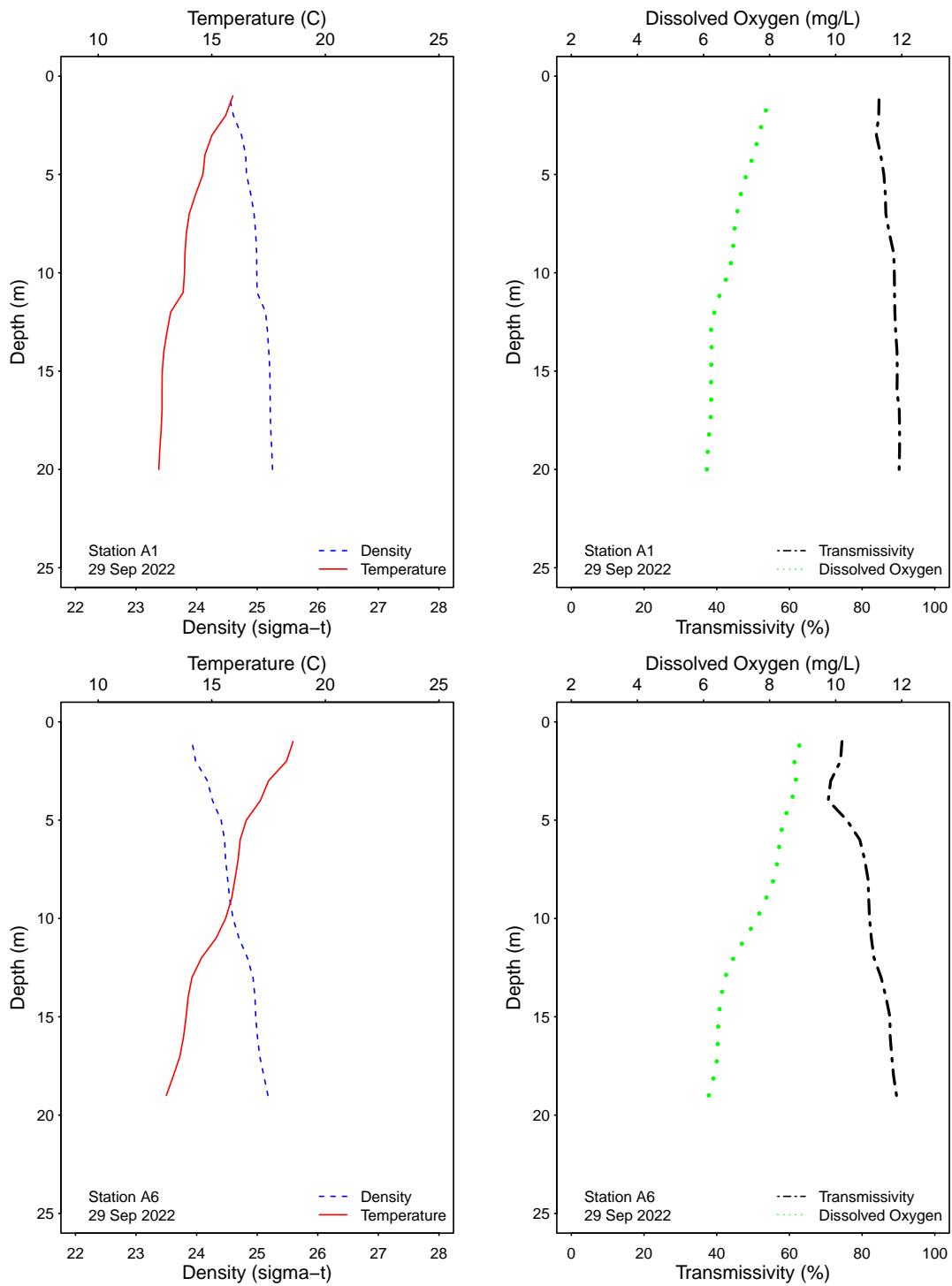


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

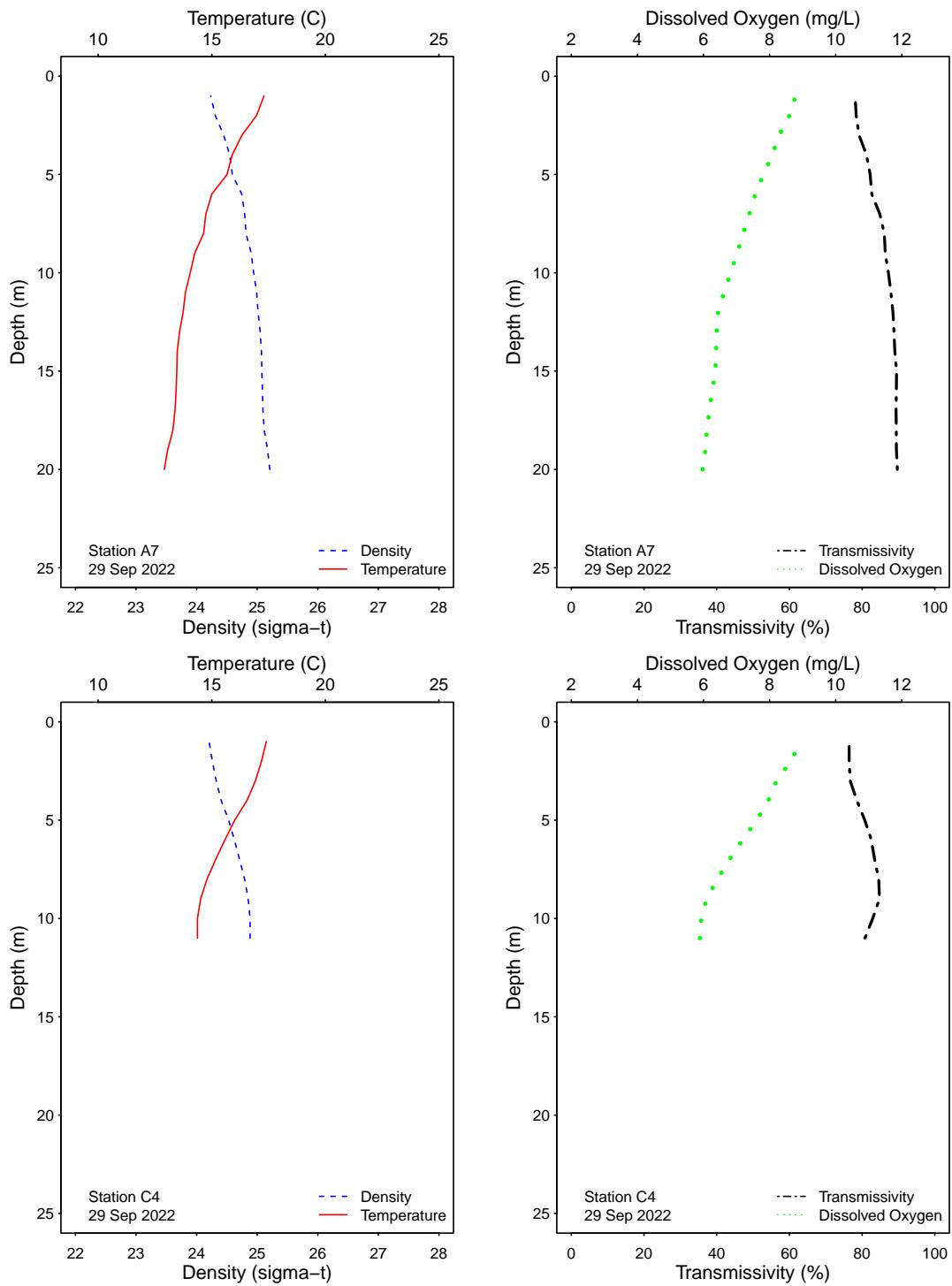


