



POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

**POINT LOMA
WASTEWATER TREATMENT PLANT**

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

MAY 2023

Environmental Monitoring and Technical Services
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Public Utilities Department
Environmental Monitoring & Technical Services Division

June 30, 2023

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the May 2023 Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2017-0007, NPDES Permit No. CA0107409.

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

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

Sincerely,

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 2020.

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 2015 California Ocean Plan. The seven standards are defined as follows:

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

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

Single Sample Maximums:

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2023 Quality Assurance Report, which will be completed in March 2024.

SUMMARY OF RESULTS

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

Shore Stations

- The eight shore stations (D4, D5, D7, D8-B, D9, D10, D11, D12) were sampled on May 3, 10, 17, and 24.
- During the May report period, each of the eight shore stations were in compliance with 2015 California Ocean Plan (Ocean Plan) water contact standards.
- A sewage-like odor was observed at station D5 on one or more days in May.
- 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 May 2, 9, 15, and 22.
- During the May report period, each of the eight kelp bed stations was in compliance with the various 2015 Ocean Plan water contact standards.

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

- Water column temperatures ranged from 11.01 to 17.14°C. The difference between surface and bottom waters ranged from 2.14 to 5.27°C.
- Chlorophyll *a* concentrations ranged from 0.34 to 8.64 µg/L.
- Nothing of sewage origin was observed at any of the PLOO kelp stations in May.

Offshore Stations

- Quarterly offshore water quality sampling was conducted on May 23, 24, and 25.
- During the May report period, two of the 15 offshore stations located within State jurisdictional waters (i.e., F01–F03, F06–F14, F18–F20) were out of compliance with the various 2015 Ocean Plan water contact standards on one or more days as follows:
 - The Single Sample Maximum standard for *Enterococcus* was exceeded at stations F19 and F20.
- Of the remaining 21 offshore stations, elevated densities of *Enterococcus* bacteria (i.e., <104 CFU/100 mL) were detected at stations F21, F25, F30, and F32 at depths \geq 80 meters.
- Water column temperatures ranged from 10.06 to 17.54°C. The difference between surface and bottom waters ranged from 1.43 to 7.47°C.
- Chlorophyll *a* concentrations ranged from 0.16 to 8.35 µg/L at the offshore stations.
- Nothing of sewage origin was observed at any of the PLOO offshore stations.
- CDOM data are available upon request.



TABLES AND FIGURES

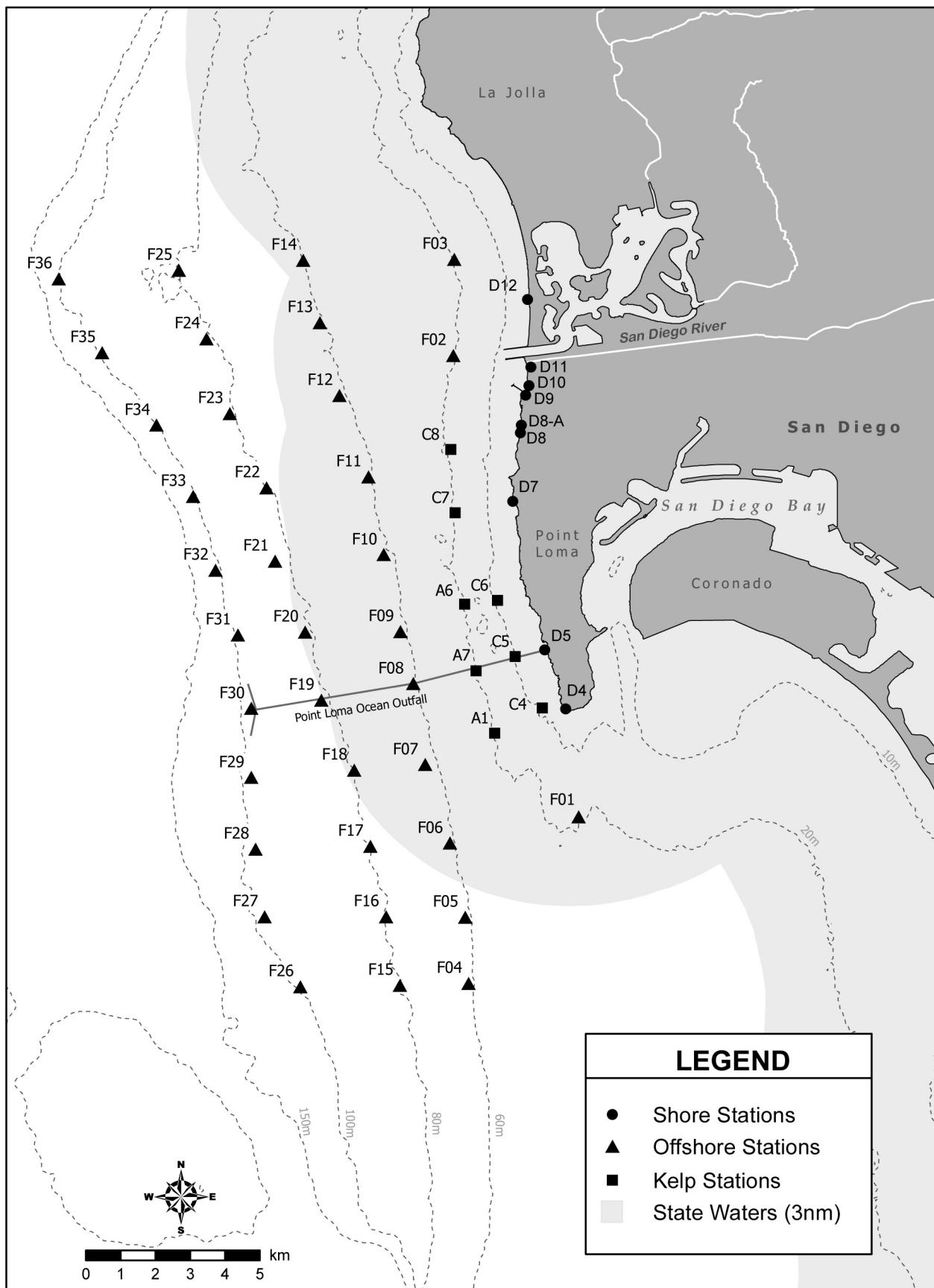


Figure 1.1 Station Map

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 May 2023	6	20	20	26	36	159	130	11
02 May 2023	6	20	20	26	36	159	130	11
03 May 2023	5	20	20	18	23	105	90	13
04 May 2023	5	20	20	18	23	105	90	13
05 May 2023	4	20	20	13	13	106	110	20
06 May 2023	4	20	20	13	13	106	110	20
07 May 2023	4	20	20	13	13	106	110	20
08 May 2023	4	20	20	13	13	106	110	20
09 May 2023	4	20	20	13	13	106	110	20
10 May 2023	4	20	32	14	20	121	124	32
11 May 2023	4	20	32	14	20	121	124	32
12 May 2023	4	20	63	13	20	112	63	63
13 May 2023	4	20	63	13	20	112	63	63
14 May 2023	4	20	63	13	20	112	63	63
15 May 2023	4	20	63	13	20	112	63	63
16 May 2023	4	20	63	13	20	112	63	63
17 May 2023	4	20	50	14	20	80	50	32
18 May 2023	4	20	50	14	20	80	50	32
19 May 2023	2	20	63	13	20	63	63	36
20 May 2023	2	20	63	13	20	63	63	36
21 May 2023	2	20	63	13	20	63	63	36
22 May 2023	2	20	63	13	20	63	63	36
23 May 2023	2	20	63	13	20	63	63	36
24 May 2023	2	32	50	14	20	50	99	20
25 May 2023	2	32	50	14	20	50	99	20
26 May 2023	2	36	36	13	20	36	83	11
27 May 2023	2	36	36	13	20	36	83	11
28 May 2023	2	36	36	13	20	36	83	11
29 May 2023	2	36	36	13	20	36	83	11
30 May 2023	2	36	36	13	20	36	83	11

* 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 May 2023	2	4	2	5	7	18	28	3
02 May 2023	2	4	2	5	7	18	28	3
03 May 2023	2	4	2	4	5	15	16	3
04 May 2023	2	4	2	4	5	15	16	3
05 May 2023	2	2	2	3	4	16	20	3
06 May 2023	2	2	2	3	4	16	20	3
07 May 2023	2	2	2	3	4	16	20	3
08 May 2023	2	2	2	3	4	16	20	3
09 May 2023	2	2	2	3	4	16	20	3
10 May 2023	2	2	2	3	5	17	20	3
11 May 2023	2	2	2	3	5	17	20	3
12 May 2023	2	2	2	3	4	13	13	2
13 May 2023	2	2	2	3	4	13	13	2
14 May 2023	2	2	2	3	4	13	13	2
15 May 2023	2	2	2	3	4	13	13	2
16 May 2023	2	2	2	3	4	13	13	2
17 May 2023	2	2	2	3	4	11	13	2
18 May 2023	2	2	2	3	4	11	13	2
19 May 2023	2	2	2	2	4	11	11	2
20 May 2023	2	2	2	2	4	11	11	2
21 May 2023	2	2	2	2	4	11	11	2
22 May 2023	2	2	2	2	4	11	11	2
23 May 2023	2	2	2	2	4	11	11	2
24 May 2023	2	2	2	2	4	9	16	2
25 May 2023	2	2	2	2	4	9	16	2
26 May 2023	2	2	2	3	5	8	13	2
27 May 2023	2	2	2	3	5	8	13	2
28 May 2023	2	2	2	3	5	8	13	2
29 May 2023	2	2	2	3	5	8	13	2
30 May 2023	2	2	2	3	5	8	13	2

* 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 May 2023	2	2	8	6	2	7	9	2
02 May 2023	2	2	8	6	2	7	9	2
03 May 2023	2	2	6	5	3	6	7	2
04 May 2023	2	2	6	5	3	6	7	2
05 May 2023	2	2	5	2	3	5	8	2
06 May 2023	2	2	5	2	3	5	8	2
07 May 2023	2	2	5	2	3	5	8	2
08 May 2023	2	2	5	2	3	5	8	2
09 May 2023	2	2	5	2	3	5	8	2
10 May 2023	2	2	4	2	3	7	9	3
11 May 2023	2	2	4	2	3	7	9	3
12 May 2023	2	2	5	2	4	5	6	3
13 May 2023	2	2	5	2	4	5	6	3
14 May 2023	2	2	5	2	4	5	6	3
15 May 2023	2	2	5	2	4	5	6	3
16 May 2023	2	2	5	2	4	5	6	3
17 May 2023	2	2	4	2	4	5	8	3
18 May 2023	2	2	4	2	4	5	8	3
19 May 2023	2	2	4	2	4	6	12	3
20 May 2023	2	2	4	2	4	6	12	3
21 May 2023	2	2	4	2	4	6	12	3
22 May 2023	2	2	4	2	4	6	12	3
23 May 2023	2	2	4	2	4	6	12	3
24 May 2023	2	2	4	2	4	6	17	3
25 May 2023	2	2	4	2	4	6	17	3
26 May 2023	2	2	2	2	4	5	18	3
27 May 2023	2	2	2	2	4	5	18	3
28 May 2023	2	2	2	2	4	5	18	3
29 May 2023	2	2	2	2	4	5	18	3
30 May 2023	2	2	2	2	4	5	18	3

* 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
03 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
10 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
17 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
24 May 2023	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
03 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
10 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
17 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
24 May 2023	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.6

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
03 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
10 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
17 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
24 May 2023	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
03 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
10 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
17 May 2023	IC	IC	IC	IC	IC	IC	IC	IC
24 May 2023	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.8

Summary of water quality parameters at the PLOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (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	03 May 2023	943	<2	<2	<2	1.00
D4	10 May 2023	956	4e	<2	<2	0.50
D4	17 May 2023	1016	<2	<2	<2	1.00
D4	24 May 2023	900	<2	<2	<2	1.00
D5	03 May 2023	932	20e	<2	<2	0.10
D5	10 May 2023	935	<20	<2	<2	0.10
D5	17 May 2023	1002	<20	<2	<2	0.10
D5	24 May 2023	848	<200	<2	4e	0.01
D7	03 May 2023	905	<20	2e	<2	0.10
D7	10 May 2023	903	<200	<2	<2	0.01
D7	17 May 2023	930	<20	<2	2e	0.10
D7	24 May 2023	823	<20	<2	4e	0.10
D8-B	03 May 2023	853	4e	<2	2e	0.50
D8-B	10 May 2023	846	<20	<2	<2	0.10
D8-B	17 May 2023	912	20e	<2	<2	0.10
D8-B	24 May 2023	807	20e	6e	<2	0.30
D9	03 May 2023	839	4e	<2	4e	0.50
D9	10 May 2023	832	100e	12e	6e	0.12
D9	17 May 2023	853	<20	6e	6e	0.30
D9	24 May 2023	755	20e	4e	<2	0.20
D10	03 May 2023	828	20e	8e	2e	0.40
D10	10 May 2023	817	<200	18e	26e	0.09
D10	17 May 2023	833	20e	6e	4e	0.30
D10	24 May 2023	744	20e	4e	4e	0.20
D11	03 May 2023	817	20e	2e	2e	0.10
D11	10 May 2023	756	200e	20e	20e	0.10
D11	17 May 2023	820	20e	10e	30e	0.50
D11	24 May 2023	735	600e	62	80	0.10
D12	03 May 2023	800	20e	<2	4e	0.10
D12	10 May 2023	735	<200	4e	6e	0.02
D12	17 May 2023	801	2e	<2	2e	1.00
D12	24 May 2023	721	<2	<2	<2	1.00

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	03 May 2023	Arrive Time	943
D4	03 May 2023	Weather	Partly cloudy
D4	03 May 2023	Wind Speed (kts)	0
D4	03 May 2023	Wind Dir	
D4	03 May 2023	Animal Life	
D4	03 May 2023	Floatables	None
D4	03 May 2023	Water Color	Green
D4	03 May 2023	Current Direction	S
D4	03 May 2023	Water Temp (C)	10.8
D4	03 May 2023	Wave Height Low (ft)	2
D4	03 May 2023	High Tide (ft)	4.11
D4	03 May 2023	High Tide Time	829
D4	03 May 2023	Low Tide (ft)	0.3
D4	03 May 2023	Low Tide Time	240
D4	03 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D4	10 May 2023	Arrive Time	956
D4	10 May 2023	Weather	Partly cloudy
D4	10 May 2023	Wind Speed (kts)	5
D4	10 May 2023	Wind Dir	W
D4	10 May 2023	Animal Life	Bird-2;
D4	10 May 2023	Floatables	Foam
D4	10 May 2023	Water Color	Green
D4	10 May 2023	Current Direction	S
D4	10 May 2023	Water Temp (C)	13.2
D4	10 May 2023	Wave Height Low (ft)	4
D4	10 May 2023	High Tide (ft)	5.31
D4	10 May 2023	High Tide Time	2
D4	10 May 2023	Low Tide (ft)	-0.43
D4	10 May 2023	Low Tide Time	812
D4	10 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Had to sample further from sampling site due to low tide
D4	17 May 2023	Arrive Time	1020
D4	17 May 2023	Weather	Drizzle
D4	17 May 2023	Wind Speed (kts)	1.967
D4	17 May 2023	Wind Dir	NW
D4	17 May 2023	Animal Life	
D4	17 May 2023	Floatables	None
D4	17 May 2023	Water Color	Green
D4	17 May 2023	Current Direction	S
D4	17 May 2023	Water Temp (C)	11.2
D4	17 May 2023	Wave Height Low (ft)	4
D4	17 May 2023	High Tide (ft)	4.05
D4	17 May 2023	High Tide Time	831
D4	17 May 2023	Low Tide (ft)	-0.27
D4	17 May 2023	Low Tide Time	238
D4	17 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D4	24 May 2023	Arrive Time	900
D4	24 May 2023	Weather	Foggy
D4	24 May 2023	Wind Speed (kts)	2.3
D4	24 May 2023	Wind Dir	SW
D4	24 May 2023	Animal Life	Bird-3;
D4	24 May 2023	Floatables	None
D4	24 May 2023	Water Color	Green

Station	Date	Parameter	Value
D4	24 May 2023	Current Direction	S
D4	24 May 2023	Water Temp (C)	13
D4	24 May 2023	Wave Height Low (ft)	3
D4	24 May 2023	High Tide (ft)	3.04
D4	24 May 2023	High Tide Time	1502
D4	24 May 2023	Low Tide (ft)	0.13
D4	24 May 2023	Low Tide Time	740
D4	24 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	03 May 2023	Arrive Time	932
D5	03 May 2023	Weather	Partly cloudy
D5	03 May 2023	Wind Speed (kts)	0
D5	03 May 2023	Wind Dir	
D5	03 May 2023	Animal Life	
D5	03 May 2023	Floatables	None
D5	03 May 2023	Water Color	Green
D5	03 May 2023	Current Direction	S
D5	03 May 2023	Water Temp (C)	11
D5	03 May 2023	Wave Height Low (ft)	1
D5	03 May 2023	High Tide (ft)	4.11
D5	03 May 2023	High Tide Time	829
D5	03 May 2023	Low Tide (ft)	0.3
D5	03 May 2023	Low Tide Time	240
D5	03 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	10 May 2023	Arrive Time	935
D5	10 May 2023	Weather	Partly cloudy
D5	10 May 2023	Wind Speed (kts)	5.9
D5	10 May 2023	Wind Dir	W
D5	10 May 2023	Animal Life	
D5	10 May 2023	Floatables	None
D5	10 May 2023	Water Color	Green
D5	10 May 2023	Current Direction	S
D5	10 May 2023	Water Temp (C)	12.9
D5	10 May 2023	Wave Height Low (ft)	3
D5	10 May 2023	High Tide (ft)	5.31
D5	10 May 2023	High Tide Time	2
D5	10 May 2023	Low Tide (ft)	-0.43
D5	10 May 2023	Low Tide Time	812
D5	10 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	17 May 2023	Arrive Time	1002
D5	17 May 2023	Weather	Drizzle
D5	17 May 2023	Wind Speed (kts)	2
D5	17 May 2023	Wind Dir	NW
D5	17 May 2023	Animal Life	
D5	17 May 2023	Floatables	None
D5	17 May 2023	Water Color	Green
D5	17 May 2023	Current Direction	S
D5	17 May 2023	Water Temp (C)	12.9
D5	17 May 2023	Wave Height Low (ft)	4
D5	17 May 2023	High Tide (ft)	4.05
D5	17 May 2023	High Tide Time	831
D5	17 May 2023	Low Tide (ft)	-0.27
D5	17 May 2023	Low Tide Time	238
D5	17 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	24 May 2023	Arrive Time	848
D5	24 May 2023	Weather	Foggy
D5	24 May 2023	Wind Speed (kts)	1.2
D5	24 May 2023	Wind Dir	W

Station	Date	Parameter	Value
D5	24 May 2023	Animal Life	
D5	24 May 2023	Floatables	Foam
D5	24 May 2023	Water Color	Green
D5	24 May 2023	Current Direction	S
D5	24 May 2023	Water Temp (C)	12.6
D5	24 May 2023	Wave Height Low (ft)	3
D5	24 May 2023	High Tide (ft)	3.04
D5	24 May 2023	High Tide Time	1502
D5	24 May 2023	Low Tide (ft)	0.13
D5	24 May 2023	Low Tide Time	740
D5	24 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Sewage-like odor
D7	03 May 2023	Arrive Time	905
D7	03 May 2023	Weather	Partly cloudy
D7	03 May 2023	Wind Speed (kts)	0.6
D7	03 May 2023	Wind Dir	NW
D7	03 May 2023	Animal Life	
D7	03 May 2023	Floatables	None
D7	03 May 2023	Water Color	Green
D7	03 May 2023	Current Direction	S
D7	03 May 2023	Water Temp (C)	11.4
D7	03 May 2023	Wave Height Low (ft)	2
D7	03 May 2023	High Tide (ft)	4.11
D7	03 May 2023	High Tide Time	829
D7	03 May 2023	Low Tide (ft)	0.3
D7	03 May 2023	Low Tide Time	240
D7	03 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-1
D7	10 May 2023	Arrive Time	903
D7	10 May 2023	Weather	Partly cloudy
D7	10 May 2023	Wind Speed (kts)	4.8
D7	10 May 2023	Wind Dir	W
D7	10 May 2023	Animal Life	Bird-2;
D7	10 May 2023	Floatables	None
D7	10 May 2023	Water Color	Green
D7	10 May 2023	Current Direction	S
D7	10 May 2023	Water Temp (C)	13.3
D7	10 May 2023	Wave Height Low (ft)	4
D7	10 May 2023	High Tide (ft)	5.31
D7	10 May 2023	High Tide Time	2
D7	10 May 2023	Low Tide (ft)	-0.43
D7	10 May 2023	Low Tide Time	812
D7	10 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-3
D7	17 May 2023	Arrive Time	930
D7	17 May 2023	Weather	Drizzle
D7	17 May 2023	Wind Speed (kts)	5.2
D7	17 May 2023	Wind Dir	NW
D7	17 May 2023	Animal Life	
D7	17 May 2023	Floatables	None
D7	17 May 2023	Water Color	Green
D7	17 May 2023	Current Direction	S
D7	17 May 2023	Water Temp (C)	13.7
D7	17 May 2023	Wave Height Low (ft)	4
D7	17 May 2023	High Tide (ft)	4.05
D7	17 May 2023	High Tide Time	831
D7	17 May 2023	Low Tide (ft)	-0.27
D7	17 May 2023	Low Tide Time	238

Station	Date	Parameter	Value
D7	17 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
D7	24 May 2023	Arrive Time	823
D7	24 May 2023	Weather	Drizzle
D7	24 May 2023	Wind Speed (kts)	0
D7	24 May 2023	Wind Dir	NW
D7	24 May 2023	Animal Life	Bird-1;
D7	24 May 2023	Floatables	None
D7	24 May 2023	Water Color	Green
D7	24 May 2023	Current Direction	S
D7	24 May 2023	Water Temp (C)	14.2
D7	24 May 2023	Wave Height Low (ft)	3
D7	24 May 2023	High Tide (ft)	3.04
D7	24 May 2023	High Tide Time	1502
D7	24 May 2023	Low Tide (ft)	0.13
D7	24 May 2023	Low Tide Time	740
D7	24 May 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae; Person/Walker/Jogger-3
D8-B	03 May 2023	Arrive Time	853
D8-B	03 May 2023	Weather	Partly cloudy
D8-B	03 May 2023	Wind Speed (kts)	1.6
D8-B	03 May 2023	Wind Dir	N
D8-B	03 May 2023	Animal Life	
D8-B	03 May 2023	Floatables	None
D8-B	03 May 2023	Water Color	Green
D8-B	03 May 2023	Current Direction	S
D8-B	03 May 2023	Water Temp (C)	12.9
D8-B	03 May 2023	Wave Height Low (ft)	4
D8-B	03 May 2023	High Tide (ft)	4.11
D8-B	03 May 2023	High Tide Time	829
D8-B	03 May 2023	Low Tide (ft)	0.3
D8-B	03 May 2023	Low Tide Time	240
D8-B	03 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D8-B	10 May 2023	Arrive Time	846
D8-B	10 May 2023	Weather	Partly cloudy
D8-B	10 May 2023	Wind Speed (kts)	6.1
D8-B	10 May 2023	Wind Dir	W
D8-B	10 May 2023	Animal Life	Bird-2;
D8-B	10 May 2023	Floatables	None
D8-B	10 May 2023	Water Color	Green
D8-B	10 May 2023	Current Direction	S
D8-B	10 May 2023	Water Temp (C)	13
D8-B	10 May 2023	Wave Height Low (ft)	3
D8-B	10 May 2023	High Tide (ft)	5.31
D8-B	10 May 2023	High Tide Time	2
D8-B	10 May 2023	Low Tide (ft)	-0.43
D8-B	10 May 2023	Low Tide Time	812
D8-B	10 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D8-B	17 May 2023	Arrive Time	912
D8-B	17 May 2023	Weather	Drizzle
D8-B	17 May 2023	Wind Speed (kts)	0
D8-B	17 May 2023	Wind Dir	NW
D8-B	17 May 2023	Animal Life	
D8-B	17 May 2023	Floatables	None
D8-B	17 May 2023	Water Color	Green
D8-B	17 May 2023	Current Direction	S
D8-B	17 May 2023	Water Temp (C)	13.7

Station	Date	Parameter	Value
D8-B	17 May 2023	Wave Height Low (ft)	4
D8-B	17 May 2023	High Tide (ft)	4.05
D8-B	17 May 2023	High Tide Time	831
D8-B	17 May 2023	Low Tide (ft)	-0.27
D8-B	17 May 2023	Low Tide Time	238
D8-B	17 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D8-B	24 May 2023	Arrive Time	807
D8-B	24 May 2023	Weather	Drizzle
D8-B	24 May 2023	Wind Speed (kts)	2
D8-B	24 May 2023	Wind Dir	NW
D8-B	24 May 2023	Animal Life	
D8-B	24 May 2023	Floatables	None
D8-B	24 May 2023	Water Color	Green
D8-B	24 May 2023	Current Direction	S
D8-B	24 May 2023	Water Temp (C)	13.4
D8-B	24 May 2023	Wave Height Low (ft)	4
D8-B	24 May 2023	High Tide (ft)	3.04
D8-B	24 May 2023	High Tide Time	1502
D8-B	24 May 2023	Low Tide (ft)	0.13
D8-B	24 May 2023	Low Tide Time	740
D8-B	24 May 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae;Debris
D9	03 May 2023	Arrive Time	839
D9	03 May 2023	Weather	Partly cloudy
D9	03 May 2023	Wind Speed (kts)	0
D9	03 May 2023	Wind Dir	
D9	03 May 2023	Animal Life	
D9	03 May 2023	Floatables	None
D9	03 May 2023	Water Color	Green
D9	03 May 2023	Current Direction	S
D9	03 May 2023	Water Temp (C)	12.4
D9	03 May 2023	Wave Height Low (ft)	5
D9	03 May 2023	High Tide (ft)	4.11
D9	03 May 2023	High Tide Time	829
D9	03 May 2023	Low Tide (ft)	0.3
D9	03 May 2023	Low Tide Time	240
D9	03 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Person/Walker/Jogger-2
D9	10 May 2023	Arrive Time	832
D9	10 May 2023	Weather	Partly cloudy
D9	10 May 2023	Wind Speed (kts)	6.5
D9	10 May 2023	Wind Dir	W
D9	10 May 2023	Animal Life	Bird-2;
D9	10 May 2023	Floatables	Foam
D9	10 May 2023	Water Color	Green
D9	10 May 2023	Current Direction	S
D9	10 May 2023	Water Temp (C)	12.2
D9	10 May 2023	Wave Height Low (ft)	4
D9	10 May 2023	High Tide (ft)	5.31
D9	10 May 2023	High Tide Time	2
D9	10 May 2023	Low Tide (ft)	-0.43
D9	10 May 2023	Low Tide Time	812
D9	10 May 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae;Debris
D9	17 May 2023	Arrive Time	853
D9	17 May 2023	Weather	Drizzle
D9	17 May 2023	Wind Speed (kts)	2
D9	17 May 2023	Wind Dir	NW
D9	17 May 2023	Animal Life	

Station	Date	Parameter	Value
D9	17 May 2023	Floatables	None
D9	17 May 2023	Water Color	Green
D9	17 May 2023	Current Direction	S
D9	17 May 2023	Water Temp (C)	13.8
D9	17 May 2023	Wave Height Low (ft)	4
D9	17 May 2023	High Tide (ft)	4.05
D9	17 May 2023	High Tide Time	831
D9	17 May 2023	Low Tide (ft)	-0.27
D9	17 May 2023	Low Tide Time	238
D9	17 May 2023	Comments	Water clear; Trash-1; Kelp;Algae;Seagrass; Person/Walker/Jogger-1
D9	24 May 2023	Arrive Time	755
D9	24 May 2023	Weather	Drizzle
D9	24 May 2023	Wind Speed (kts)	2.3
D9	24 May 2023	Wind Dir	NW
D9	24 May 2023	Animal Life	
D9	24 May 2023	Floatables	None
D9	24 May 2023	Water Color	Green
D9	24 May 2023	Current Direction	S
D9	24 May 2023	Water Temp (C)	12.8
D9	24 May 2023	Wave Height Low (ft)	3
D9	24 May 2023	High Tide (ft)	3.04
D9	24 May 2023	High Tide Time	1502
D9	24 May 2023	Low Tide (ft)	0.13
D9	24 May 2023	Low Tide Time	740
D9	24 May 2023	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-4
D10	03 May 2023	Arrive Time	828
D10	03 May 2023	Weather	Partly cloudy
D10	03 May 2023	Wind Speed (kts)	2.7
D10	03 May 2023	Wind Dir	NE
D10	03 May 2023	Animal Life	
D10	03 May 2023	Floatables	None
D10	03 May 2023	Water Color	Green
D10	03 May 2023	Current Direction	S
D10	03 May 2023	Water Temp (C)	15.8
D10	03 May 2023	Wave Height Low (ft)	5
D10	03 May 2023	High Tide (ft)	4.11
D10	03 May 2023	High Tide Time	829
D10	03 May 2023	Low Tide (ft)	0.3
D10	03 May 2023	Low Tide Time	240
D10	03 May 2023	Comments	Water clear; Boogie boarder/Swimmer-2; Trash-1; Kelp;Seagrass;Algae
D10	10 May 2023	Arrive Time	817
D10	10 May 2023	Weather	Cloudy
D10	10 May 2023	Wind Speed (kts)	7.4
D10	10 May 2023	Wind Dir	W
D10	10 May 2023	Animal Life	
D10	10 May 2023	Floatables	None
D10	10 May 2023	Water Color	Green
D10	10 May 2023	Current Direction	S
D10	10 May 2023	Water Temp (C)	12.9
D10	10 May 2023	Wave Height Low (ft)	4
D10	10 May 2023	High Tide (ft)	5.31
D10	10 May 2023	High Tide Time	2
D10	10 May 2023	Low Tide (ft)	-0.43
D10	10 May 2023	Low Tide Time	812

Station	Date	Parameter	Value
D10	10 May 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D10	17 May 2023	Arrive Time	833
D10	17 May 2023	Weather	Drizzle
D10	17 May 2023	Wind Speed (kts)	2.9
D10	17 May 2023	Wind Dir	NW
D10	17 May 2023	Animal Life	Bird-2; Dog-1;
D10	17 May 2023	Floatables	None
D10	17 May 2023	Water Color	Green
D10	17 May 2023	Current Direction	S
D10	17 May 2023	Water Temp (C)	13.8
D10	17 May 2023	Wave Height Low (ft)	3
D10	17 May 2023	High Tide (ft)	4.05
D10	17 May 2023	High Tide Time	831
D10	17 May 2023	Low Tide (ft)	-0.27
D10	17 May 2023	Low Tide Time	238
D10	17 May 2023	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Kelp;Seagrass
D10	24 May 2023	Arrive Time	744
D10	24 May 2023	Weather	Drizzle
D10	24 May 2023	Wind Speed (kts)	5.5
D10	24 May 2023	Wind Dir	NW
D10	24 May 2023	Animal Life	Dog-1;
D10	24 May 2023	Floatables	None
D10	24 May 2023	Water Color	Green
D10	24 May 2023	Current Direction	S
D10	24 May 2023	Water Temp (C)	12.9
D10	24 May 2023	Wave Height Low (ft)	3
D10	24 May 2023	High Tide (ft)	3.04
D10	24 May 2023	High Tide Time	1502
D10	24 May 2023	Low Tide (ft)	0.13
D10	24 May 2023	Low Tide Time	740
D10	24 May 2023	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D11	03 May 2023	Arrive Time	817
D11	03 May 2023	Weather	Partly cloudy
D11	03 May 2023	Wind Speed (kts)	0
D11	03 May 2023	Wind Dir	
D11	03 May 2023	Animal Life	Dog-1;
D11	03 May 2023	Floatables	None
D11	03 May 2023	Water Color	Green
D11	03 May 2023	Current Direction	S
D11	03 May 2023	Water Temp (C)	14.9
D11	03 May 2023	Wave Height Low (ft)	3
D11	03 May 2023	High Tide (ft)	4.11
D11	03 May 2023	High Tide Time	829
D11	03 May 2023	Low Tide (ft)	0.3
D11	03 May 2023	Low Tide Time	240
D11	03 May 2023	Comments	Water clear; Boogie boarder/Swimmer-1; Trash-1; Kelp;Seagrass;Algae
D11	10 May 2023	Arrive Time	756
D11	10 May 2023	Weather	Cloudy
D11	10 May 2023	Wind Speed (kts)	7.7
D11	10 May 2023	Wind Dir	W
D11	10 May 2023	Animal Life	
D11	10 May 2023	Floatables	None
D11	10 May 2023	Water Color	Green

Station	Date	Parameter	Value
D11	10 May 2023	Current Direction	S
D11	10 May 2023	Water Temp (C)	11.7
D11	10 May 2023	Wave Height Low (ft)	3
D11	10 May 2023	High Tide (ft)	5.31
D11	10 May 2023	High Tide Time	2
D11	10 May 2023	Low Tide (ft)	-0.43
D11	10 May 2023	Low Tide Time	812
D11	10 May 2023	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris; -1
D11	17 May 2023	Arrive Time	820
D11	17 May 2023	Weather	Drizzle
D11	17 May 2023	Wind Speed (kts)	3
D11	17 May 2023	Wind Dir	NW
D11	17 May 2023	Animal Life	Bird-2;
D11	17 May 2023	Floatables	None
D11	17 May 2023	Water Color	Green
D11	17 May 2023	Current Direction	S
D11	17 May 2023	Water Temp (C)	13.5
D11	17 May 2023	Wave Height Low (ft)	3
D11	17 May 2023	High Tide (ft)	4.05
D11	17 May 2023	High Tide Time	831
D11	17 May 2023	Low Tide (ft)	-0.27
D11	17 May 2023	Low Tide Time	238
D11	17 May 2023	Comments	Water clear; Boogie boarder/Swimmer-2; Trash-1; Kelp;Seagrass;Algae
D11	24 May 2023	Arrive Time	735
D11	24 May 2023	Weather	Foggy
D11	24 May 2023	Wind Speed (kts)	5.6
D11	24 May 2023	Wind Dir	NW
D11	24 May 2023	Animal Life	
D11	24 May 2023	Floatables	None
D11	24 May 2023	Water Color	Green
D11	24 May 2023	Current Direction	S
D11	24 May 2023	Water Temp (C)	13.2
D11	24 May 2023	Wave Height Low (ft)	3
D11	24 May 2023	High Tide (ft)	3.04
D11	24 May 2023	High Tide Time	1502
D11	24 May 2023	Low Tide (ft)	0.13
D11	24 May 2023	Low Tide Time	740
D11	24 May 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
D12	03 May 2023	Arrive Time	800
D12	03 May 2023	Weather	Partly cloudy
D12	03 May 2023	Wind Speed (kts)	0.9
D12	03 May 2023	Wind Dir	N
D12	03 May 2023	Animal Life	
D12	03 May 2023	Floatables	None
D12	03 May 2023	Water Color	Green
D12	03 May 2023	Current Direction	S
D12	03 May 2023	Water Temp (C)	12.6
D12	03 May 2023	Wave Height Low (ft)	2
D12	03 May 2023	High Tide (ft)	4.11
D12	03 May 2023	High Tide Time	829
D12	03 May 2023	Low Tide (ft)	0.3
D12	03 May 2023	Low Tide Time	240
D12	03 May 2023	Comments	Water clear; Trash-1; Seagrass;Algae;Kelp
D12	10 May 2023	Arrive Time	736
D12	10 May 2023	Weather	Cloudy

Station	Date	Parameter	Value
D12	10 May 2023	Wind Speed (kts)	8.34
D12	10 May 2023	Wind Dir	W
D12	10 May 2023	Animal Life	
D12	10 May 2023	Floatables	None
D12	10 May 2023	Water Color	Green
D12	10 May 2023	Current Direction	S
D12	10 May 2023	Water Temp (C)	12.1
D12	10 May 2023	Wave Height Low (ft)	4
D12	10 May 2023	High Tide (ft)	5.31
D12	10 May 2023	High Tide Time	2
D12	10 May 2023	Low Tide (ft)	-0.43
D12	10 May 2023	Low Tide Time	812
D12	10 May 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
D12	17 May 2023	Arrive Time	801
D12	17 May 2023	Weather	Drizzle
D12	17 May 2023	Wind Speed (kts)	3.39
D12	17 May 2023	Wind Dir	NW
D12	17 May 2023	Animal Life	
D12	17 May 2023	Floatables	None
D12	17 May 2023	Water Color	Green
D12	17 May 2023	Current Direction	S
D12	17 May 2023	Water Temp (C)	10.3
D12	17 May 2023	Wave Height Low (ft)	3
D12	17 May 2023	High Tide (ft)	4.05
D12	17 May 2023	High Tide Time	831
D12	17 May 2023	Low Tide (ft)	-0.27
D12	17 May 2023	Low Tide Time	238
D12	17 May 2023	Comments	Water clear; Boogie boarder/Swimmer-3; Trash-1; Seagrass;Kelp
D12	24 May 2023	Arrive Time	721
D12	24 May 2023	Weather	Foggy
D12	24 May 2023	Wind Speed (kts)	4.2
D12	24 May 2023	Wind Dir	NW
D12	24 May 2023	Animal Life	Bird-3;
D12	24 May 2023	Floatables	None
D12	24 May 2023	Water Color	Green
D12	24 May 2023	Current Direction	S
D12	24 May 2023	Water Temp (C)	11.4
D12	24 May 2023	Wave Height Low (ft)	2
D12	24 May 2023	High Tide (ft)	3.04
D12	24 May 2023	High Tide Time	1502
D12	24 May 2023	Low Tide (ft)	0.13
D12	24 May 2023	Low Tide Time	740
D12	24 May 2023	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1

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 May 2023	19	21	30	6	9	10	20	30
02 May 2023	12	13	17	5	9	11	17	17
03 May 2023	12	13	17	5	9	11	17	17
04 May 2023	12	13	17	5	9	11	17	17
05 May 2023	3	5	5	3	4	5	6	7
06 May 2023	3	5	5	3	4	5	6	7
07 May 2023	3	5	5	3	4	5	6	7
08 May 2023	3	5	5	3	4	5	6	7
09 May 2023	3	5	7	3	3	4	6	6
10 May 2023	3	4	7	2	4	3	5	4
11 May 2023	3	4	7	2	4	3	5	4
12 May 2023	3	4	7	2	4	3	5	4
13 May 2023	3	4	7	2	4	3	5	4
14 May 2023	3	4	7	2	4	3	5	4
15 May 2023	6	5	8	2	4	3	6	5
16 May 2023	6	5	8	2	4	3	6	5
17 May 2023	6	5	8	2	4	3	6	5
18 May 2023	7	5	8	2	5	3	8	4
19 May 2023	7	5	8	2	5	3	8	4
20 May 2023	7	5	8	2	5	3	8	4
21 May 2023	7	5	8	2	5	3	8	4
22 May 2023	5	5	6	2	4	3	6	4
23 May 2023	5	5	6	2	4	3	6	4
24 May 2023	5	5	6	2	4	3	6	4
25 May 2023	5	5	6	2	4	3	6	4
26 May 2023	5	5	6	2	3	3	5	4
27 May 2023	5	5	6	2	3	3	5	4
28 May 2023	5	5	6	2	3	3	5	4
29 May 2023	5	5	6	2	3	3	5	4
30 May 2023	5	5	6	2	3	3	5	4