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

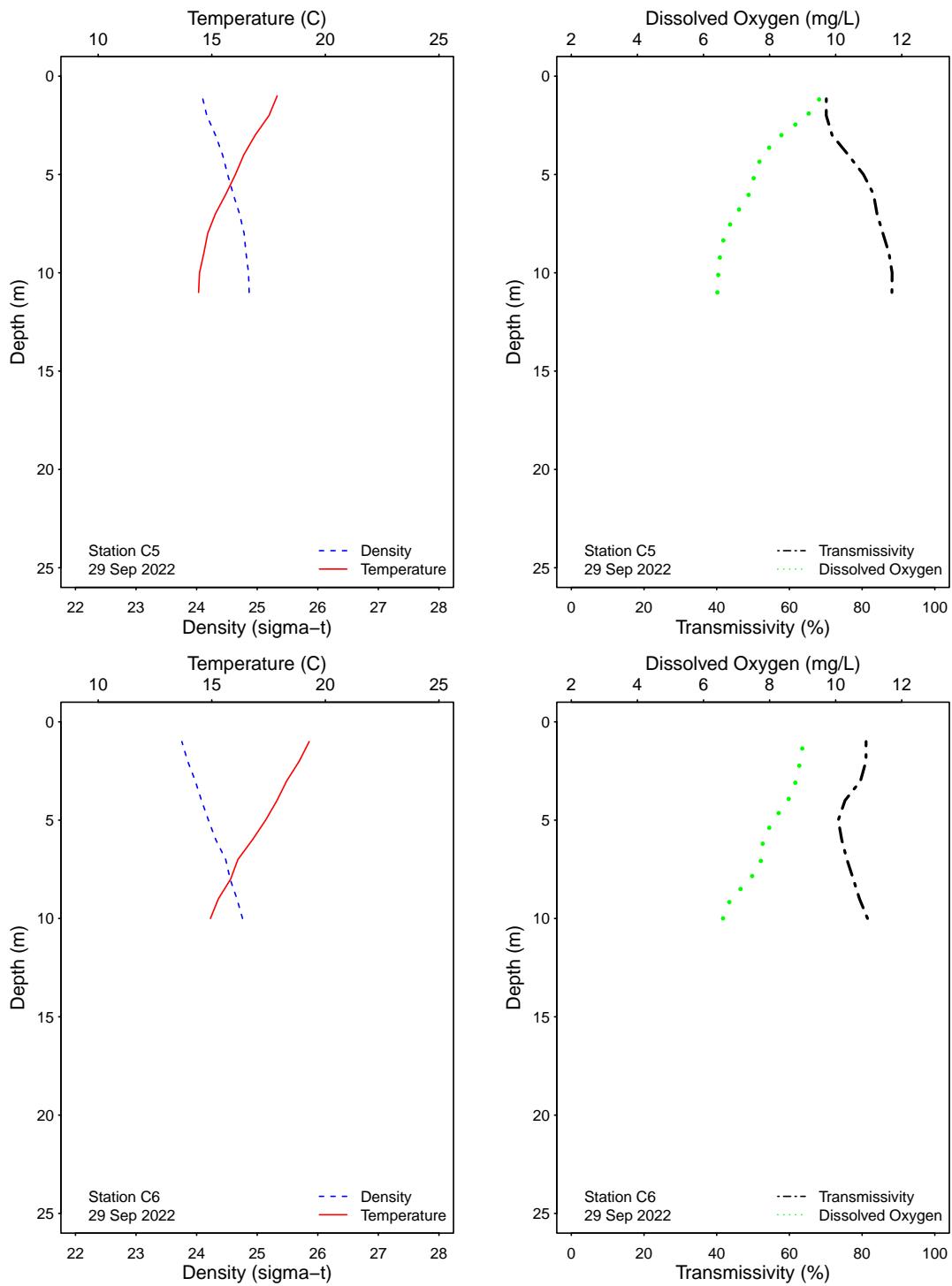


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

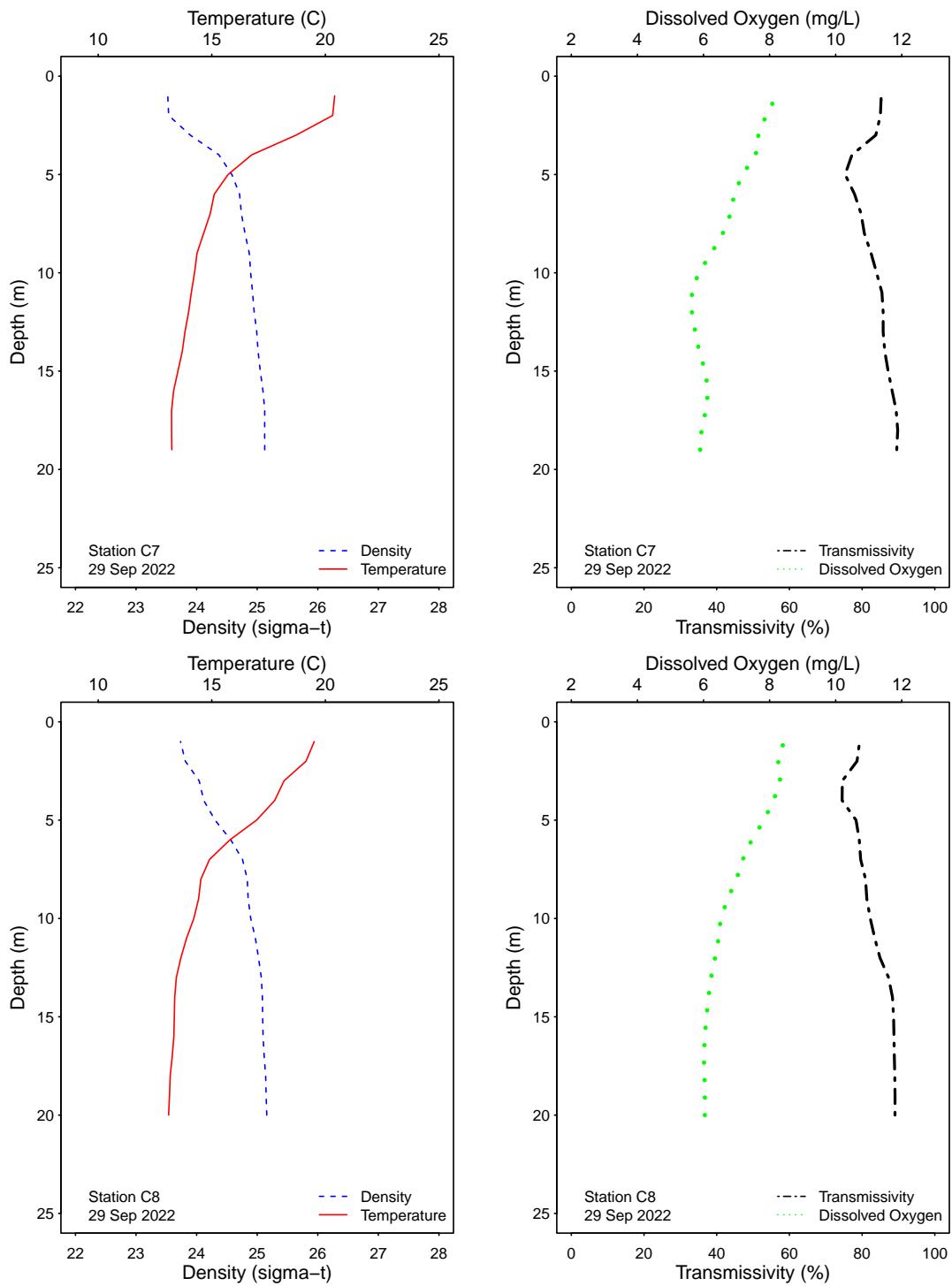


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

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* (Enter) are reported as CFU/100 mL.