* 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 May 2023	8	6	10	3	4	4	7	9
02 May 2023	6	5	7	3	3	3	6	7
03 May 2023	6	5	7	3	3	3	6	7
04 May 2023	6	5	7	3	3	3	6	7
05 May 2023	2	2	2	2	2	2	2	3
06 May 2023	2	2	2	2	2	2	2	3
07 May 2023	2	2	2	2	2	2	2	3
08 May 2023	2	2	2	2	2	2	2	3
09 May 2023	2	2	3	2	2	2	2	3
10 May 2023	2	2	3	2	2	2	2	2
11 May 2023	2	2	3	2	2	2	2	2
12 May 2023	2	2	3	2	2	2	2	2
13 May 2023	2	2	3	2	2	2	2	2
14 May 2023	2	2	3	2	2	2	2	2
15 May 2023	2	2	3	2	2	2	2	2
16 May 2023	2	2	3	2	2	2	2	2
17 May 2023	2	2	3	2	2	2	2	2
18 May 2023	2	2	3	2	2	2	2	2
19 May 2023	2	2	3	2	2	2	2	2
20 May 2023	2	2	3	2	2	2	2	2
21 May 2023	2	2	3	2	2	2	2	2
22 May 2023	2	2	3	2	2	2	2	2
23 May 2023	2	2	3	2	2	2	2	2
24 May 2023	2	2	3	2	2	2	2	2
25 May 2023	2	2	3	2	2	2	2	2
26 May 2023	2	2	3	2	2	2	2	2
27 May 2023	2	2	3	2	2	2	2	2
28 May 2023	2	2	3	2	2	2	2	2
29 May 2023	2	2	3	2	2	2	2	2
30 May 2023	2	2	3	2	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 May 2023	5	4	5	2	2	2	4	5
02 May 2023	4	4	4	2	2	2	3	4
03 May 2023	4	4	4	2	2	2	3	4
04 May 2023	4	4	4	2	2	2	3	4
05 May 2023	2	2	2	2	2	2	2	2
06 May 2023	2	2	2	2	2	2	2	2
07 May 2023	2	2	2	2	2	2	2	2
08 May 2023	2	2	2	2	2	2	2	2
09 May 2023	2	2	2	2	2	2	2	2
10 May 2023	2	2	2	2	2	2	2	2
11 May 2023	2	2	2	2	2	2	2	2
12 May 2023	2	2	2	2	2	2	2	2
13 May 2023	2	2	2	2	2	2	2	2
14 May 2023	2	2	2	2	2	2	2	2
15 May 2023	2	2	2	2	2	2	2	2
16 May 2023	2	2	2	2	2	2	2	2
17 May 2023	2	2	2	2	2	2	2	2
18 May 2023	2	2	2	2	2	2	2	2
19 May 2023	2	2	2	2	2	2	2	2
20 May 2023	2	2	2	2	2	2	2	2
21 May 2023	2	2	2	2	2	2	2	2
22 May 2023	2	2	2	2	2	2	2	2
23 May 2023	2	2	2	2	2	2	2	2
24 May 2023	2	2	2	2	2	2	2	2
25 May 2023	2	2	2	2	2	2	2	2
26 May 2023	2	2	2	2	2	2	2	2
27 May 2023	2	2	2	2	2	2	2	2
28 May 2023	2	2	2	2	2	2	2	2
29 May 2023	2	2	2	2	2	2	2	2
30 May 2023	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
02 May 2023	IC							
09 May 2023	IC							
15 May 2023	IC							
22 May 2023	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
02 May 2023	IC							
09 May 2023	IC							
15 May 2023	IC							
22 May 2023	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
02 May 2023	IC							
09 May 2023	IC							
15 May 2023	IC							
22 May 2023	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
02 May 2023	IC							
09 May 2023	IC							
15 May 2023	IC							
22 May 2023	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	02 May 2023	802	1	<2	<2	<2	1.00	15.5	85.88	10.1	33.60	8.3
A1	02 May 2023	802	12	<2	<2	<2	1.00	12.2	90.68	5.9	33.57	7.9
A1	02 May 2023	802	18	<2	<2	<2	1.00	11.8	89.69	5.2	33.63	7.8
A1	09 May 2023	751	1	<2	<2	<2	1.00	16.1	87.25	8.2	33.49	8.1
A1	09 May 2023	751	12	<2	<2	<2	1.00	13.2	87.92	6.4	33.53	7.9
A1	09 May 2023	751	18	10e	<2	<2	0.20	11.8	89.46	5.2	33.61	7.8
A1	15 May 2023	828	1	<2	<2	<2	1.00	15.4	76.77	7.4	33.58	8.0
A1	15 May 2023	828	12	100e	6e	4e	0.06	12.0	87.24	4.5	33.68	7.8
A1	15 May 2023	828	18	42	2e	<2	0.05	11.4	87.11	4.2	33.70	7.7
A1	22 May 2023	813	1	2e	<2	<2	1.00	17.1	91.28	8.3	33.48	8.1
A1	22 May 2023	813	12	<2	<2	<2	1.00	14.0	88.52	8.0	33.47	8.1
A1	22 May 2023	813	18	2e	<2	<2	1.00	12.5	89.88	5.8	33.53	7.9
A6	02 May 2023	831	1	<2	<2	<2	1.00	15.8	82.11	10.5	33.61	8.4
A6	02 May 2023	831	12	<2	<2	<2	1.00	12.7	85.77	6.4	33.51	8.0
A6	02 May 2023	831	18	<2	<2	<2	1.00	11.8	90.86	5.6	33.55	7.9
A6	09 May 2023	822	1	<2	<2	<2	1.00	16.4	76.95	8.4	33.53	8.2
A6	09 May 2023	822	12	2e	<2	<2	1.00	14.0	86.90	7.0	33.52	8.0
A6	09 May 2023	822	18	8e	2e	<2	0.25	12.8	88.58	6.0	33.58	7.9
A6	15 May 2023	849	1	<2	<2	<2	1.00	16.2	82.31	7.8	33.54	8.1
A6	15 May 2023	849	12	8e	<2	2e	0.25	12.4	88.05	4.8	33.65	7.8
A6	15 May 2023	849	18	22e	<2	<2	0.09	11.1	90.01	4.2	33.70	7.7
A6	22 May 2023	840	1	<2	<2	<2	1.00	16.9	90.89	8.4	33.48	8.2
A6	22 May 2023	840	12	10e	2e	<2	0.20	14.6	88.59	7.1	33.52	8.1
A6	22 May 2023	840	18	6e	2e	<2	0.33	13.4	90.22	6.4	33.52	8.0
A7	02 May 2023	817	1	<2	<2	<2	1.00	15.7	73.99	10.4	33.60	8.3
A7	02 May 2023	817	12	<2	<2	<2	1.00	12.6	88.02	6.5	33.54	8.0
A7	02 May 2023	817	18	2e	<2	<2	1.00	12.0	90.78	5.7	33.58	7.9
A7	09 May 2023	810	1	<2	<2	<2	1.00	16.3	87.14	8.4	33.50	8.1
A7	09 May 2023	810	12	10e	<2	<2	0.20	13.2	87.43	6.4	33.53	8.0
A7	09 May 2023	810	18	84	18e	4e	0.21	12.2	89.80	5.3	33.62	7.8
A7	15 May 2023	817	1	<2	<2	<2	1.00	16.3	82.87	7.6	33.54	8.1
A7	15 May 2023	817	12	14e	2e	<2	0.14	11.9	88.19	4.7	33.67	7.8
A7	15 May 2023	817	18	18e	<2	<2	0.11	11.0	89.63	4.0	33.71	7.7
A7	22 May 2023	827	1	<2	<2	<2	1.00	17.1	91.29	8.3	33.48	8.2
A7	22 May 2023	827	12	<2	<2	<2	1.00	14.5	88.77	8.4	33.45	8.1
A7	22 May 2023	827	18	<2	<2	<2	1.00	13.0	89.73	6.1	33.54	8.0
C4	02 May 2023	940	1	<2	<2	<2	1.00	15.8	82.04	10.1	33.62	8.4
C4	02 May 2023	940	3	<2	<2	<2	1.00	15.6	82.31	9.5	33.62	8.3
C4	02 May 2023	940	9	<2	<2	<2	1.00	13.0	86.35	6.2	33.58	8.0

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
C4	09 May 2023	933	1	<2	<2	<2	1.00	16.1	87.71	8.0	33.51	8.1
C4	09 May 2023	933	3	<2	<2	<2	1.00	15.5	86.49	7.4	33.53	8.1
C4	09 May 2023	933	9	2e	<2	<2	1.00	12.3	86.84	4.7	33.62	7.8
C4	15 May 2023	949	1	<2	<2	<2	1.00	15.1	78.82	7.0	33.59	8.0
C4	15 May 2023	949	3	<2	<2	<2	1.00	14.3	75.06	6.2	33.61	7.9
C4	15 May 2023	949	9	<2	<2	<2	1.00	12.8	80.57	4.5	33.66	7.8
C4	22 May 2023	1000	1	<2	<2	<2	1.00	16.8	88.92	8.2	33.50	8.2
C4	22 May 2023	1000	3	<2	<2	<2	1.00	16.6	88.87	8.0	33.51	8.2
C4	22 May 2023	1000	9	<2	<2	<2	1.00	13.9	88.65	6.1	33.53	8.0
C5	02 May 2023	930	1	<2	<2	<2	1.00	15.8	79.69	9.8	33.63	8.3
C5	02 May 2023	930	3	<20	<2	<2	0.10	14.2	77.85	7.8	33.63	8.2
C5	02 May 2023	930	9	<2	<2	<2	1.00	13.2	85.54	6.8	33.58	8.0
C5	09 May 2023	921	1	<2	<2	<2	1.00	16.1	87.15	8.1	33.51	8.1
C5	09 May 2023	921	3	<2	<2	<2	1.00	16.2	86.80	8.0	33.51	8.1
C5	09 May 2023	921	9	2e	2e	<2	1.00	12.5	86.19	5.4	33.57	7.8
C5	15 May 2023	939	1	<2	<2	<2	1.00	16.1	80.44	7.6	33.56	8.1
C5	15 May 2023	939	3	<2	<2	<2	1.00	15.8	80.35	6.8	33.57	8.1
C5	15 May 2023	939	9	6e	<2	<2	0.33	12.3	87.98	4.6	33.65	7.8
C5	22 May 2023	948	1	<2	<2	<2	1.00	17.0	87.50	8.5	33.51	8.2
C5	22 May 2023	948	3	<2	<2	<2	1.00	16.9	87.24	8.4	33.51	8.2
C5	22 May 2023	948	9	<2	<2	<2	1.00	14.9	88.41	6.7	33.53	8.1
C6	02 May 2023	919	1	20e	2e	<2	0.10	15.8	75.22	9.8	33.63	8.3
C6	02 May 2023	919	3	20e	<2	<2	0.10	15.8	80.81	9.8	33.63	8.3
C6	02 May 2023	919	9	<2	<2	<2	1.00	13.3	88.32	7.1	33.57	8.1
C6	09 May 2023	907	1	2e	<2	<2	1.00	16.1	82.71	8.2	33.50	8.1
C6	09 May 2023	907	3	2e	<2	<2	1.00	16.1	81.34	8.2	33.51	8.1
C6	09 May 2023	907	9	2e	<2	<2	1.00	12.2	84.90	5.3	33.58	7.8
C6	15 May 2023	931	1	<2	<2	<2	1.00	16.3	80.80	7.7	33.55	8.1
C6	15 May 2023	931	3	<2	<2	<2	1.00	16.1	80.38	7.5	33.56	8.1
C6	15 May 2023	931	9	2e	<2	<2	1.00	12.2	83.51	4.5	33.65	7.8
C6	22 May 2023	935	1	<2	<2	<2	1.00	17.1	83.00	8.5	33.52	8.2
C6	22 May 2023	935	3	<2	<2	<2	1.00	17.0	83.55	8.4	33.52	8.2
C6	22 May 2023	935	9	<2	<2	<2	1.00	15.0	88.75	6.9	33.56	8.1
C7	02 May 2023	848	1	<20	<2	<2	0.10	15.8	73.76	9.6	33.62	8.4
C7	02 May 2023	848	12	<2	<2	<2	1.00	12.9	83.05	7.3	33.56	8.0
C7	02 May 2023	848	18	2e	<2	<2	1.00	12.3	90.38	6.0	33.57	7.9
C7	09 May 2023	837	1	<2	<2	<2	1.00	16.5	84.60	8.5	33.53	8.2
C7	09 May 2023	837	12	<2	<2	<2	1.00	13.3	87.12	6.3	33.53	8.0
C7	09 May 2023	837	18	6e	<2	2e	0.33	11.7	90.00	5.0	33.59	7.8
C7	15 May 2023	902	1	<2	<2	<2	1.00	16.1	74.13	7.8	33.55	8.1
C7	15 May 2023	902	12	12e	<2	<2	0.17	11.7	89.80	4.4	33.67	7.8
C7	15 May 2023	902	18	36e	2e	<2	0.06	11.1	89.97	4.1	33.71	7.7
C7	22 May 2023	855	1	<2	<2	2e	1.00	17.1	88.82	8.4	33.50	8.2
C7	22 May 2023	855	12	<2	<2	<2	1.00	16.1	86.36	8.1	33.53	8.2
C7	22 May 2023	855	18	<2	<2	<2	1.00	13.7	90.52	6.5	33.52	8.0

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
C8	02 May 2023	859	1	<2	<2	<2	1.00	15.8	80.39	10.7	33.62	8.4
C8	02 May 2023	859	12	<2	<2	<2	1.00	13.6	84.95	7.4	33.58	8.1
C8	02 May 2023	859	18	<2	<2	<2	1.00	12.2	91.00	6.0	33.55	7.9
C8	09 May 2023	848	1	<2	<2	<2	1.00	16.8	75.66	8.6	33.50	8.2
C8	09 May 2023	848	12	<2	<2	<2	1.00	13.4	86.04	6.6	33.53	8.0
C8	09 May 2023	848	18	8e	<2	<2	0.25	11.7	90.13	5.2	33.57	7.8
C8	15 May 2023	912	1	<2	<2	<2	1.00	16.1	76.54	7.9	33.56	8.1
C8	15 May 2023	912	12	12e	2e	4e	0.17	11.2	90.08	4.3	33.69	7.7
C8	15 May 2023	912	18	22e	4e	2e	0.18	11.1	90.15	4.2	33.71	7.7
C8	22 May 2023	917	1	<2	<2	<2	1.00	17.0	88.77	8.5	33.50	8.2
C8	22 May 2023	917	12	<2	<2	<2	1.00	15.9	87.09	8.0	33.53	8.2
C8	22 May 2023	917	18	<2	<2	<2	1.00	13.2	89.80	5.9	33.56	8.0

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	02 May 2023	Depth (m)	19
A1	02 May 2023	Arrive Time	802
A1	02 May 2023	Depart Time	805
A1	02 May 2023	Air Temp (C)	14.4
A1	02 May 2023	Weather	Partly Cloudy
A1	02 May 2023	Visibility (mi)	10
A1	02 May 2023	Wind Speed (kts)	5.5
A1	02 May 2023	Wind Dir	W
A1	02 May 2023	Water Color	Greenish-Blue
A1	02 May 2023	Wave Ht Low (ft)	2
A1	02 May 2023	Wave Period (sec)	8
A1	02 May 2023	Sea State	Confused Swell
A1	02 May 2023	High Tide (ft)	4.92
A1	02 May 2023	High Tide Time	2006
A1	02 May 2023	Low Tide (ft)	0.56
A1	02 May 2023	Low Tide Time	1354
A1	02 May 2023	Comments	none
A1	09 May 2023	Depth (m)	18
A1	09 May 2023	Arrive Time	751
A1	09 May 2023	Depart Time	802
A1	09 May 2023	Air Temp (C)	15
A1	09 May 2023	Weather	Overcast
A1	09 May 2023	Visibility (mi)	10
A1	09 May 2023	Wind Speed (kts)	5.2
A1	09 May 2023	Wind Dir	NW
A1	09 May 2023	Water Color	Greenish-Blue
A1	09 May 2023	Wave Ht Low (ft)	4
A1	09 May 2023	Wave Period (sec)	6
A1	09 May 2023	Sea State	Confused Swell
A1	09 May 2023	High Tide (ft)	5.53
A1	09 May 2023	High Tide Time	6
A1	09 May 2023	Low Tide (ft)	-0.79
A1	09 May 2023	Low Tide Time	654
A1	09 May 2023	Comments	none
A1	15 May 2023	Depth (m)	18
A1	15 May 2023	Arrive Time	828
A1	15 May 2023	Depart Time	835
A1	15 May 2023	Air Temp (C)	14.7
A1	15 May 2023	Weather	Overcast
A1	15 May 2023	Visibility (mi)	8
A1	15 May 2023	Wind Speed (kts)	11
A1	15 May 2023	Wind Dir	S
A1	15 May 2023	Water Color	Green
A1	15 May 2023	Wave Ht Low (ft)	5
A1	15 May 2023	Wave Period (sec)	13
A1	15 May 2023	Sea State	Confused Swell
A1	15 May 2023	High Tide (ft)	5.32
A1	15 May 2023	High Tide Time	1924
A1	15 May 2023	Low Tide (ft)	0.21
A1	15 May 2023	Low Tide Time	1254
A1	15 May 2023	Comments	Kelp Debris; No btl file; Cast overwritten at A7- had to return for new cast; Bottles collected on first cast
A1	22 May 2023	Depth (m)	19

Station	Date	Parameter	Value
A1	22 May 2023	Arrive Time	813
A1	22 May 2023	Depart Time	818
A1	22 May 2023	Air Temp (C)	15.8
A1	22 May 2023	Weather	Overcast
A1	22 May 2023	Visibility (mi)	10
A1	22 May 2023	Wind Speed (kts)	0.4
A1	22 May 2023	Wind Dir	NW
A1	22 May 2023	Water Color	Blue
A1	22 May 2023	Wave Ht Low (ft)	3.3
A1	22 May 2023	Wave Period (sec)	15
A1	22 May 2023	Sea State	Wind Ripples
A1	22 May 2023	High Tide (ft)	5.28
A1	22 May 2023	High Tide Time	2300
A1	22 May 2023	Low Tide (ft)	-0.63
A1	22 May 2023	Low Tide Time	554
A1	22 May 2023	Comments	none
A6	02 May 2023	Depth (m)	19
A6	02 May 2023	Arrive Time	831
A6	02 May 2023	Depart Time	834
A6	02 May 2023	Air Temp (C)	14.2
A6	02 May 2023	Weather	Partly Cloudy
A6	02 May 2023	Visibility (mi)	10
A6	02 May 2023	Wind Speed (kts)	5.8
A6	02 May 2023	Wind Dir	W
A6	02 May 2023	Water Color	Greenish-Blue
A6	02 May 2023	Wave Ht Low (ft)	2
A6	02 May 2023	Wave Period (sec)	8
A6	02 May 2023	Sea State	Confused Swell
A6	02 May 2023	High Tide (ft)	4.92
A6	02 May 2023	High Tide Time	2006
A6	02 May 2023	Low Tide (ft)	0.56
A6	02 May 2023	Low Tide Time	1354
A6	02 May 2023	Comments	none
A6	09 May 2023	Depth (m)	17
A6	09 May 2023	Arrive Time	822
A6	09 May 2023	Depart Time	826
A6	09 May 2023	Air Temp (C)	15.1
A6	09 May 2023	Weather	Overcast
A6	09 May 2023	Visibility (mi)	10
A6	09 May 2023	Wind Speed (kts)	5.3
A6	09 May 2023	Wind Dir	W
A6	09 May 2023	Water Color	Greenish-Blue
A6	09 May 2023	Wave Ht Low (ft)	4
A6	09 May 2023	Wave Period (sec)	6
A6	09 May 2023	Sea State	Confused Swell
A6	09 May 2023	High Tide (ft)	5.53
A6	09 May 2023	High Tide Time	6
A6	09 May 2023	Low Tide (ft)	-0.79
A6	09 May 2023	Low Tide Time	654
A6	09 May 2023	Comments	none
A6	15 May 2023	Depth (m)	19
A6	15 May 2023	Arrive Time	849
A6	15 May 2023	Depart Time	854
A6	15 May 2023	Air Temp (C)	15
A6	15 May 2023	Weather	Overcast
A6	15 May 2023	Visibility (mi)	8
A6	15 May 2023	Wind Speed (kts)	2.3
A6	15 May 2023	Wind Dir	S

Station	Date	Parameter	Value
A6	15 May 2023	Water Color	Green
A6	15 May 2023	Wave Ht Low (ft)	5
A6	15 May 2023	Wave Period (sec)	13
A6	15 May 2023	Sea State	Calm
A6	15 May 2023	High Tide (ft)	5.32
A6	15 May 2023	High Tide Time	1924
A6	15 May 2023	Low Tide (ft)	0.21
A6	15 May 2023	Low Tide Time	1254
A6	15 May 2023	Comments	none
A6	22 May 2023	Depth (m)	19
A6	22 May 2023	Arrive Time	840
A6	22 May 2023	Depart Time	852
A6	22 May 2023	Air Temp (C)	15.8
A6	22 May 2023	Weather	Overcast
A6	22 May 2023	Visibility (mi)	10
A6	22 May 2023	Wind Speed (kts)	0.3
A6	22 May 2023	Wind Dir	E
A6	22 May 2023	Water Color	Blue
A6	22 May 2023	Wave Ht Low (ft)	3.3
A6	22 May 2023	Wave Period (sec)	15
A6	22 May 2023	Sea State	Wind Ripples
A6	22 May 2023	High Tide (ft)	5.28
A6	22 May 2023	High Tide Time	2300
A6	22 May 2023	Low Tide (ft)	-0.63
A6	22 May 2023	Low Tide Time	554
A6	22 May 2023	Comments	none
A7	02 May 2023	Depth (m)	20
A7	02 May 2023	Arrive Time	817
A7	02 May 2023	Depart Time	820
A7	02 May 2023	Air Temp (C)	14.1
A7	02 May 2023	Weather	Partly Cloudy
A7	02 May 2023	Visibility (mi)	10
A7	02 May 2023	Wind Speed (kts)	6.8
A7	02 May 2023	Wind Dir	W
A7	02 May 2023	Water Color	Greenish-Blue
A7	02 May 2023	Wave Ht Low (ft)	2
A7	02 May 2023	Wave Period (sec)	8
A7	02 May 2023	Sea State	Confused Swell
A7	02 May 2023	High Tide (ft)	4.92
A7	02 May 2023	High Tide Time	2006
A7	02 May 2023	Low Tide (ft)	0.56
A7	02 May 2023	Low Tide Time	1354
A7	02 May 2023	Comments	none
A7	09 May 2023	Depth (m)	18
A7	09 May 2023	Arrive Time	810
A7	09 May 2023	Depart Time	814
A7	09 May 2023	Air Temp (C)	15.1
A7	09 May 2023	Weather	Overcast
A7	09 May 2023	Visibility (mi)	10
A7	09 May 2023	Wind Speed (kts)	0
A7	09 May 2023	Wind Dir	NW
A7	09 May 2023	Water Color	Greenish-Blue
A7	09 May 2023	Wave Ht Low (ft)	4
A7	09 May 2023	Wave Period (sec)	6
A7	09 May 2023	Sea State	Confused Swell
A7	09 May 2023	High Tide (ft)	5.53
A7	09 May 2023	High Tide Time	6
A7	09 May 2023	Low Tide (ft)	-0.79

Station	Date	Parameter	Value
A7	09 May 2023	Low Tide Time	654
A7	09 May 2023	Comments	none
A7	15 May 2023	Depth (m)	20
A7	15 May 2023	Arrive Time	817
A7	15 May 2023	Depart Time	825
A7	15 May 2023	Air Temp (C)	14.8
A7	15 May 2023	Weather	Overcast
A7	15 May 2023	Visibility (mi)	8
A7	15 May 2023	Wind Speed (kts)	0
A7	15 May 2023	Wind Dir	E
A7	15 May 2023	Water Color	Greenish-Blue
A7	15 May 2023	Wave Ht Low (ft)	5
A7	15 May 2023	Wave Period (sec)	13
A7	15 May 2023	Sea State	Confused Swell
A7	15 May 2023	High Tide (ft)	5.32
A7	15 May 2023	High Tide Time	1924
A7	15 May 2023	Low Tide (ft)	0.21
A7	15 May 2023	Low Tide Time	1254
A7	15 May 2023	Comments	none
A7	22 May 2023	Depth (m)	19
A7	22 May 2023	Arrive Time	827
A7	22 May 2023	Depart Time	831
A7	22 May 2023	Air Temp (C)	15.8
A7	22 May 2023	Weather	Overcast
A7	22 May 2023	Visibility (mi)	10
A7	22 May 2023	Wind Speed (kts)	0.6
A7	22 May 2023	Wind Dir	SW
A7	22 May 2023	Water Color	Blue
A7	22 May 2023	Wave Ht Low (ft)	3.3
A7	22 May 2023	Wave Period (sec)	15
A7	22 May 2023	Sea State	Wind Ripples
A7	22 May 2023	High Tide (ft)	5.28
A7	22 May 2023	High Tide Time	2300
A7	22 May 2023	Low Tide (ft)	-0.63
A7	22 May 2023	Low Tide Time	554
A7	22 May 2023	Comments	none
C4	02 May 2023	Depth (m)	12
C4	02 May 2023	Arrive Time	940
C4	02 May 2023	Depart Time	942
C4	02 May 2023	Air Temp (C)	14.2
C4	02 May 2023	Weather	Partly Cloudy
C4	02 May 2023	Visibility (mi)	10
C4	02 May 2023	Wind Speed (kts)	7.4
C4	02 May 2023	Wind Dir	NW
C4	02 May 2023	Water Color	Green
C4	02 May 2023	Wave Ht Low (ft)	2
C4	02 May 2023	Wave Period (sec)	8
C4	02 May 2023	Sea State	Confused Swell
C4	02 May 2023	High Tide (ft)	4.92
C4	02 May 2023	High Tide Time	2006
C4	02 May 2023	Low Tide (ft)	0.56
C4	02 May 2023	Low Tide Time	1354
C4	02 May 2023	Comments	none
C4	09 May 2023	Depth (m)	10
C4	09 May 2023	Arrive Time	933
C4	09 May 2023	Depart Time	936
C4	09 May 2023	Air Temp (C)	15.2

Station	Date	Parameter	Value
C4	09 May 2023	Weather	Partly Cloudy
C4	09 May 2023	Visibility (mi)	10
C4	09 May 2023	Wind Speed (kts)	4.2
C4	09 May 2023	Wind Dir	SE
C4	09 May 2023	Water Color	Greenish-Blue
C4	09 May 2023	Wave Ht Low (ft)	4
C4	09 May 2023	Wave Period (sec)	6
C4	09 May 2023	Sea State	Confused Swell
C4	09 May 2023	High Tide (ft)	5.53
C4	09 May 2023	High Tide Time	6
C4	09 May 2023	Low Tide (ft)	-0.79
C4	09 May 2023	Low Tide Time	654
C4	09 May 2023	Comments	none
C4	15 May 2023	Depth (m)	10
C4	15 May 2023	Arrive Time	949
C4	15 May 2023	Depart Time	956
C4	15 May 2023	Air Temp (C)	15.2
C4	15 May 2023	Weather	Overcast
C4	15 May 2023	Visibility (mi)	8
C4	15 May 2023	Wind Speed (kts)	8.7
C4	15 May 2023	Wind Dir	SW
C4	15 May 2023	Water Color	Blueish-Green
C4	15 May 2023	Wave Ht Low (ft)	5
C4	15 May 2023	Wave Period (sec)	13
C4	15 May 2023	Sea State	Calm
C4	15 May 2023	High Tide (ft)	5.32
C4	15 May 2023	High Tide Time	1924
C4	15 May 2023	Low Tide (ft)	0.21
C4	15 May 2023	Low Tide Time	1254
C4	15 May 2023	Comments	Surfer boats.; Kelp; Kelp Debris
C4	22 May 2023	Depth (m)	11
C4	22 May 2023	Arrive Time	1000
C4	22 May 2023	Depart Time	1003
C4	22 May 2023	Air Temp (C)	15.5
C4	22 May 2023	Weather	Overcast
C4	22 May 2023	Visibility (mi)	10
C4	22 May 2023	Wind Speed (kts)	5
C4	22 May 2023	Wind Dir	SW
C4	22 May 2023	Water Color	Blue
C4	22 May 2023	Wave Ht Low (ft)	3.3
C4	22 May 2023	Wave Period (sec)	15
C4	22 May 2023	Sea State	Wind Ripples
C4	22 May 2023	High Tide (ft)	5.28
C4	22 May 2023	High Tide Time	2300
C4	22 May 2023	Low Tide (ft)	-0.63
C4	22 May 2023	Low Tide Time	554
C4	22 May 2023	Comments	Kelp Debris
C5	02 May 2023	Depth (m)	12
C5	02 May 2023	Arrive Time	930
C5	02 May 2023	Depart Time	932
C5	02 May 2023	Air Temp (C)	14
C5	02 May 2023	Weather	Partly Cloudy
C5	02 May 2023	Visibility (mi)	10
C5	02 May 2023	Wind Speed (kts)	7.6
C5	02 May 2023	Wind Dir	NW
C5	02 May 2023	Water Color	Green
C5	02 May 2023	Wave Ht Low (ft)	2
C5	02 May 2023	Wave Period (sec)	8

Station	Date	Parameter	Value
C5	02 May 2023	Sea State	Confused Swell
C5	02 May 2023	High Tide (ft)	4.92
C5	02 May 2023	High Tide Time	2006
C5	02 May 2023	Low Tide (ft)	0.56
C5	02 May 2023	Low Tide Time	1354
C5	02 May 2023	Comments	none
C5	09 May 2023	Depth (m)	11
C5	09 May 2023	Arrive Time	921
C5	09 May 2023	Depart Time	925
C5	09 May 2023	Air Temp (C)	15.2
C5	09 May 2023	Weather	Partly Cloudy
C5	09 May 2023	Visibility (mi)	10
C5	09 May 2023	Wind Speed (kts)	2.3
C5	09 May 2023	Wind Dir	S
C5	09 May 2023	Water Color	Greenish-Blue
C5	09 May 2023	Wave Ht Low (ft)	4
C5	09 May 2023	Wave Period (sec)	6
C5	09 May 2023	Sea State	Confused Swell
C5	09 May 2023	High Tide (ft)	5.53
C5	09 May 2023	High Tide Time	6
C5	09 May 2023	Low Tide (ft)	-0.79
C5	09 May 2023	Low Tide Time	654
C5	09 May 2023	Comments	none
C5	15 May 2023	Depth (m)	10
C5	15 May 2023	Arrive Time	939
C5	15 May 2023	Depart Time	944
C5	15 May 2023	Air Temp (C)	15.4
C5	15 May 2023	Weather	Overcast
C5	15 May 2023	Visibility (mi)	8
C5	15 May 2023	Wind Speed (kts)	4.6
C5	15 May 2023	Wind Dir	SW
C5	15 May 2023	Water Color	Blueish-Green
C5	15 May 2023	Wave Ht Low (ft)	5
C5	15 May 2023	Wave Period (sec)	13
C5	15 May 2023	Sea State	Calm
C5	15 May 2023	High Tide (ft)	5.32
C5	15 May 2023	High Tide Time	1924
C5	15 May 2023	Low Tide (ft)	0.21
C5	15 May 2023	Low Tide Time	1254
C5	15 May 2023	Comments	Kelp; Kelp Debris
C5	22 May 2023	Depth (m)	11
C5	22 May 2023	Arrive Time	948
C5	22 May 2023	Depart Time	959
C5	22 May 2023	Air Temp (C)	15.8
C5	22 May 2023	Weather	Overcast
C5	22 May 2023	Visibility (mi)	10
C5	22 May 2023	Wind Speed (kts)	3.5
C5	22 May 2023	Wind Dir	SW
C5	22 May 2023	Water Color	Blue
C5	22 May 2023	Wave Ht Low (ft)	3.3
C5	22 May 2023	Wave Period (sec)	15
C5	22 May 2023	Sea State	Wind Ripples
C5	22 May 2023	High Tide (ft)	5.28
C5	22 May 2023	High Tide Time	2300
C5	22 May 2023	Low Tide (ft)	-0.63
C5	22 May 2023	Low Tide Time	554
C5	22 May 2023	Comments	none

Station	Date	Parameter	Value
C6	02 May 2023	Depth (m)	11
C6	02 May 2023	Arrive Time	919
C6	02 May 2023	Depart Time	921
C6	02 May 2023	Air Temp (C)	14.1
C6	02 May 2023	Weather	Partly Cloudy
C6	02 May 2023	Visibility (mi)	10
C6	02 May 2023	Wind Speed (kts)	7.6
C6	02 May 2023	Wind Dir	NW
C6	02 May 2023	Water Color	Green
C6	02 May 2023	Wave Ht Low (ft)	2
C6	02 May 2023	Wave Period (sec)	8
C6	02 May 2023	Sea State	Confused Swell
C6	02 May 2023	High Tide (ft)	4.92
C6	02 May 2023	High Tide Time	2006
C6	02 May 2023	Low Tide (ft)	0.56
C6	02 May 2023	Low Tide Time	1354
C6	02 May 2023	Comments	none
C6	09 May 2023	Depth (m)	9
C6	09 May 2023	Arrive Time	907
C6	09 May 2023	Depart Time	914
C6	09 May 2023	Air Temp (C)	15.1
C6	09 May 2023	Weather	Partly Cloudy
C6	09 May 2023	Visibility (mi)	10
C6	09 May 2023	Wind Speed (kts)	10.4
C6	09 May 2023	Wind Dir	S
C6	09 May 2023	Water Color	Greenish-Blue
C6	09 May 2023	Wave Ht Low (ft)	4
C6	09 May 2023	Wave Period (sec)	6
C6	09 May 2023	Sea State	Confused Swell
C6	09 May 2023	High Tide (ft)	5.53
C6	09 May 2023	High Tide Time	6
C6	09 May 2023	Low Tide (ft)	-0.79
C6	09 May 2023	Low Tide Time	654
C6	09 May 2023	Comments	none
C6	15 May 2023	Depth (m)	9
C6	15 May 2023	Arrive Time	931
C6	15 May 2023	Depart Time	934
C6	15 May 2023	Air Temp (C)	15.4
C6	15 May 2023	Weather	Overcast
C6	15 May 2023	Visibility (mi)	8
C6	15 May 2023	Wind Speed (kts)	0
C6	15 May 2023	Wind Dir	S
C6	15 May 2023	Water Color	Green
C6	15 May 2023	Wave Ht Low (ft)	5
C6	15 May 2023	Wave Period (sec)	13
C6	15 May 2023	Sea State	Calm
C6	15 May 2023	High Tide (ft)	5.32
C6	15 May 2023	High Tide Time	1924
C6	15 May 2023	Low Tide (ft)	0.21
C6	15 May 2023	Low Tide Time	1254
C6	15 May 2023	Comments	Kelp
C6	22 May 2023	Depth (m)	9
C6	22 May 2023	Arrive Time	935
C6	22 May 2023	Depart Time	939
C6	22 May 2023	Air Temp (C)	15.8
C6	22 May 2023	Weather	Overcast
C6	22 May 2023	Visibility (mi)	10
C6	22 May 2023	Wind Speed (kts)	2.1

Station	Date	Parameter	Value
C6	22 May 2023	Wind Dir	W
C6	22 May 2023	Water Color	Blue
C6	22 May 2023	Wave Ht Low (ft)	3.3
C6	22 May 2023	Wave Period (sec)	15
C6	22 May 2023	Sea State	Wind Ripples
C6	22 May 2023	High Tide (ft)	5.28
C6	22 May 2023	High Tide Time	2300
C6	22 May 2023	Low Tide (ft)	-0.63
C6	22 May 2023	Low Tide Time	554
C6	22 May 2023	Comments	Kelp Debris
C7	02 May 2023	Depth (m)	19
C7	02 May 2023	Arrive Time	848
C7	02 May 2023	Depart Time	849
C7	02 May 2023	Air Temp (C)	14.2
C7	02 May 2023	Weather	Partly Cloudy
C7	02 May 2023	Visibility (mi)	10
C7	02 May 2023	Wind Speed (kts)	7.4
C7	02 May 2023	Wind Dir	NW
C7	02 May 2023	Water Color	Greenish-Blue
C7	02 May 2023	Wave Ht Low (ft)	2
C7	02 May 2023	Wave Period (sec)	8
C7	02 May 2023	Sea State	Confused Swell
C7	02 May 2023	High Tide (ft)	4.92
C7	02 May 2023	High Tide Time	2006
C7	02 May 2023	Low Tide (ft)	0.56
C7	02 May 2023	Low Tide Time	1354
C7	02 May 2023	Comments	none
C7	09 May 2023	Depth (m)	17
C7	09 May 2023	Arrive Time	837
C7	09 May 2023	Depart Time	842
C7	09 May 2023	Air Temp (C)	15.2
C7	09 May 2023	Weather	Overcast
C7	09 May 2023	Visibility (mi)	10
C7	09 May 2023	Wind Speed (kts)	5.1
C7	09 May 2023	Wind Dir	S
C7	09 May 2023	Water Color	Greenish-Blue
C7	09 May 2023	Wave Ht Low (ft)	4
C7	09 May 2023	Wave Period (sec)	6
C7	09 May 2023	Sea State	Confused Swell
C7	09 May 2023	High Tide (ft)	5.53
C7	09 May 2023	High Tide Time	6
C7	09 May 2023	Low Tide (ft)	-0.79
C7	09 May 2023	Low Tide Time	654
C7	09 May 2023	Comments	none
C7	15 May 2023	Depth (m)	18
C7	15 May 2023	Arrive Time	902
C7	15 May 2023	Depart Time	905
C7	15 May 2023	Air Temp (C)	15.1
C7	15 May 2023	Weather	Overcast
C7	15 May 2023	Visibility (mi)	8
C7	15 May 2023	Wind Speed (kts)	0
C7	15 May 2023	Wind Dir	E
C7	15 May 2023	Water Color	Green
C7	15 May 2023	Wave Ht Low (ft)	5
C7	15 May 2023	Wave Period (sec)	13
C7	15 May 2023	Sea State	Calm
C7	15 May 2023	High Tide (ft)	5.32
C7	15 May 2023	High Tide Time	1924

Station	Date	Parameter	Value
C7	15 May 2023	Low Tide (ft)	0.21
C7	15 May 2023	Low Tide Time	1254
C7	15 May 2023	Comments	Kelp Debris
C7	22 May 2023	Depth (m)	18
C7	22 May 2023	Arrive Time	855
C7	22 May 2023	Depart Time	906
C7	22 May 2023	Air Temp (C)	15.7
C7	22 May 2023	Weather	Overcast
C7	22 May 2023	Visibility (mi)	10
C7	22 May 2023	Wind Speed (kts)	0.3
C7	22 May 2023	Wind Dir	NW
C7	22 May 2023	Water Color	Blue
C7	22 May 2023	Wave Ht Low (ft)	3.3
C7	22 May 2023	Wave Period (sec)	15
C7	22 May 2023	Sea State	Wind Ripples
C7	22 May 2023	High Tide (ft)	5.28
C7	22 May 2023	High Tide Time	2300
C7	22 May 2023	Low Tide (ft)	-0.63
C7	22 May 2023	Low Tide Time	554
C7	22 May 2023	Comments	Recast to get depth; Use 2nd cast
C8	02 May 2023	Depth (m)	20
C8	02 May 2023	Arrive Time	859
C8	02 May 2023	Depart Time	901
C8	02 May 2023	Air Temp (C)	13.9
C8	02 May 2023	Weather	Partly Cloudy
C8	02 May 2023	Visibility (mi)	10
C8	02 May 2023	Wind Speed (kts)	6.4
C8	02 May 2023	Wind Dir	NW
C8	02 May 2023	Water Color	Greenish-Blue
C8	02 May 2023	Wave Ht Low (ft)	2
C8	02 May 2023	Wave Period (sec)	8
C8	02 May 2023	Sea State	Confused Swell
C8	02 May 2023	High Tide (ft)	4.92
C8	02 May 2023	High Tide Time	2006
C8	02 May 2023	Low Tide (ft)	0.56
C8	02 May 2023	Low Tide Time	1354
C8	02 May 2023	Comments	none
C8	09 May 2023	Depth (m)	18
C8	09 May 2023	Arrive Time	848
C8	09 May 2023	Depart Time	852
C8	09 May 2023	Air Temp (C)	15.2
C8	09 May 2023	Weather	Partly Cloudy
C8	09 May 2023	Visibility (mi)	10
C8	09 May 2023	Wind Speed (kts)	4
C8	09 May 2023	Wind Dir	W
C8	09 May 2023	Water Color	Greenish-Blue
C8	09 May 2023	Wave Ht Low (ft)	4
C8	09 May 2023	Wave Period (sec)	6
C8	09 May 2023	Sea State	Confused Swell
C8	09 May 2023	High Tide (ft)	5.53
C8	09 May 2023	High Tide Time	6
C8	09 May 2023	Low Tide (ft)	-0.79
C8	09 May 2023	Low Tide Time	654
C8	09 May 2023	Comments	none
C8	15 May 2023	Depth (m)	19
C8	15 May 2023	Arrive Time	912
C8	15 May 2023	Depart Time	915

Station	Date	Parameter	Value
C8	15 May 2023	Air Temp (C)	15.2
C8	15 May 2023	Weather	Overcast
C8	15 May 2023	Visibility (mi)	8
C8	15 May 2023	Wind Speed (kts)	0
C8	15 May 2023	Wind Dir	SE
C8	15 May 2023	Water Color	Green
C8	15 May 2023	Wave Ht Low (ft)	5
C8	15 May 2023	Wave Period (sec)	13
C8	15 May 2023	Sea State	Calm
C8	15 May 2023	High Tide (ft)	5.32
C8	15 May 2023	High Tide Time	1924
C8	15 May 2023	Low Tide (ft)	0.21
C8	15 May 2023	Low Tide Time	1254
C8	15 May 2023	Comments	none
C8	22 May 2023	Depth (m)	19
C8	22 May 2023	Arrive Time	917
C8	22 May 2023	Depart Time	919
C8	22 May 2023	Air Temp (C)	15.9
C8	22 May 2023	Weather	Overcast
C8	22 May 2023	Visibility (mi)	10
C8	22 May 2023	Wind Speed (kts)	0
C8	22 May 2023	Wind Dir	NE
C8	22 May 2023	Water Color	Blue
C8	22 May 2023	Wave Ht Low (ft)	3.3
C8	22 May 2023	Wave Period (sec)	15
C8	22 May 2023	Sea State	Wind Ripples
C8	22 May 2023	High Tide (ft)	5.28
C8	22 May 2023	High Tide Time	2300
C8	22 May 2023	Low Tide (ft)	-0.63
C8	22 May 2023	Low Tide Time	554
C8	22 May 2023	Comments	none

Table 3.10

Summary of CTD profile data from the PLOO kelp stations for each sample date.