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Enter
A7	07 Sep 2022	18	KA	LAB DUPLICATE	<2	<2	<2
A7	13 Sep 2022	18	JF	LAB DUPLICATE	<20	<2	<2
A7	20 Sep 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
A7	29 Sep 2022	18	KA	LAB DUPLICATE	14e	<2	<2
C7	07 Sep 2022	18	KA	LAB DUPLICATE	<2	<2	<2
C7	13 Sep 2022	18	JF	LAB DUPLICATE	<20	<2	<2
C7	20 Sep 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
C7	29 Sep 2022	18	KA	LAB DUPLICATE	8e	<2	<2
C8	07 Sep 2022	12	KA	LAB DUPLICATE	20e	<2	<2
C8	13 Sep 2022	12	JF	LAB DUPLICATE	12e	<2	<2
C8	20 Sep 2022	12	CRE	LAB DUPLICATE	<2	<2	<2
C8	29 Sep 2022	12	KA	LAB DUPLICATE	4e	<2	<2
D12	07 Sep 2022		KT	FIELD DUPLICATE	<200	<2	<2
D12	07 Sep 2022		KT	LAB DUPLICATE	<200	2e	<2
D12	14 Sep 2022		JF	FIELD DUPLICATE	600e	92	80e
D12	14 Sep 2022		JF	LAB DUPLICATE	60e	110	82
D12	21 Sep 2022		KT	FIELD DUPLICATE	<20	<2	<2
D12	21 Sep 2022		KT	LAB DUPLICATE	<20	<2	<2
D12	28 Sep 2022		CRE	FIELD DUPLICATE	20e	6e	18e
D12	28 Sep 2022		CRE	LAB DUPLICATE	60e	12e	46

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 Jul 2022	2	2	2	4	2	2	6	2
02 Jul 2022	2	2	2	4	2	2	6	2
03 Jul 2022	2	2	2	4	2	2	6	2
04 Jul 2022	2	2	2	4	2	2	6	2
05 Jul 2022	2	2	2	4	2	2	6	2
06 Jul 2022	2	2	2	4	2	2	11	2
07 Jul 2022	2	2	2	4	2	2	10	2
08 Jul 2022	2	2	2	4	2	2	10	2
09 Jul 2022	2	2	2	4	2	2	10	2
10 Jul 2022	2	2	2	4	2	2	10	2
11 Jul 2022	2	2	2	4	2	2	10	2
12 Jul 2022	2	2	2	4	2	2	10	2
13 Jul 2022	3	2	4	3	2	2	12	2
14 Jul 2022	3	2	4	3	2	2	12	2
15 Jul 2022	3	2	4	3	2	2	12	2
16 Jul 2022	3	2	4	3	2	2	12	2
17 Jul 2022	3	2	4	3	2	2	12	2
18 Jul 2022	3	2	4	3	2	2	12	2
19 Jul 2022	3	2	4	3	2	2	12	2
20 Jul 2022	3	2	4	3	2	2	7	2
21 Jul 2022	3	2	4	3	2	2	7	2
22 Jul 2022	3	2	4	3	2	2	6	2
23 Jul 2022	3	2	4	3	2	2	6	2
24 Jul 2022	3	2	4	3	2	2	6	2
25 Jul 2022	3	2	4	3	2	2	6	2
26 Jul 2022	3	2	4	3	2	2	6	2
27 Jul 2022	3	2	5	2	2	2	6	3
28 Jul 2022	3	2	5	2	2	2	6	3
29 Jul 2022	3	2	5	2	2	2	6	3
30 Jul 2022	3	2	5	2	2	2	6	3
31 Jul 2022	3	2	5	2	2	2	6	3

* 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
July	IC	IC	IC	IC	IC	IC	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table B.3

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Jul 2022	8	20	20	20	20	70	30	12
02 Jul 2022	8	20	20	20	20	70	30	12
03 Jul 2022	8	20	20	20	20	70	30	12
04 Jul 2022	8	20	20	20	20	70	30	12
05 Jul 2022	8	20	20	20	20	70	30	12
06 Jul 2022	14	20	20	20	20	60	40	20
07 Jul 2022	14	20	20	20	20	60	40	20
08 Jul 2022	14	11	20	20	20	54	30	20
09 Jul 2022	14	11	20	20	20	54	30	20
10 Jul 2022	14	11	20	20	20	54	30	20
11 Jul 2022	14	11	20	20	20	54	30	20
12 Jul 2022	14	11	20	20	20	54	30	20
13 Jul 2022	14	20	20	20	20	48	20	20
14 Jul 2022	14	20	20	20	20	48	20	20
15 Jul 2022	17	11	40	20	16	34	30	20
16 Jul 2022	17	11	40	20	16	34	30	20
17 Jul 2022	17	11	40	20	16	34	30	20
18 Jul 2022	17	11	40	20	16	34	30	20
19 Jul 2022	17	11	40	20	16	34	30	20
20 Jul 2022	20	20	20	20	16	20	28	20
21 Jul 2022	20	20	20	20	16	20	28	20
22 Jul 2022	20	11	40	20	14	34	24	12
23 Jul 2022	20	11	40	20	14	34	24	12
24 Jul 2022	20	11	40	20	14	34	24	12
25 Jul 2022	20	11	40	20	14	34	24	12
26 Jul 2022	20	11	40	20	14	34	24	12
27 Jul 2022	20	20	60	20	16	20	20	20
28 Jul 2022	20	20	60	20	16	20	20	20
29 Jul 2022	20	20	110	30	14	20	24	20
30 Jul 2022	20	20	110	30	14	20	24	20
31 Jul 2022	20	20	110	30	14	20	24	20

* Median calculated using n<5

Table B.4

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Kelp Stations

Table B.5

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the PLOO 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 Jul 2022	2	2	2	2	2	2	2	2
02 Jul 2022	2	2	2	2	2	2	2	2
03 Jul 2022	2	2	2	2	2	2	2	2
04 Jul 2022	2	2	2	2	2	2	2	2
05 Jul 2022	2	2	2	2	2	2	2	2
06 Jul 2022	2	2	2	2	2	2	2	2
07 Jul 2022	2	2	2	2	2	2	2	2
08 Jul 2022	2	2	2	2	2	2	2	2
09 Jul 2022	2	2	2	2	2	2	2	2
10 Jul 2022	2	2	2	2	2	2	2	2
11 Jul 2022	2	2	2	2	2	2	2	2
12 Jul 2022	2	2	2	2	2	2	2	2
13 Jul 2022	2	2	2	2	2	2	2	2
14 Jul 2022	2	2	2	2	2	2	2	2
15 Jul 2022	2	2	2	2	2	2	2	2
16 Jul 2022	2	2	2	2	2	2	2	2
17 Jul 2022	2	2	2	2	2	2	2	2
18 Jul 2022	2	2	2	2	2	2	2	2
19 Jul 2022	2	2	2	2	2	2	2	2
20 Jul 2022	2	2	2	2	2	2	2	2
21 Jul 2022	2	2	2	2	2	2	2	2
22 Jul 2022	2	2	2	2	2	2	2	2
23 Jul 2022	2	2	2	2	2	2	2	2
24 Jul 2022	2	2	2	2	2	2	2	2
25 Jul 2022	2	2	2	2	2	2	2	2
26 Jul 2022	2	2	2	2	2	2	2	2
27 Jul 2022	2	2	2	2	2	2	2	2
28 Jul 2022	2	2	2	2	2	2	2	2
29 Jul 2022	2	2	2	2	2	2	2	2
30 Jul 2022	2	2	2	2	2	2	2	2
31 Jul 2022	2	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table B.6

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
July	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 PLCO 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 $n \leq 5$

Table B.8

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10 IC = In Compliance E = Exceedance ns = not sampled ND = no data

Date	A1	A2	A3	A4	A5	A6	A7	A8	C4	C5	C6	C7	C8
July	IC	IC	IC	IC	IC	12m	18m	1m	12m	18m	1m	3m	9m
									IC	IC	IC	1m	12m
									IC	IC	IC	18m	18m
									IC	IC	IC	IC	IC