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A1	02 May 2023	1	15.51	85.88	10.1	33.60	8.3	24.8	1.49
A1	02 May 2023	2	15.49	85.77	10.1	33.60	8.3	24.8	1.47
A1	02 May 2023	3	15.44	86.05	9.8	33.59	8.3	24.8	1.67
A1	02 May 2023	4	14.70	84.73	9.3	33.57	8.2	24.9	3.00
A1	02 May 2023	5	14.48	81.18	8.5	33.52	8.1	24.9	4.04
A1	02 May 2023	6	12.82	80.90	7.0	33.56	8.0	25.3	4.05
A1	02 May 2023	7	12.63	86.24	6.3	33.56	7.9	25.3	2.73
A1	02 May 2023	8	12.37	89.66	6.1	33.58	7.9	25.4	1.80
A1	02 May 2023	9	12.36	90.40	6.1	33.57	7.9	25.4	1.22
A1	02 May 2023	10	12.30	90.52	6.1	33.57	7.9	25.4	1.17
A1	02 May 2023	11	12.21	90.82	6.0	33.57	7.9	25.4	1.13
A1	02 May 2023	12	12.15	90.68	5.9	33.57	7.9	25.5	0.97
A1	02 May 2023	13	12.15	90.64	5.9	33.58	7.9	25.5	0.96
A1	02 May 2023	14	12.12	90.73	5.8	33.58	7.9	25.5	1.10
A1	02 May 2023	15	12.06	90.70	5.7	33.59	7.8	25.5	0.89
A1	02 May 2023	16	11.82	90.57	5.4	33.62	7.8	25.5	0.76
A1	02 May 2023	17	11.81	89.69	5.3	33.62	7.8	25.6	0.73
A1	02 May 2023	18	11.78	89.69	5.2	33.63	7.8	25.6	0.68
A1	02 May 2023	19	11.76	89.01	5.2	33.64	7.8	25.6	0.66
A1	09 May 2023	1	16.12	87.25	8.2	33.49	8.1	24.6	1.13
A1	09 May 2023	2	16.13	86.96	8.2	33.49	8.1	24.6	1.25
A1	09 May 2023	3	16.06	87.19	8.2	33.49	8.1	24.6	1.37
A1	09 May 2023	4	15.98	87.04	8.1	33.49	8.1	24.6	1.52
A1	09 May 2023	5	15.95	86.80	8.1	33.49	8.1	24.6	1.64
A1	09 May 2023	6	15.76	86.69	8.0	33.50	8.1	24.6	1.85
A1	09 May 2023	7	15.81	86.42	8.0	33.49	8.1	24.6	1.90
A1	09 May 2023	8	15.77	86.25	7.9	33.49	8.1	24.6	1.96
A1	09 May 2023	9	15.66	86.31	7.4	33.49	8.1	24.7	1.92
A1	09 May 2023	10	14.00	86.55	6.7	33.55	8.0	25.1	1.80
A1	09 May 2023	11	13.04	87.16	6.4	33.56	8.0	25.3	1.72
A1	09 May 2023	12	13.15	87.92	6.4	33.53	7.9	25.2	1.53
A1	09 May 2023	13	13.09	87.87	6.2	33.55	7.9	25.3	1.71
A1	09 May 2023	14	12.36	88.49	5.8	33.56	7.9	25.4	1.50
A1	09 May 2023	15	12.11	88.73	5.6	33.57	7.9	25.5	1.44
A1	09 May 2023	16	12.08	89.11	5.6	33.57	7.8	25.5	1.50
A1	09 May 2023	17	12.05	89.34	5.5	33.57	7.8	25.5	1.35
A1	09 May 2023	18	11.76	89.46	5.2	33.61	7.8	25.6	1.23
A1	15 May 2023	1	15.45	76.77	7.4	33.58	8.0	24.8	5.04
A1	15 May 2023	2	15.37	76.81	7.2	33.58	8.0	24.8	4.78
A1	15 May 2023	3	15.27	76.93	6.8	33.58	8.0	24.8	4.67
A1	15 May 2023	4	13.90	78.05	5.9	33.67	8.0	25.2	3.66
A1	15 May 2023	5	13.01	81.44	5.3	33.66	7.9	25.4	2.40
A1	15 May 2023	6	12.65	83.96	4.9	33.66	7.8	25.4	1.68
A1	15 May 2023	7	12.48	84.71	4.8	33.66	7.8	25.5	1.43
A1	15 May 2023	8	12.34	86.15	4.8	33.67	7.8	25.5	1.34
A1	15 May 2023	9	12.22	86.55	4.7	33.67	7.8	25.5	1.25
A1	15 May 2023	10	12.16	86.89	4.6	33.67	7.8	25.5	1.15
A1	15 May 2023	11	12.09	87.20	4.6	33.67	7.8	25.5	1.08
A1	15 May 2023	12	12.03	87.24	4.5	33.68	7.8	25.6	1.02
A1	15 May 2023	13	11.82	87.52	4.4	33.69	7.8	25.6	0.96
A1	15 May 2023	14	11.69	87.63	4.4	33.69	7.7	25.6	0.90
A1	15 May 2023	15	11.59	87.55	4.3	33.69	7.7	25.6	0.95
A1	15 May 2023	16	11.50	87.72	4.4	33.69	7.7	25.7	0.95
A1	15 May 2023	17	11.45	87.63	4.3	33.70	7.7	25.7	0.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
A1	15 May 2023	18	11.41	87.11	4.2	33.70	7.7	25.7	0.92
A1	22 May 2023	1	17.14	91.28	8.3	33.48	8.1	24.3	0.45
A1	22 May 2023	2	16.81	90.89	8.3	33.48	8.1	24.4	0.66
A1	22 May 2023	3	16.59	90.80	8.3	33.48	8.1	24.4	0.84
A1	22 May 2023	4	15.95	90.25	8.3	33.50	8.1	24.6	1.08
A1	22 May 2023	5	15.04	89.50	8.5	33.47	8.1	24.8	1.44
A1	22 May 2023	6	14.54	88.76	8.8	33.44	8.1	24.9	1.67
A1	22 May 2023	7	14.34	88.90	9.0	33.41	8.1	24.9	1.75
A1	22 May 2023	8	14.36	88.65	8.7	33.42	8.1	24.9	1.78
A1	22 May 2023	9	14.38	88.50	8.6	33.44	8.1	24.9	1.81
A1	22 May 2023	10	14.33	88.58	8.4	33.44	8.1	24.9	1.83
A1	22 May 2023	11	14.13	88.46	8.1	33.47	8.1	25.0	1.78
A1	22 May 2023	12	13.96	88.52	8.0	33.47	8.1	25.0	1.77
A1	22 May 2023	13	13.92	88.58	7.9	33.47	8.1	25.0	1.70
A1	22 May 2023	14	13.81	88.58	7.6	33.48	8.0	25.1	1.59
A1	22 May 2023	15	13.75	88.52	7.2	33.49	8.0	25.1	1.52
A1	22 May 2023	16	13.13	88.73	6.4	33.53	8.0	25.2	1.29
A1	22 May 2023	17	12.50	89.12	5.9	33.54	7.9	25.4	1.04
A1	22 May 2023	18	12.46	89.88	5.8	33.53	7.9	25.4	0.89
A1	22 May 2023	19	12.74	89.05	6.2	33.52	7.9	25.3	0.95
A6	02 May 2023	1	15.79	82.11	10.5	33.61	8.4	24.7	2.82
A6	02 May 2023	2	15.79	84.16	10.5	33.62	8.4	24.7	3.26
A6	02 May 2023	3	15.79	84.54	10.5	33.62	8.4	24.7	3.60
A6	02 May 2023	4	15.78	84.56	10.4	33.62	8.4	24.7	3.98
A6	02 May 2023	5	15.70	84.56	10.0	33.61	8.4	24.7	4.88
A6	02 May 2023	6	15.17	83.31	9.4	33.62	8.3	24.9	5.88
A6	02 May 2023	7	14.50	81.42	8.6	33.58	8.2	25.0	6.78
A6	02 May 2023	8	13.68	80.85	7.9	33.53	8.1	25.1	6.28
A6	02 May 2023	9	13.17	81.58	7.4	33.51	8.1	25.2	6.09
A6	02 May 2023	10	12.87	82.36	6.9	33.52	8.0	25.3	4.88
A6	02 May 2023	11	12.61	84.17	6.6	33.54	8.0	25.3	3.44
A6	02 May 2023	12	12.68	85.77	6.4	33.51	8.0	25.3	2.88
A6	02 May 2023	13	12.11	87.25	6.2	33.54	7.9	25.4	1.96
A6	02 May 2023	14	12.09	89.88	6.0	33.52	7.9	25.4	1.26
A6	02 May 2023	15	11.98	89.38	6.0	33.53	7.9	25.5	1.19
A6	02 May 2023	16	11.93	90.50	5.8	33.52	7.9	25.5	1.01
A6	02 May 2023	17	11.85	90.85	5.7	33.54	7.9	25.5	0.87
A6	02 May 2023	18	11.76	90.86	5.6	33.55	7.9	25.5	0.79
A6	02 May 2023	19	11.70	90.81	5.5	33.56	7.8	25.5	0.72
A6	02 May 2023	20	11.67	90.60	5.4	33.57	7.8	25.5	0.68
A6	09 May 2023	1	16.40	76.95	8.4	33.53	8.2	24.5	0.70
A6	09 May 2023	2	16.35	71.69	8.3	33.53	8.2	24.5	0.74
A6	09 May 2023	3	16.06	80.32	8.2	33.53	8.2	24.6	0.85
A6	09 May 2023	4	15.73	86.71	8.0	33.52	8.1	24.7	1.01
A6	09 May 2023	5	15.16	86.83	7.7	33.52	8.1	24.8	1.12
A6	09 May 2023	6	14.78	86.96	7.6	33.51	8.1	24.9	1.26
A6	09 May 2023	7	14.49	86.98	7.5	33.51	8.1	24.9	1.46
A6	09 May 2023	8	14.34	86.97	7.3	33.51	8.0	25.0	1.54
A6	09 May 2023	9	14.09	86.74	7.1	33.51	8.0	25.0	1.64
A6	09 May 2023	10	14.04	86.77	7.1	33.51	8.0	25.0	1.82
A6	09 May 2023	11	14.05	86.95	7.1	33.52	8.0	25.0	1.85
A6	09 May 2023	12	13.96	86.90	7.0	33.52	8.0	25.1	1.92
A6	09 May 2023	13	13.94	86.83	6.9	33.52	8.0	25.1	1.91
A6	09 May 2023	14	13.66	87.27	6.7	33.54	8.0	25.1	1.87
A6	09 May 2023	15	13.42	87.39	6.5	33.55	8.0	25.2	1.66
A6	09 May 2023	16	13.21	87.86	6.2	33.55	7.9	25.2	1.52
A6	09 May 2023	17	12.76	88.58	6.0	33.58	7.9	25.3	1.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A6	15 May 2023	1	16.25	82.31	7.8	33.54	8.1	24.6	2.24
A6	15 May 2023	2	16.22	82.21	7.7	33.54	8.1	24.6	2.50
A6	15 May 2023	3	16.04	82.10	7.4	33.55	8.1	24.6	2.82
A6	15 May 2023	4	15.55	82.28	7.0	33.56	8.0	24.7	2.40
A6	15 May 2023	5	15.17	83.45	6.7	33.57	8.0	24.8	1.99
A6	15 May 2023	6	14.66	85.03	6.4	33.60	8.0	25.0	1.65
A6	15 May 2023	7	14.37	85.40	6.2	33.60	8.0	25.0	1.62
A6	15 May 2023	8	14.27	85.43	6.1	33.59	8.0	25.0	1.60
A6	15 May 2023	9	13.79	85.77	5.8	33.62	7.9	25.2	1.49
A6	15 May 2023	10	13.18	86.25	5.3	33.64	7.9	25.3	1.34
A6	15 May 2023	11	12.71	87.47	5.0	33.65	7.8	25.4	1.23
A6	15 May 2023	12	12.44	88.05	4.8	33.65	7.8	25.5	1.10
A6	15 May 2023	13	12.07	88.49	4.6	33.67	7.8	25.5	1.03
A6	15 May 2023	14	11.52	88.72	4.4	33.70	7.8	25.7	0.91
A6	15 May 2023	15	11.18	89.28	4.2	33.70	7.7	25.7	0.81
A6	15 May 2023	16	11.16	89.69	4.2	33.70	7.7	25.7	0.78
A6	15 May 2023	17	11.16	89.86	4.2	33.70	7.7	25.7	0.77
A6	15 May 2023	18	11.13	90.01	4.2	33.70	7.7	25.7	0.74
A6	15 May 2023	19	11.12	89.96	4.2	33.70	7.7	25.7	0.75
A6	15 May 2023	20	11.12	90.04	4.2	33.71	7.7	25.7	0.72
A6	22 May 2023	1	16.93	90.89	8.4	33.48	8.2	24.4	0.63
A6	22 May 2023	2	16.93	90.84	8.4	33.48	8.2	24.4	0.66
A6	22 May 2023	3	16.93	90.78	8.4	33.48	8.2	24.4	0.68
A6	22 May 2023	4	16.90	90.75	8.4	33.48	8.2	24.4	0.72
A6	22 May 2023	5	16.86	90.77	8.4	33.48	8.2	24.4	0.89
A6	22 May 2023	6	16.67	90.68	8.2	33.48	8.2	24.4	1.05
A6	22 May 2023	7	15.83	90.10	8.2	33.50	8.2	24.6	1.35
A6	22 May 2023	8	15.31	89.07	7.9	33.52	8.1	24.8	1.54
A6	22 May 2023	9	15.14	88.43	7.5	33.51	8.1	24.8	1.62
A6	22 May 2023	10	14.80	88.20	7.3	33.52	8.1	24.9	1.50
A6	22 May 2023	11	14.71	88.44	7.2	33.52	8.1	24.9	1.34
A6	22 May 2023	12	14.58	88.59	7.1	33.52	8.1	24.9	1.29
A6	22 May 2023	13	14.42	88.58	7.1	33.52	8.1	25.0	1.24
A6	22 May 2023	14	14.31	88.99	7.0	33.52	8.0	25.0	1.18
A6	22 May 2023	15	14.17	88.97	6.8	33.52	8.0	25.0	1.16
A6	22 May 2023	16	13.85	89.27	6.7	33.52	8.0	25.1	1.05
A6	22 May 2023	17	13.57	89.72	6.6	33.52	8.0	25.1	0.93
A6	22 May 2023	18	13.36	90.22	6.4	33.52	8.0	25.2	0.92
A6	22 May 2023	19	13.19	90.35	6.4	33.52	8.0	25.2	1.03
A6	22 May 2023	20	13.13	90.23	6.4	33.52	8.0	25.2	0.93
A6	22 May 2023	21	13.13	88.09	6.4	33.52	8.0	25.2	0.75
A7	02 May 2023	1	15.73	73.99	10.4	33.60	8.3	24.7	3.18
A7	02 May 2023	2	15.72	76.34	10.3	33.60	8.3	24.7	3.59
A7	02 May 2023	3	15.70	82.97	10.3	33.61	8.3	24.7	3.84
A7	02 May 2023	4	15.69	84.30	10.2	33.61	8.3	24.7	3.81
A7	02 May 2023	5	15.39	84.65	9.6	33.61	8.3	24.8	3.99
A7	02 May 2023	6	14.92	84.43	8.8	33.59	8.3	24.9	4.36
A7	02 May 2023	7	13.70	83.94	7.8	33.56	8.2	25.1	4.98
A7	02 May 2023	8	12.97	82.96	7.0	33.55	8.0	25.3	4.18
A7	02 May 2023	9	12.81	84.56	6.7	33.53	8.0	25.3	3.14
A7	02 May 2023	10	12.67	86.77	6.6	33.53	8.0	25.3	2.39
A7	02 May 2023	11	12.63	88.23	6.5	33.54	8.0	25.3	1.92
A7	02 May 2023	12	12.60	88.02	6.5	33.54	8.0	25.3	1.81
A7	02 May 2023	13	12.41	88.43	6.3	33.56	7.9	25.4	1.58
A7	02 May 2023	14	12.36	88.46	6.1	33.56	7.9	25.4	1.41
A7	02 May 2023	15	12.11	89.40	5.9	33.58	7.9	25.5	1.06
A7	02 May 2023	16	12.04	89.63	5.8	33.58	7.9	25.5	0.92
A7	02 May 2023	17	11.99	90.07	5.7	33.57	7.9	25.5	0.86
A7	02 May 2023	18	11.99	90.78	5.7	33.58	7.9	25.5	1.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A7	02 May 2023	19	11.96	90.88	5.7	33.58	7.9	25.5	0.86
A7	02 May 2023	20	11.89	90.92	5.6	33.58	7.9	25.5	0.97
A7	09 May 2023	1	16.26	87.14	8.4	33.50	8.1	24.5	0.70
A7	09 May 2023	2	16.25	87.16	8.4	33.50	8.1	24.5	0.69
A7	09 May 2023	3	16.23	87.08	8.4	33.50	8.1	24.5	0.72
A7	09 May 2023	4	16.16	87.14	8.3	33.50	8.1	24.6	0.78
A7	09 May 2023	5	15.87	86.50	8.2	33.50	8.1	24.6	0.95
A7	09 May 2023	6	15.83	86.51	8.0	33.49	8.1	24.6	1.03
A7	09 May 2023	7	15.30	86.55	7.8	33.51	8.1	24.8	1.10
A7	09 May 2023	8	14.88	86.84	7.6	33.51	8.1	24.8	1.18
A7	09 May 2023	9	14.48	87.13	7.2	33.52	8.0	24.9	1.26
A7	09 May 2023	10	13.49	87.27	6.9	33.54	8.0	25.2	1.38
A7	09 May 2023	11	13.38	87.32	6.6	33.52	8.0	25.2	1.44
A7	09 May 2023	12	13.21	87.43	6.4	33.53	8.0	25.2	1.69
A7	09 May 2023	13	13.03	87.96	6.1	33.55	7.9	25.3	1.42
A7	09 May 2023	14	13.01	88.65	6.1	33.55	7.9	25.3	1.32
A7	09 May 2023	15	12.99	88.99	6.0	33.55	7.9	25.3	1.42
A7	09 May 2023	16	12.86	88.94	5.9	33.56	7.9	25.3	1.36
A7	09 May 2023	17	12.67	89.28	5.6	33.58	7.9	25.4	1.09
A7	09 May 2023	18	12.15	89.80	5.3	33.62	7.8	25.5	0.93
A7	09 May 2023	19	12.81	90.21	5.6	33.55	7.8	25.3	1.05
A7	15 May 2023	1	16.28	82.87	7.6	33.54	8.1	24.6	2.00
A7	15 May 2023	2	15.70	82.82	7.1	33.58	8.1	24.7	2.06
A7	15 May 2023	3	14.87	82.93	6.4	33.61	8.0	24.9	2.01
A7	15 May 2023	4	13.95	83.94	5.8	33.64	7.9	25.1	1.90
A7	15 May 2023	5	13.24	84.85	5.4	33.65	7.9	25.3	1.76
A7	15 May 2023	6	12.81	86.21	5.2	33.65	7.8	25.4	1.56
A7	15 May 2023	7	12.73	86.82	5.1	33.64	7.8	25.4	1.51
A7	15 May 2023	8	12.48	86.88	5.0	33.65	7.8	25.4	1.52
A7	15 May 2023	9	12.19	86.59	4.9	33.66	7.8	25.5	1.39
A7	15 May 2023	10	12.04	87.25	4.8	33.66	7.8	25.5	1.38
A7	15 May 2023	11	11.95	87.92	4.7	33.66	7.8	25.6	1.30
A7	15 May 2023	12	11.88	88.19	4.7	33.67	7.8	25.6	1.18
A7	15 May 2023	13	11.78	88.29	4.6	33.68	7.8	25.6	1.13
A7	15 May 2023	14	11.70	88.57	4.5	33.68	7.8	25.6	1.03
A7	15 May 2023	15	11.64	88.92	4.3	33.68	7.7	25.6	0.96
A7	15 May 2023	16	11.38	89.28	4.2	33.70	7.7	25.7	0.84
A7	15 May 2023	17	11.08	89.64	4.0	33.72	7.7	25.8	0.71
A7	15 May 2023	18	11.04	89.63	4.0	33.71	7.7	25.8	0.65
A7	15 May 2023	19	11.04	89.72	4.0	33.71	7.7	25.8	0.61
A7	15 May 2023	20	11.01	89.59	4.0	33.72	7.7	25.8	0.60
A7	22 May 2023	1	17.10	91.29	8.3	33.48	8.2	24.3	0.42
A7	22 May 2023	2	17.10	89.22	8.3	33.48	8.2	24.3	0.43
A7	22 May 2023	3	17.06	90.43	8.3	33.48	8.2	24.3	0.45
A7	22 May 2023	4	17.00	91.56	8.3	33.48	8.2	24.3	0.47
A7	22 May 2023	5	16.99	91.65	8.4	33.48	8.2	24.3	0.53
A7	22 May 2023	6	16.97	91.57	8.4	33.48	8.2	24.4	0.69
A7	22 May 2023	7	16.85	90.97	8.4	33.48	8.2	24.4	0.89
A7	22 May 2023	8	16.72	90.41	8.4	33.48	8.2	24.4	1.09
A7	22 May 2023	9	16.38	89.61	8.0	33.50	8.2	24.5	1.27
A7	22 May 2023	10	15.11	88.71	8.0	33.51	8.1	24.8	1.46
A7	22 May 2023	11	14.73	88.55	8.2	33.48	8.1	24.9	1.51
A7	22 May 2023	12	14.47	88.77	8.4	33.45	8.1	24.9	1.72
A7	22 May 2023	13	14.26	88.80	8.2	33.46	8.1	24.9	1.72
A7	22 May 2023	14	14.23	88.39	7.8	33.47	8.1	25.0	1.63
A7	22 May 2023	15	14.23	88.45	7.6	33.48	8.1	25.0	1.45
A7	22 May 2023	16	14.20	88.90	7.4	33.49	8.1	25.0	1.36
A7	22 May 2023	17	13.96	89.37	6.8	33.51	8.1	25.0	1.18

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
A7	22 May 2023	18	12.98	89.73	6.1	33.54	8.0	25.3	0.94
A7	22 May 2023	19	12.17	90.32	5.7	33.53	7.9	25.4	0.86
A7	22 May 2023	20	12.14	90.53	5.7	33.51	7.9	25.4	0.86
C4	02 May 2023	1	15.77	82.04	10.1	33.62	8.4	24.7	1.12
C4	02 May 2023	2	15.76	82.56	10.0	33.62	8.4	24.7	1.18
C4	02 May 2023	3	15.64	82.31	9.5	33.62	8.3	24.8	1.50
C4	02 May 2023	4	14.27	82.37	7.9	33.62	8.3	25.1	1.68
C4	02 May 2023	5	13.32	84.72	6.7	33.59	8.1	25.2	1.44
C4	02 May 2023	6	13.23	87.03	6.3	33.58	8.0	25.2	1.01
C4	02 May 2023	7	13.14	87.49	6.2	33.58	8.0	25.3	0.74
C4	02 May 2023	8	13.09	87.35	6.2	33.58	8.0	25.3	0.58
C4	02 May 2023	9	13.01	86.35	6.2	33.58	8.0	25.3	0.60
C4	02 May 2023	10	13.00	84.97	6.2	33.58	8.0	25.3	0.60
C4	02 May 2023	11	13.00	84.57	6.2	33.58	8.0	25.3	0.55
C4	02 May 2023	12	13.01	84.87	6.2	33.58	8.0	25.3	0.55
C4	09 May 2023	1	16.12	87.71	8.0	33.51	8.1	24.6	0.54
C4	09 May 2023	2	15.95	87.71	7.9	33.52	8.1	24.6	0.70
C4	09 May 2023	3	15.49	86.49	7.4	33.53	8.1	24.7	1.00
C4	09 May 2023	4	14.51	85.38	6.8	33.56	8.0	25.0	0.87
C4	09 May 2023	5	13.71	86.68	6.3	33.58	8.0	25.1	0.73
C4	09 May 2023	6	13.26	88.61	5.9	33.58	7.9	25.2	0.67
C4	09 May 2023	7	12.72	89.29	5.1	33.60	7.9	25.4	0.51
C4	09 May 2023	8	12.51	88.77	4.7	33.60	7.8	25.4	0.39
C4	09 May 2023	9	12.33	86.84	4.7	33.62	7.8	25.5	0.34
C4	09 May 2023	10	12.24	84.72	4.8	33.62	7.8	25.5	0.36
C4	09 May 2023	11	12.23	83.34	4.8	33.62	7.8	25.5	0.36
C4	15 May 2023	1	15.13	78.82	7.0	33.59	8.0	24.9	2.75
C4	15 May 2023	2	14.74	78.76	6.7	33.61	8.0	25.0	3.93
C4	15 May 2023	3	14.35	75.06	6.2	33.61	7.9	25.0	4.22
C4	15 May 2023	4	13.90	73.79	5.9	33.63	7.9	25.1	3.37
C4	15 May 2023	5	13.78	76.65	5.8	33.62	7.9	25.2	2.85
C4	15 May 2023	6	13.68	77.83	5.7	33.62	7.9	25.2	2.57
C4	15 May 2023	7	13.57	78.44	5.5	33.62	7.9	25.2	2.20
C4	15 May 2023	8	13.28	78.83	5.1	33.64	7.8	25.3	1.62
C4	15 May 2023	9	12.83	80.57	4.5	33.66	7.8	25.4	1.25
C4	15 May 2023	10	12.46	80.07	4.0	33.67	7.8	25.5	0.88
C4	15 May 2023	11	12.44	75.69	4.0	33.66	7.7	25.5	0.77
C4	22 May 2023	1	16.79	88.92	8.2	33.50	8.2	24.4	1.12
C4	22 May 2023	2	16.75	87.47	8.2	33.51	8.2	24.4	1.19
C4	22 May 2023	3	16.64	88.87	8.0	33.51	8.2	24.5	1.15
C4	22 May 2023	4	16.53	89.33	7.9	33.50	8.1	24.5	0.97
C4	22 May 2023	5	16.42	89.83	7.9	33.51	8.1	24.5	0.95
C4	22 May 2023	6	16.17	89.55	7.7	33.51	8.1	24.6	1.02
C4	22 May 2023	7	15.21	89.78	6.6	33.54	8.1	24.8	0.87
C4	22 May 2023	8	14.16	89.30	6.0	33.54	8.0	25.0	0.56
C4	22 May 2023	9	13.90	88.65	6.1	33.53	8.0	25.1	0.48
C4	22 May 2023	10	13.77	88.10	6.1	33.52	8.0	25.1	0.48
C4	22 May 2023	11	13.94	87.06	6.2	33.52	8.0	25.1	0.45
C5	02 May 2023	1	15.76	79.69	9.8	33.63	8.3	24.7	1.53
C5	02 May 2023	2	15.62	80.07	9.0	33.63	8.3	24.8	1.75
C5	02 May 2023	3	14.22	77.85	7.8	33.63	8.2	25.1	1.86
C5	02 May 2023	4	13.63	84.46	7.2	33.59	8.1	25.2	1.08
C5	02 May 2023	5	13.63	87.40	7.1	33.58	8.1	25.2	0.75
C5	02 May 2023	6	13.62	87.05	7.2	33.58	8.1	25.2	0.68
C5	02 May 2023	7	13.47	86.56	7.0	33.58	8.1	25.2	0.75
C5	02 May 2023	8	13.18	86.08	6.9	33.58	8.0	25.3	0.87

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
C5	02 May 2023	9	13.16	85.54	6.8	33.58	8.0	25.3	0.90
C5	02 May 2023	10	13.15	81.66	6.8	33.59	8.0	25.3	0.88
C5	02 May 2023	11	13.16	80.26	6.8	33.59	8.0	25.3	0.74
C5	09 May 2023	1	16.13	87.15	8.1	33.51	8.1	24.6	0.59
C5	09 May 2023	2	16.13	87.04	8.1	33.51	8.1	24.6	0.63
C5	09 May 2023	3	16.16	86.80	8.0	33.51	8.1	24.6	0.69
C5	09 May 2023	4	15.49	86.81	7.2	33.55	8.1	24.7	0.66
C5	09 May 2023	5	14.16	85.09	6.5	33.58	8.0	25.1	0.49
C5	09 May 2023	6	13.19	86.19	6.0	33.58	7.9	25.3	0.39
C5	09 May 2023	7	12.60	88.02	5.6	33.60	7.9	25.4	0.38
C5	09 May 2023	8	12.28	87.69	5.3	33.59	7.8	25.4	0.37
C5	09 May 2023	9	12.54	86.19	5.4	33.57	7.8	25.4	0.38
C5	09 May 2023	10	12.26	83.58	5.4	33.59	7.8	25.4	0.42
C5	15 May 2023	1	16.09	80.44	7.6	33.56	8.1	24.6	1.92
C5	15 May 2023	2	16.00	80.21	7.4	33.56	8.1	24.6	2.06
C5	15 May 2023	3	15.81	80.35	6.8	33.57	8.1	24.7	1.87
C5	15 May 2023	4	14.61	80.99	5.8	33.61	8.0	25.0	1.37
C5	15 May 2023	5	13.20	82.64	5.1	33.66	7.9	25.3	1.01
C5	15 May 2023	6	12.67	84.15	4.8	33.65	7.8	25.4	0.88
C5	15 May 2023	7	12.54	86.42	4.7	33.64	7.8	25.4	0.78
C5	15 May 2023	8	12.36	87.64	4.6	33.65	7.8	25.5	0.72
C5	15 May 2023	9	12.28	87.98	4.6	33.65	7.8	25.5	0.69
C5	15 May 2023	10	12.18	88.03	4.6	33.66	7.8	25.5	0.66
C5	15 May 2023	11	12.12	86.39	4.6	33.66	7.8	25.5	0.65
C5	22 May 2023	1	16.98	87.50	8.5	33.51	8.2	24.4	1.42
C5	22 May 2023	2	16.96	87.19	8.5	33.51	8.2	24.4	1.69
C5	22 May 2023	3	16.90	87.24	8.4	33.51	8.2	24.4	1.88
C5	22 May 2023	4	16.78	86.95	8.3	33.52	8.2	24.4	1.97
C5	22 May 2023	5	16.70	87.09	8.3	33.51	8.2	24.4	1.79
C5	22 May 2023	6	16.47	87.42	8.3	33.51	8.2	24.5	1.56
C5	22 May 2023	7	16.34	87.91	8.2	33.51	8.2	24.5	1.35
C5	22 May 2023	8	16.20	88.28	7.6	33.52	8.1	24.6	1.26
C5	22 May 2023	9	14.93	88.41	6.7	33.53	8.1	24.9	1.00
C5	22 May 2023	10	13.46	88.93	6.2	33.55	8.0	25.2	0.68
C5	22 May 2023	11	13.95	86.77	6.5	33.50	8.0	25.0	0.61
C6	02 May 2023	1	15.81	75.22	9.8	33.63	8.3	24.7	1.33
C6	02 May 2023	2	15.80	80.14	9.8	33.63	8.3	24.7	1.36
C6	02 May 2023	3	15.80	80.81	9.8	33.63	8.3	24.7	1.45
C6	02 May 2023	4	15.80	81.14	9.6	33.63	8.3	24.7	1.66
C6	02 May 2023	5	15.51	79.83	9.0	33.64	8.3	24.8	2.18
C6	02 May 2023	6	14.39	81.45	8.1	33.63	8.2	25.0	2.00
C6	02 May 2023	7	13.94	86.63	7.7	33.58	8.1	25.1	1.22
C6	02 May 2023	8	13.66	88.34	7.4	33.58	8.1	25.2	1.05
C6	02 May 2023	9	13.33	88.32	7.1	33.57	8.1	25.2	0.85
C6	02 May 2023	10	13.28	87.70	7.0	33.59	8.1	25.2	0.68
C6	09 May 2023	1	16.13	82.71	8.2	33.50	8.1	24.6	0.50
C6	09 May 2023	2	16.14	66.80	8.2	33.49	8.1	24.6	0.49
C6	09 May 2023	3	16.13	81.34	8.2	33.51	8.1	24.6	0.53
C6	09 May 2023	4	15.83	84.76	7.9	33.52	8.1	24.6	0.71
C6	09 May 2023	5	15.33	82.66	7.6	33.52	8.1	24.8	0.90
C6	09 May 2023	6	14.50	85.36	6.7	33.57	8.0	25.0	0.90
C6	09 May 2023	7	12.84	87.40	5.5	33.59	7.9	25.3	0.53
C6	09 May 2023	8	12.21	85.65	5.2	33.59	7.8	25.5	0.43
C6	09 May 2023	9	12.19	84.90	5.3	33.58	7.8	25.4	0.49
C6	15 May 2023	1	16.29	80.80	7.7	33.55	8.1	24.6	2.02

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C6	15 May 2023	2	16.18	80.75	7.6	33.56	8.1	24.6	2.54
C6	15 May 2023	3	16.09	80.38	7.5	33.56	8.1	24.6	3.22
C6	15 May 2023	4	16.07	79.50	7.0	33.56	8.1	24.6	3.14
C6	15 May 2023	5	14.82	79.22	6.0	33.62	8.0	24.9	2.16
C6	15 May 2023	6	13.62	79.97	5.2	33.65	7.9	25.2	1.32
C6	15 May 2023	7	12.72	81.90	4.8	33.66	7.8	25.4	0.99
C6	15 May 2023	8	12.32	83.55	4.6	33.66	7.8	25.5	0.81
C6	15 May 2023	9	12.25	83.51	4.5	33.65	7.8	25.5	0.75
C6	22 May 2023	1	17.06	83.00	8.5	33.52	8.2	24.4	2.71
C6	22 May 2023	2	17.05	83.26	8.5	33.52	8.2	24.4	2.95
C6	22 May 2023	3	17.04	83.55	8.4	33.52	8.2	24.4	3.19
C6	22 May 2023	4	17.00	83.99	8.4	33.52	8.2	24.4	2.61
C6	22 May 2023	5	16.94	84.79	8.3	33.52	8.2	24.4	2.12
C6	22 May 2023	6	16.83	85.90	8.1	33.52	8.2	24.4	1.78
C6	22 May 2023	7	16.64	85.57	7.7	33.53	8.1	24.5	1.35
C6	22 May 2023	8	15.97	87.53	7.4	33.55	8.1	24.6	1.03
C6	22 May 2023	9	14.97	88.75	6.9	33.56	8.1	24.9	0.77
C6	22 May 2023	10	14.92	81.13	7.0	33.50	8.0	24.8	0.52
C7	02 May 2023	1	15.82	73.76	9.6	33.62	8.4	24.7	2.40
C7	02 May 2023	2	15.82	64.53	9.9	33.62	8.4	24.7	4.84
C7	02 May 2023	3	15.82	79.95	10.0	33.61	8.4	24.7	5.25
C7	02 May 2023	4	15.81	80.16	9.6	33.61	8.4	24.7	4.86
C7	02 May 2023	5	15.79	79.99	9.6	33.63	8.4	24.7	4.84
C7	02 May 2023	6	15.47	76.64	9.7	33.85	8.3	25.0	5.17
C7	02 May 2023	7	14.99	77.01	9.6	33.94	8.2	25.2	5.22
C7	02 May 2023	8	14.21	81.41	9.0	33.98	8.2	25.4	5.50
C7	02 May 2023	9	13.77	81.56	8.2	33.74	8.1	25.3	6.35
C7	02 May 2023	10	13.83	81.86	7.8	33.62	8.1	25.2	6.87
C7	02 May 2023	11	13.28	83.13	7.5	33.64	8.1	25.3	6.59
C7	02 May 2023	12	12.93	83.05	7.3	33.56	8.0	25.3	6.34
C7	02 May 2023	13	12.92	83.42	7.2	33.51	8.0	25.3	6.61
C7	02 May 2023	14	12.85	86.27	7.0	33.54	8.0	25.3	6.30
C7	02 May 2023	15	12.84	87.88	6.9	33.53	8.0	25.3	4.50
C7	02 May 2023	16	12.72	88.88	6.7	33.56	8.0	25.3	3.19
C7	02 May 2023	17	12.45	89.44	6.2	33.59	8.0	25.4	2.64
C7	02 May 2023	18	12.26	90.38	6.0	33.57	7.9	25.4	1.64
C7	09 May 2023	1	16.48	84.60	8.5	33.53	8.2	24.5	1.03
C7	09 May 2023	2	16.23	84.30	8.3	33.53	8.2	24.6	1.20
C7	09 May 2023	3	16.09	83.78	8.1	33.53	8.1	24.6	1.42
C7	09 May 2023	4	15.97	83.31	8.0	33.53	8.1	24.6	1.87
C7	09 May 2023	5	15.88	82.85	7.9	33.53	8.1	24.6	2.15
C7	09 May 2023	6	15.68	82.86	7.8	33.53	8.1	24.7	2.26
C7	09 May 2023	7	15.55	83.15	7.7	33.53	8.1	24.7	2.35
C7	09 May 2023	8	15.34	83.41	7.5	33.53	8.1	24.8	2.34
C7	09 May 2023	9	14.61	83.54	7.4	33.54	8.1	24.9	2.18
C7	09 May 2023	10	14.31	85.55	7.2	33.52	8.0	25.0	2.02
C7	09 May 2023	11	13.86	86.65	6.8	33.52	8.0	25.1	1.95
C7	09 May 2023	12	13.26	87.12	6.3	33.53	8.0	25.2	1.62
C7	09 May 2023	13	12.42	88.09	6.0	33.55	7.9	25.4	1.30
C7	09 May 2023	14	12.53	89.29	5.8	33.52	7.9	25.3	1.28
C7	09 May 2023	15	12.03	89.58	5.5	33.56	7.9	25.5	1.22
C7	09 May 2023	16	11.77	89.90	5.1	33.58	7.8	25.5	1.01
C7	09 May 2023	17	11.66	90.00	5.0	33.59	7.8	25.6	0.89
C7	15 May 2023	1	16.14	74.13	7.8	33.55	8.1	24.6	5.11
C7	15 May 2023	2	15.98	74.07	7.7	33.56	8.1	24.6	4.77
C7	15 May 2023	3	15.86	74.84	7.4	33.56	8.1	24.7	3.80
C7	15 May 2023	4	15.53	78.50	6.9	33.56	8.0	24.7	2.94

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C7	15 May 2023	5	14.67	80.99	6.2	33.58	8.0	24.9	2.15
C7	15 May 2023	6	13.76	84.02	5.7	33.61	7.9	25.2	1.78
C7	15 May 2023	7	12.99	86.84	5.2	33.63	7.9	25.3	1.45
C7	15 May 2023	8	12.27	88.32	4.7	33.66	7.8	25.5	1.03
C7	15 May 2023	9	11.97	89.16	4.5	33.67	7.8	25.6	0.89
C7	15 May 2023	10	11.79	89.60	4.4	33.67	7.8	25.6	0.83
C7	15 May 2023	11	11.76	89.64	4.4	33.67	7.8	25.6	0.84
C7	15 May 2023	12	11.71	89.80	4.4	33.67	7.8	25.6	0.84
C7	15 May 2023	13	11.57	89.61	4.4	33.69	7.8	25.6	0.81
C7	15 May 2023	14	11.50	89.38	4.3	33.69	7.8	25.7	0.84
C7	15 May 2023	15	11.43	89.55	4.3	33.69	7.8	25.7	0.88
C7	15 May 2023	16	11.21	89.63	4.2	33.70	7.7	25.7	0.88
C7	15 May 2023	17	11.11	89.80	4.2	33.71	7.7	25.7	0.75
C7	15 May 2023	18	11.10	89.97	4.1	33.71	7.7	25.8	0.66
C7	22 May 2023	1	17.05	88.82	8.4	33.50	8.2	24.4	1.05
C7	22 May 2023	2	17.04	88.62	8.4	33.50	8.2	24.4	1.11
C7	22 May 2023	3	17.04	88.82	8.4	33.50	8.2	24.4	1.05
C7	22 May 2023	4	17.04	88.65	8.4	33.50	8.2	24.4	1.10
C7	22 May 2023	5	17.04	88.61	8.4	33.50	8.2	24.4	1.20
C7	22 May 2023	6	17.04	88.50	8.4	33.50	8.2	24.4	1.26
C7	22 May 2023	7	17.04	88.61	8.4	33.50	8.2	24.4	1.30
C7	22 May 2023	8	17.02	88.22	8.4	33.50	8.2	24.4	1.35
C7	22 May 2023	9	16.95	88.22	8.4	33.50	8.2	24.4	1.45
C7	22 May 2023	10	16.77	87.52	8.5	33.51	8.2	24.4	1.62
C7	22 May 2023	11	16.64	86.73	8.4	33.51	8.2	24.5	1.81
C7	22 May 2023	12	16.15	86.36	8.1	33.53	8.2	24.6	1.93
C7	22 May 2023	13	15.77	86.62	7.8	33.53	8.1	24.7	1.77
C7	22 May 2023	14	15.48	87.21	7.4	33.54	8.1	24.7	1.63
C7	22 May 2023	15	14.91	87.40	7.2	33.55	8.1	24.9	1.46
C7	22 May 2023	16	14.13	88.44	6.8	33.54	8.0	25.0	1.39
C7	22 May 2023	17	13.39	89.88	6.3	33.55	8.0	25.2	1.02
C7	22 May 2023	18	13.74	90.52	6.5	33.52	8.0	25.1	0.85
C8	02 May 2023	1	15.77	80.39	10.7	33.62	8.4	24.7	4.03
C8	02 May 2023	2	15.77	80.05	10.7	33.62	8.4	24.7	5.32
C8	02 May 2023	3	15.77	80.38	10.7	33.62	8.4	24.7	5.98
C8	02 May 2023	4	15.77	80.36	10.7	33.62	8.4	24.7	6.71
C8	02 May 2023	5	15.77	80.28	10.7	33.62	8.4	24.7	7.00
C8	02 May 2023	6	15.76	80.18	10.5	33.62	8.4	24.7	7.51
C8	02 May 2023	7	15.65	79.41	10.2	33.62	8.3	24.8	8.30
C8	02 May 2023	8	15.38	76.98	9.4	33.62	8.3	24.8	8.64
C8	02 May 2023	9	14.46	78.90	8.6	33.62	8.2	25.0	7.71
C8	02 May 2023	10	14.25	82.31	8.1	33.59	8.2	25.0	6.01
C8	02 May 2023	11	13.86	83.62	7.7	33.59	8.1	25.1	5.15
C8	02 May 2023	12	13.55	84.95	7.4	33.58	8.1	25.2	3.98
C8	02 May 2023	13	13.37	86.30	7.2	33.56	8.1	25.2	3.40
C8	02 May 2023	14	12.78	87.78	6.9	33.52	8.0	25.3	2.71
C8	02 May 2023	15	12.40	89.02	6.5	33.52	8.0	25.4	1.98
C8	02 May 2023	16	12.33	90.26	6.3	33.52	7.9	25.4	1.48
C8	02 May 2023	17	12.31	90.81	6.2	33.53	7.9	25.4	1.47
C8	02 May 2023	18	12.22	91.00	6.0	33.55	7.9	25.4	1.06
C8	02 May 2023	19	12.24	90.72	5.9	33.56	7.9	25.4	0.82
C8	09 May 2023	1	16.75	75.66	8.6	33.50	8.2	24.4	1.32
C8	09 May 2023	2	16.70	81.36	8.6	33.51	8.2	24.4	1.38
C8	09 May 2023	3	16.47	84.22	8.3	33.53	8.2	24.5	1.54
C8	09 May 2023	4	16.36	83.75	8.0	33.53	8.1	24.5	1.69
C8	09 May 2023	5	15.33	82.35	7.4	33.55	8.1	24.8	1.89
C8	09 May 2023	6	14.15	83.00	7.0	33.55	8.0	25.0	2.01
C8	09 May 2023	7	14.43	84.36	7.0	33.50	8.0	24.9	2.08

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C8	09 May 2023	8	14.04	84.27	6.8	33.54	8.0	25.1	2.12
C8	09 May 2023	9	13.91	84.19	6.6	33.53	8.0	25.1	1.97
C8	09 May 2023	10	13.97	84.90	6.6	33.52	8.0	25.1	2.09
C8	09 May 2023	11	13.65	85.48	6.6	33.53	8.0	25.1	2.01
C8	09 May 2023	12	13.45	86.04	6.6	33.53	8.0	25.2	1.84
C8	09 May 2023	13	13.38	86.79	6.4	33.52	8.0	25.2	1.79
C8	09 May 2023	14	12.68	87.78	6.0	33.53	7.9	25.3	1.68
C8	09 May 2023	15	12.01	89.54	5.5	33.58	7.9	25.5	1.51
C8	09 May 2023	16	11.68	89.91	5.2	33.57	7.8	25.5	1.30
C8	09 May 2023	17	11.63	89.99	5.2	33.57	7.8	25.5	1.26
C8	09 May 2023	18	11.66	90.13	5.2	33.57	7.8	25.5	1.15
C8	15 May 2023	1	16.06	76.54	7.9	33.56	8.1	24.6	3.40
C8	15 May 2023	2	15.98	77.02	7.7	33.56	8.1	24.6	3.95
C8	15 May 2023	3	15.40	75.75	7.1	33.57	8.1	24.8	3.76
C8	15 May 2023	4	15.13	77.41	6.8	33.57	8.0	24.8	3.20
C8	15 May 2023	5	14.83	79.60	6.6	33.57	8.0	24.9	2.58
C8	15 May 2023	6	14.38	82.26	6.0	33.58	8.0	25.0	2.10
C8	15 May 2023	7	13.12	84.87	5.3	33.65	7.9	25.3	1.65
C8	15 May 2023	8	12.15	87.14	4.7	33.67	7.8	25.5	1.21
C8	15 May 2023	9	11.65	88.82	4.4	33.69	7.8	25.6	1.02
C8	15 May 2023	10	11.42	89.61	4.3	33.69	7.8	25.7	0.91
C8	15 May 2023	11	11.30	89.86	4.3	33.69	7.8	25.7	0.88
C8	15 May 2023	12	11.20	90.08	4.3	33.69	7.7	25.7	0.90
C8	15 May 2023	13	11.14	90.14	4.2	33.69	7.7	25.7	0.92
C8	15 May 2023	14	11.14	90.23	4.2	33.70	7.7	25.7	0.91
C8	15 May 2023	15	11.13	90.14	4.2	33.70	7.7	25.7	0.83
C8	15 May 2023	16	11.12	90.25	4.2	33.70	7.7	25.7	0.82
C8	15 May 2023	17	11.10	90.13	4.2	33.71	7.7	25.8	0.85
C8	15 May 2023	18	11.05	90.15	4.2	33.71	7.7	25.8	0.84
C8	15 May 2023	19	11.05	90.01	4.2	33.71	7.7	25.8	0.79
C8	22 May 2023	1	17.04	88.77	8.5	33.50	8.2	24.4	0.96
C8	22 May 2023	2	17.04	88.65	8.5	33.50	8.2	24.4	1.02
C8	22 May 2023	3	17.04	88.77	8.5	33.50	8.2	24.4	1.07
C8	22 May 2023	4	17.03	88.38	8.5	33.50	8.2	24.4	1.17
C8	22 May 2023	5	17.01	88.18	8.5	33.50	8.2	24.4	1.23
C8	22 May 2023	6	16.98	88.03	8.5	33.50	8.2	24.4	1.36
C8	22 May 2023	7	16.98	88.06	8.5	33.50	8.2	24.4	1.46
C8	22 May 2023	8	16.89	87.76	8.5	33.50	8.2	24.4	1.51
C8	22 May 2023	9	16.85	87.77	8.6	33.50	8.2	24.4	1.58
C8	22 May 2023	10	16.61	88.16	8.5	33.50	8.2	24.5	1.59
C8	22 May 2023	11	16.32	87.96	8.4	33.51	8.2	24.5	1.76
C8	22 May 2023	12	15.90	87.09	8.0	33.53	8.2	24.6	2.28
C8	22 May 2023	13	15.79	85.02	7.8	33.51	8.1	24.7	2.50
C8	22 May 2023	14	14.95	85.33	7.1	33.55	8.1	24.9	2.02
C8	22 May 2023	15	14.33	87.31	6.9	33.54	8.0	25.0	1.55
C8	22 May 2023	16	14.52	88.19	6.7	33.53	8.0	24.9	1.40
C8	22 May 2023	17	13.76	89.25	6.3	33.55	8.0	25.1	1.08
C8	22 May 2023	18	13.23	89.80	5.9	33.56	8.0	25.2	0.82
C8	22 May 2023	19	12.78	90.19	5.6	33.54	7.9	25.3	0.62

NA = not available

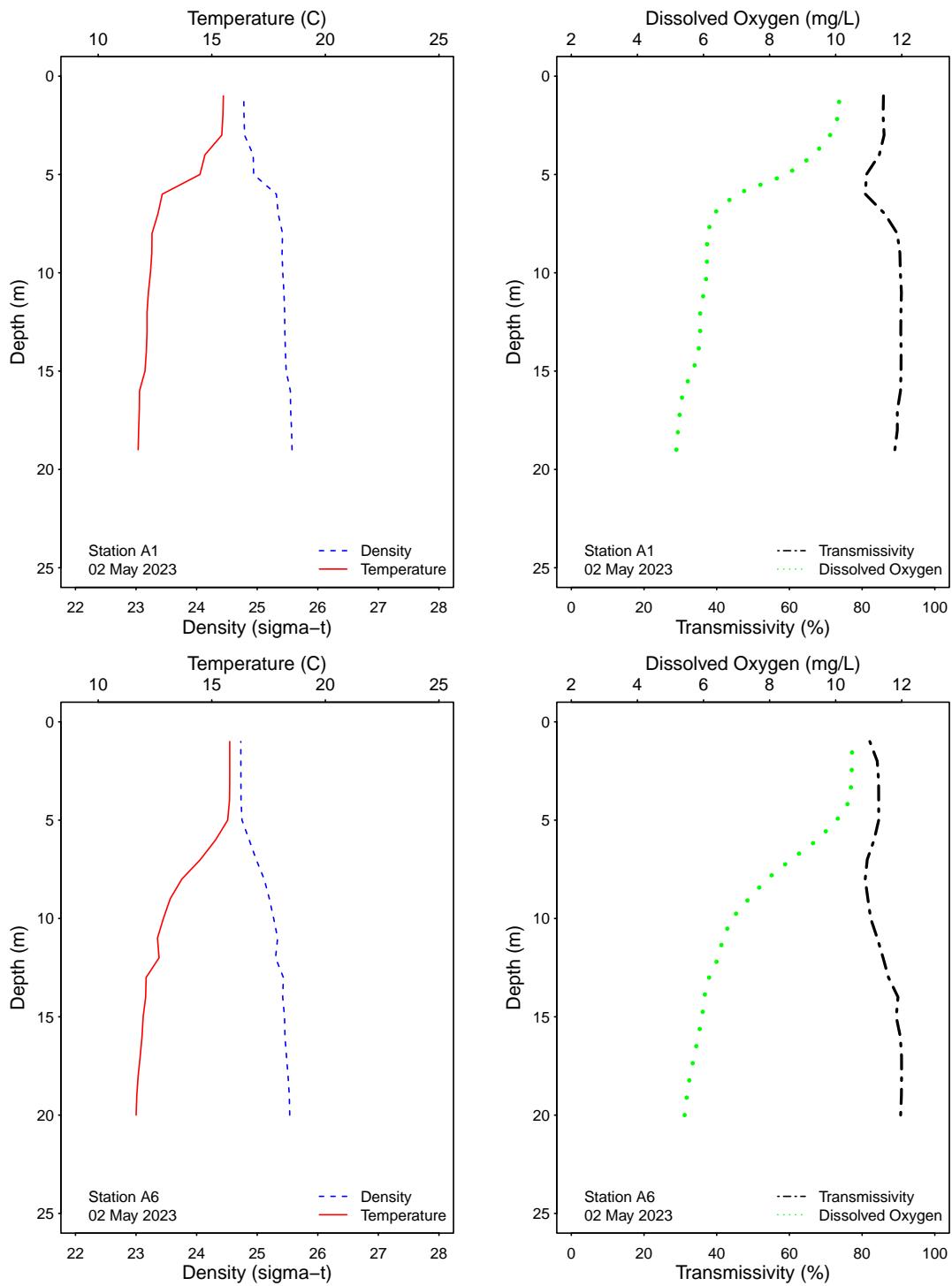


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

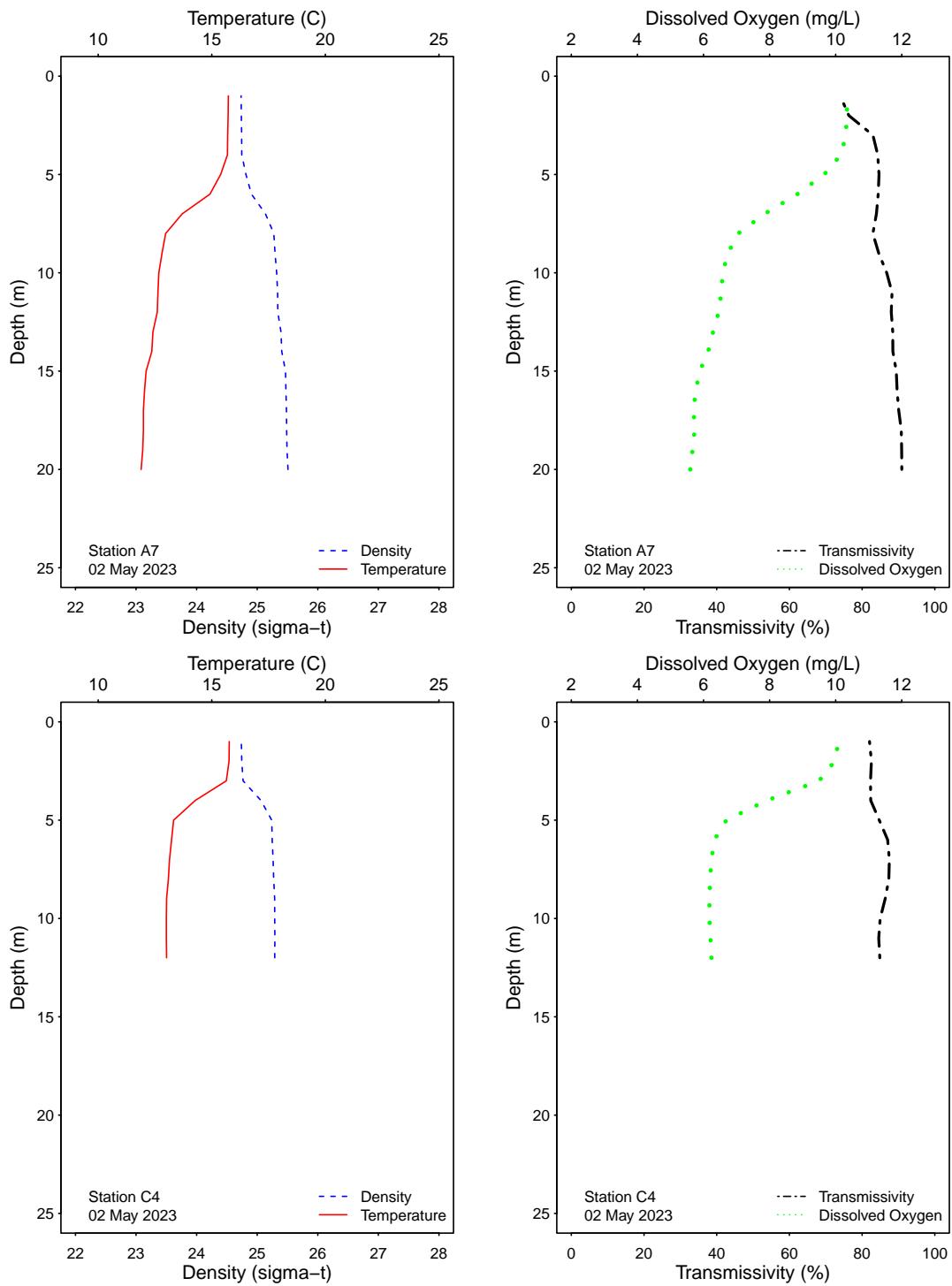


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

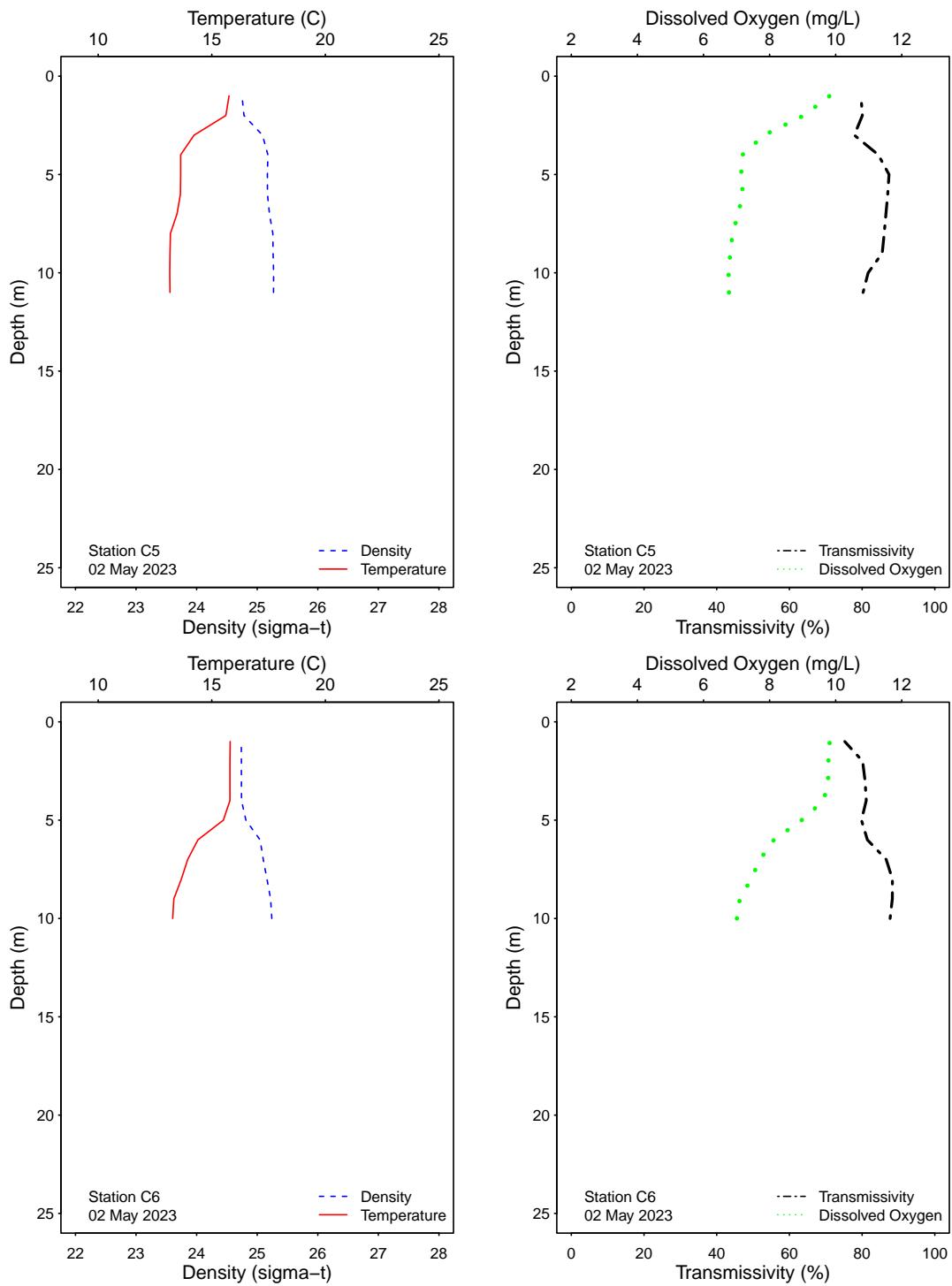


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

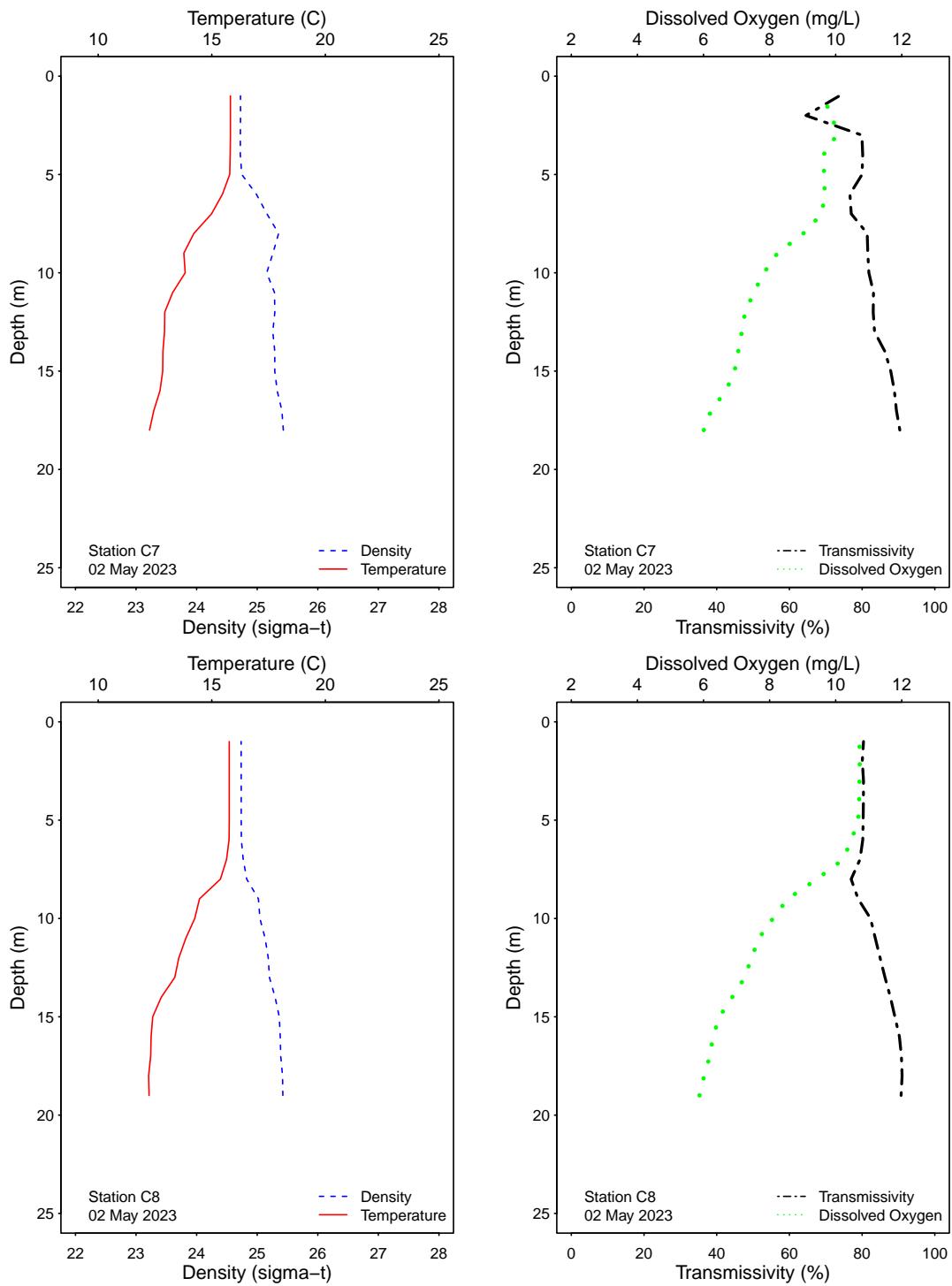


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

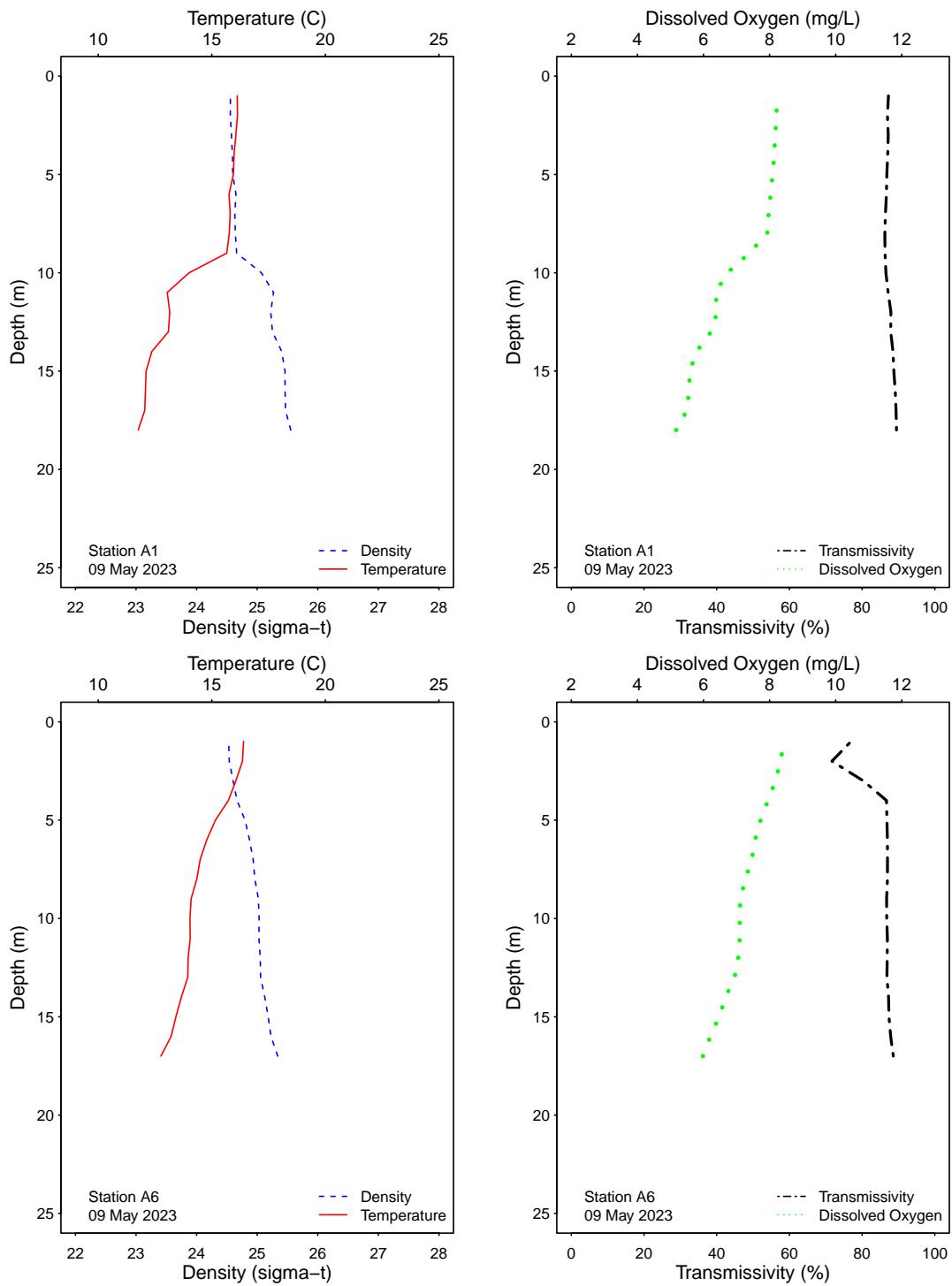


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

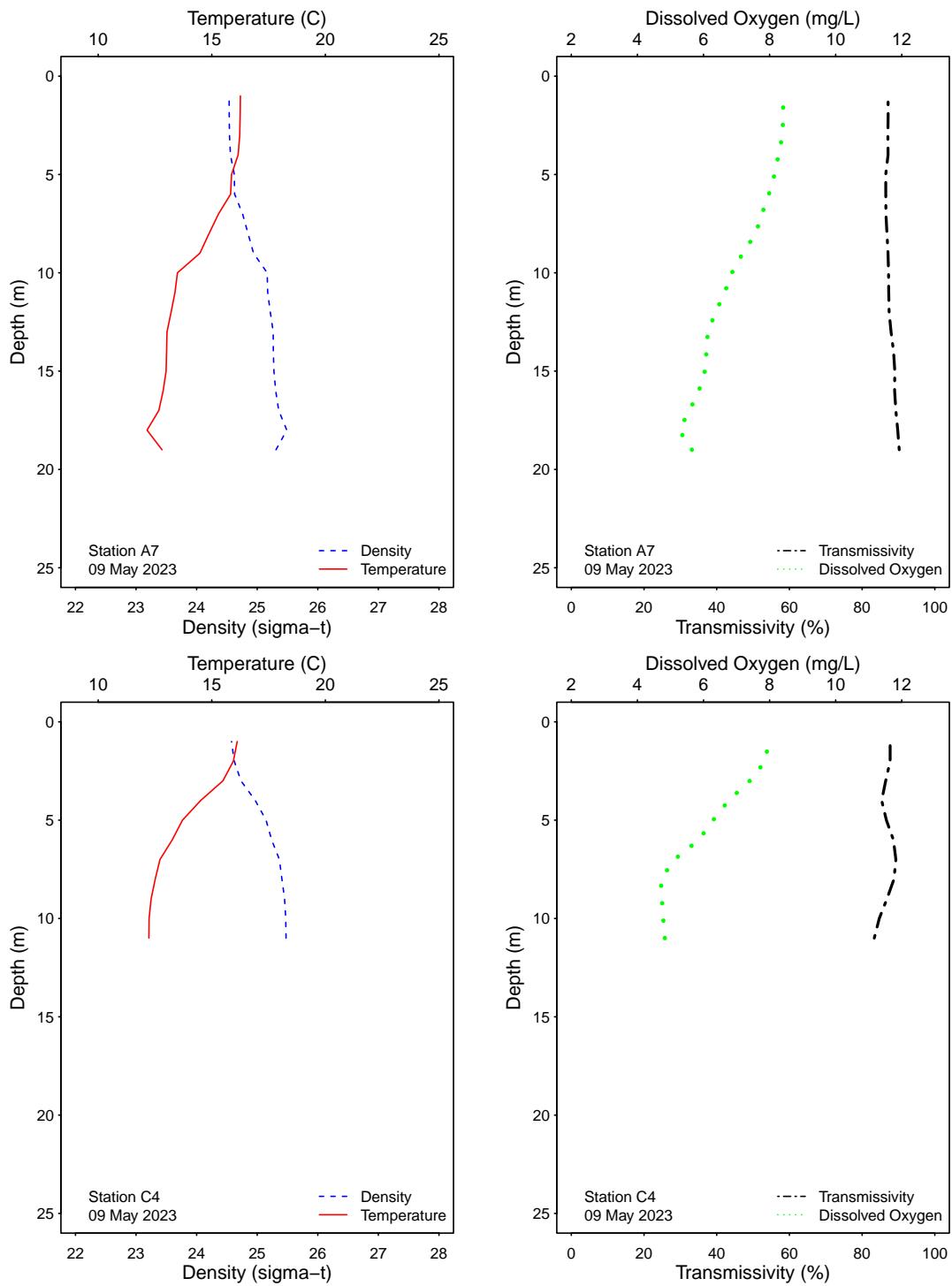


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

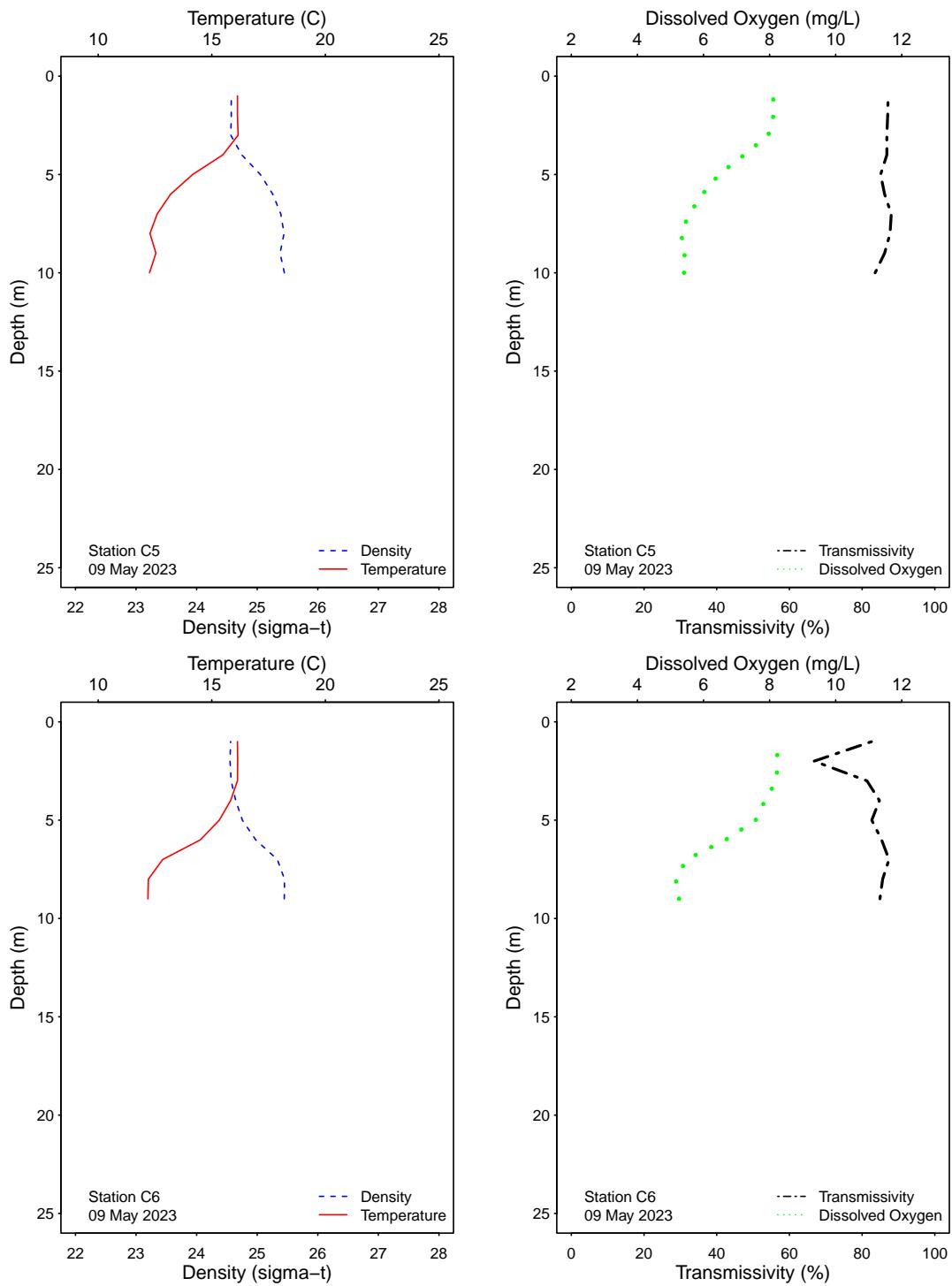


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

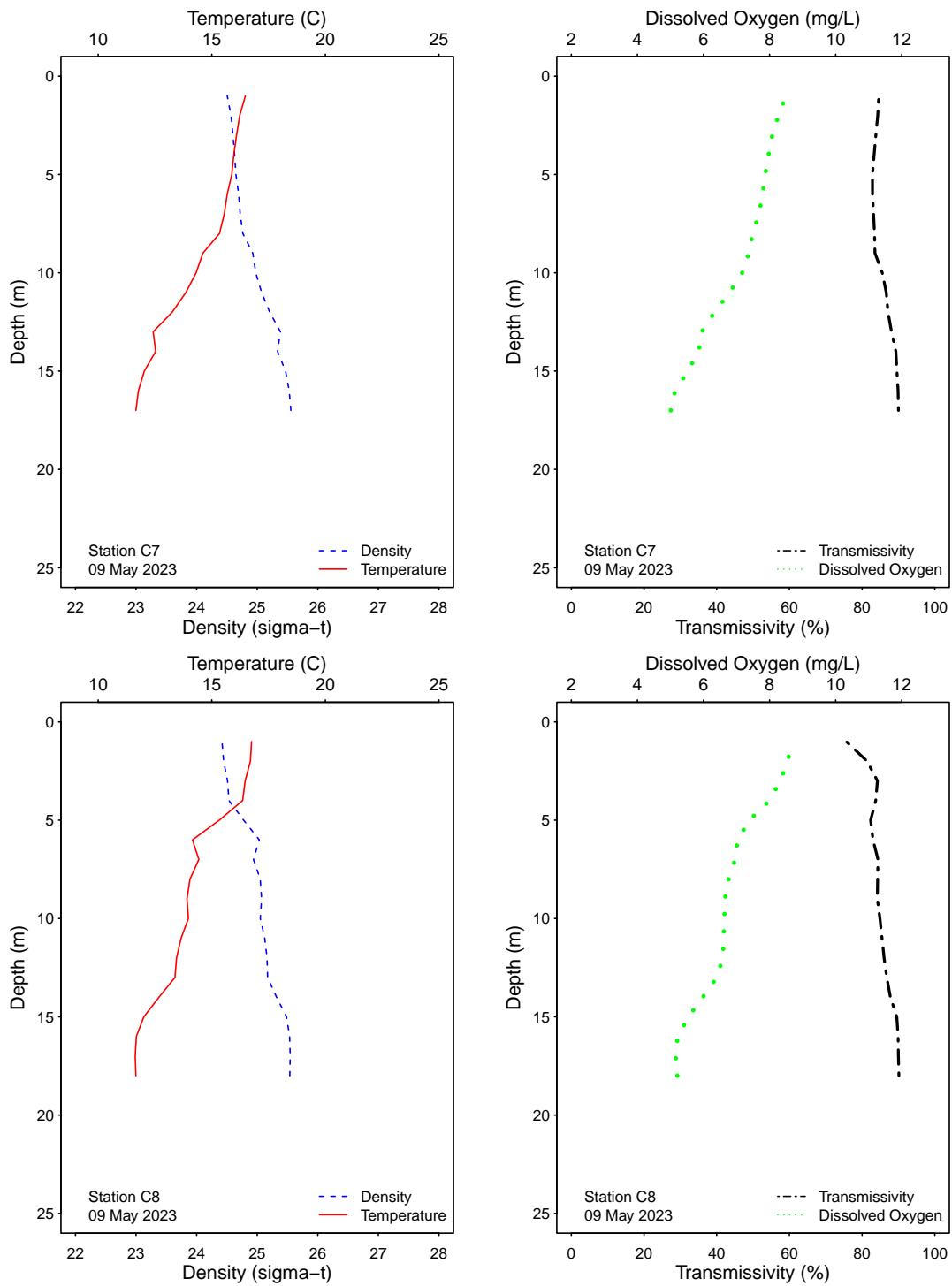


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

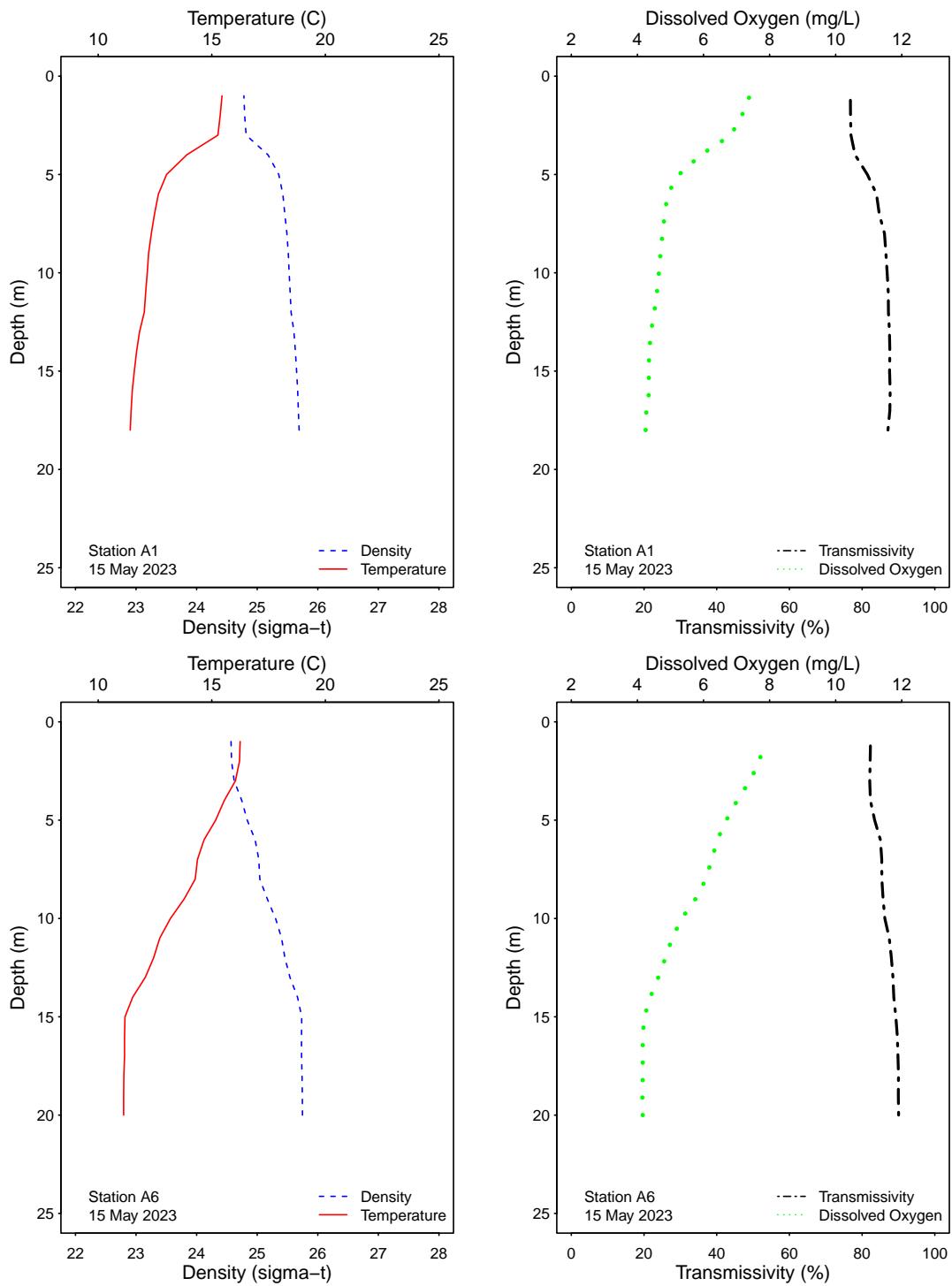


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

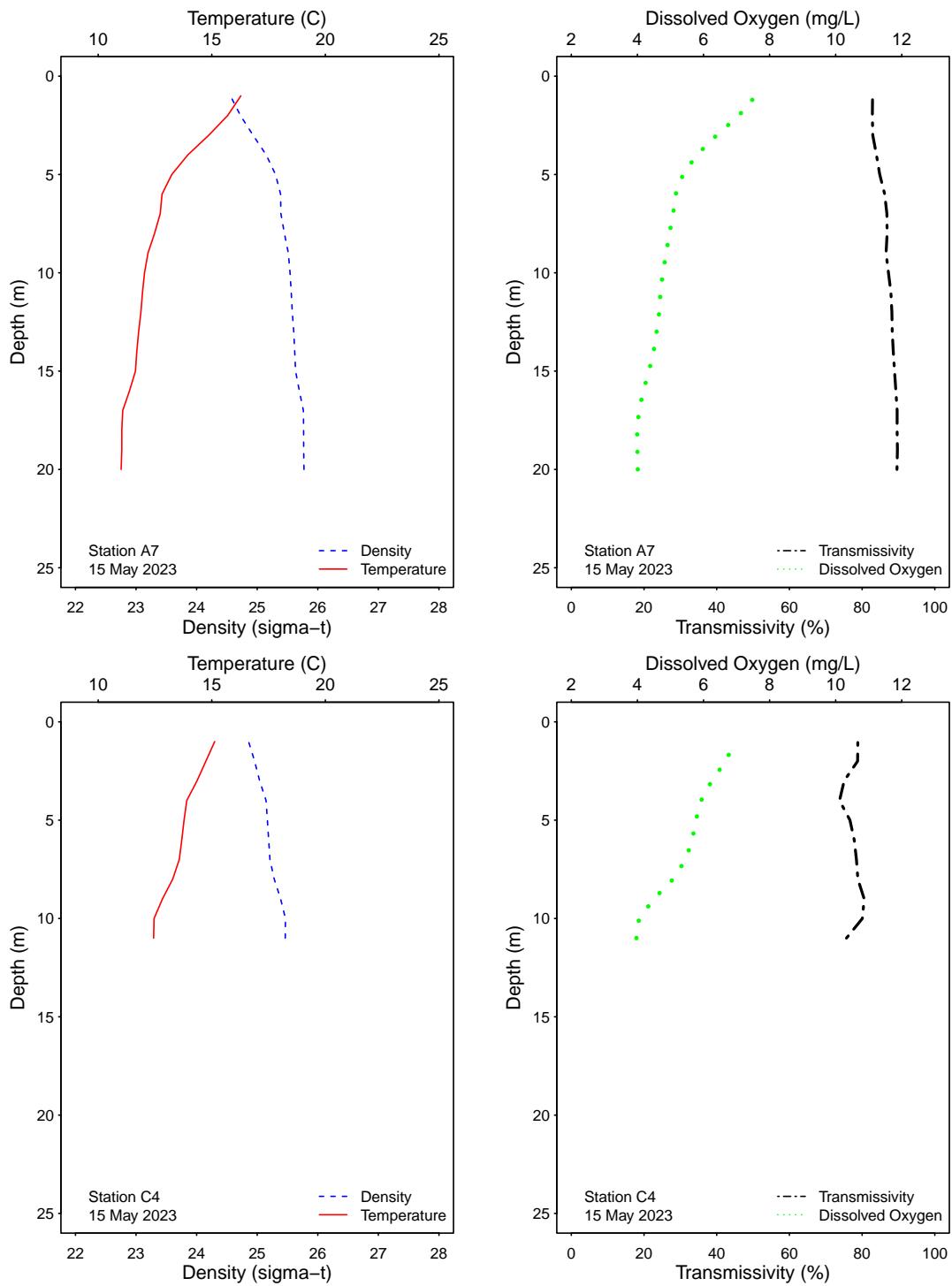


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

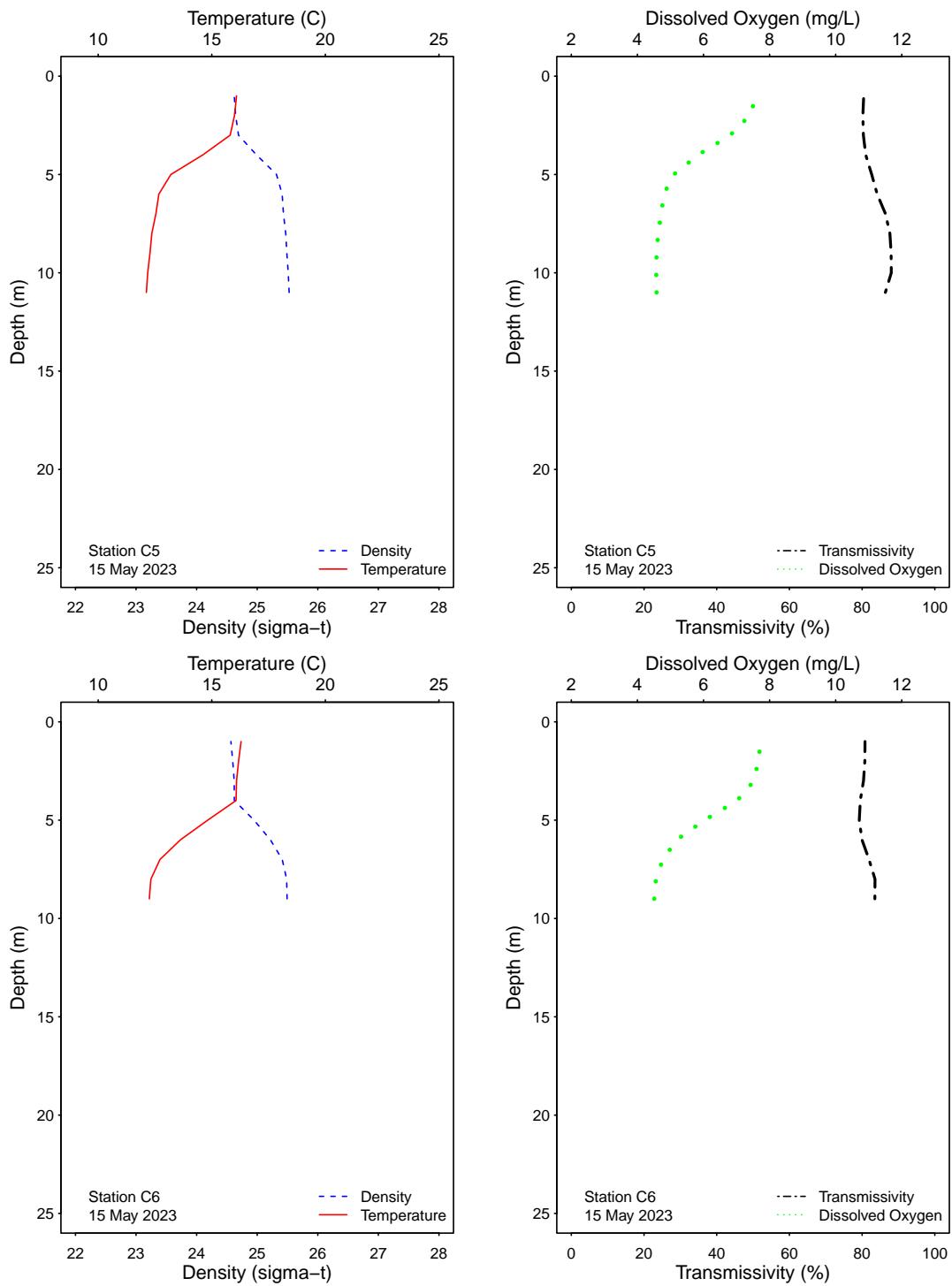


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

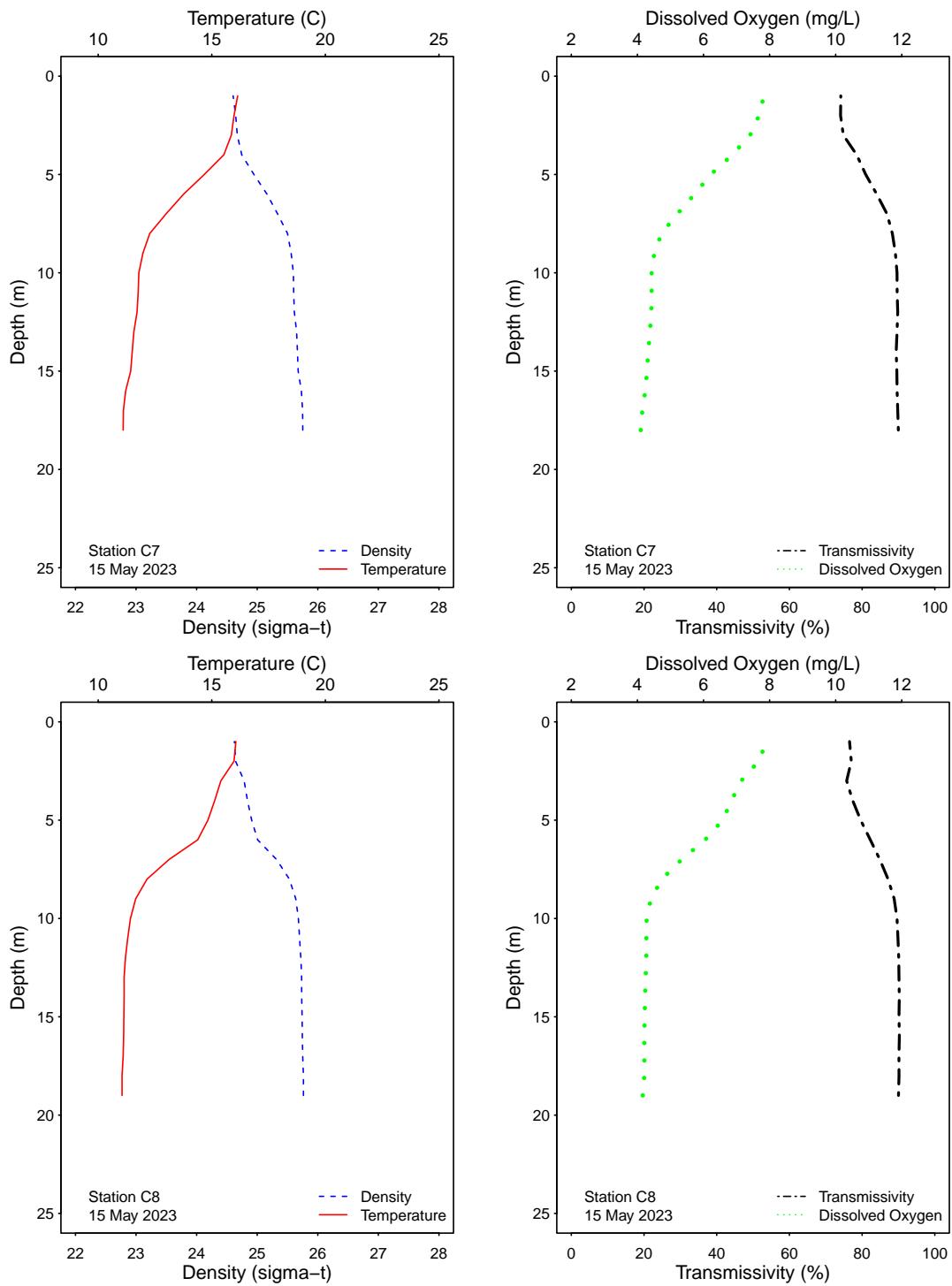


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

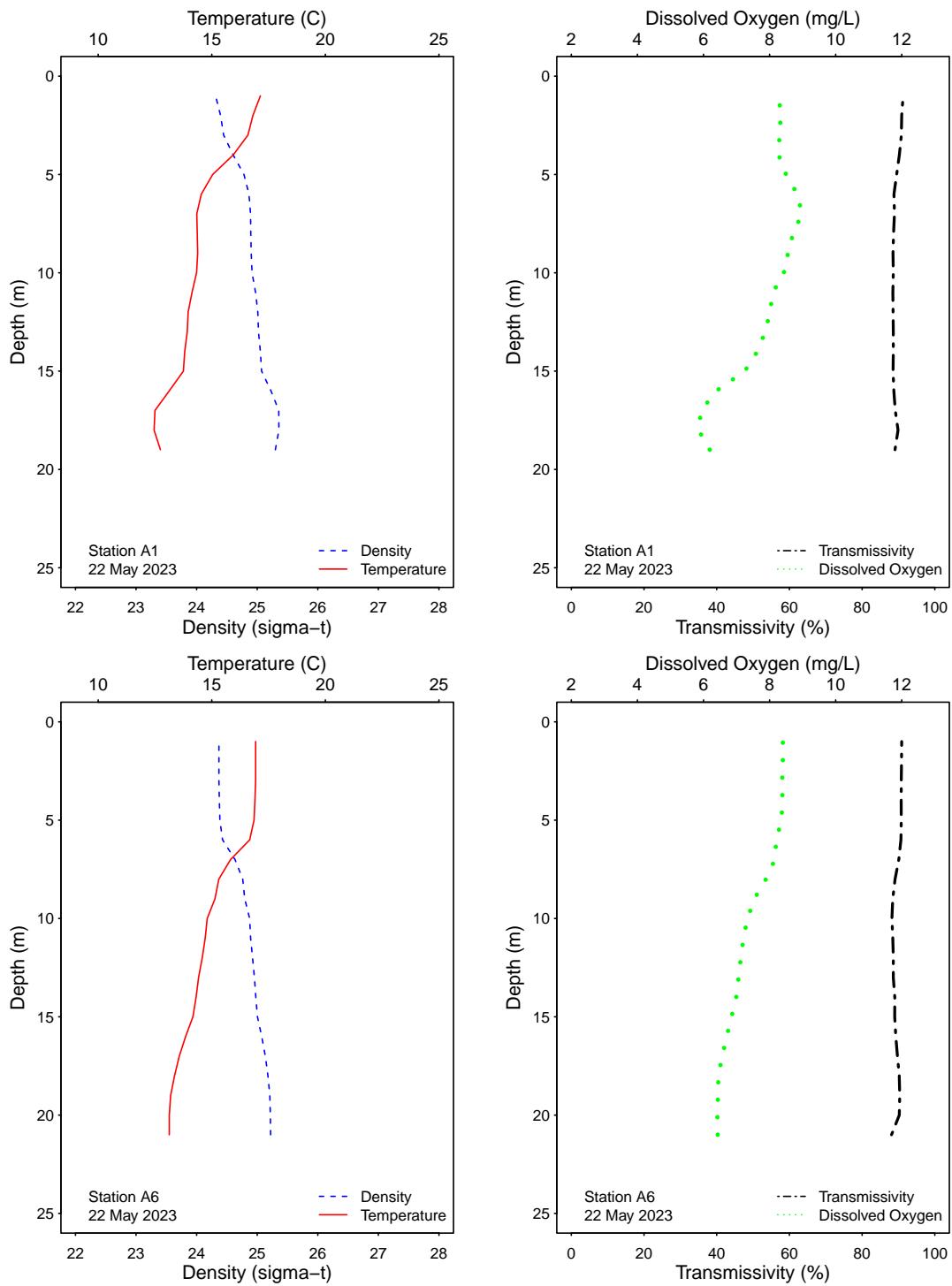


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

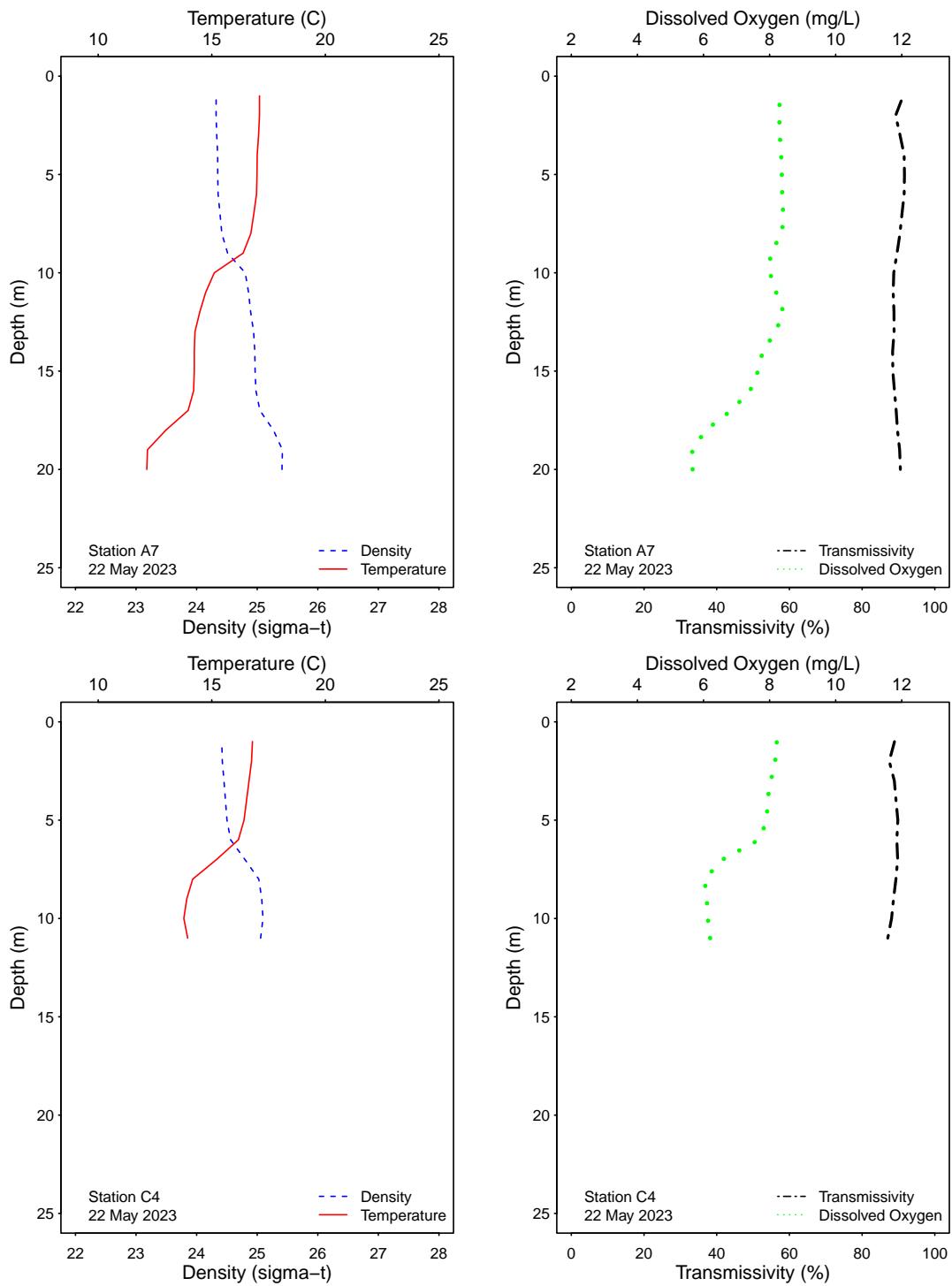


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

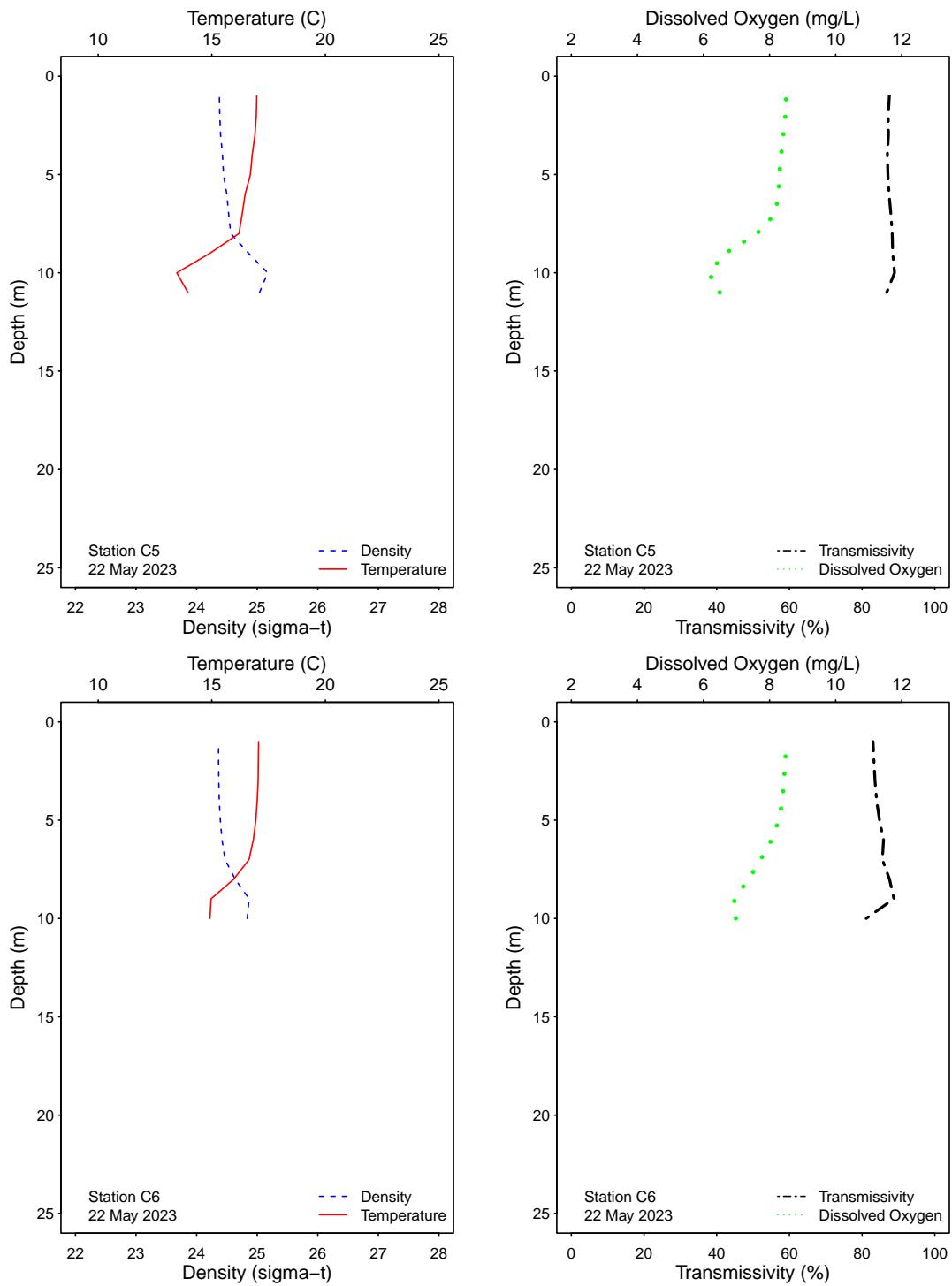


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

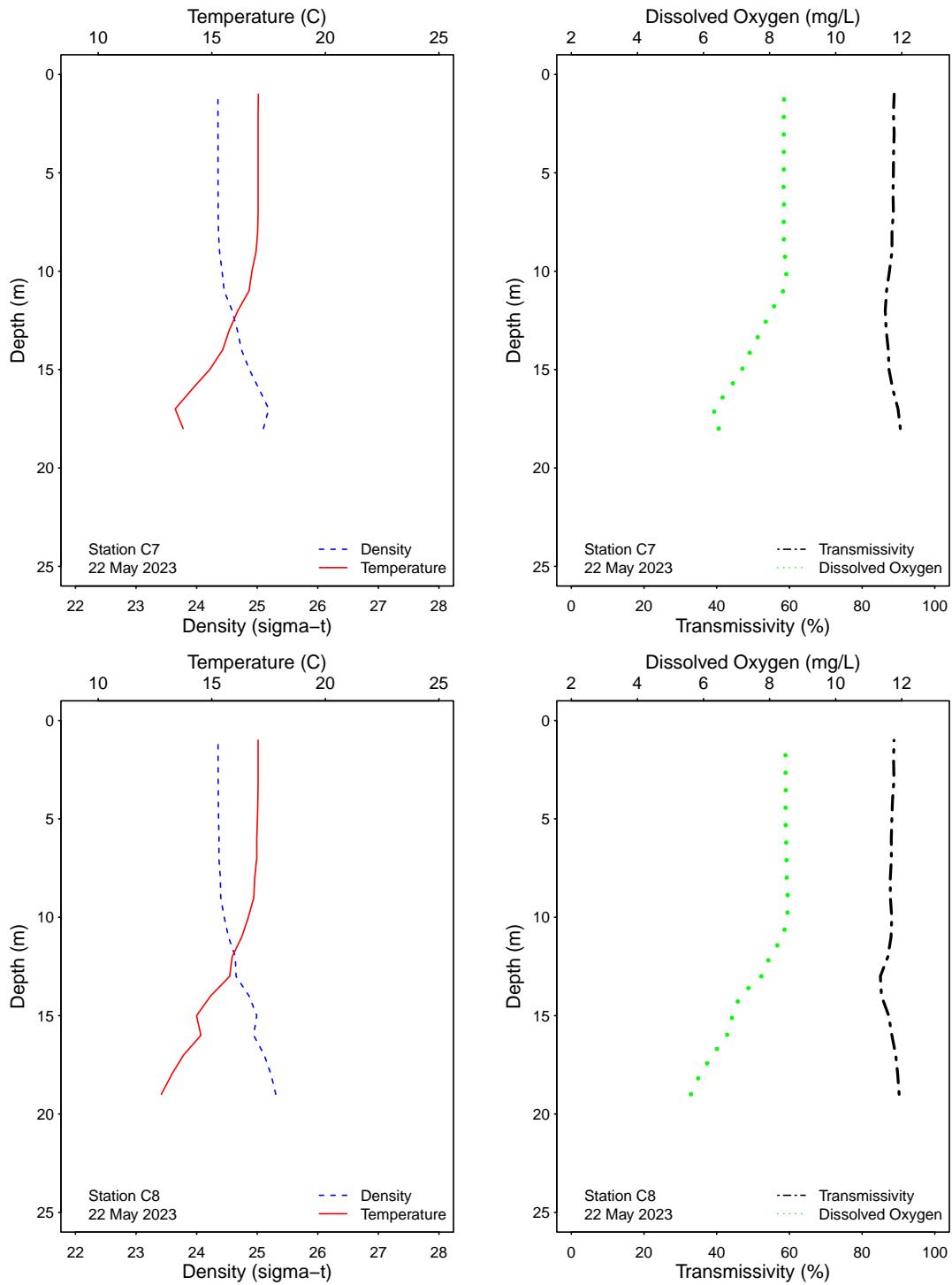


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

Offshore Stations

Table 4.1

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria at the PLOO offshore stations within three nautical miles of shore. Values shall not exceed 104 CFU/100 mL.

Date	F01	F02	F03	F06	F07	F08	F09	F10	F11	F12	F13	F14	F18	F19	F20
24 May 2023	IC	ns	ns	ns											
25 May 2023	ns	IC	E	E											

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.2

Summary of water quality parameters at the PLOO offshore stations for each sample date. Density of *Enterococcus* (Enter) is reported as CFU/100 mL; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt), and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F01	24 May 2023	1251	1	<2	17.2	81.25	9.6	33.54	8.3
F01	24 May 2023	1251	12	<2	15.6	80.48	7.6	33.55	8.1
F01	24 May 2023	1251	18	<2	12.7	89.47	7.2	33.45	8.0
F02	24 May 2023	916	1	<2	17.4	90.56	8.3	33.49	8.1
F02	24 May 2023	916	12	<2	17.2	90.14	8.3	33.48	8.1
F02	24 May 2023	916	18	<2	16.8	88.39	7.7	33.50	8.1
F03	24 May 2023	933	1	<2	17.2	90.22	8.4	33.48	8.2
F03	24 May 2023	933	12	<2	17.2	90.88	8.3	33.49	8.2
F03	24 May 2023	933	18	<2	15.8	86.70	7.6	33.53	8.1
F04	24 May 2023	1227	1	<2	17.5	91.31	8.3	33.49	8.2
F04	24 May 2023	1227	25	<2	12.4	88.96	7.3	33.41	8.1
F04	24 May 2023	1227	60	<2	10.9	90.13	4.2	33.69	7.8
F05	24 May 2023	1212	1	<2	17.4	91.42	8.3	33.49	8.2
F05	24 May 2023	1212	25	<2	12.5	89.15	7.4	33.41	8.1
F05	24 May 2023	1212	60	<2	11.1	87.98	4.4	33.64	7.8
F06	24 May 2023	1159	1	<2	17.4	91.11	8.3	33.49	8.2
F06	24 May 2023	1159	25	<2	12.2	88.59	6.9	33.42	8.0
F06	24 May 2023	1159	60	2e	11.2	85.13	4.5	33.62	7.8
F07	24 May 2023	1141	1	<2	17.4	89.65	8.2	33.49	8.2
F07	24 May 2023	1141	25	<2	13.0	89.95	8.3	33.41	8.1
F07	24 May 2023	1141	60	<2	11.2	88.61	4.6	33.61	7.8
F08	24 May 2023	1127	1	<2	17.4	91.19	8.3	33.49	8.2
F08	24 May 2023	1127	25	<2	12.7	90.43	7.6	33.43	8.1
F08	24 May 2023	1127	60	38e	11.2	86.02	4.5	33.62	7.8
F09	24 May 2023	1113	1	<2	17.4	91.09	8.3	33.49	8.2
F09	24 May 2023	1113	25	<2	12.7	90.41	7.7	33.43	8.1
F09	24 May 2023	1113	60	<2	11.1	87.14	4.5	33.64	7.8
F10	24 May 2023	1059	1	<2	17.4	90.50	8.3	33.49	8.2
F10	24 May 2023	1059	25	<2	13.8	90.52	8.7	33.42	8.1
F10	24 May 2023	1059	60	<2	11.2	87.25	4.6	33.62	7.8
F11	24 May 2023	1045	1	<2	17.5	91.22	8.3	33.49	8.2
F11	24 May 2023	1045	25	<2	13.5	90.34	8.7	33.40	8.1
F11	24 May 2023	1045	60	2e	11.3	90.58	4.9	33.58	7.8
F12	24 May 2023	1029	1	<2	17.4	90.83	8.4	33.49	8.2
F12	24 May 2023	1029	25	<2	13.1	89.78	8.5	33.40	8.1
F12	24 May 2023	1029	60	2e	11.3	90.97	4.9	33.58	7.8
F13	24 May 2023	1005	1	<2	17.4	90.98	8.4	33.48	8.2
F13	24 May 2023	1005	25	<2	13.6	90.31	9.0	33.39	8.1
F13	24 May 2023	1005	60	<2	11.2	90.18	4.7	33.62	7.8

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F14	24 May 2023	951	1	<2	17.3	91.20	8.3	33.48	8.2
F14	24 May 2023	951	25	<2	13.2	89.68	8.6	33.40	8.1
F14	24 May 2023	951	60	2e	11.2	89.00	4.6	33.62	7.8
F15	25 May 2023	1136	1	<2	17.1	91.08	8.0	33.34	8.1
F15	25 May 2023	1136	25	<2	12.9	90.04	7.8	33.32	8.1
F15	25 May 2023	1136	60	<2	11.1	92.53	4.6	33.63	7.8
F15	25 May 2023	1136	80	<2	10.6	89.66	4.0	33.75	7.8
F16	25 May 2023	1120	1	<2	16.9	92.55	8.0	33.34	8.1
F16	25 May 2023	1120	25	<2	13.0	89.57	8.0	33.32	8.1
F16	25 May 2023	1120	60	<2	11.1	93.42	5.2	33.55	7.8
F16	25 May 2023	1120	80	2e	10.6	87.38	3.9	33.75	7.7
F17	25 May 2023	1105	1	<2	16.9	92.45	8.1	33.36	8.1
F17	25 May 2023	1105	25	<2	13.8	89.03	8.8	33.33	8.1
F17	25 May 2023	1105	60	<2	11.0	93.51	5.3	33.55	7.8
F17	25 May 2023	1105	80	4e	10.6	86.85	3.9	33.75	7.7
F18	25 May 2023	1050	1	<2	17.0	92.02	8.2	33.41	8.2
F18	25 May 2023	1050	25	<2	13.5	89.05	8.8	33.37	8.1
F18	25 May 2023	1050	60	<2	10.9	93.53	5.2	33.57	7.8
F18	25 May 2023	1050	80	<2	10.6	86.00	3.9	33.74	7.7
F19	25 May 2023	1032	1	<2	16.9	92.00	8.1	33.39	8.2
F19	25 May 2023	1032	25	<2	13.7	89.26	8.5	33.31	8.1
F19	25 May 2023	1032	60	<2	11.0	93.50	5.4	33.52	7.9
F19	25 May 2023	1032	80	120e	10.6	90.70	4.0	33.73	7.7
F20	25 May 2023	1016	1	<2	16.9	92.21	8.1	33.37	8.1
F20	25 May 2023	1016	25	<2	13.7	89.69	8.3	33.29	8.1
F20	25 May 2023	1016	60	4e	10.8	93.45	5.0	33.60	7.8
F20	25 May 2023	1016	80	220e	10.5	91.03	4.0	33.73	7.7
F21	25 May 2023	1001	1	<2	16.7	92.62	8.0	33.33	8.1
F21	25 May 2023	1001	25	<2	14.2	90.83	8.6	33.28	8.1
F21	25 May 2023	1001	60	<2	10.7	93.39	6.0	33.44	7.9
F21	25 May 2023	1001	80	340e	10.5	93.23	4.2	33.70	7.8
F22	25 May 2023	947	1	<2	16.8	91.89	8.1	33.36	8.1
F22	25 May 2023	947	25	<2	14.1	89.91	8.5	33.27	8.1
F22	25 May 2023	947	60	<2	11.0	93.21	5.7	33.46	7.9
F22	25 May 2023	947	80	64	10.6	90.37	4.2	33.71	7.8
F23	25 May 2023	924	1	<2	16.7	92.57	8.0	33.34	8.1
F23	25 May 2023	924	25	<2	13.9	89.95	8.4	33.27	8.1
F23	25 May 2023	924	60	<2	10.9	93.30	5.8	33.45	7.9
F23	25 May 2023	924	80	66	10.6	90.09	4.3	33.70	7.8
F24	25 May 2023	914	1	<2	16.7	92.50	8.0	33.34	8.1
F24	25 May 2023	914	25	<2	13.6	90.53	8.3	33.26	8.1
F24	25 May 2023	914	60	<2	10.9	93.65	6.2	33.40	7.9
F24	25 May 2023	914	80	36e	10.6	89.65	4.3	33.70	7.8
F25	25 May 2023	900	1	2e	16.6	92.63	8.0	33.33	8.1
F25	25 May 2023	900	25	<2	13.5	91.43	8.2	33.26	8.1
F25	25 May 2023	900	60	<2	11.0	93.64	6.1	33.42	7.9
F25	25 May 2023	900	80	400	10.5	91.67	4.2	33.71	7.7
F26	23 May 2023	1221	1	<2	17.2	92.44	8.2	33.43	8.2
F26	23 May 2023	1221	25	<2	13.5	91.25	8.0	33.29	8.1

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F26	23 May 2023	1221	60	<2	10.8	93.72	5.1	33.59	7.9
F26	23 May 2023	1221	80	<2	10.6	91.13	3.8	33.78	7.8
F26	23 May 2023	1221	98	<2	10.3	90.40	3.6	33.84	7.8
F27	23 May 2023	1206	1	<2	17.1	92.35	8.2	33.42	8.2
F27	23 May 2023	1206	25	<2	14.0	91.17	8.4	33.30	8.2
F27	23 May 2023	1206	60	<2	10.8	93.84	5.3	33.55	7.9
F27	23 May 2023	1206	80	<2	10.6	90.83	3.7	33.79	7.8
F27	23 May 2023	1206	98	<2	10.3	89.29	3.5	33.85	7.7
F28	23 May 2023	1152	1	<2	17.2	92.23	8.3	33.44	8.2
F28	23 May 2023	1152	25	<2	13.2	90.27	7.9	33.30	8.1
F28	23 May 2023	1152	60	<2	10.6	93.95	5.3	33.56	7.9
F28	23 May 2023	1152	80	<2	10.5	92.02	3.9	33.78	7.8
F28	23 May 2023	1152	98	<2	10.2	91.49	3.5	33.87	7.7
F29	23 May 2023	1137	1	<2	17.2	91.84	8.3	33.45	8.2
F29	23 May 2023	1137	25	<2	13.5	90.61	8.8	33.32	8.2
F29	23 May 2023	1137	60	<2	10.9	93.37	5.9	33.43	7.9
F29	23 May 2023	1137	80	2e	10.4	93.37	3.9	33.80	7.8
F29	23 May 2023	1137	98	<2	10.2	89.97	3.5	33.86	7.7
F30	23 May 2023	1121	1	2e	17.2	90.59	8.4	33.47	8.2
F30	23 May 2023	1121	25	<2	13.7	90.68	8.9	33.34	8.2
F30	23 May 2023	1121	60	2e	10.9	93.44	5.9	33.42	7.9
F30	23 May 2023	1121	80	420	10.3	88.60	3.8	33.72	7.8
F30	23 May 2023	1121	98	34e	10.3	92.05	3.7	33.83	7.8
F31	23 May 2023	1040	1	<2	17.4	88.68	8.3	33.49	8.2
F31	23 May 2023	1040	25	<2	14.1	91.10	9.1	33.37	8.2
F31	23 May 2023	1040	60	<2	10.6	93.80	5.4	33.55	7.9
F31	23 May 2023	1040	80	10e	10.4	92.94	4.1	33.78	7.8
F31	23 May 2023	1040	98	100	10.2	91.86	3.5	33.88	7.7
F32	23 May 2023	1023	1	4e	17.5	90.88	8.3	33.50	8.2
F32	23 May 2023	1023	25	<2	14.3	91.63	9.3	33.38	8.2
F32	23 May 2023	1023	60	<2	10.5	93.79	5.4	33.56	7.9
F32	23 May 2023	1023	80	2e	10.3	90.68	3.8	33.73	7.8
F32	23 May 2023	1023	98	1800e	10.1	92.70	3.5	33.89	7.7
F33	23 May 2023	1008	1	6e	17.5	90.83	8.3	33.50	8.2
F33	23 May 2023	1008	25	<2	14.1	91.70	9.2	33.38	8.2
F33	23 May 2023	1008	60	<2	10.6	93.73	5.2	33.59	7.9
F33	23 May 2023	1008	80	<2	10.3	90.82	3.7	33.76	7.8
F33	23 May 2023	1008	98	80	10.1	92.84	3.4	33.90	7.7
F34	23 May 2023	953	1	<2	17.5	88.87	8.2	33.49	8.2
F34	23 May 2023	953	25	<2	14.4	90.85	9.1	33.39	8.2
F34	23 May 2023	953	60	<2	10.4	93.91	5.1	33.62	7.9
F34	23 May 2023	953	80	<2	10.4	94.07	4.4	33.75	7.8
F34	23 May 2023	953	98	<2	10.1	92.95	3.4	33.91	7.7
F35	23 May 2023	922	1	<2	17.5	88.98	8.2	33.48	8.2
F35	23 May 2023	922	25	<2	14.2	90.81	9.3	33.40	8.2
F35	23 May 2023	922	60	<2	10.4	93.85	5.4	33.57	7.9
F35	23 May 2023	922	80	<2	10.4	94.02	4.6	33.70	7.8
F35	23 May 2023	922	98	<2	10.1	92.99	3.4	33.91	7.7
F36	23 May 2023	907	1	<2	17.5	90.93	8.2	33.49	8.2
F36	23 May 2023	907	25	<2	12.8	89.92	8.2	33.42	8.1
F36	23 May 2023	907	60	<2	10.4	94.09	5.1	33.63	7.8

Station	Date	Time	Depth	Enterο	Temp	XMS	DO	Sal	pH
F36	23 May 2023	907	80	<2	10.4	94.01	4.5	33.73	7.8
F36	23 May 2023	907	98	2e	10.1	92.44	3.5	33.90	7.7

ns = not sampled

ND = no data

Table 4.3

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

Station	Date	Parameter	Value
F01	24 May 2023	Depth (m)	21
F01	24 May 2023	Arrive Time	1251
F01	24 May 2023	Depart Time	1346
F01	24 May 2023	Air Temp (C)	15.5
F01	24 May 2023	Weather	Overcast
F01	24 May 2023	Visibility (mi)	6
F01	24 May 2023	Wind Speed (kts)	5.1
F01	24 May 2023	Wind Dir	W
F01	24 May 2023	Water Color	Green
F01	24 May 2023	Wave Ht Low (ft)	2
F01	24 May 2023	Wave Period (sec)	12
F01	24 May 2023	Sea State	Light Chop
F01	24 May 2023	High Tide (ft)	4.84
F01	24 May 2023	High Tide Time	6
F01	24 May 2023	Low Tide (ft)	0.01
F01	24 May 2023	Low Tide Time	730
F01	24 May 2023	Comments	none
F02	24 May 2023	Depth (m)	20
F02	24 May 2023	Arrive Time	916
F02	24 May 2023	Depart Time	929
F02	24 May 2023	Air Temp (C)	14.9
F02	24 May 2023	Weather	Overcast
F02	24 May 2023	Visibility (mi)	6
F02	24 May 2023	Wind Speed (kts)	5.5
F02	24 May 2023	Wind Dir	SW
F02	24 May 2023	Water Color	Blue
F02	24 May 2023	Wave Ht Low (ft)	2
F02	24 May 2023	Wave Period (sec)	12
F02	24 May 2023	Sea State	Light Chop
F02	24 May 2023	High Tide (ft)	4.84
F02	24 May 2023	High Tide Time	6
F02	24 May 2023	Low Tide (ft)	0.01
F02	24 May 2023	Low Tide Time	730
F02	24 May 2023	Comments	none
F03	24 May 2023	Depth (m)	19
F03	24 May 2023	Arrive Time	933
F03	24 May 2023	Depart Time	938
F03	24 May 2023	Air Temp (C)	14.9
F03	24 May 2023	Weather	Overcast
F03	24 May 2023	Visibility (mi)	6
F03	24 May 2023	Wind Speed (kts)	6.6
F03	24 May 2023	Wind Dir	S
F03	24 May 2023	Water Color	Blue
F03	24 May 2023	Wave Ht Low (ft)	2
F03	24 May 2023	Wave Period (sec)	12
F03	24 May 2023	Sea State	Light Chop
F03	24 May 2023	High Tide (ft)	4.84
F03	24 May 2023	High Tide Time	6
F03	24 May 2023	Low Tide (ft)	0.01
F03	24 May 2023	Low Tide Time	730
F03	24 May 2023	Comments	none
F04	24 May 2023	Depth (m)	62
F04	24 May 2023	Arrive Time	1227

Station	Date	Parameter	Value
F04	24 May 2023	Depart Time	1232
F04	24 May 2023	Air Temp (C)	15.4
F04	24 May 2023	Weather	Overcast
F04	24 May 2023	Visibility (mi)	6
F04	24 May 2023	Wind Speed (kts)	6.7
F04	24 May 2023	Wind Dir	W
F04	24 May 2023	Water Color	Blue
F04	24 May 2023	Wave Ht Low (ft)	2
F04	24 May 2023	Wave Period (sec)	12
F04	24 May 2023	Sea State	Light Chop
F04	24 May 2023	High Tide (ft)	4.84
F04	24 May 2023	High Tide Time	6
F04	24 May 2023	Low Tide (ft)	0.01
F04	24 May 2023	Low Tide Time	730
F04	24 May 2023	Comments	none
F05	24 May 2023	Depth (m)	61
F05	24 May 2023	Arrive Time	1212
F05	24 May 2023	Depart Time	1218
F05	24 May 2023	Air Temp (C)	15.3
F05	24 May 2023	Weather	Overcast
F05	24 May 2023	Visibility (mi)	6
F05	24 May 2023	Wind Speed (kts)	10.1
F05	24 May 2023	Wind Dir	SW
F05	24 May 2023	Water Color	Blue
F05	24 May 2023	Wave Ht Low (ft)	2
F05	24 May 2023	Wave Period (sec)	12
F05	24 May 2023	Sea State	Light Chop
F05	24 May 2023	High Tide (ft)	4.84
F05	24 May 2023	High Tide Time	6
F05	24 May 2023	Low Tide (ft)	0.01
F05	24 May 2023	Low Tide Time	730
F05	24 May 2023	Comments	none
F06	24 May 2023	Depth (m)	62
F06	24 May 2023	Arrive Time	1159
F06	24 May 2023	Depart Time	1205
F06	24 May 2023	Air Temp (C)	15.3
F06	24 May 2023	Weather	Overcast
F06	24 May 2023	Visibility (mi)	6
F06	24 May 2023	Wind Speed (kts)	9.8
F06	24 May 2023	Wind Dir	W
F06	24 May 2023	Water Color	Blue
F06	24 May 2023	Wave Ht Low (ft)	2
F06	24 May 2023	Wave Period (sec)	12
F06	24 May 2023	Sea State	Light Chop
F06	24 May 2023	High Tide (ft)	4.84
F06	24 May 2023	High Tide Time	6
F06	24 May 2023	Low Tide (ft)	0.01
F06	24 May 2023	Low Tide Time	730
F06	24 May 2023	Comments	none
F07	24 May 2023	Depth (m)	65
F07	24 May 2023	Arrive Time	1141
F07	24 May 2023	Depart Time	1147
F07	24 May 2023	Air Temp (C)	15.2
F07	24 May 2023	Weather	Overcast
F07	24 May 2023	Visibility (mi)	6
F07	24 May 2023	Wind Speed (kts)	5.4
F07	24 May 2023	Wind Dir	SW
F07	24 May 2023	Water Color	Blue

Station	Date	Parameter	Value
F07	24 May 2023	Wave Ht Low (ft)	2
F07	24 May 2023	Wave Period (sec)	12
F07	24 May 2023	Sea State	Light Chop
F07	24 May 2023	High Tide (ft)	4.84
F07	24 May 2023	High Tide Time	6
F07	24 May 2023	Low Tide (ft)	0.01
F07	24 May 2023	Low Tide Time	730
F07	24 May 2023	Comments	none
F08	24 May 2023	Depth (m)	62
F08	24 May 2023	Arrive Time	1127
F08	24 May 2023	Depart Time	1133
F08	24 May 2023	Air Temp (C)	15.1
F08	24 May 2023	Weather	Overcast
F08	24 May 2023	Visibility (mi)	6
F08	24 May 2023	Wind Speed (kts)	4.5
F08	24 May 2023	Wind Dir	SW
F08	24 May 2023	Water Color	Blue
F08	24 May 2023	Wave Ht Low (ft)	2
F08	24 May 2023	Wave Period (sec)	12
F08	24 May 2023	Sea State	Light Chop
F08	24 May 2023	High Tide (ft)	4.84
F08	24 May 2023	High Tide Time	6
F08	24 May 2023	Low Tide (ft)	0.01
F08	24 May 2023	Low Tide Time	730
F08	24 May 2023	Comments	none
F09	24 May 2023	Depth (m)	62
F09	24 May 2023	Arrive Time	1113
F09	24 May 2023	Depart Time	1121
F09	24 May 2023	Air Temp (C)	15.1
F09	24 May 2023	Weather	Overcast
F09	24 May 2023	Visibility (mi)	6
F09	24 May 2023	Wind Speed (kts)	4.6
F09	24 May 2023	Wind Dir	W
F09	24 May 2023	Water Color	Blue
F09	24 May 2023	Wave Ht Low (ft)	2
F09	24 May 2023	Wave Period (sec)	12
F09	24 May 2023	Sea State	Light Chop
F09	24 May 2023	High Tide (ft)	4.84
F09	24 May 2023	High Tide Time	6
F09	24 May 2023	Low Tide (ft)	0.01
F09	24 May 2023	Low Tide Time	730
F09	24 May 2023	Comments	none
F10	24 May 2023	Depth (m)	62
F10	24 May 2023	Arrive Time	1059
F10	24 May 2023	Depart Time	1104
F10	24 May 2023	Air Temp (C)	15.2
F10	24 May 2023	Weather	Overcast
F10	24 May 2023	Visibility (mi)	6
F10	24 May 2023	Wind Speed (kts)	8.8
F10	24 May 2023	Wind Dir	SW
F10	24 May 2023	Water Color	Blue
F10	24 May 2023	Wave Ht Low (ft)	2
F10	24 May 2023	Wave Period (sec)	12
F10	24 May 2023	Sea State	Light Chop
F10	24 May 2023	High Tide (ft)	4.84
F10	24 May 2023	High Tide Time	6
F10	24 May 2023	Low Tide (ft)	0.01
F10	24 May 2023	Low Tide Time	730

Station	Date	Parameter	Value
F10	24 May 2023	Comments	none
F11	24 May 2023	Depth (m)	60
F11	24 May 2023	Arrive Time	1045
F11	24 May 2023	Depart Time	1051
F11	24 May 2023	Air Temp (C)	15.1
F11	24 May 2023	Weather	Overcast
F11	24 May 2023	Visibility (mi)	6
F11	24 May 2023	Wind Speed (kts)	6.2
F11	24 May 2023	Wind Dir	SW
F11	24 May 2023	Water Color	Blue
F11	24 May 2023	Wave Ht Low (ft)	2
F11	24 May 2023	Wave Period (sec)	12
F11	24 May 2023	Sea State	Light Chop
F11	24 May 2023	High Tide (ft)	4.84
F11	24 May 2023	High Tide Time	6
F11	24 May 2023	Low Tide (ft)	0.01
F11	24 May 2023	Low Tide Time	730
F11	24 May 2023	Comments	none
F12	24 May 2023	Depth (m)	62
F12	24 May 2023	Arrive Time	1029
F12	24 May 2023	Depart Time	1043
F12	24 May 2023	Air Temp (C)	15.1
F12	24 May 2023	Weather	Overcast
F12	24 May 2023	Visibility (mi)	6
F12	24 May 2023	Wind Speed (kts)	6.1
F12	24 May 2023	Wind Dir	SW
F12	24 May 2023	Water Color	Blue
F12	24 May 2023	Wave Ht Low (ft)	2
F12	24 May 2023	Wave Period (sec)	12
F12	24 May 2023	Sea State	Light Chop
F12	24 May 2023	High Tide (ft)	4.84
F12	24 May 2023	High Tide Time	6
F12	24 May 2023	Low Tide (ft)	0.01
F12	24 May 2023	Low Tide Time	730
F12	24 May 2023	Comments	none
F13	24 May 2023	Depth (m)	61
F13	24 May 2023	Arrive Time	1005
F13	24 May 2023	Depart Time	1022
F13	24 May 2023	Air Temp (C)	15
F13	24 May 2023	Weather	Overcast
F13	24 May 2023	Visibility (mi)	6
F13	24 May 2023	Wind Speed (kts)	8.8
F13	24 May 2023	Wind Dir	SW
F13	24 May 2023	Water Color	Blue
F13	24 May 2023	Wave Ht Low (ft)	2
F13	24 May 2023	Wave Period (sec)	12
F13	24 May 2023	Sea State	Light Chop
F13	24 May 2023	High Tide (ft)	4.84
F13	24 May 2023	High Tide Time	6
F13	24 May 2023	Low Tide (ft)	0.01
F13	24 May 2023	Low Tide Time	730
F13	24 May 2023	Comments	OA 1m Btl# 2305179484 Nsk# 6; OA 60m Btl# 2305179485 Nsk# 4;
F14	24 May 2023	Depth (m)	60
F14	24 May 2023	Arrive Time	951
F14	24 May 2023	Depart Time	958
F14	24 May 2023	Air Temp (C)	15

Station	Date	Parameter	Value
F14	24 May 2023	Weather	Overcast
F14	24 May 2023	Visibility (mi)	6
F14	24 May 2023	Wind Speed (kts)	10.5
F14	24 May 2023	Wind Dir	SW
F14	24 May 2023	Water Color	Blue
F14	24 May 2023	Wave Ht Low (ft)	2
F14	24 May 2023	Wave Period (sec)	12
F14	24 May 2023	Sea State	Light Chop
F14	24 May 2023	High Tide (ft)	4.84
F14	24 May 2023	High Tide Time	6
F14	24 May 2023	Low Tide (ft)	0.01
F14	24 May 2023	Low Tide Time	730
F14	24 May 2023	Comments	none
F15	25 May 2023	Depth (m)	82
F15	25 May 2023	Arrive Time	1136
F15	25 May 2023	Depart Time	1146
F15	25 May 2023	Air Temp (C)	15.9
F15	25 May 2023	Weather	Overcast
F15	25 May 2023	Visibility (mi)	8
F15	25 May 2023	Wind Speed (kts)	3.7
F15	25 May 2023	Wind Dir	W
F15	25 May 2023	Water Color	Blue
F15	25 May 2023	Wave Ht Low (ft)	3
F15	25 May 2023	Wave Period (sec)	15
F15	25 May 2023	Sea State	Calm
F15	25 May 2023	High Tide (ft)	4.45
F15	25 May 2023	High Tide Time	24
F15	25 May 2023	Low Tide (ft)	0.28
F15	25 May 2023	Low Tide Time	836
F15	25 May 2023	Comments	Niskin #6 did not close so niskin #1 used for OA-1m OA 1m Btl# 2305189486 Nsk# 1;OA 80m Btl# 2305189487 Nsk# 4;;NA
F16	25 May 2023	Depth (m)	82
F16	25 May 2023	Arrive Time	1120
F16	25 May 2023	Depart Time	1125
F16	25 May 2023	Air Temp (C)	15.8
F16	25 May 2023	Weather	Overcast
F16	25 May 2023	Visibility (mi)	8
F16	25 May 2023	Wind Speed (kts)	5
F16	25 May 2023	Wind Dir	W
F16	25 May 2023	Water Color	Blue
F16	25 May 2023	Wave Ht Low (ft)	3
F16	25 May 2023	Wave Period (sec)	15
F16	25 May 2023	Sea State	Calm
F16	25 May 2023	High Tide (ft)	4.45
F16	25 May 2023	High Tide Time	24
F16	25 May 2023	Low Tide (ft)	0.28
F16	25 May 2023	Low Tide Time	836
F16	25 May 2023	Comments	none
F17	25 May 2023	Depth (m)	82
F17	25 May 2023	Arrive Time	1105
F17	25 May 2023	Depart Time	1110
F17	25 May 2023	Air Temp (C)	15.9
F17	25 May 2023	Weather	Overcast
F17	25 May 2023	Visibility (mi)	8
F17	25 May 2023	Wind Speed (kts)	2.9
F17	25 May 2023	Wind Dir	W
F17	25 May 2023	Water Color	Blue

Station	Date	Parameter	Value
F17	25 May 2023	Wave Ht Low (ft)	3
F17	25 May 2023	Wave Period (sec)	15
F17	25 May 2023	Sea State	Calm
F17	25 May 2023	High Tide (ft)	4.45
F17	25 May 2023	High Tide Time	24
F17	25 May 2023	Low Tide (ft)	0.28
F17	25 May 2023	Low Tide Time	836
F17	25 May 2023	Comments	none
F18	25 May 2023	Depth (m)	82
F18	25 May 2023	Arrive Time	1050
F18	25 May 2023	Depart Time	1055
F18	25 May 2023	Air Temp (C)	15.8
F18	25 May 2023	Weather	Overcast
F18	25 May 2023	Visibility (mi)	8
F18	25 May 2023	Wind Speed (kts)	3.2
F18	25 May 2023	Wind Dir	W
F18	25 May 2023	Water Color	Blue
F18	25 May 2023	Wave Ht Low (ft)	3
F18	25 May 2023	Wave Period (sec)	15
F18	25 May 2023	Sea State	Calm
F18	25 May 2023	High Tide (ft)	4.45
F18	25 May 2023	High Tide Time	24
F18	25 May 2023	Low Tide (ft)	0.28
F18	25 May 2023	Low Tide Time	836
F18	25 May 2023	Comments	none
F19	25 May 2023	Depth (m)	83
F19	25 May 2023	Arrive Time	1032
F19	25 May 2023	Depart Time	1038
F19	25 May 2023	Air Temp (C)	15.7
F19	25 May 2023	Weather	Overcast
F19	25 May 2023	Visibility (mi)	8
F19	25 May 2023	Wind Speed (kts)	5.4
F19	25 May 2023	Wind Dir	W
F19	25 May 2023	Water Color	Blue
F19	25 May 2023	Wave Ht Low (ft)	3
F19	25 May 2023	Wave Period (sec)	15
F19	25 May 2023	Sea State	Calm
F19	25 May 2023	High Tide (ft)	4.45
F19	25 May 2023	High Tide Time	24
F19	25 May 2023	Low Tide (ft)	0.28
F19	25 May 2023	Low Tide Time	836
F19	25 May 2023	Comments	none
F20	25 May 2023	Depth (m)	82
F20	25 May 2023	Arrive Time	1016
F20	25 May 2023	Depart Time	1022
F20	25 May 2023	Air Temp (C)	15.6
F20	25 May 2023	Weather	Overcast
F20	25 May 2023	Visibility (mi)	8
F20	25 May 2023	Wind Speed (kts)	5.8
F20	25 May 2023	Wind Dir	W
F20	25 May 2023	Water Color	Blue
F20	25 May 2023	Wave Ht Low (ft)	3
F20	25 May 2023	Wave Period (sec)	15
F20	25 May 2023	Sea State	Calm
F20	25 May 2023	High Tide (ft)	4.45
F20	25 May 2023	High Tide Time	24
F20	25 May 2023	Low Tide (ft)	0.28
F20	25 May 2023	Low Tide Time	836

Station	Date	Parameter	Value
F20	25 May 2023	Comments	none
F21	25 May 2023	Depth (m)	84
F21	25 May 2023	Arrive Time	1001
F21	25 May 2023	Depart Time	1006
F21	25 May 2023	Air Temp (C)	15.5
F21	25 May 2023	Weather	Overcast
F21	25 May 2023	Visibility (mi)	6
F21	25 May 2023	Wind Speed (kts)	5.8
F21	25 May 2023	Wind Dir	W
F21	25 May 2023	Water Color	Blue
F21	25 May 2023	Wave Ht Low (ft)	3
F21	25 May 2023	Wave Period (sec)	15
F21	25 May 2023	Sea State	Calm
F21	25 May 2023	High Tide (ft)	4.45
F21	25 May 2023	High Tide Time	24
F21	25 May 2023	Low Tide (ft)	0.28
F21	25 May 2023	Low Tide Time	836
F21	25 May 2023	Comments	none
F22	25 May 2023	Depth (m)	81
F22	25 May 2023	Arrive Time	947
F22	25 May 2023	Depart Time	951
F22	25 May 2023	Air Temp (C)	15.5
F22	25 May 2023	Weather	Overcast
F22	25 May 2023	Visibility (mi)	6
F22	25 May 2023	Wind Speed (kts)	5
F22	25 May 2023	Wind Dir	W
F22	25 May 2023	Water Color	Blue
F22	25 May 2023	Wave Ht Low (ft)	3
F22	25 May 2023	Wave Period (sec)	15
F22	25 May 2023	Sea State	Calm
F22	25 May 2023	High Tide (ft)	4.45
F22	25 May 2023	High Tide Time	24
F22	25 May 2023	Low Tide (ft)	0.28
F22	25 May 2023	Low Tide Time	836
F22	25 May 2023	Comments	none
F24	25 May 2023	Depth (m)	82
F24	25 May 2023	Arrive Time	909
F24	25 May 2023	Depart Time	914
F24	25 May 2023	Air Temp (C)	15.4
F24	25 May 2023	Weather	Overcast
F24	25 May 2023	Visibility (mi)	4
F24	25 May 2023	Wind Speed (kts)	6.8
F24	25 May 2023	Wind Dir	W
F24	25 May 2023	Water Color	Blue
F24	25 May 2023	Wave Ht Low (ft)	3
F24	25 May 2023	Wave Period (sec)	15
F24	25 May 2023	Sea State	Calm
F24	25 May 2023	High Tide (ft)	4.45
F24	25 May 2023	High Tide Time	24
F24	25 May 2023	Low Tide (ft)	0.28
F24	25 May 2023	Low Tide Time	836
F24	25 May 2023	Comments	none
F25	25 May 2023	Depth (m)	80
F25	25 May 2023	Arrive Time	855
F25	25 May 2023	Depart Time	900
F25	25 May 2023	Air Temp (C)	15.4
F25	25 May 2023	Weather	Overcast

Station	Date	Parameter	Value
F25	25 May 2023	Visibility (mi)	4
F25	25 May 2023	Wind Speed (kts)	5.1
F25	25 May 2023	Wind Dir	W
F25	25 May 2023	Water Color	Blue
F25	25 May 2023	Wave Ht Low (ft)	3
F25	25 May 2023	Wave Period (sec)	15
F25	25 May 2023	Sea State	Calm
F25	25 May 2023	High Tide (ft)	4.45
F25	25 May 2023	High Tide Time	24
F25	25 May 2023	Low Tide (ft)	0.28
F25	25 May 2023	Low Tide Time	836
F25	25 May 2023	Comments	none
F26	23 May 2023	Depth (m)	100
F26	23 May 2023	Arrive Time	1221
F26	23 May 2023	Depart Time	1226
F26	23 May 2023	Air Temp (C)	15.2
F26	23 May 2023	Weather	Overcast
F26	23 May 2023	Visibility (mi)	10
F26	23 May 2023	Wind Speed (kts)	5.6
F26	23 May 2023	Wind Dir	SW
F26	23 May 2023	Water Color	Blue
F26	23 May 2023	Wave Ht Low (ft)	3
F26	23 May 2023	Wave Period (sec)	14
F26	23 May 2023	Sea State	Regular Swell
F26	23 May 2023	High Tide (ft)	5.03
F26	23 May 2023	High Tide Time	6
F26	23 May 2023	Low Tide (ft)	-0.32
F26	23 May 2023	Low Tide Time	648
F26	23 May 2023	Comments	none
F27	23 May 2023	Depth (m)	100
F27	23 May 2023	Arrive Time	1206
F27	23 May 2023	Depart Time	1211
F27	23 May 2023	Air Temp (C)	15.4
F27	23 May 2023	Weather	Overcast
F27	23 May 2023	Visibility (mi)	10
F27	23 May 2023	Wind Speed (kts)	7.5
F27	23 May 2023	Wind Dir	S
F27	23 May 2023	Water Color	Blue
F27	23 May 2023	Wave Ht Low (ft)	3
F27	23 May 2023	Wave Period (sec)	14
F27	23 May 2023	Sea State	Regular Swell
F27	23 May 2023	High Tide (ft)	5.03
F27	23 May 2023	High Tide Time	6
F27	23 May 2023	Low Tide (ft)	-0.32
F27	23 May 2023	Low Tide Time	648
F27	23 May 2023	Comments	none
F28	23 May 2023	Depth (m)	104
F28	23 May 2023	Arrive Time	1152
F28	23 May 2023	Depart Time	1157
F28	23 May 2023	Air Temp (C)	15.1
F28	23 May 2023	Weather	Overcast
F28	23 May 2023	Visibility (mi)	10
F28	23 May 2023	Wind Speed (kts)	8.8
F28	23 May 2023	Wind Dir	SW
F28	23 May 2023	Water Color	Blue
F28	23 May 2023	Wave Ht Low (ft)	3
F28	23 May 2023	Wave Period (sec)	14
F28	23 May 2023	Sea State	Regular Swell

Station	Date	Parameter	Value
F28	23 May 2023	High Tide (ft)	5.03
F28	23 May 2023	High Tide Time	6
F28	23 May 2023	Low Tide (ft)	-0.32
F28	23 May 2023	Low Tide Time	648
F28	23 May 2023	Comments	none
F29	23 May 2023	Depth (m)	100
F29	23 May 2023	Arrive Time	1137
F29	23 May 2023	Depart Time	1143
F29	23 May 2023	Air Temp (C)	15.1
F29	23 May 2023	Weather	Overcast
F29	23 May 2023	Visibility (mi)	10
F29	23 May 2023	Wind Speed (kts)	7.9
F29	23 May 2023	Wind Dir	S
F29	23 May 2023	Water Color	Blue
F29	23 May 2023	Wave Ht Low (ft)	3
F29	23 May 2023	Wave Period (sec)	14
F29	23 May 2023	Sea State	Regular Swell
F29	23 May 2023	High Tide (ft)	5.03
F29	23 May 2023	High Tide Time	6
F29	23 May 2023	Low Tide (ft)	-0.32
F29	23 May 2023	Low Tide Time	648
F29	23 May 2023	Comments	none
F30	23 May 2023	Depth (m)	98
F30	23 May 2023	Arrive Time	1121
F30	23 May 2023	Depart Time	1129
F30	23 May 2023	Air Temp (C)	15.2
F30	23 May 2023	Weather	Overcast
F30	23 May 2023	Visibility (mi)	10
F30	23 May 2023	Wind Speed (kts)	13.4
F30	23 May 2023	Wind Dir	SW
F30	23 May 2023	Water Color	Blue
F30	23 May 2023	Wave Ht Low (ft)	3
F30	23 May 2023	Wave Period (sec)	14
F30	23 May 2023	Sea State	Regular Swell
F30	23 May 2023	High Tide (ft)	5.03
F30	23 May 2023	High Tide Time	6
F30	23 May 2023	Low Tide (ft)	-0.32
F30	23 May 2023	Low Tide Time	648
F30	23 May 2023	Comments	none
F31	23 May 2023	Depth (m)	100
F31	23 May 2023	Arrive Time	1040
F31	23 May 2023	Depart Time	1048
F31	23 May 2023	Air Temp (C)	15.2
F31	23 May 2023	Weather	Overcast
F31	23 May 2023	Visibility (mi)	10
F31	23 May 2023	Wind Speed (kts)	5.9
F31	23 May 2023	Wind Dir	SW
F31	23 May 2023	Water Color	Blue
F31	23 May 2023	Wave Ht Low (ft)	3
F31	23 May 2023	Wave Period (sec)	14
F31	23 May 2023	Sea State	Regular Swell
F31	23 May 2023	High Tide (ft)	5.03
F31	23 May 2023	High Tide Time	6
F31	23 May 2023	Low Tide (ft)	-0.32
F31	23 May 2023	Low Tide Time	648
F31	23 May 2023	Comments	none
F32	23 May 2023	Depth (m)	102

Station	Date	Parameter	Value
F32	23 May 2023	Arrive Time	1023
F32	23 May 2023	Depart Time	1030
F32	23 May 2023	Air Temp (C)	15.6
F32	23 May 2023	Weather	Overcast
F32	23 May 2023	Visibility (mi)	10
F32	23 May 2023	Wind Speed (kts)	5
F32	23 May 2023	Wind Dir	SW
F32	23 May 2023	Water Color	Blue
F32	23 May 2023	Wave Ht Low (ft)	3
F32	23 May 2023	Wave Period (sec)	14
F32	23 May 2023	Sea State	Regular Swell
F32	23 May 2023	High Tide (ft)	5.03
F32	23 May 2023	High Tide Time	6
F32	23 May 2023	Low Tide (ft)	-0.32
F32	23 May 2023	Low Tide Time	648
F32	23 May 2023	Comments	none
F33	23 May 2023	Depth (m)	103
F33	23 May 2023	Arrive Time	1008
F33	23 May 2023	Depart Time	1013
F33	23 May 2023	Air Temp (C)	15.4
F33	23 May 2023	Weather	Overcast
F33	23 May 2023	Visibility (mi)	10
F33	23 May 2023	Wind Speed (kts)	5.8
F33	23 May 2023	Wind Dir	SW
F33	23 May 2023	Water Color	Blue
F33	23 May 2023	Wave Ht Low (ft)	3
F33	23 May 2023	Wave Period (sec)	14
F33	23 May 2023	Sea State	Regular Swell
F33	23 May 2023	High Tide (ft)	5.03
F33	23 May 2023	High Tide Time	6
F33	23 May 2023	Low Tide (ft)	-0.32
F33	23 May 2023	Low Tide Time	648
F33	23 May 2023	Comments	none
F34	23 May 2023	Depth (m)	101
F34	23 May 2023	Arrive Time	953
F34	23 May 2023	Depart Time	958
F34	23 May 2023	Air Temp (C)	15.4
F34	23 May 2023	Weather	Overcast
F34	23 May 2023	Visibility (mi)	10
F34	23 May 2023	Wind Speed (kts)	5.6
F34	23 May 2023	Wind Dir	SW
F34	23 May 2023	Water Color	Blue
F34	23 May 2023	Wave Ht Low (ft)	3
F34	23 May 2023	Wave Period (sec)	14
F34	23 May 2023	Sea State	Regular Swell
F34	23 May 2023	High Tide (ft)	5.03
F34	23 May 2023	High Tide Time	6
F34	23 May 2023	Low Tide (ft)	-0.32
F34	23 May 2023	Low Tide Time	648
F34	23 May 2023	Comments	none
F35	23 May 2023	Depth (m)	100
F35	23 May 2023	Arrive Time	922
F35	23 May 2023	Depart Time	941
F35	23 May 2023	Air Temp (C)	15.5
F35	23 May 2023	Weather	Overcast
F35	23 May 2023	Visibility (mi)	10
F35	23 May 2023	Wind Speed (kts)	5.5
F35	23 May 2023	Wind Dir	SW

Station	Date	Parameter	Value
F35	23 May 2023	Water Color	Blue
F35	23 May 2023	Wave Ht Low (ft)	3
F35	23 May 2023	Wave Period (sec)	14
F35	23 May 2023	Sea State	Regular Swell
F35	23 May 2023	High Tide (ft)	5.03
F35	23 May 2023	High Tide Time	6
F35	23 May 2023	Low Tide (ft)	-0.32
F35	23 May 2023	Low Tide Time	648
F35	23 May 2023	Comments	1st cast for WQ and bacti; 2nd cast for OA only OA 1m Btl# 2305169476 Nsk# 5;OA 50m Btl# 2305169477 Nsk# 4;OA 100m Btl# 2305169478 Nsk# 1;OA 100m-dup Btl# 2305169479 Nsk# 2;
F36	23 May 2023	Depth (m)	100
F36	23 May 2023	Arrive Time	907
F36	23 May 2023	Depart Time	916
F36	23 May 2023	Air Temp (C)	15.5
F36	23 May 2023	Weather	Overcast
F36	23 May 2023	Visibility (mi)	10
F36	23 May 2023	Wind Speed (kts)	4.5
F36	23 May 2023	Wind Dir	SW
F36	23 May 2023	Water Color	Blue
F36	23 May 2023	Wave Ht Low (ft)	3
F36	23 May 2023	Wave Period (sec)	14
F36	23 May 2023	Sea State	Regular Swell
F36	23 May 2023	High Tide (ft)	5.03
F36	23 May 2023	High Tide Time	6
F36	23 May 2023	Low Tide (ft)	-0.32
F36	23 May 2023	Low Tide Time	648
F36	23 May 2023	Comments	none

Table 4.4

Summary of CTD profile data from the PLOO offshore stations for each sample date.

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F01	24 May 2023	1	17.16	81.25	9.6	33.54	8.3	24.4	1.39
F01	24 May 2023	2	17.01	79.67	9.9	33.55	8.3	24.4	1.85
F01	24 May 2023	3	16.96	78.00	10.1	33.56	8.3	24.4	2.47
F01	24 May 2023	4	16.94	77.10	10.1	33.56	8.3	24.4	2.96
F01	24 May 2023	5	16.89	76.50	9.8	33.56	8.3	24.4	3.38
F01	24 May 2023	6	16.64	76.14	9.1	33.56	8.3	24.5	3.64
F01	24 May 2023	7	16.49	76.62	8.8	33.55	8.2	24.5	3.81
F01	24 May 2023	8	16.41	77.41	8.6	33.55	8.2	24.5	3.86
F01	24 May 2023	9	16.22	78.21	8.4	33.55	8.2	24.6	3.66
F01	24 May 2023	10	16.14	78.88	8.2	33.55	8.2	24.6	3.65
F01	24 May 2023	11	15.94	79.55	7.8	33.55	8.1	24.6	3.38
F01	24 May 2023	12	15.65	80.48	7.6	33.55	8.1	24.7	3.07
F01	24 May 2023	13	15.45	81.81	7.6	33.53	8.1	24.7	2.69
F01	24 May 2023	14	15.31	83.04	7.6	33.52	8.1	24.8	2.33
F01	24 May 2023	15	15.23	84.22	7.6	33.51	8.1	24.8	2.16
F01	24 May 2023	16	14.45	84.78	7.3	33.51	8.1	24.9	1.74
F01	24 May 2023	17	13.10	86.88	7.3	33.47	8.1	25.2	1.49
F01	24 May 2023	18	12.71	89.47	7.2	33.45	8.0	25.3	1.38
F01	24 May 2023	19	12.69	90.23	6.9	33.45	8.0	25.3	1.23
F01	24 May 2023	20	12.79	90.02	7.0	33.45	8.0	25.2	1.19
F02	24 May 2023	1	17.38	90.56	8.3	33.49	8.1	24.3	0.61
F02	24 May 2023	2	17.38	90.66	8.3	33.49	8.1	24.3	0.62
F02	24 May 2023	3	17.38	90.58	8.3	33.49	8.1	24.3	0.66
F02	24 May 2023	4	17.38	90.66	8.3	33.49	8.1	24.3	0.66
F02	24 May 2023	5	17.37	90.62	8.3	33.49	8.1	24.3	0.69
F02	24 May 2023	6	17.37	90.52	8.3	33.49	8.1	24.3	0.75
F02	24 May 2023	7	17.33	90.37	8.3	33.49	8.1	24.3	0.77
F02	24 May 2023	8	17.30	90.31	8.3	33.49	8.1	24.3	0.79
F02	24 May 2023	9	17.28	90.22	8.3	33.48	8.1	24.3	0.81
F02	24 May 2023	10	17.26	90.15	8.3	33.48	8.1	24.3	0.85
F02	24 May 2023	11	17.25	90.13	8.3	33.48	8.1	24.3	0.85
F02	24 May 2023	12	17.24	90.14	8.3	33.48	8.1	24.3	0.87
F02	24 May 2023	13	17.21	90.08	8.3	33.48	8.1	24.3	0.93
F02	24 May 2023	14	17.18	89.97	8.3	33.48	8.1	24.3	1.07
F02	24 May 2023	15	17.16	89.77	8.3	33.48	8.1	24.3	1.19
F02	24 May 2023	16	17.06	89.56	8.3	33.48	8.1	24.3	1.38
F02	24 May 2023	17	16.95	88.92	8.2	33.49	8.1	24.4	1.67
F02	24 May 2023	18	16.82	88.39	7.7	33.50	8.1	24.4	1.66
F02	24 May 2023	19	15.11	88.13	7.4	33.55	8.1	24.8	1.46
F03	24 May 2023	1	17.22	90.22	8.4	33.48	8.2	24.3	0.55
F03	24 May 2023	2	17.22	90.84	8.4	33.48	8.2	24.3	0.60
F03	24 May 2023	3	17.22	90.78	8.4	33.48	8.2	24.3	0.62
F03	24 May 2023	4	17.22	90.96	8.4	33.48	8.2	24.3	0.64
F03	24 May 2023	5	17.22	90.92	8.4	33.48	8.2	24.3	0.67
F03	24 May 2023	6	17.22	90.94	8.4	33.48	8.2	24.3	0.68
F03	24 May 2023	7	17.22	91.00	8.4	33.48	8.2	24.3	0.67
F03	24 May 2023	8	17.22	90.91	8.4	33.48	8.2	24.3	0.64
F03	24 May 2023	9	17.21	90.97	8.4	33.48	8.2	24.3	0.69
F03	24 May 2023	10	17.21	90.96	8.3	33.48	8.2	24.3	0.72
F03	24 May 2023	11	17.19	90.94	8.3	33.48	8.2	24.3	0.74
F03	24 May 2023	12	17.18	90.88	8.3	33.49	8.2	24.3	0.77
F03	24 May 2023	13	17.15	90.74	8.3	33.49	8.2	24.3	0.81
F03	24 May 2023	14	17.10	90.75	8.3	33.49	8.2	24.3	0.97
F03	24 May 2023	15	17.00	90.30	8.3	33.49	8.2	24.4	1.35

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F03	24 May 2023	16	16.90	89.45	8.1	33.49	8.2	24.4	1.65
F03	24 May 2023	17	16.61	88.07	7.8	33.51	8.2	24.5	1.93
F03	24 May 2023	18	15.79	86.70	7.6	33.53	8.1	24.7	1.93
F03	24 May 2023	19	16.05	85.87	7.9	33.49	8.1	24.6	1.81
F04	24 May 2023	1	17.46	91.31	8.3	33.49	8.2	24.2	0.26
F04	24 May 2023	2	17.47	91.26	8.3	33.49	8.2	24.2	0.26
F04	24 May 2023	3	17.43	91.24	8.3	33.49	8.2	24.3	0.27
F04	24 May 2023	4	17.40	91.26	8.3	33.49	8.2	24.3	0.29
F04	24 May 2023	5	17.39	91.18	8.3	33.49	8.2	24.3	0.30
F04	24 May 2023	6	17.38	91.13	8.3	33.49	8.2	24.3	0.31
F04	24 May 2023	7	17.37	91.14	8.3	33.49	8.2	24.3	0.34
F04	24 May 2023	8	17.36	91.09	8.3	33.49	8.2	24.3	0.36
F04	24 May 2023	9	17.34	90.95	8.3	33.48	8.2	24.3	0.38
F04	24 May 2023	10	17.29	90.73	8.4	33.48	8.2	24.3	0.42
F04	24 May 2023	11	17.24	90.73	8.4	33.48	8.2	24.3	0.46
F04	24 May 2023	12	17.09	90.80	8.4	33.47	8.2	24.3	0.49
F04	24 May 2023	13	16.11	90.74	8.8	33.46	8.2	24.5	0.67
F04	24 May 2023	14	15.56	90.31	8.9	33.45	8.2	24.7	0.85
F04	24 May 2023	15	14.87	89.66	9.1	33.42	8.2	24.8	0.95
F04	24 May 2023	16	14.29	89.71	9.2	33.40	8.2	24.9	1.09
F04	24 May 2023	17	13.94	89.70	9.1	33.40	8.2	25.0	1.12
F04	24 May 2023	18	13.38	89.83	8.6	33.40	8.1	25.1	1.23
F04	24 May 2023	19	12.90	89.88	8.2	33.38	8.1	25.2	1.31
F04	24 May 2023	20	12.80	89.98	7.9	33.38	8.1	25.2	1.41
F04	24 May 2023	21	12.72	89.85	7.9	33.38	8.1	25.2	1.62
F04	24 May 2023	22	12.67	89.77	7.8	33.38	8.1	25.2	2.13
F04	24 May 2023	23	12.60	89.66	7.6	33.39	8.1	25.2	2.25
F04	24 May 2023	24	12.56	89.49	7.5	33.40	8.1	25.2	2.86
F04	24 May 2023	25	12.44	88.96	7.3	33.41	8.1	25.3	2.55
F04	24 May 2023	26	12.31	88.55	7.0	33.42	8.0	25.3	2.57
F04	24 May 2023	27	12.29	89.55	6.9	33.43	8.0	25.3	2.41
F04	24 May 2023	28	12.22	89.96	6.7	33.44	8.0	25.3	2.16
F04	24 May 2023	29	12.22	90.31	6.5	33.46	8.0	25.4	1.72
F04	24 May 2023	30	12.22	90.76	6.2	33.49	8.0	25.4	1.39
F04	24 May 2023	31	12.09	91.42	6.0	33.49	8.0	25.4	1.22
F04	24 May 2023	32	11.96	92.04	6.0	33.49	8.0	25.4	1.02
F04	24 May 2023	33	11.85	92.24	5.9	33.49	7.9	25.4	1.21
F04	24 May 2023	34	11.76	92.29	5.7	33.50	7.9	25.5	0.91
F04	24 May 2023	35	11.66	92.29	5.5	33.52	7.9	25.5	1.13
F04	24 May 2023	36	11.53	92.29	5.3	33.55	7.9	25.5	0.84
F04	24 May 2023	37	11.52	92.58	5.2	33.55	7.9	25.6	0.85
F04	24 May 2023	38	11.52	92.67	5.2	33.55	7.9	25.6	0.83
F04	24 May 2023	39	11.51	92.66	5.2	33.55	7.9	25.6	0.89
F04	24 May 2023	40	11.50	92.61	5.2	33.56	7.9	25.6	0.82
F04	24 May 2023	41	11.49	92.57	5.2	33.56	7.9	25.6	0.81
F04	24 May 2023	42	11.49	92.57	5.1	33.56	7.9	25.6	0.95
F04	24 May 2023	43	11.43	92.49	5.0	33.57	7.9	25.6	0.89
F04	24 May 2023	44	11.35	91.93	4.8	33.59	7.8	25.6	0.72
F04	24 May 2023	45	11.31	91.51	4.8	33.60	7.8	25.6	0.69
F04	24 May 2023	46	11.28	91.58	4.7	33.61	7.8	25.6	0.69
F04	24 May 2023	47	11.25	91.76	4.7	33.62	7.8	25.7	0.79
F04	24 May 2023	48	11.21	91.83	4.7	33.63	7.8	25.7	0.70
F04	24 May 2023	49	11.18	91.98	4.6	33.63	7.8	25.7	0.62
F04	24 May 2023	50	11.14	91.95	4.6	33.64	7.8	25.7	0.64
F04	24 May 2023	51	11.11	91.83	4.5	33.65	7.8	25.7	0.65
F04	24 May 2023	52	11.09	91.79	4.5	33.65	7.8	25.7	0.68
F04	24 May 2023	53	11.05	91.73	4.5	33.66	7.8	25.7	0.68
F04	24 May 2023	54	11.04	91.85	4.4	33.66	7.8	25.7	0.63
F04	24 May 2023	55	11.01	91.82	4.4	33.67	7.8	25.7	0.54
F04	24 May 2023	56	10.96	91.76	4.3	33.68	7.8	25.8	0.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F04	24 May 2023	57	10.92	91.67	4.3	33.69	7.8	25.8	0.49
F04	24 May 2023	58	10.89	91.26	4.2	33.69	7.8	25.8	0.52
F04	24 May 2023	59	10.89	90.64	4.2	33.69	7.8	25.8	0.46
F04	24 May 2023	60	10.88	90.13	4.2	33.69	7.8	25.8	0.44
F04	24 May 2023	61	10.89	90.18	4.2	33.69	7.8	25.8	0.45
F04	24 May 2023	62	10.89	89.99	4.2	33.69	7.8	25.8	0.43
F05	24 May 2023	1	17.44	91.42	8.3	33.49	8.2	24.2	0.27
F05	24 May 2023	2	17.42	91.34	8.3	33.49	8.2	24.3	0.29
F05	24 May 2023	3	17.41	91.30	8.3	33.49	8.2	24.3	0.29
F05	24 May 2023	4	17.41	91.21	8.3	33.49	8.2	24.3	0.31
F05	24 May 2023	5	17.42	91.26	8.3	33.49	8.2	24.3	0.32
F05	24 May 2023	6	17.41	91.32	8.3	33.49	8.2	24.3	0.33
F05	24 May 2023	7	17.40	91.21	8.3	33.49	8.2	24.3	0.34
F05	24 May 2023	8	17.39	91.11	8.3	33.49	8.2	24.3	0.36
F05	24 May 2023	9	17.37	91.16	8.3	33.49	8.2	24.3	0.39
F05	24 May 2023	10	17.29	91.09	8.4	33.48	8.2	24.3	0.43
F05	24 May 2023	11	17.15	90.96	8.5	33.48	8.2	24.3	0.45
F05	24 May 2023	12	17.12	90.91	8.5	33.47	8.2	24.3	0.48
F05	24 May 2023	13	16.96	90.81	8.6	33.46	8.2	24.3	0.51
F05	24 May 2023	14	16.79	90.79	8.6	33.46	8.2	24.4	0.57
F05	24 May 2023	15	16.61	90.57	8.6	33.46	8.2	24.4	0.68
F05	24 May 2023	16	15.88	90.14	8.7	33.45	8.2	24.6	0.81
F05	24 May 2023	17	14.91	89.83	9.0	33.44	8.2	24.8	0.99
F05	24 May 2023	18	14.52	89.76	9.0	33.42	8.2	24.9	1.08
F05	24 May 2023	19	14.21	89.90	8.7	33.42	8.2	24.9	1.14
F05	24 May 2023	20	13.82	89.78	8.5	33.42	8.1	25.0	1.16
F05	24 May 2023	21	12.97	89.90	8.3	33.40	8.1	25.2	1.33
F05	24 May 2023	22	12.83	90.00	8.0	33.40	8.1	25.2	1.36
F05	24 May 2023	23	12.64	89.88	7.7	33.40	8.1	25.2	2.07
F05	24 May 2023	24	12.58	89.51	7.6	33.40	8.1	25.2	2.60
F05	24 May 2023	25	12.50	89.15	7.4	33.41	8.1	25.3	2.71
F05	24 May 2023	26	12.45	89.20	7.2	33.42	8.0	25.3	2.33
F05	24 May 2023	27	12.41	89.52	7.1	33.43	8.0	25.3	2.21
F05	24 May 2023	28	12.34	89.50	6.8	33.45	8.0	25.3	1.99
F05	24 May 2023	29	12.36	90.44	6.4	33.48	8.0	25.3	1.67
F05	24 May 2023	30	12.34	91.02	6.1	33.50	8.0	25.4	1.41
F05	24 May 2023	31	12.31	91.42	6.1	33.50	8.0	25.4	1.02
F05	24 May 2023	32	12.26	91.51	6.1	33.50	8.0	25.4	1.04
F05	24 May 2023	33	12.13	91.78	6.2	33.49	8.0	25.4	0.83
F05	24 May 2023	34	11.99	92.20	6.2	33.48	8.0	25.4	1.13
F05	24 May 2023	35	11.97	92.29	6.1	33.48	8.0	25.4	0.85
F05	24 May 2023	36	11.92	92.38	6.1	33.48	7.9	25.4	0.90
F05	24 May 2023	37	11.87	92.27	6.0	33.49	7.9	25.4	1.03
F05	24 May 2023	38	11.82	92.33	5.8	33.50	7.9	25.5	0.93
F05	24 May 2023	39	11.73	92.25	5.5	33.52	7.9	25.5	0.94
F05	24 May 2023	40	11.67	92.04	5.3	33.53	7.9	25.5	0.97
F05	24 May 2023	41	11.64	91.89	5.2	33.53	7.9	25.5	0.89
F05	24 May 2023	42	11.60	91.79	5.2	33.54	7.9	25.5	0.89
F05	24 May 2023	43	11.57	91.81	5.1	33.55	7.9	25.5	1.00
F05	24 May 2023	44	11.56	91.53	5.0	33.55	7.9	25.5	0.96
F05	24 May 2023	45	11.55	90.74	5.0	33.55	7.9	25.5	0.91
F05	24 May 2023	46	11.54	90.83	5.0	33.55	7.9	25.5	0.95
F05	24 May 2023	47	11.54	90.88	5.0	33.55	7.9	25.6	1.02
F05	24 May 2023	48	11.53	90.90	5.0	33.55	7.9	25.6	0.84
F05	24 May 2023	49	11.52	90.80	5.0	33.55	7.8	25.6	0.94
F05	24 May 2023	50	11.51	90.78	5.0	33.56	7.8	25.6	1.09
F05	24 May 2023	51	11.48	90.81	4.9	33.56	7.8	25.6	0.94
F05	24 May 2023	52	11.45	90.91	4.9	33.57	7.8	25.6	0.83
F05	24 May 2023	53	11.40	91.19	4.9	33.58	7.8	25.6	0.82
F05	24 May 2023	54	11.36	91.38	4.8	33.59	7.8	25.6	0.78

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F05	24 May 2023	55	11.22	91.06	4.6	33.62	7.8	25.7	0.75
	24 May 2023	56	11.18	89.03	4.4	33.63	7.8	25.7	0.65
	24 May 2023	57	11.15	87.33	4.4	33.63	7.8	25.7	0.63
	24 May 2023	58	11.13	87.67	4.4	33.64	7.8	25.7	0.59
	24 May 2023	59	11.13	87.95	4.4	33.64	7.8	25.7	0.59
	24 May 2023	60	11.12	87.98	4.4	33.64	7.8	25.7	0.61
	24 May 2023	61	11.13	87.89	4.4	33.64	7.8	25.7	0.58
	24 May 2023	62	11.13	87.46	4.4	33.64	7.8	25.7	0.67
F06	24 May 2023	1	17.43	91.11	8.3	33.49	8.2	24.3	0.26
	24 May 2023	2	17.42	91.06	8.3	33.49	8.2	24.3	0.25
	24 May 2023	3	17.42	90.41	8.3	33.49	8.2	24.3	0.26
	24 May 2023	4	17.42	91.43	8.2	33.49	8.2	24.3	0.27
	24 May 2023	5	17.40	91.43	8.3	33.49	8.2	24.3	0.29
	24 May 2023	6	17.39	91.40	8.3	33.49	8.2	24.3	0.30
	24 May 2023	7	17.39	91.41	8.3	33.49	8.2	24.3	0.32
	24 May 2023	8	17.38	91.31	8.3	33.49	8.2	24.3	0.34
	24 May 2023	9	17.26	91.35	8.4	33.48	8.2	24.3	0.38
	24 May 2023	10	17.03	91.21	8.5	33.47	8.2	24.3	0.38
	24 May 2023	11	16.76	91.01	8.5	33.46	8.2	24.4	0.45
	24 May 2023	12	16.29	90.79	8.7	33.46	8.2	24.5	0.59
	24 May 2023	13	15.79	90.47	8.8	33.45	8.2	24.6	0.76
	24 May 2023	14	15.53	89.93	8.8	33.44	8.2	24.7	0.89
	24 May 2023	15	15.26	89.72	8.8	33.44	8.2	24.7	0.96
	24 May 2023	16	14.52	89.61	9.0	33.42	8.2	24.9	1.05
	24 May 2023	17	14.10	89.72	8.9	33.41	8.2	24.9	1.16
	24 May 2023	18	13.95	89.86	8.5	33.41	8.1	25.0	1.15
	24 May 2023	19	13.35	89.78	8.3	33.42	8.1	25.1	1.29
	24 May 2023	20	12.89	89.78	8.1	33.40	8.1	25.2	1.29
	24 May 2023	21	12.68	89.94	7.9	33.39	8.1	25.2	1.50
	24 May 2023	22	12.60	89.87	7.6	33.40	8.1	25.2	1.92
	24 May 2023	23	12.48	89.67	7.4	33.40	8.1	25.3	2.62
	24 May 2023	24	12.36	89.13	7.1	33.41	8.0	25.3	3.30
	24 May 2023	25	12.22	88.59	6.9	33.42	8.0	25.3	3.28
	24 May 2023	26	12.18	88.68	6.7	33.43	8.0	25.3	3.62
	24 May 2023	27	12.14	88.95	6.6	33.44	8.0	25.3	2.63
	24 May 2023	28	11.97	89.38	6.3	33.44	8.0	25.4	1.89
	24 May 2023	29	11.92	90.94	6.2	33.45	8.0	25.4	1.75
	24 May 2023	30	11.92	90.96	6.2	33.45	8.0	25.4	1.76
	24 May 2023	31	11.92	91.21	6.1	33.46	8.0	25.4	1.81
	24 May 2023	32	11.90	91.32	6.1	33.46	8.0	25.4	1.60
	24 May 2023	33	11.86	91.17	6.0	33.48	7.9	25.4	1.23
	24 May 2023	34	11.81	91.73	5.8	33.50	7.9	25.5	1.26
	24 May 2023	35	11.76	92.10	5.6	33.51	7.9	25.5	1.08
	24 May 2023	36	11.72	92.00	5.5	33.52	7.9	25.5	1.19
	24 May 2023	37	11.66	91.93	5.3	33.53	7.9	25.5	0.93
	24 May 2023	38	11.60	91.56	5.2	33.54	7.9	25.5	0.80
	24 May 2023	39	11.61	91.06	5.1	33.54	7.9	25.5	0.74
	24 May 2023	40	11.57	90.67	5.0	33.55	7.9	25.5	0.95
	24 May 2023	41	11.55	90.51	5.0	33.55	7.9	25.5	0.99
	24 May 2023	42	11.54	90.56	5.1	33.55	7.9	25.6	0.95
	24 May 2023	43	11.53	91.03	5.0	33.55	7.9	25.6	0.83
	24 May 2023	44	11.52	90.92	5.0	33.56	7.9	25.6	0.83
	24 May 2023	45	11.50	90.92	5.0	33.56	7.9	25.6	0.80
	24 May 2023	46	11.49	90.84	5.0	33.56	7.9	25.6	0.89
	24 May 2023	47	11.48	90.70	4.9	33.56	7.8	25.6	0.82
	24 May 2023	48	11.46	90.58	4.9	33.57	7.8	25.6	0.77
	24 May 2023	49	11.46	90.68	4.9	33.57	7.8	25.6	0.83
	24 May 2023	50	11.45	90.79	4.9	33.57	7.8	25.6	0.81
	24 May 2023	51	11.39	90.43	4.8	33.58	7.8	25.6	0.82
	24 May 2023	52	11.32	89.03	4.6	33.60	7.8	25.6	0.70

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F06	24 May 2023	53	11.29	87.49	4.6	33.60	7.8	25.6	0.77
	24 May 2023	54	11.28	86.08	4.5	33.60	7.8	25.6	0.71
	24 May 2023	55	11.26	85.42	4.5	33.61	7.8	25.6	0.78
	24 May 2023	56	11.27	85.21	4.5	33.61	7.8	25.6	0.73
	24 May 2023	57	11.24	85.41	4.5	33.61	7.8	25.7	0.78
	24 May 2023	58	11.23	85.17	4.5	33.62	7.8	25.7	0.84
	24 May 2023	59	11.24	85.01	4.5	33.61	7.8	25.7	0.69
	24 May 2023	60	11.23	85.13	4.5	33.62	7.8	25.7	0.92
	24 May 2023	61	11.24	85.13	4.5	33.61	7.8	25.7	0.76
	24 May 2023	62	11.25	84.99	4.5	33.61	7.8	25.6	0.73
F07	24 May 2023	1	17.41	89.65	8.2	33.49	8.2	24.3	0.31
	24 May 2023	2	17.41	88.74	8.3	33.49	8.2	24.3	0.32
	24 May 2023	3	17.40	91.07	8.3	33.49	8.2	24.3	0.34
	24 May 2023	4	17.40	91.34	8.3	33.49	8.2	24.3	0.36
	24 May 2023	5	17.40	91.36	8.3	33.49	8.2	24.3	0.38
	24 May 2023	6	17.38	90.98	8.3	33.49	8.2	24.3	0.39
	24 May 2023	7	17.19	89.89	8.4	33.48	8.2	24.3	0.42
	24 May 2023	8	16.93	91.12	8.6	33.46	8.2	24.4	0.43
	24 May 2023	9	16.78	91.01	8.6	33.46	8.2	24.4	0.50
	24 May 2023	10	16.32	90.76	8.6	33.46	8.2	24.5	0.59
	24 May 2023	11	15.82	90.48	8.8	33.45	8.2	24.6	0.73
	24 May 2023	12	15.65	90.08	8.8	33.43	8.2	24.6	0.86
	24 May 2023	13	15.28	90.03	8.8	33.44	8.2	24.7	0.93
	24 May 2023	14	14.76	89.85	9.0	33.42	8.2	24.8	1.05
	24 May 2023	15	14.61	89.83	9.1	33.41	8.2	24.8	1.20
	24 May 2023	16	14.54	89.98	9.1	33.41	8.2	24.8	1.26
	24 May 2023	17	14.43	89.93	9.1	33.40	8.2	24.9	1.27
	24 May 2023	18	14.37	89.93	9.1	33.40	8.2	24.9	1.32
	24 May 2023	19	14.28	89.95	9.1	33.40	8.2	24.9	1.40
	24 May 2023	20	14.16	90.12	9.1	33.40	8.2	24.9	1.47
	24 May 2023	21	14.01	90.11	8.9	33.41	8.2	25.0	1.51
	24 May 2023	22	13.73	89.88	8.7	33.41	8.1	25.0	1.55
	24 May 2023	23	13.51	89.97	8.6	33.41	8.1	25.1	1.70
	24 May 2023	24	13.19	89.97	8.5	33.41	8.1	25.1	1.85
	24 May 2023	25	13.03	89.95	8.3	33.41	8.1	25.2	1.70
	24 May 2023	26	12.79	89.92	8.1	33.41	8.1	25.2	1.94
	24 May 2023	27	12.73	90.01	8.0	33.41	8.1	25.2	2.22
	24 May 2023	28	12.65	90.09	7.9	33.41	8.1	25.2	2.11
	24 May 2023	29	12.58	90.03	7.7	33.41	8.1	25.2	2.25
	24 May 2023	30	12.49	89.84	7.4	33.42	8.1	25.3	3.23
	24 May 2023	31	12.37	89.69	7.2	33.43	8.0	25.3	3.41
	24 May 2023	32	12.25	88.50	6.9	33.44	8.0	25.3	4.33
	24 May 2023	33	12.14	87.94	6.6	33.45	8.0	25.4	4.17
	24 May 2023	34	12.07	88.39	6.5	33.45	8.0	25.4	3.19
	24 May 2023	35	12.04	89.58	6.4	33.45	8.0	25.4	3.09
	24 May 2023	36	11.99	89.73	6.3	33.45	8.0	25.4	2.40
	24 May 2023	37	11.90	90.34	6.2	33.46	8.0	25.4	1.84
	24 May 2023	38	11.84	91.03	6.1	33.46	7.9	25.4	1.49
	24 May 2023	39	11.80	91.46	6.0	33.46	7.9	25.4	1.78
	24 May 2023	40	11.75	91.51	6.0	33.46	7.9	25.4	1.68
	24 May 2023	41	11.72	91.84	5.9	33.47	7.9	25.4	1.32
	24 May 2023	42	11.70	91.93	5.8	33.47	7.9	25.5	1.39
	24 May 2023	43	11.68	92.02	5.7	33.49	7.9	25.5	1.23
	24 May 2023	44	11.65	92.12	5.5	33.51	7.9	25.5	1.18
	24 May 2023	45	11.62	92.29	5.4	33.52	7.9	25.5	1.06
	24 May 2023	46	11.56	92.39	5.3	33.54	7.9	25.5	0.98
	24 May 2023	47	11.52	92.20	5.2	33.55	7.9	25.6	0.87
	24 May 2023	48	11.48	91.45	5.0	33.56	7.9	25.6	0.85
	24 May 2023	49	11.47	91.19	5.0	33.56	7.8	25.6	0.81
	24 May 2023	50	11.47	90.93	5.0	33.56	7.8	25.6	0.80

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F07	24 May 2023	51	11.46	90.94	4.9	33.57	7.8	25.6	0.84
F07	24 May 2023	52	11.45	90.75	4.9	33.57	7.8	25.6	0.83
F07	24 May 2023	53	11.44	90.35	4.9	33.57	7.8	25.6	0.72
F07	24 May 2023	54	11.44	90.28	4.9	33.57	7.8	25.6	0.79
F07	24 May 2023	55	11.43	90.33	4.9	33.57	7.8	25.6	0.74
F07	24 May 2023	56	11.41	90.45	4.9	33.58	7.8	25.6	0.83
F07	24 May 2023	57	11.39	90.18	4.8	33.58	7.8	25.6	0.76
F07	24 May 2023	58	11.38	90.19	4.8	33.58	7.8	25.6	0.69
F07	24 May 2023	59	11.30	89.81	4.7	33.60	7.8	25.6	0.90
F07	24 May 2023	60	11.25	88.61	4.6	33.61	7.8	25.6	0.68
F07	24 May 2023	61	11.13	87.81	4.5	33.64	7.8	25.7	0.61
F07	24 May 2023	62	11.00	87.12	4.3	33.67	7.8	25.7	0.56
F07	24 May 2023	63	10.96	85.30	4.2	33.67	7.8	25.8	0.51
F07	24 May 2023	64	10.97	82.13	4.2	33.67	7.8	25.7	0.54
F08	24 May 2023	1	17.43	91.19	8.3	33.49	8.2	24.3	0.36
F08	24 May 2023	2	17.43	91.21	8.3	33.49	8.2	24.3	0.38
F08	24 May 2023	3	17.42	91.11	8.3	33.49	8.2	24.3	0.42
F08	24 May 2023	4	17.42	91.10	8.3	33.49	8.2	24.3	0.43
F08	24 May 2023	5	17.42	91.08	8.3	33.49	8.2	24.3	0.46
F08	24 May 2023	6	17.40	91.13	8.3	33.49	8.2	24.3	0.50
F08	24 May 2023	7	17.28	91.01	8.4	33.48	8.2	24.3	0.56
F08	24 May 2023	8	17.09	90.72	8.5	33.47	8.2	24.3	0.60
F08	24 May 2023	9	16.78	90.57	8.6	33.46	8.2	24.4	0.66
F08	24 May 2023	10	16.58	90.60	8.6	33.46	8.2	24.4	0.73
F08	24 May 2023	11	16.33	90.52	8.6	33.46	8.2	24.5	0.79
F08	24 May 2023	12	16.09	90.43	8.6	33.46	8.2	24.5	0.90
F08	24 May 2023	13	15.89	89.99	8.6	33.46	8.2	24.6	0.97
F08	24 May 2023	14	15.72	89.98	8.5	33.46	8.2	24.6	1.07
F08	24 May 2023	15	15.41	90.01	8.6	33.45	8.2	24.7	1.22
F08	24 May 2023	16	14.81	89.95	8.8	33.44	8.2	24.8	1.36
F08	24 May 2023	17	14.44	89.97	9.0	33.42	8.2	24.9	1.35
F08	24 May 2023	18	14.35	90.09	9.0	33.41	8.2	24.9	1.38
F08	24 May 2023	19	14.26	90.16	9.0	33.41	8.2	24.9	1.48
F08	24 May 2023	20	14.19	90.04	8.8	33.41	8.2	24.9	1.50
F08	24 May 2023	21	13.60	90.23	8.6	33.42	8.1	25.0	1.49
F08	24 May 2023	22	13.31	90.12	8.3	33.42	8.1	25.1	1.75
F08	24 May 2023	23	13.16	90.08	8.0	33.42	8.1	25.1	1.58
F08	24 May 2023	24	12.93	90.27	7.7	33.43	8.1	25.2	1.78
F08	24 May 2023	25	12.72	90.43	7.6	33.43	8.1	25.2	1.65
F08	24 May 2023	26	12.61	90.42	7.5	33.43	8.1	25.3	1.79
F08	24 May 2023	27	12.47	90.52	7.4	33.42	8.0	25.3	1.70
F08	24 May 2023	28	12.38	90.53	7.2	33.43	8.0	25.3	2.01
F08	24 May 2023	29	12.27	90.12	6.9	33.44	8.0	25.3	3.08
F08	24 May 2023	30	12.14	89.63	6.6	33.45	8.0	25.4	4.04
F08	24 May 2023	31	12.07	88.85	6.4	33.46	8.0	25.4	3.97
F08	24 May 2023	32	11.99	89.01	6.3	33.46	8.0	25.4	3.01
F08	24 May 2023	33	11.92	90.37	6.1	33.46	8.0	25.4	2.35
F08	24 May 2023	34	11.80	90.73	6.0	33.47	7.9	25.4	1.74
F08	24 May 2023	35	11.73	91.47	5.8	33.48	7.9	25.5	1.63
F08	24 May 2023	36	11.68	91.88	5.7	33.48	7.9	25.5	1.51
F08	24 May 2023	37	11.55	92.11	5.6	33.50	7.9	25.5	1.12
F08	24 May 2023	38	11.53	92.45	5.5	33.51	7.9	25.5	0.95
F08	24 May 2023	39	11.52	92.39	5.4	33.52	7.9	25.5	0.97
F08	24 May 2023	40	11.49	92.13	5.3	33.52	7.9	25.5	1.08
F08	24 May 2023	41	11.50	91.77	5.2	33.53	7.9	25.5	0.98
F08	24 May 2023	42	11.49	92.07	5.2	33.55	7.9	25.6	0.78
F08	24 May 2023	43	11.48	92.39	5.2	33.55	7.9	25.6	0.93
F08	24 May 2023	44	11.47	92.51	5.1	33.56	7.9	25.6	0.80
F08	24 May 2023	45	11.45	91.91	5.0	33.57	7.8	25.6	0.82
F08	24 May 2023	46	11.44	90.92	4.9	33.57	7.8	25.6	0.72

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F08	24 May 2023	47	11.44	90.65	4.9	33.57	7.8	25.6	0.74
F08	24 May 2023	48	11.44	90.60	4.9	33.57	7.8	25.6	0.85
F08	24 May 2023	49	11.43	90.44	4.9	33.57	7.8	25.6	0.68
F08	24 May 2023	50	11.42	90.29	4.9	33.57	7.8	25.6	0.76
F08	24 May 2023	51	11.42	90.21	4.8	33.58	7.8	25.6	0.68
F08	24 May 2023	52	11.40	90.14	4.8	33.58	7.8	25.6	0.76
F08	24 May 2023	53	11.39	89.93	4.8	33.58	7.8	25.6	0.75
F08	24 May 2023	54	11.36	89.30	4.7	33.59	7.8	25.6	0.66
F08	24 May 2023	55	11.27	89.06	4.6	33.60	7.8	25.6	0.65
F08	24 May 2023	56	11.18	88.25	4.5	33.61	7.8	25.7	0.67
F08	24 May 2023	57	11.18	86.44	4.5	33.62	7.8	25.7	0.63
F08	24 May 2023	58	11.18	85.90	4.5	33.62	7.8	25.7	0.64
F08	24 May 2023	59	11.17	85.99	4.5	33.62	7.8	25.7	0.68
F08	24 May 2023	60	11.16	86.02	4.5	33.62	7.8	25.7	0.61
F08	24 May 2023	61	11.13	85.90	4.5	33.63	7.8	25.7	0.53
F08	24 May 2023	62	11.12	85.90	4.4	33.63	7.8	25.7	0.60
F09	24 May 2023	1	17.41	91.09	8.3	33.49	8.2	24.3	0.39
F09	24 May 2023	2	17.41	91.11	8.3	33.49	8.2	24.3	0.41
F09	24 May 2023	3	17.38	91.14	8.3	33.49	8.2	24.3	0.47
F09	24 May 2023	4	17.17	90.89	8.4	33.48	8.2	24.3	0.57
F09	24 May 2023	5	16.72	90.40	8.6	33.47	8.2	24.4	0.66
F09	24 May 2023	6	16.48	90.23	8.6	33.46	8.2	24.5	0.77
F09	24 May 2023	7	16.41	90.02	8.5	33.47	8.2	24.5	0.84
F09	24 May 2023	8	16.38	89.88	8.5	33.47	8.2	24.5	0.98
F09	24 May 2023	9	16.37	89.64	8.5	33.47	8.2	24.5	1.17
F09	24 May 2023	10	16.34	89.51	8.4	33.48	8.2	24.5	1.20
F09	24 May 2023	11	16.25	89.44	8.3	33.48	8.2	24.5	1.26
F09	24 May 2023	12	16.08	89.29	8.3	33.47	8.2	24.6	1.31
F09	24 May 2023	13	15.08	89.55	8.7	33.46	8.2	24.8	1.29
F09	24 May 2023	14	14.74	89.93	8.8	33.43	8.2	24.8	1.33
F09	24 May 2023	15	14.42	90.11	8.9	33.42	8.2	24.9	1.33
F09	24 May 2023	16	14.32	90.20	8.9	33.42	8.2	24.9	1.39
F09	24 May 2023	17	14.30	90.22	8.9	33.42	8.2	24.9	1.49
F09	24 May 2023	18	14.18	90.28	8.9	33.41	8.2	24.9	1.50
F09	24 May 2023	19	14.08	90.20	8.8	33.41	8.1	24.9	1.48
F09	24 May 2023	20	13.95	90.20	8.8	33.42	8.1	25.0	1.57
F09	24 May 2023	21	13.65	90.26	8.7	33.42	8.1	25.0	1.66
F09	24 May 2023	22	13.28	89.98	8.4	33.42	8.1	25.1	1.75
F09	24 May 2023	23	12.96	90.14	7.9	33.43	8.1	25.2	1.69
F09	24 May 2023	24	12.86	90.24	7.7	33.43	8.1	25.2	1.79
F09	24 May 2023	25	12.66	90.41	7.7	33.43	8.1	25.2	1.79
F09	24 May 2023	26	12.49	90.39	7.5	33.42	8.0	25.3	2.22
F09	24 May 2023	27	12.39	90.39	7.3	33.43	8.0	25.3	2.11
F09	24 May 2023	28	12.41	90.21	7.1	33.43	8.0	25.3	2.55
F09	24 May 2023	29	12.13	89.69	6.7	33.45	8.0	25.4	4.03
F09	24 May 2023	30	12.09	88.61	6.5	33.46	8.0	25.4	4.72
F09	24 May 2023	31	11.95	87.95	6.2	33.47	8.0	25.4	4.22
F09	24 May 2023	32	11.80	89.36	5.9	33.47	7.9	25.4	2.21
F09	24 May 2023	33	11.63	91.03	5.8	33.48	7.9	25.5	1.44
F09	24 May 2023	34	11.64	91.98	5.7	33.48	7.9	25.5	1.34
F09	24 May 2023	35	11.54	92.07	5.6	33.48	7.9	25.5	1.01
F09	24 May 2023	36	11.45	92.20	5.5	33.51	7.9	25.5	0.90
F09	24 May 2023	37	11.46	92.46	5.4	33.51	7.9	25.5	0.81
F09	24 May 2023	38	11.45	92.54	5.3	33.52	7.9	25.5	0.81
F09	24 May 2023	39	11.46	92.58	5.3	33.53	7.9	25.5	1.05
F09	24 May 2023	40	11.47	92.62	5.3	33.53	7.9	25.6	0.79
F09	24 May 2023	41	11.47	92.50	5.2	33.54	7.9	25.6	0.78
F09	24 May 2023	42	11.46	92.46	5.2	33.55	7.9	25.6	0.77
F09	24 May 2023	43	11.45	92.51	5.1	33.56	7.9	25.6	0.72
F09	24 May 2023	44	11.43	92.49	5.0	33.57	7.9	25.6	0.73

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F09	24 May 2023	45	11.41	92.08	4.9	33.58	7.8	25.6	0.72
F09	24 May 2023	46	11.40	90.98	4.9	33.58	7.8	25.6	0.70
F09	24 May 2023	47	11.39	90.52	4.9	33.58	7.8	25.6	0.66
F09	24 May 2023	48	11.39	90.41	4.9	33.58	7.8	25.6	0.68
F09	24 May 2023	49	11.39	90.46	4.9	33.58	7.8	25.6	0.73
F09	24 May 2023	50	11.39	90.34	4.9	33.58	7.8	25.6	0.81
F09	24 May 2023	51	11.39	90.29	4.8	33.58	7.8	25.6	0.74
F09	24 May 2023	52	11.38	90.35	4.8	33.58	7.8	25.6	0.79
F09	24 May 2023	53	11.37	90.01	4.8	33.58	7.8	25.6	0.67
F09	24 May 2023	54	11.35	89.85	4.8	33.59	7.8	25.6	0.66
F09	24 May 2023	55	11.33	89.66	4.7	33.59	7.8	25.6	0.68
F09	24 May 2023	56	11.26	88.96	4.7	33.60	7.8	25.6	0.63
F09	24 May 2023	57	11.23	88.08	4.6	33.61	7.8	25.7	0.72
F09	24 May 2023	58	11.15	87.86	4.6	33.62	7.8	25.7	0.69
F09	24 May 2023	59	11.12	87.43	4.5	33.63	7.8	25.7	0.69
F09	24 May 2023	60	11.08	87.14	4.5	33.64	7.8	25.7	0.56
F09	24 May 2023	61	11.05	87.14	4.5	33.65	7.8	25.7	0.55
F09	24 May 2023	62	11.02	86.36	4.5	33.65	7.8	25.7	0.52
F09	24 May 2023	63	11.04	86.72	4.4	33.65	7.8	25.7	0.51
F10	24 May 2023	1	17.45	90.50	8.3	33.49	8.2	24.3	0.39
F10	24 May 2023	2	17.45	90.37	8.3	33.49	8.2	24.3	0.39
F10	24 May 2023	3	17.45	90.55	8.3	33.49	8.2	24.3	0.42
F10	24 May 2023	4	17.44	90.63	8.3	33.49	8.2	24.3	0.44
F10	24 May 2023	5	17.44	91.04	8.3	33.49	8.2	24.3	0.46
F10	24 May 2023	6	17.44	91.00	8.3	33.49	8.2	24.3	0.48
F10	24 May 2023	7	17.43	90.90	8.3	33.49	8.2	24.3	0.55
F10	24 May 2023	8	17.32	90.77	8.4	33.48	8.2	24.3	0.64
F10	24 May 2023	9	17.27	90.61	8.4	33.48	8.2	24.3	0.68
F10	24 May 2023	10	17.16	90.69	8.5	33.47	8.2	24.3	0.67
F10	24 May 2023	11	16.97	90.79	8.5	33.46	8.2	24.3	0.61
F10	24 May 2023	12	16.75	90.79	8.5	33.46	8.2	24.4	0.64
F10	24 May 2023	13	16.19	90.67	8.7	33.46	8.2	24.5	0.75
F10	24 May 2023	14	15.77	90.23	8.8	33.45	8.2	24.6	0.96
F10	24 May 2023	15	15.58	90.03	8.8	33.44	8.2	24.6	1.15
F10	24 May 2023	16	15.48	89.87	8.6	33.45	8.2	24.7	1.30
F10	24 May 2023	17	15.43	89.72	8.4	33.45	8.2	24.7	1.44
F10	24 May 2023	18	15.35	89.54	8.1	33.46	8.1	24.7	1.53
F10	24 May 2023	19	14.74	89.48	8.3	33.47	8.1	24.8	1.36
F10	24 May 2023	20	14.51	90.11	8.5	33.44	8.1	24.9	1.43
F10	24 May 2023	21	14.23	90.44	8.7	33.43	8.1	24.9	1.46
F10	24 May 2023	22	14.16	90.44	8.8	33.42	8.1	24.9	1.47
F10	24 May 2023	23	14.12	90.42	8.8	33.41	8.1	24.9	1.51
F10	24 May 2023	24	14.09	90.46	8.8	33.41	8.1	24.9	1.53
F10	24 May 2023	25	13.77	90.52	8.7	33.42	8.1	25.0	1.52
F10	24 May 2023	26	13.42	90.47	8.5	33.41	8.1	25.1	1.81
F10	24 May 2023	27	12.98	90.19	8.0	33.42	8.1	25.2	1.79
F10	24 May 2023	28	12.72	90.34	7.5	33.44	8.1	25.2	1.87
F10	24 May 2023	29	12.45	90.50	7.0	33.44	8.0	25.3	1.84
F10	24 May 2023	30	12.20	90.77	6.7	33.44	8.0	25.3	2.32
F10	24 May 2023	31	12.08	90.80	6.4	33.45	8.0	25.4	3.12
F10	24 May 2023	32	11.94	89.95	6.2	33.46	8.0	25.4	3.28
F10	24 May 2023	33	11.89	89.55	6.0	33.47	7.9	25.4	3.10
F10	24 May 2023	34	11.87	90.02	6.0	33.47	7.9	25.4	3.08
F10	24 May 2023	35	11.78	90.05	5.9	33.48	7.9	25.4	2.50
F10	24 May 2023	36	11.68	90.32	5.8	33.48	7.9	25.5	2.52
F10	24 May 2023	37	11.66	91.24	5.7	33.48	7.9	25.5	1.74
F10	24 May 2023	38	11.54	91.74	5.7	33.49	7.9	25.5	1.28
F10	24 May 2023	39	11.49	92.34	5.6	33.49	7.9	25.5	1.12
F10	24 May 2023	40	11.45	92.51	5.6	33.49	7.9	25.5	1.00
F10	24 May 2023	41	11.41	92.49	5.5	33.51	7.9	25.5	0.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F10	24 May 2023	42	11.36	92.44	5.3	33.53	7.9	25.6	0.95
F10	24 May 2023	43	11.36	92.11	5.2	33.54	7.9	25.6	0.73
F10	24 May 2023	44	11.36	91.86	5.1	33.55	7.9	25.6	0.75
F10	24 May 2023	45	11.36	91.77	5.1	33.56	7.9	25.6	0.81
F10	24 May 2023	46	11.38	91.33	5.0	33.56	7.9	25.6	0.68
F10	24 May 2023	47	11.38	91.40	5.0	33.57	7.8	25.6	0.77
F10	24 May 2023	48	11.38	91.22	5.0	33.57	7.8	25.6	0.77
F10	24 May 2023	49	11.38	91.15	4.9	33.58	7.8	25.6	0.65
F10	24 May 2023	50	11.38	90.84	4.9	33.58	7.8	25.6	0.69
F10	24 May 2023	51	11.37	90.78	4.9	33.58	7.8	25.6	0.65
F10	24 May 2023	52	11.37	90.68	4.9	33.58	7.8	25.6	0.67
F10	24 May 2023	53	11.36	90.59	4.8	33.58	7.8	25.6	0.69
F10	24 May 2023	54	11.35	90.45	4.8	33.58	7.8	25.6	0.74
F10	24 May 2023	55	11.35	90.40	4.8	33.59	7.8	25.6	0.73
F10	24 May 2023	56	11.33	90.37	4.8	33.59	7.8	25.6	0.69
F10	24 May 2023	57	11.31	90.21	4.8	33.59	7.8	25.6	0.68
F10	24 May 2023	58	11.24	89.64	4.7	33.61	7.8	25.7	0.60
F10	24 May 2023	59	11.19	88.80	4.6	33.62	7.8	25.7	0.60
F10	24 May 2023	60	11.15	87.25	4.6	33.62	7.8	25.7	0.65
F10	24 May 2023	61	11.15	86.70	4.6	33.62	7.8	25.7	0.59
F10	24 May 2023	62	11.15	86.64	4.6	33.62	7.8	25.7	0.62
F11	24 May 2023	1	17.46	91.22	8.3	33.49	8.2	24.2	0.35
F11	24 May 2023	2	17.46	91.10	8.3	33.49	8.2	24.2	0.39
F11	24 May 2023	3	17.46	91.12	8.3	33.49	8.2	24.2	0.41
F11	24 May 2023	4	17.46	91.19	8.3	33.49	8.2	24.2	0.43
F11	24 May 2023	5	17.46	91.17	8.3	33.49	8.2	24.2	0.43
F11	24 May 2023	6	17.44	91.14	8.3	33.49	8.2	24.3	0.46
F11	24 May 2023	7	17.29	91.07	8.4	33.48	8.2	24.3	0.50
F11	24 May 2023	8	17.22	90.95	8.5	33.48	8.2	24.3	0.53
F11	24 May 2023	9	16.95	91.00	8.6	33.47	8.2	24.4	0.58
F11	24 May 2023	10	16.66	90.95	8.6	33.46	8.2	24.4	0.67
F11	24 May 2023	11	16.22	90.28	8.6	33.47	8.2	24.5	0.91
F11	24 May 2023	12	15.89	89.66	8.8	33.45	8.2	24.6	1.02
F11	24 May 2023	13	15.64	89.84	8.9	33.44	8.2	24.6	1.09
F11	24 May 2023	14	15.44	89.94	8.9	33.43	8.2	24.7	1.18
F11	24 May 2023	15	15.39	89.88	8.7	33.44	8.2	24.7	1.26
F11	24 May 2023	16	15.38	89.81	8.4	33.46	8.2	24.7	1.34
F11	24 May 2023	17	14.92	89.77	8.5	33.45	8.1	24.8	1.49
F11	24 May 2023	18	14.32	90.10	8.9	33.42	8.1	24.9	1.45
F11	24 May 2023	19	14.29	90.22	9.0	33.41	8.2	24.9	1.48
F11	24 May 2023	20	14.20	90.33	8.9	33.41	8.1	24.9	1.52
F11	24 May 2023	21	14.05	90.35	8.9	33.40	8.1	24.9	1.60
F11	24 May 2023	22	13.71	90.37	9.0	33.40	8.1	25.0	1.70
F11	24 May 2023	23	13.56	89.99	8.9	33.39	8.1	25.0	1.78
F11	24 May 2023	24	13.51	90.14	8.8	33.40	8.1	25.1	1.75
F11	24 May 2023	25	13.46	90.34	8.7	33.40	8.1	25.1	1.73
F11	24 May 2023	26	13.43	90.47	8.5	33.41	8.1	25.1	1.65
F11	24 May 2023	27	13.32	90.46	8.2	33.42	8.1	25.1	1.59
F11	24 May 2023	28	13.13	90.68	8.0	33.43	8.1	25.1	1.58
F11	24 May 2023	29	12.93	90.62	7.9	33.43	8.1	25.2	1.79
F11	24 May 2023	30	12.73	90.42	7.8	33.42	8.1	25.2	1.89
F11	24 May 2023	31	12.69	89.93	7.7	33.43	8.1	25.2	1.85
F11	24 May 2023	32	12.49	90.58	7.4	33.43	8.0	25.3	1.83
F11	24 May 2023	33	12.29	90.60	7.0	33.44	8.0	25.3	1.66
F11	24 May 2023	34	12.17	90.73	6.6	33.45	8.0	25.4	2.06
F11	24 May 2023	35	11.98	90.83	6.3	33.47	8.0	25.4	2.45
F11	24 May 2023	36	11.93	90.22	6.1	33.47	7.9	25.4	3.28
F11	24 May 2023	37	11.91	89.83	6.0	33.47	7.9	25.4	3.38
F11	24 May 2023	38	11.88	89.63	6.0	33.48	7.9	25.4	3.55
F11	24 May 2023	39	11.82	89.46	5.9	33.48	7.9	25.4	2.95

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F11	24 May 2023	40	11.70	89.65	5.7	33.49	7.9	25.5	2.19
F11	24 May 2023	41	11.62	90.79	5.6	33.50	7.9	25.5	1.99
F11	24 May 2023	42	11.49	91.30	5.5	33.51	7.9	25.5	1.36
F11	24 May 2023	43	11.43	92.23	5.5	33.51	7.9	25.5	1.04
F11	24 May 2023	44	11.32	92.69	5.4	33.52	7.9	25.6	0.79
F11	24 May 2023	45	11.30	92.84	5.3	33.53	7.9	25.6	0.76
F11	24 May 2023	46	11.29	92.90	5.2	33.54	7.9	25.6	0.70
F11	24 May 2023	47	11.30	92.87	5.1	33.56	7.9	25.6	0.70
F11	24 May 2023	48	11.30	92.51	5.0	33.56	7.8	25.6	0.69
F11	24 May 2023	49	11.31	91.96	5.0	33.57	7.8	25.6	0.65
F11	24 May 2023	50	11.30	91.50	5.0	33.57	7.8	25.6	0.71
F11	24 May 2023	51	11.30	91.27	5.0	33.57	7.8	25.6	0.79
F11	24 May 2023	52	11.31	91.35	5.0	33.57	7.8	25.6	0.65
F11	24 May 2023	53	11.31	91.41	5.0	33.57	7.8	25.6	0.66
F11	24 May 2023	54	11.33	91.26	5.0	33.58	7.8	25.6	0.72
F11	24 May 2023	55	11.32	90.89	5.0	33.57	7.8	25.6	0.73
F11	24 May 2023	56	11.31	91.05	5.0	33.57	7.8	25.6	0.70
F11	24 May 2023	57	11.32	91.20	4.9	33.58	7.8	25.6	0.68
F11	24 May 2023	58	11.33	91.11	4.9	33.58	7.8	25.6	0.67
F11	24 May 2023	59	11.33	90.84	4.9	33.58	7.8	25.6	0.72
F11	24 May 2023	60	11.33	90.58	4.9	33.58	7.8	25.6	0.64
F11	24 May 2023	61	11.33	90.35	4.9	33.58	7.8	25.6	0.67
F12	24 May 2023	1	17.45	90.83	8.4	33.49	8.2	24.2	0.43
F12	24 May 2023	2	17.44	90.80	8.4	33.48	8.2	24.2	0.45
F12	24 May 2023	3	17.44	91.02	8.4	33.48	8.2	24.2	0.46
F12	24 May 2023	4	17.44	90.95	8.4	33.48	8.2	24.2	0.51
F12	24 May 2023	5	17.44	90.90	8.4	33.48	8.2	24.2	0.50
F12	24 May 2023	6	17.43	90.89	8.4	33.48	8.2	24.2	0.52
F12	24 May 2023	7	17.43	90.89	8.4	33.48	8.2	24.2	0.53
F12	24 May 2023	8	17.39	90.95	8.4	33.48	8.2	24.3	0.56
F12	24 May 2023	9	17.35	90.94	8.4	33.48	8.2	24.3	0.56
F12	24 May 2023	10	17.19	90.90	8.5	33.47	8.2	24.3	0.57
F12	24 May 2023	11	17.01	90.96	8.6	33.47	8.2	24.3	0.64
F12	24 May 2023	12	16.30	90.93	9.0	33.45	8.2	24.5	0.77
F12	24 May 2023	13	15.91	90.19	9.2	33.42	8.2	24.6	0.95
F12	24 May 2023	14	15.46	89.87	9.1	33.42	8.2	24.7	1.06
F12	24 May 2023	15	15.20	89.81	9.2	33.41	8.2	24.7	1.21
F12	24 May 2023	16	15.18	89.86	9.1	33.41	8.2	24.7	1.27
F12	24 May 2023	17	14.87	89.96	9.1	33.41	8.2	24.8	1.44
F12	24 May 2023	18	14.62	90.01	9.1	33.40	8.2	24.8	1.49
F12	24 May 2023	19	14.27	89.87	9.2	33.39	8.2	24.9	1.64
F12	24 May 2023	20	14.17	90.00	9.2	33.39	8.2	24.9	1.64
F12	24 May 2023	21	14.09	90.30	9.2	33.39	8.2	24.9	1.63
F12	24 May 2023	22	13.98	90.39	9.1	33.39	8.2	24.9	1.66
F12	24 May 2023	23	13.58	90.20	9.0	33.39	8.1	25.0	1.87
F12	24 May 2023	24	13.44	89.78	8.8	33.39	8.1	25.1	2.02
F12	24 May 2023	25	13.09	89.78	8.5	33.40	8.1	25.1	1.97
F12	24 May 2023	26	13.01	89.93	8.4	33.41	8.1	25.2	1.96
F12	24 May 2023	27	12.97	90.21	8.3	33.41	8.1	25.2	2.06
F12	24 May 2023	28	12.94	90.37	8.2	33.41	8.1	25.2	1.85
F12	24 May 2023	29	12.94	90.46	8.2	33.41	8.1	25.2	1.70
F12	24 May 2023	30	12.93	90.52	8.2	33.41	8.1	25.2	1.73
F12	24 May 2023	31	12.90	89.98	8.1	33.42	8.1	25.2	1.65
F12	24 May 2023	32	12.89	90.54	8.0	33.42	8.1	25.2	1.85
F12	24 May 2023	33	12.83	90.67	7.8	33.43	8.1	25.2	1.92
F12	24 May 2023	34	12.59	90.76	7.5	33.44	8.0	25.3	1.74
F12	24 May 2023	35	12.40	90.82	7.1	33.44	8.0	25.3	1.79
F12	24 May 2023	36	12.27	90.84	7.0	33.44	8.0	25.3	1.79
F12	24 May 2023	37	12.21	90.85	6.9	33.44	8.0	25.3	1.97
F12	24 May 2023	38	12.13	90.82	6.8	33.45	8.0	25.4	1.87

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
F12	24 May 2023	39	12.13	90.69	6.7	33.45	8.0	25.4	1.84
F12	24 May 2023	40	11.97	90.73	6.2	33.47	8.0	25.4	1.58
F12	24 May 2023	41	11.86	91.24	5.9	33.48	7.9	25.4	1.63
F12	24 May 2023	42	11.70	91.38	5.7	33.49	7.9	25.5	1.75
F12	24 May 2023	43	11.60	91.59	5.6	33.50	7.9	25.5	1.27
F12	24 May 2023	44	11.51	91.99	5.5	33.51	7.9	25.5	1.22
F12	24 May 2023	45	11.48	92.44	5.4	33.52	7.9	25.5	0.99
F12	24 May 2023	46	11.44	92.82	5.4	33.52	7.9	25.5	0.91
F12	24 May 2023	47	11.36	92.92	5.4	33.52	7.9	25.6	1.02
F12	24 May 2023	48	11.25	93.04	5.4	33.53	7.9	25.6	0.69
F12	24 May 2023	49	11.25	93.17	5.2	33.55	7.9	25.6	0.64
F12	24 May 2023	50	11.29	92.83	5.0	33.57	7.8	25.6	0.63
F12	24 May 2023	51	11.30	92.26	4.9	33.58	7.8	25.6	0.68
F12	24 May 2023	52	11.30	91.85	4.9	33.58	7.8	25.6	0.64
F12	24 May 2023	53	11.30	91.06	4.9	33.58	7.8	25.6	0.68
F12	24 May 2023	54	11.30	91.54	4.9	33.58	7.8	25.6	0.72
F12	24 May 2023	55	11.30	91.37	4.9	33.58	7.8	25.6	0.63
F12	24 May 2023	56	11.31	91.36	4.9	33.58	7.8	25.6	0.61
F12	24 May 2023	57	11.31	91.41	4.9	33.58	7.8	25.6	0.77
F12	24 May 2023	58	11.31	91.30	4.9	33.58	7.8	25.6	0.65
F12	24 May 2023	59	11.31	91.04	4.9	33.58	7.8	25.6	0.64
F12	24 May 2023	60	11.31	90.97	4.9	33.58	7.8	25.6	0.73
F12	24 May 2023	61	11.30	90.72	4.8	33.59	7.8	25.6	0.66
F12	24 May 2023	62	11.29	89.97	4.8	33.59	7.8	25.6	0.64
F13	24 May 2023	1	17.44	90.98	8.4	33.48	8.2	24.2	0.37
F13	24 May 2023	2	17.43	91.17	8.4	33.48	8.2	24.2	0.39
F13	24 May 2023	3	17.43	91.19	8.3	33.48	8.2	24.2	0.44
F13	24 May 2023	4	17.43	91.14	8.4	33.48	8.2	24.2	0.44
F13	24 May 2023	5	17.41	91.11	8.4	33.48	8.2	24.3	0.49
F13	24 May 2023	6	17.40	91.06	8.4	33.48	8.2	24.3	0.49
F13	24 May 2023	7	17.37	91.04	8.4	33.48	8.2	24.3	0.56
F13	24 May 2023	8	17.33	90.91	8.4	33.48	8.2	24.3	0.54
F13	24 May 2023	9	17.27	90.91	8.5	33.47	8.2	24.3	0.55
F13	24 May 2023	10	17.22	90.90	8.5	33.47	8.2	24.3	0.57
F13	24 May 2023	11	17.13	90.82	8.6	33.46	8.2	24.3	0.60
F13	24 May 2023	12	17.06	90.84	8.7	33.46	8.2	24.3	0.62
F13	24 May 2023	13	16.97	90.86	8.7	33.46	8.2	24.3	0.64
F13	24 May 2023	14	16.68	90.87	8.7	33.45	8.2	24.4	0.71
F13	24 May 2023	15	15.98	90.82	9.1	33.43	8.2	24.5	0.89
F13	24 May 2023	16	15.42	90.29	9.3	33.42	8.2	24.7	1.08
F13	24 May 2023	17	15.23	89.79	9.3	33.41	8.2	24.7	1.25
F13	24 May 2023	18	15.10	89.71	9.3	33.40	8.2	24.7	1.33
F13	24 May 2023	19	15.00	89.71	9.3	33.40	8.2	24.7	1.38
F13	24 May 2023	20	14.92	89.71	9.3	33.40	8.2	24.8	1.44
F13	24 May 2023	21	14.67	89.73	9.2	33.38	8.2	24.8	1.48
F13	24 May 2023	22	14.24	89.94	9.2	33.39	8.2	24.9	1.54
F13	24 May 2023	23	14.17	90.14	9.2	33.39	8.2	24.9	1.56
F13	24 May 2023	24	13.84	90.33	9.1	33.39	8.2	25.0	1.66
F13	24 May 2023	25	13.57	90.31	9.0	33.39	8.1	25.0	1.85
F13	24 May 2023	26	13.39	89.96	8.9	33.39	8.1	25.1	2.36
F13	24 May 2023	27	13.30	89.61	8.8	33.40	8.1	25.1	2.10
F13	24 May 2023	28	13.21	89.45	8.7	33.40	8.1	25.1	2.26
F13	24 May 2023	29	13.12	89.40	8.6	33.40	8.1	25.1	2.26
F13	24 May 2023	30	12.95	89.50	8.4	33.40	8.1	25.2	2.10
F13	24 May 2023	31	12.85	89.70	8.3	33.41	8.1	25.2	2.10
F13	24 May 2023	32	12.72	89.77	8.1	33.41	8.1	25.2	1.90
F13	24 May 2023	33	12.60	90.11	7.9	33.42	8.1	25.2	1.97
F13	24 May 2023	34	12.55	90.25	7.8	33.42	8.0	25.3	2.15
F13	24 May 2023	35	12.54	90.25	7.7	33.42	8.0	25.3	1.95
F13	24 May 2023	36	12.49	90.27	7.6	33.42	8.0	25.3	1.88

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F13	24 May 2023	37	12.46	90.26	7.5	33.43	8.0	25.3	1.94
F13	24 May 2023	38	12.42	90.33	7.4	33.43	8.0	25.3	1.91
F13	24 May 2023	39	12.38	90.32	7.3	33.43	8.0	25.3	1.91
F13	24 May 2023	40	12.37	90.52	7.2	33.44	8.0	25.3	1.80
F13	24 May 2023	41	12.36	90.63	7.1	33.44	8.0	25.3	1.85
F13	24 May 2023	42	12.32	90.56	7.0	33.44	8.0	25.3	2.09
F13	24 May 2023	43	12.27	90.69	6.8	33.45	8.0	25.3	1.74
F13	24 May 2023	44	12.07	90.78	6.4	33.46	8.0	25.4	1.57
F13	24 May 2023	45	11.91	90.93	6.0	33.47	7.9	25.4	1.70
F13	24 May 2023	46	11.77	91.19	5.7	33.49	7.9	25.5	1.35
F13	24 May 2023	47	11.62	91.50	5.5	33.51	7.9	25.5	1.19
F13	24 May 2023	48	11.49	91.99	5.3	33.53	7.9	25.5	1.17
F13	24 May 2023	49	11.43	92.49	5.2	33.55	7.9	25.6	1.03
F13	24 May 2023	50	11.37	92.76	5.2	33.55	7.9	25.6	0.79
F13	24 May 2023	51	11.36	92.77	5.1	33.56	7.8	25.6	0.77
F13	24 May 2023	52	11.36	92.18	5.0	33.57	7.8	25.6	0.73
F13	24 May 2023	53	11.37	91.86	5.0	33.57	7.8	25.6	0.74
F13	24 May 2023	54	11.38	91.72	4.9	33.57	7.8	25.6	0.78
F13	24 May 2023	55	11.38	91.60	4.9	33.58	7.8	25.6	0.77
F13	24 May 2023	56	11.37	91.32	4.9	33.58	7.8	25.6	0.75
F13	24 May 2023	57	11.35	91.19	4.9	33.58	7.8	25.6	0.72
F13	24 May 2023	58	11.32	90.92	4.8	33.59	7.8	25.6	0.74
F13	24 May 2023	59	11.28	90.56	4.8	33.60	7.8	25.6	0.62
F13	24 May 2023	60	11.17	90.18	4.7	33.62	7.8	25.7	0.69
F13	24 May 2023	61	11.11	89.14	4.6	33.63	7.8	25.7	0.59
F14	24 May 2023	1	17.34	91.20	8.3	33.48	8.2	24.3	0.43
F14	24 May 2023	2	17.34	91.14	8.4	33.48	8.2	24.3	0.46
F14	24 May 2023	3	17.34	91.18	8.3	33.48	8.2	24.3	0.47
F14	24 May 2023	4	17.34	91.24	8.3	33.48	8.2	24.3	0.50
F14	24 May 2023	5	17.33	91.15	8.4	33.48	8.2	24.3	0.51
F14	24 May 2023	6	17.31	91.08	8.4	33.48	8.2	24.3	0.55
F14	24 May 2023	7	17.30	91.03	8.4	33.48	8.2	24.3	0.59
F14	24 May 2023	8	17.28	90.94	8.4	33.48	8.2	24.3	0.57
F14	24 May 2023	9	17.22	90.98	8.5	33.47	8.2	24.3	0.59
F14	24 May 2023	10	17.15	90.95	8.5	33.47	8.2	24.3	0.60
F14	24 May 2023	11	17.08	90.99	8.6	33.46	8.2	24.3	0.61
F14	24 May 2023	12	16.92	90.92	8.7	33.46	8.2	24.3	0.64
F14	24 May 2023	13	16.92	90.84	8.7	33.45	8.2	24.3	0.66
F14	24 May 2023	14	16.73	90.89	8.8	33.45	8.2	24.4	0.71
F14	24 May 2023	15	16.37	90.82	8.8	33.45	8.2	24.5	0.87
F14	24 May 2023	16	15.71	90.53	9.0	33.44	8.2	24.6	1.10
F14	24 May 2023	17	14.97	90.10	9.2	33.42	8.2	24.8	1.33
F14	24 May 2023	18	14.75	89.74	9.2	33.41	8.2	24.8	1.47
F14	24 May 2023	19	14.63	89.95	9.2	33.40	8.2	24.8	1.54
F14	24 May 2023	20	14.22	90.04	9.2	33.40	8.2	24.9	1.52
F14	24 May 2023	21	14.07	90.15	9.2	33.40	8.1	24.9	1.64
F14	24 May 2023	22	13.97	90.14	9.1	33.40	8.1	25.0	1.75
F14	24 May 2023	23	13.60	90.07	8.9	33.40	8.1	25.0	1.95
F14	24 May 2023	24	13.33	89.80	8.8	33.40	8.1	25.1	1.96
F14	24 May 2023	25	13.19	89.68	8.6	33.40	8.1	25.1	2.01
F14	24 May 2023	26	13.10	89.60	8.5	33.41	8.1	25.1	2.00
F14	24 May 2023	27	13.03	89.82	8.3	33.41	8.1	25.2	2.00
F14	24 May 2023	28	12.91	89.89	8.2	33.41	8.1	25.2	1.94
F14	24 May 2023	29	12.83	90.10	8.1	33.42	8.1	25.2	1.88
F14	24 May 2023	30	12.75	90.42	8.0	33.42	8.1	25.2	1.92
F14	24 May 2023	31	12.71	90.43	7.8	33.42	8.1	25.2	1.94
F14	24 May 2023	32	12.69	90.48	7.8	33.42	8.0	25.2	1.91
F14	24 May 2023	33	12.65	90.48	7.8	33.42	8.0	25.2	1.81
F14	24 May 2023	34	12.60	90.43	7.7	33.43	8.0	25.3	1.74
F14	24 May 2023	35	12.58	90.42	7.7	33.43	8.0	25.3	1.78

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F14	24 May 2023	36	12.56	90.63	7.7	33.43	8.0	25.3	1.77
F14	24 May 2023	37	12.56	90.49	7.6	33.43	8.0	25.3	1.83
F14	24 May 2023	38	12.55	90.50	7.5	33.43	8.0	25.3	1.78
F14	24 May 2023	39	12.51	90.35	7.4	33.43	8.0	25.3	1.83
F14	24 May 2023	40	12.48	90.46	7.4	33.44	8.0	25.3	1.94
F14	24 May 2023	41	12.43	90.47	7.3	33.44	8.0	25.3	1.86
F14	24 May 2023	42	12.40	90.55	7.2	33.44	8.0	25.3	1.90
F14	24 May 2023	43	12.33	90.50	7.0	33.45	8.0	25.3	2.03
F14	24 May 2023	44	12.27	90.52	6.9	33.45	8.0	25.3	1.93
F14	24 May 2023	45	12.18	90.73	6.6	33.46	8.0	25.4	1.91
F14	24 May 2023	46	12.03	90.67	6.3	33.47	8.0	25.4	1.69
F14	24 May 2023	47	11.87	90.85	6.0	33.47	7.9	25.4	1.73
F14	24 May 2023	48	11.81	91.01	5.8	33.48	7.9	25.4	1.64
F14	24 May 2023	49	11.72	91.30	5.6	33.49	7.9	25.5	1.64
F14	24 May 2023	50	11.63	91.58	5.5	33.52	7.9	25.5	1.37
F14	24 May 2023	51	11.59	91.68	5.3	33.53	7.9	25.5	1.10
F14	24 May 2023	52	11.54	92.18	5.2	33.54	7.9	25.5	0.90
F14	24 May 2023	53	11.53	92.19	5.1	33.55	7.8	25.6	0.94
F14	24 May 2023	54	11.52	91.72	5.1	33.55	7.8	25.6	0.80
F14	24 May 2023	55	11.49	91.40	5.0	33.56	7.8	25.6	0.89
F14	24 May 2023	56	11.43	91.31	5.0	33.57	7.8	25.6	0.74
F14	24 May 2023	57	11.38	91.31	4.9	33.58	7.8	25.6	0.62
F14	24 May 2023	58	11.31	91.00	4.8	33.59	7.8	25.6	0.73
F14	24 May 2023	59	11.21	90.46	4.7	33.61	7.8	25.7	0.61
F14	24 May 2023	60	11.16	89.00	4.6	33.62	7.8	25.7	0.56
F15	25 May 2023	1	17.08	91.08	8.0	33.34	8.1	24.2	0.16
F15	25 May 2023	2	16.96	91.45	8.1	33.36	8.1	24.3	0.16
F15	25 May 2023	3	16.83	92.02	8.1	33.36	8.1	24.3	0.17
F15	25 May 2023	4	16.81	92.41	8.1	33.36	8.1	24.3	0.17
F15	25 May 2023	5	16.79	92.32	8.1	33.36	8.1	24.3	0.17
F15	25 May 2023	6	16.79	92.31	8.1	33.36	8.2	24.3	0.17
F15	25 May 2023	7	16.65	92.26	8.0	33.34	8.1	24.3	0.18
F15	25 May 2023	8	16.36	92.26	8.1	33.31	8.1	24.4	0.18
F15	25 May 2023	9	16.13	92.34	8.2	33.31	8.1	24.4	0.19
F15	25 May 2023	10	16.02	92.34	8.2	33.31	8.1	24.4	0.21
F15	25 May 2023	11	15.71	92.20	8.3	33.33	8.2	24.5	0.23
F15	25 May 2023	12	14.83	91.86	8.6	33.32	8.1	24.7	0.34
F15	25 May 2023	13	14.62	90.93	8.6	33.30	8.1	24.7	0.49
F15	25 May 2023	14	14.50	89.77	8.6	33.30	8.1	24.8	0.63
F15	25 May 2023	15	14.46	89.34	8.6	33.29	8.1	24.8	0.72
F15	25 May 2023	16	14.33	89.32	8.6	33.30	8.1	24.8	0.84
F15	25 May 2023	17	14.20	89.12	8.8	33.32	8.1	24.8	0.96
F15	25 May 2023	18	14.18	88.91	8.9	33.33	8.1	24.9	1.07
F15	25 May 2023	19	14.11	88.93	8.9	33.34	8.2	24.9	1.21
F15	25 May 2023	20	14.01	88.95	8.8	33.34	8.1	24.9	1.36
F15	25 May 2023	21	13.84	89.07	8.8	33.36	8.1	24.9	1.45
F15	25 May 2023	22	13.54	88.99	8.7	33.35	8.1	25.0	1.51
F15	25 May 2023	23	13.18	89.17	8.3	33.33	8.1	25.1	1.58
F15	25 May 2023	24	12.98	89.79	8.1	33.33	8.1	25.1	1.64
F15	25 May 2023	25	12.88	90.04	7.8	33.32	8.1	25.1	1.71
F15	25 May 2023	26	12.82	90.27	7.6	33.31	8.1	25.1	1.79
F15	25 May 2023	27	12.71	90.33	7.4	33.31	8.1	25.1	1.81
F15	25 May 2023	28	12.59	90.31	7.2	33.32	8.0	25.2	1.90
F15	25 May 2023	29	12.44	90.59	7.0	33.32	8.0	25.2	1.99
F15	25 May 2023	30	12.24	90.95	6.8	33.33	8.0	25.2	1.72
F15	25 May 2023	31	12.06	91.45	6.7	33.34	8.0	25.3	1.44
F15	25 May 2023	32	11.88	91.83	6.6	33.34	8.0	25.3	1.20
F15	25 May 2023	33	11.71	92.49	6.5	33.35	8.0	25.4	0.98
F15	25 May 2023	34	11.59	92.87	6.5	33.35	8.0	25.4	0.89
F15	25 May 2023	35	11.51	93.14	6.5	33.34	8.0	25.4	0.85

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F15	25 May 2023	36	11.46	93.20	6.5	33.34	8.0	25.4	0.81
F15	25 May 2023	37	11.42	93.15	6.5	33.34	8.0	25.4	0.79
F15	25 May 2023	38	11.40	93.19	6.5	33.34	8.0	25.4	0.83
F15	25 May 2023	39	11.36	93.31	6.5	33.34	8.0	25.4	0.78
F15	25 May 2023	40	11.33	93.30	6.4	33.34	8.0	25.4	0.78
F15	25 May 2023	41	11.30	93.27	6.4	33.34	8.0	25.4	0.78
F15	25 May 2023	42	11.16	93.31	6.3	33.36	7.9	25.5	0.75
F15	25 May 2023	43	11.15	93.30	6.1	33.40	7.9	25.5	0.83
F15	25 May 2023	44	11.06	93.31	5.9	33.42	7.9	25.5	0.73
F15	25 May 2023	45	11.00	93.40	5.8	33.46	7.9	25.6	0.65
F15	25 May 2023	46	11.02	93.42	5.6	33.48	7.9	25.6	0.62
F15	25 May 2023	47	11.05	93.33	5.5	33.49	7.9	25.6	0.59
F15	25 May 2023	48	11.08	92.93	5.5	33.50	7.9	25.6	0.61
F15	25 May 2023	49	11.09	93.30	5.4	33.51	7.9	25.6	0.67
F15	25 May 2023	50	11.14	93.22	5.3	33.52	7.9	25.6	0.74
F15	25 May 2023	51	11.26	93.20	5.1	33.56	7.8	25.6	0.71
F15	25 May 2023	52	11.25	92.86	5.1	33.57	7.8	25.6	0.76
F15	25 May 2023	53	11.31	92.77	4.9	33.59	7.8	25.6	0.74
F15	25 May 2023	54	11.31	92.44	4.8	33.60	7.8	25.6	0.75
F15	25 May 2023	55	11.29	91.98	4.7	33.61	7.8	25.6	0.69
F15	25 May 2023	56	11.24	91.81	4.7	33.62	7.8	25.7	0.63
F15	25 May 2023	57	11.19	92.16	4.7	33.62	7.8	25.7	0.58
F15	25 May 2023	58	11.14	92.32	4.7	33.63	7.8	25.7	0.60
F15	25 May 2023	59	11.12	92.52	4.7	33.63	7.8	25.7	0.54
F15	25 May 2023	60	11.12	92.53	4.6	33.63	7.8	25.7	0.53
F15	25 May 2023	61	11.12	92.53	4.6	33.63	7.8	25.7	0.55
F15	25 May 2023	62	11.11	92.54	4.6	33.63	7.8	25.7	0.61
F15	25 May 2023	63	11.10	92.45	4.6	33.64	7.8	25.7	0.58
F15	25 May 2023	64	11.09	92.51	4.6	33.64	7.8	25.7	0.62
F15	25 May 2023	65	11.06	92.60	4.6	33.65	7.8	25.7	0.51
F15	25 May 2023	66	11.04	92.57	4.5	33.65	7.8	25.7	0.48
F15	25 May 2023	67	11.02	92.50	4.5	33.65	7.8	25.7	0.49
F15	25 May 2023	68	10.98	92.47	4.4	33.66	7.8	25.7	0.49
F15	25 May 2023	69	10.96	92.30	4.4	33.67	7.8	25.7	0.53
F15	25 May 2023	70	10.85	92.08	4.3	33.69	7.8	25.8	0.45
F15	25 May 2023	71	10.76	92.06	4.3	33.70	7.8	25.8	0.40
F15	25 May 2023	72	10.72	92.28	4.2	33.71	7.8	25.8	0.37
F15	25 May 2023	73	10.68	92.21	4.2	33.73	7.8	25.8	0.37
F15	25 May 2023	74	10.65	91.50	4.1	33.74	7.8	25.9	0.38
F15	25 May 2023	75	10.63	90.76	4.0	33.74	7.8	25.9	0.33
F15	25 May 2023	76	10.62	90.49	4.0	33.74	7.8	25.9	0.35
F15	25 May 2023	77	10.62	90.15	4.0	33.75	7.8	25.9	0.33
F15	25 May 2023	78	10.63	90.03	4.0	33.74	7.8	25.9	0.33
F15	25 May 2023	79	10.62	89.89	4.0	33.75	7.8	25.9	0.36
F15	25 May 2023	80	10.62	89.66	4.0	33.75	7.8	25.9	0.32
F15	25 May 2023	81	10.62	89.62	4.0	33.75	7.8	25.9	0.35
F15	25 May 2023	82	10.63	89.32	4.0	33.75	7.7	25.9	0.35
F16	25 May 2023	1	16.89	92.55	8.0	33.34	8.1	24.3	0.17
F16	25 May 2023	2	16.80	92.68	8.0	33.34	8.1	24.3	0.17
F16	25 May 2023	3	16.74	92.56	8.0	33.34	8.1	24.3	0.18
F16	25 May 2023	4	16.73	92.51	8.0	33.34	8.1	24.3	0.19
F16	25 May 2023	5	16.72	92.51	8.1	33.34	8.1	24.3	0.19
F16	25 May 2023	6	16.72	92.45	8.0	33.34	8.1	24.3	0.21
F16	25 May 2023	7	16.56	92.39	8.0	33.33	8.1	24.3	0.21
F16	25 May 2023	8	16.28	92.34	8.2	33.31	8.1	24.4	0.22
F16	25 May 2023	9	16.13	92.36	8.2	33.31	8.1	24.4	0.24
F16	25 May 2023	10	16.05	92.30	8.3	33.31	8.1	24.4	0.24
F16	25 May 2023	11	15.89	92.16	8.2	33.32	8.1	24.5	0.24
F16	25 May 2023	12	15.22	92.03	8.4	33.33	8.2	24.6	0.29
F16	25 May 2023	13	14.61	91.57	8.6	33.31	8.1	24.8	0.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F16	25 May 2023	14	14.42	90.67	8.6	33.29	8.1	24.8	0.66
F16	25 May 2023	15	14.35	89.69	8.5	33.29	8.1	24.8	0.82
F16	25 May 2023	16	14.10	89.49	8.6	33.30	8.1	24.9	0.97
F16	25 May 2023	17	14.09	89.23	8.6	33.30	8.1	24.9	1.12
F16	25 May 2023	18	14.09	88.98	8.6	33.30	8.1	24.9	1.26
F16	25 May 2023	19	14.07	88.63	8.7	33.32	8.1	24.9	1.39
F16	25 May 2023	20	14.04	88.65	8.8	33.33	8.1	24.9	1.55
F16	25 May 2023	21	14.02	88.68	8.9	33.34	8.1	24.9	1.62
F16	25 May 2023	22	13.93	88.84	8.9	33.35	8.1	24.9	1.71
F16	25 May 2023	23	13.71	89.20	8.8	33.36	8.1	25.0	1.75
F16	25 May 2023	24	13.26	89.20	8.4	33.34	8.1	25.1	1.84
F16	25 May 2023	25	13.04	89.57	8.0	33.32	8.1	25.1	1.70
F16	25 May 2023	26	12.87	90.26	7.6	33.31	8.1	25.1	1.84
F16	25 May 2023	27	12.65	90.56	7.4	33.32	8.0	25.2	1.75
F16	25 May 2023	28	12.60	90.58	7.3	33.33	8.0	25.2	1.80
F16	25 May 2023	29	12.48	90.50	7.2	33.33	8.0	25.2	2.12
F16	25 May 2023	30	12.31	90.61	7.0	33.33	8.0	25.2	1.94
F16	25 May 2023	31	12.20	90.91	6.8	33.33	8.0	25.3	1.70
F16	25 May 2023	32	12.02	91.47	6.7	33.34	8.0	25.3	1.60
F16	25 May 2023	33	11.82	91.79	6.6	33.34	8.0	25.3	1.30
F16	25 May 2023	34	11.63	92.18	6.5	33.34	8.0	25.4	1.03
F16	25 May 2023	35	11.55	92.76	6.5	33.34	8.0	25.4	0.93
F16	25 May 2023	36	11.46	92.83	6.5	33.34	8.0	25.4	1.16
F16	25 May 2023	37	11.38	93.00	6.4	33.34	8.0	25.4	0.84
F16	25 May 2023	38	11.35	93.14	6.4	33.35	8.0	25.4	0.84
F16	25 May 2023	39	11.36	93.31	6.4	33.35	7.9	25.4	0.80
F16	25 May 2023	40	11.25	93.35	6.4	33.35	7.9	25.4	0.75
F16	25 May 2023	41	11.20	93.38	6.4	33.35	7.9	25.5	0.72
F16	25 May 2023	42	11.16	93.42	6.4	33.35	7.9	25.5	0.72
F16	25 May 2023	43	11.14	93.43	6.4	33.35	7.9	25.5	0.71
F16	25 May 2023	44	11.12	93.42	6.4	33.36	7.9	25.5	0.71
F16	25 May 2023	45	11.11	93.39	6.4	33.36	7.9	25.5	0.71
F16	25 May 2023	46	11.08	93.45	6.3	33.36	7.9	25.5	0.71
F16	25 May 2023	47	11.06	93.50	6.3	33.36	7.9	25.5	0.73
F16	25 May 2023	48	11.05	93.48	6.3	33.37	7.9	25.5	0.76
F16	25 May 2023	49	11.05	93.44	6.2	33.38	7.9	25.5	0.71
F16	25 May 2023	50	11.09	93.37	6.0	33.41	7.9	25.5	0.75
F16	25 May 2023	51	11.14	93.32	5.8	33.45	7.9	25.5	0.67
F16	25 May 2023	52	11.07	93.38	5.6	33.48	7.9	25.6	0.64
F16	25 May 2023	53	11.04	93.46	5.5	33.50	7.9	25.6	0.63
F16	25 May 2023	54	11.05	93.46	5.4	33.51	7.9	25.6	0.61
F16	25 May 2023	55	11.07	93.48	5.4	33.52	7.9	25.6	0.57
F16	25 May 2023	56	11.08	93.45	5.3	33.53	7.8	25.6	0.58
F16	25 May 2023	57	11.10	93.44	5.3	33.53	7.8	25.6	0.58
F16	25 May 2023	58	11.11	93.44	5.3	33.54	7.8	25.6	0.65
F16	25 May 2023	59	11.10	93.43	5.2	33.55	7.8	25.6	0.56
F16	25 May 2023	60	11.09	93.42	5.2	33.55	7.8	25.6	0.55
F16	25 May 2023	61	11.08	93.38	5.2	33.55	7.8	25.6	0.54
F16	25 May 2023	62	11.07	93.37	5.2	33.55	7.8	25.6	0.55
F16	25 May 2023	63	11.01	93.41	5.1	33.58	7.8	25.7	0.54
F16	25 May 2023	64	10.94	93.32	5.0	33.59	7.8	25.7	0.52
F16	25 May 2023	65	10.90	93.29	5.0	33.59	7.8	25.7	0.49
F16	25 May 2023	66	10.89	93.44	5.0	33.60	7.8	25.7	0.45
F16	25 May 2023	67	10.88	93.45	5.0	33.60	7.8	25.7	0.46
F16	25 May 2023	68	10.85	93.49	4.9	33.62	7.8	25.7	0.44
F16	25 May 2023	69	10.81	93.47	4.8	33.64	7.8	25.7	0.43
F16	25 May 2023	70	10.83	93.48	4.8	33.63	7.8	25.7	0.43
F16	25 May 2023	71	10.83	93.38	4.8	33.64	7.8	25.8	0.44
F16	25 May 2023	72	10.82	93.26	4.7	33.65	7.8	25.8	0.40
F16	25 May 2023	73	10.79	93.24	4.6	33.66	7.8	25.8	0.39
F16	25 May 2023	74	10.74	93.00	4.4	33.70	7.8	25.8	0.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F16	25 May 2023	75	10.69	92.47	4.2	33.72	7.8	25.8	0.37
F16	25 May 2023	76	10.64	91.07	4.0	33.73	7.8	25.9	0.36
F16	25 May 2023	77	10.61	89.08	4.0	33.74	7.7	25.9	0.35
F16	25 May 2023	78	10.61	88.42	4.0	33.74	7.7	25.9	0.34
F16	25 May 2023	79	10.60	87.87	3.9	33.75	7.7	25.9	0.34
F16	25 May 2023	80	10.60	87.38	3.9	33.75	7.7	25.9	0.36
F16	25 May 2023	81	10.59	86.73	3.9	33.75	7.7	25.9	0.33
F16	25 May 2023	82	10.60	85.79	3.9	33.75	7.7	25.9	0.33
F17	25 May 2023	1	16.85	92.45	8.1	33.36	8.1	24.3	0.19
F17	25 May 2023	2	16.87	92.39	8.0	33.35	8.1	24.3	0.19
F17	25 May 2023	3	16.83	92.45	8.0	33.36	8.1	24.3	0.18
F17	25 May 2023	4	16.81	92.51	8.1	33.36	8.1	24.3	0.20
F17	25 May 2023	5	16.81	92.43	8.1	33.37	8.1	24.3	0.20
F17	25 May 2023	6	16.81	92.30	8.1	33.37	8.1	24.3	0.21
F17	25 May 2023	7	16.79	92.18	8.0	33.37	8.1	24.3	0.21
F17	25 May 2023	8	16.64	92.14	8.0	33.35	8.1	24.3	0.23
F17	25 May 2023	9	16.38	92.10	8.1	33.32	8.1	24.4	0.23
F17	25 May 2023	10	16.14	92.23	8.2	33.31	8.1	24.4	0.25
F17	25 May 2023	11	16.04	92.23	8.3	33.31	8.1	24.4	0.24
F17	25 May 2023	12	16.04	92.22	8.3	33.31	8.1	24.4	0.25
F17	25 May 2023	13	15.93	92.20	8.2	33.33	8.1	24.5	0.25
F17	25 May 2023	14	15.38	91.96	8.3	33.33	8.2	24.6	0.30
F17	25 May 2023	15	14.55	91.53	8.6	33.31	8.1	24.8	0.51
F17	25 May 2023	16	14.34	90.64	8.6	33.29	8.1	24.8	0.74
F17	25 May 2023	17	14.28	89.82	8.5	33.29	8.1	24.8	0.89
F17	25 May 2023	18	14.06	89.50	8.5	33.30	8.1	24.9	1.10
F17	25 May 2023	19	13.96	89.30	8.5	33.30	8.1	24.9	1.24
F17	25 May 2023	20	13.96	89.18	8.5	33.30	8.1	24.9	1.41
F17	25 May 2023	21	13.96	89.17	8.5	33.30	8.1	24.9	1.46
F17	25 May 2023	22	13.95	89.17	8.6	33.30	8.1	24.9	1.61
F17	25 May 2023	23	13.92	89.10	8.6	33.31	8.1	24.9	1.74
F17	25 May 2023	24	13.91	89.12	8.7	33.32	8.1	24.9	1.97
F17	25 May 2023	25	13.85	89.03	8.8	33.33	8.1	24.9	2.05
F17	25 May 2023	26	13.75	88.95	8.7	33.35	8.1	25.0	2.12
F17	25 May 2023	27	13.33	89.03	8.7	33.35	8.1	25.0	2.09
F17	25 May 2023	28	13.42	89.59	8.4	33.33	8.1	25.0	2.00
F17	25 May 2023	29	12.97	90.15	7.9	33.32	8.1	25.1	2.06
F17	25 May 2023	30	12.81	90.32	7.5	33.31	8.1	25.1	2.55
F17	25 May 2023	31	12.74	90.13	7.4	33.31	8.0	25.1	2.37
F17	25 May 2023	32	12.69	90.06	7.3	33.31	8.0	25.1	2.48
F17	25 May 2023	33	12.47	90.29	7.2	33.34	8.0	25.2	2.39
F17	25 May 2023	34	12.29	90.32	7.0	33.34	8.0	25.2	2.22
F17	25 May 2023	35	12.13	90.76	6.8	33.34	8.0	25.3	2.06
F17	25 May 2023	36	12.10	91.26	6.8	33.33	8.0	25.3	1.91
F17	25 May 2023	37	12.06	91.51	6.8	33.33	8.0	25.3	2.12
F17	25 May 2023	38	12.03	91.66	6.7	33.34	8.0	25.3	1.70
F17	25 May 2023	39	11.99	91.83	6.7	33.34	8.0	25.3	1.56
F17	25 May 2023	40	11.94	91.87	6.6	33.34	8.0	25.3	1.40
F17	25 May 2023	41	11.66	91.94	6.5	33.36	8.0	25.4	1.20
F17	25 May 2023	42	11.32	92.52	6.4	33.37	7.9	25.4	0.97
F17	25 May 2023	43	11.27	93.26	6.3	33.36	7.9	25.5	0.80
F17	25 May 2023	44	11.22	93.46	6.3	33.36	7.9	25.5	0.79
F17	25 May 2023	45	11.19	93.51	6.4	33.36	7.9	25.5	0.77
F17	25 May 2023	46	11.14	93.48	6.4	33.36	7.9	25.5	0.77
F17	25 May 2023	47	11.09	93.49	6.3	33.35	7.9	25.5	0.73
F17	25 May 2023	48	11.06	93.49	6.3	33.36	7.9	25.5	0.74
F17	25 May 2023	49	11.03	93.52	6.3	33.37	7.9	25.5	0.69
F17	25 May 2023	50	10.97	93.60	6.2	33.39	7.9	25.5	0.66
F17	25 May 2023	51	10.93	93.64	6.2	33.39	7.9	25.5	0.65
F17	25 May 2023	52	10.89	93.65	6.2	33.40	7.9	25.5	0.67

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F17	25 May 2023	53	10.83	93.64	6.1	33.41	7.9	25.6	0.61
F17	25 May 2023	54	10.79	93.70	6.1	33.42	7.9	25.6	0.61
F17	25 May 2023	55	10.79	93.70	5.9	33.45	7.9	25.6	0.56
F17	25 May 2023	56	10.85	93.74	5.7	33.48	7.9	25.6	0.54
F17	25 May 2023	57	10.91	93.71	5.5	33.50	7.9	25.6	0.54
F17	25 May 2023	58	10.94	93.63	5.4	33.52	7.9	25.6	0.52
F17	25 May 2023	59	10.98	93.54	5.4	33.53	7.9	25.6	0.50
F17	25 May 2023	60	11.02	93.51	5.3	33.55	7.8	25.6	0.52
F17	25 May 2023	61	11.02	93.46	5.1	33.57	7.8	25.7	0.60
F17	25 May 2023	62	10.97	93.35	5.1	33.58	7.8	25.7	0.48
F17	25 May 2023	63	10.96	93.34	5.1	33.58	7.8	25.7	0.47
F17	25 May 2023	64	10.92	93.38	5.1	33.58	7.8	25.7	0.46
F17	25 May 2023	65	10.88	93.41	5.1	33.59	7.8	25.7	0.48
F17	25 May 2023	66	10.86	93.48	5.1	33.59	7.8	25.7	0.44
F17	25 May 2023	67	10.81	93.57	5.0	33.60	7.8	25.7	0.43
F17	25 May 2023	68	10.78	93.60	4.9	33.63	7.8	25.7	0.41
F17	25 May 2023	69	10.78	93.55	4.8	33.64	7.8	25.8	0.41
F17	25 May 2023	70	10.76	93.39	4.7	33.66	7.8	25.8	0.43
F17	25 May 2023	71	10.78	93.22	4.7	33.65	7.8	25.8	0.40
F17	25 May 2023	72	10.71	93.04	4.6	33.68	7.8	25.8	0.39
F17	25 May 2023	73	10.67	92.73	4.4	33.70	7.8	25.8	0.37
F17	25 May 2023	74	10.68	92.09	4.3	33.70	7.8	25.8	0.38
F17	25 May 2023	75	10.65	91.42	4.2	33.72	7.8	25.8	0.34
F17	25 May 2023	76	10.64	90.91	4.1	33.73	7.8	25.9	0.45
F17	25 May 2023	77	10.62	90.35	4.0	33.74	7.8	25.9	0.34
F17	25 May 2023	78	10.61	89.10	3.9	33.74	7.7	25.9	0.36
F17	25 May 2023	79	10.60	88.07	3.9	33.75	7.7	25.9	0.33
F17	25 May 2023	80	10.60	86.85	3.9	33.75	7.7	25.9	0.34
F17	25 May 2023	81	10.60	85.45	3.8	33.75	7.7	25.9	0.32
F17	25 May 2023	82	10.61	85.20	3.9	33.75	7.7	25.9	0.34
F18	25 May 2023	1	17.02	92.02	8.2	33.41	8.2	24.3	0.19
F18	25 May 2023	2	17.00	92.03	8.2	33.41	8.2	24.3	0.20
F18	25 May 2023	3	16.98	92.03	8.2	33.41	8.2	24.3	0.21
F18	25 May 2023	4	16.98	91.92	8.2	33.41	8.2	24.3	0.29
F18	25 May 2023	5	16.98	91.84	8.2	33.41	8.2	24.3	0.30
F18	25 May 2023	6	16.98	91.77	8.2	33.41	8.2	24.3	0.25
F18	25 May 2023	7	16.96	91.71	8.1	33.42	8.2	24.3	0.25
F18	25 May 2023	8	16.73	91.66	8.2	33.41	8.2	24.4	0.26
F18	25 May 2023	9	16.28	91.62	8.1	33.35	8.1	24.4	0.28
F18	25 May 2023	10	16.10	91.92	8.2	33.32	8.1	24.4	0.26
F18	25 May 2023	11	16.06	92.21	8.2	33.31	8.1	24.4	0.24
F18	25 May 2023	12	16.05	92.25	8.2	33.31	8.1	24.4	0.23
F18	25 May 2023	13	15.98	92.21	8.2	33.33	8.1	24.5	0.24
F18	25 May 2023	14	15.54	92.13	8.2	33.35	8.2	24.6	0.25
F18	25 May 2023	15	15.05	91.69	8.4	33.35	8.1	24.7	0.31
F18	25 May 2023	16	14.60	91.46	8.6	33.33	8.1	24.8	0.47
F18	25 May 2023	17	14.52	90.69	8.5	33.31	8.1	24.8	0.66
F18	25 May 2023	18	14.27	89.91	8.5	33.31	8.1	24.8	0.92
F18	25 May 2023	19	14.11	89.47	8.5	33.31	8.1	24.9	1.25
F18	25 May 2023	20	14.05	89.22	8.5	33.30	8.1	24.9	1.47
F18	25 May 2023	21	13.98	89.02	8.5	33.30	8.1	24.9	1.69
F18	25 May 2023	22	13.92	88.89	8.6	33.31	8.1	24.9	1.90
F18	25 May 2023	23	13.87	88.96	8.7	33.33	8.1	24.9	2.15
F18	25 May 2023	24	13.72	88.92	8.8	33.36	8.1	25.0	2.27
F18	25 May 2023	25	13.54	89.05	8.8	33.37	8.1	25.0	2.11
F18	25 May 2023	26	13.29	89.25	8.6	33.36	8.1	25.1	2.20
F18	25 May 2023	27	13.19	89.53	8.3	33.34	8.1	25.1	2.26
F18	25 May 2023	28	12.91	89.59	7.9	33.33	8.1	25.1	2.33
F18	25 May 2023	29	12.69	89.88	7.5	33.32	8.0	25.2	2.34
F18	25 May 2023	30	12.66	90.07	7.3	33.31	8.0	25.2	2.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F18	25 May 2023	31	12.58	90.06	7.1	33.32	8.0	25.2	2.49
F18	25 May 2023	32	12.36	90.30	7.0	33.33	8.0	25.2	2.16
F18	25 May 2023	33	12.27	90.95	6.9	33.34	8.0	25.2	2.02
F18	25 May 2023	34	12.22	91.16	6.8	33.34	8.0	25.3	2.02
F18	25 May 2023	35	12.11	91.18	6.8	33.35	8.0	25.3	1.94
F18	25 May 2023	36	12.02	91.16	6.7	33.35	8.0	25.3	1.96
F18	25 May 2023	37	11.95	91.26	6.7	33.35	8.0	25.3	1.86
F18	25 May 2023	38	11.89	91.51	6.6	33.35	8.0	25.3	1.73
F18	25 May 2023	39	11.77	91.77	6.6	33.35	8.0	25.4	1.51
F18	25 May 2023	40	11.76	92.09	6.5	33.35	8.0	25.4	1.31
F18	25 May 2023	41	11.46	92.48	6.4	33.35	8.0	25.4	1.04
F18	25 May 2023	42	11.29	92.85	6.4	33.36	7.9	25.4	0.97
F18	25 May 2023	43	11.25	93.18	6.4	33.37	7.9	25.5	0.83
F18	25 May 2023	44	11.19	93.32	6.3	33.37	7.9	25.5	0.75
F18	25 May 2023	45	11.13	93.41	6.3	33.37	7.9	25.5	0.70
F18	25 May 2023	46	11.09	93.47	6.3	33.37	7.9	25.5	0.71
F18	25 May 2023	47	11.03	93.50	6.2	33.37	7.9	25.5	0.69
F18	25 May 2023	48	10.91	93.49	6.2	33.38	7.9	25.5	0.66
F18	25 May 2023	49	10.88	93.51	6.2	33.38	7.9	25.5	0.63
F18	25 May 2023	50	10.81	93.57	6.2	33.39	7.9	25.6	0.76
F18	25 May 2023	51	10.77	93.59	6.1	33.40	7.9	25.6	0.61
F18	25 May 2023	52	10.79	93.54	6.0	33.43	7.9	25.6	0.55
F18	25 May 2023	53	10.77	93.63	5.8	33.47	7.9	25.6	0.53
F18	25 May 2023	54	10.80	93.66	5.6	33.50	7.9	25.6	0.49
F18	25 May 2023	55	10.85	93.68	5.4	33.52	7.9	25.6	0.47
F18	25 May 2023	56	10.89	93.63	5.3	33.54	7.8	25.7	0.46
F18	25 May 2023	57	10.92	93.60	5.3	33.54	7.8	25.7	0.44
F18	25 May 2023	58	10.94	93.54	5.2	33.55	7.8	25.7	0.47
F18	25 May 2023	59	10.94	93.57	5.2	33.56	7.8	25.7	0.45
F18	25 May 2023	60	10.94	93.53	5.2	33.57	7.8	25.7	0.44
F18	25 May 2023	61	10.95	93.58	5.1	33.58	7.8	25.7	0.42
F18	25 May 2023	62	10.94	93.56	5.1	33.58	7.8	25.7	0.46
F18	25 May 2023	63	10.91	93.57	5.1	33.58	7.8	25.7	0.42
F18	25 May 2023	64	10.89	93.59	5.1	33.59	7.8	25.7	0.44
F18	25 May 2023	65	10.90	93.51	5.0	33.60	7.8	25.7	0.45
F18	25 May 2023	66	10.89	93.41	4.9	33.62	7.8	25.7	0.44
F18	25 May 2023	67	10.89	93.40	4.9	33.62	7.8	25.7	0.43
F18	25 May 2023	68	10.87	93.37	4.7	33.65	7.8	25.7	0.41
F18	25 May 2023	69	10.85	93.18	4.6	33.66	7.8	25.8	0.39
F18	25 May 2023	70	10.82	92.81	4.5	33.67	7.8	25.8	0.38
F18	25 May 2023	71	10.74	92.45	4.3	33.70	7.8	25.8	0.39
F18	25 May 2023	72	10.70	90.83	4.2	33.72	7.8	25.8	0.39
F18	25 May 2023	73	10.69	90.11	4.2	33.72	7.8	25.8	0.34
F18	25 May 2023	74	10.65	89.78	4.1	33.73	7.8	25.8	0.35
F18	25 May 2023	75	10.62	89.33	4.0	33.74	7.8	25.9	0.38
F18	25 May 2023	76	10.62	87.38	4.0	33.74	7.7	25.9	0.35
F18	25 May 2023	77	10.63	86.75	4.0	33.74	7.7	25.9	0.31
F18	25 May 2023	78	10.61	86.46	4.0	33.74	7.7	25.9	0.34
F18	25 May 2023	79	10.61	86.23	3.9	33.74	7.7	25.9	0.33
F18	25 May 2023	80	10.61	86.00	3.9	33.74	7.7	25.9	0.33
F18	25 May 2023	81	10.61	86.00	4.0	33.74	7.7	25.9	0.67
F18	25 May 2023	82	10.61	85.58	3.9	33.74	7.7	25.9	0.30
F19	25 May 2023	1	16.94	92.00	8.1	33.39	8.2	24.3	0.21
F19	25 May 2023	2	16.94	92.11	8.1	33.39	8.2	24.3	0.21
F19	25 May 2023	3	16.92	92.08	8.1	33.39	8.2	24.3	0.21
F19	25 May 2023	4	16.91	92.03	8.1	33.39	8.2	24.3	0.23
F19	25 May 2023	5	16.91	91.98	8.1	33.39	8.2	24.3	0.24
F19	25 May 2023	6	16.91	91.99	8.1	33.39	8.2	24.3	0.26
F19	25 May 2023	7	16.90	91.98	8.1	33.39	8.2	24.3	0.25
F19	25 May 2023	8	16.63	91.93	8.1	33.37	8.1	24.3	0.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F19	25 May 2023	9	16.49	91.95	8.1	33.34	8.1	24.4	0.27
F19	25 May 2023	10	16.13	92.21	8.2	33.31	8.1	24.4	0.26
F19	25 May 2023	11	16.00	92.52	8.2	33.30	8.1	24.4	0.24
F19	25 May 2023	12	16.01	92.37	8.3	33.31	8.1	24.4	0.25
F19	25 May 2023	13	16.01	92.23	8.3	33.31	8.1	24.4	0.26
F19	25 May 2023	14	15.98	92.17	8.3	33.30	8.1	24.4	0.27
F19	25 May 2023	15	15.99	92.24	8.3	33.31	8.1	24.4	0.27
F19	25 May 2023	16	16.03	92.25	8.3	33.32	8.1	24.4	0.29
F19	25 May 2023	17	15.76	92.07	8.3	33.35	8.2	24.5	0.33
F19	25 May 2023	18	15.47	91.71	8.3	33.32	8.1	24.6	0.35
F19	25 May 2023	19	14.92	91.46	8.4	33.34	8.1	24.7	0.50
F19	25 May 2023	20	14.31	90.51	8.5	33.31	8.1	24.8	0.88
F19	25 May 2023	21	14.12	89.63	8.5	33.29	8.1	24.8	1.20
F19	25 May 2023	22	13.96	89.48	8.4	33.29	8.1	24.9	1.44
F19	25 May 2023	23	13.81	89.59	8.3	33.29	8.1	24.9	1.63
F19	25 May 2023	24	13.72	89.57	8.3	33.30	8.1	24.9	1.92
F19	25 May 2023	25	13.66	89.26	8.5	33.31	8.1	25.0	2.16
F19	25 May 2023	26	13.53	89.16	8.4	33.33	8.1	25.0	2.20
F19	25 May 2023	27	13.10	89.11	8.2	33.34	8.1	25.1	2.16
F19	25 May 2023	28	12.88	89.30	7.9	33.33	8.1	25.1	2.42
F19	25 May 2023	29	12.81	89.51	7.7	33.32	8.1	25.1	2.24
F19	25 May 2023	30	12.77	89.93	7.6	33.32	8.0	25.1	2.24
F19	25 May 2023	31	12.73	90.16	7.5	33.31	8.0	25.1	2.35
F19	25 May 2023	32	12.70	90.16	7.4	33.31	8.0	25.1	2.56
F19	25 May 2023	33	12.68	90.14	7.3	33.31	8.0	25.1	2.66
F19	25 May 2023	34	12.67	90.24	7.3	33.32	8.0	25.2	2.60
F19	25 May 2023	35	12.64	90.45	7.2	33.32	8.0	25.2	2.39
F19	25 May 2023	36	12.55	90.37	7.1	33.32	8.0	25.2	2.22
F19	25 May 2023	37	12.48	91.10	7.0	33.33	8.0	25.2	2.14
F19	25 May 2023	38	12.24	91.59	6.9	33.34	8.0	25.3	1.92
F19	25 May 2023	39	12.16	91.87	6.8	33.34	8.0	25.3	1.65
F19	25 May 2023	40	12.08	91.97	6.8	33.34	8.0	25.3	1.85
F19	25 May 2023	41	12.04	91.99	6.7	33.34	8.0	25.3	1.92
F19	25 May 2023	42	12.01	92.06	6.7	33.34	8.0	25.3	1.88
F19	25 May 2023	43	11.96	91.99	6.6	33.35	8.0	25.3	1.67
F19	25 May 2023	44	11.92	91.81	6.6	33.35	8.0	25.3	1.50
F19	25 May 2023	45	11.89	91.94	6.6	33.35	8.0	25.3	1.81
F19	25 May 2023	46	11.83	92.00	6.5	33.35	8.0	25.3	1.63
F19	25 May 2023	47	11.74	91.94	6.4	33.36	8.0	25.4	1.68
F19	25 May 2023	48	11.61	92.10	6.4	33.36	7.9	25.4	1.35
F19	25 May 2023	49	11.49	92.35	6.4	33.35	7.9	25.4	1.18
F19	25 May 2023	50	11.46	92.56	6.3	33.37	7.9	25.4	1.16
F19	25 May 2023	51	11.53	92.64	6.2	33.39	7.9	25.4	1.20
F19	25 May 2023	52	11.36	92.69	6.2	33.39	7.9	25.5	1.21
F19	25 May 2023	53	11.16	92.71	6.3	33.36	7.9	25.5	0.93
F19	25 May 2023	54	11.16	93.09	6.3	33.37	7.9	25.5	0.78
F19	25 May 2023	55	11.09	93.17	6.2	33.38	7.9	25.5	0.82
F19	25 May 2023	56	11.09	93.16	6.1	33.40	7.9	25.5	0.85
F19	25 May 2023	57	10.97	93.24	6.2	33.39	7.9	25.5	0.72
F19	25 May 2023	58	10.94	93.29	6.2	33.38	7.9	25.5	0.64
F19	25 May 2023	59	10.87	93.43	6.0	33.42	7.9	25.6	0.66
F19	25 May 2023	60	10.99	93.50	5.4	33.52	7.9	25.6	0.58
F19	25 May 2023	61	10.99	93.42	5.2	33.54	7.8	25.6	0.57
F19	25 May 2023	62	10.94	93.32	5.1	33.56	7.8	25.7	0.59
F19	25 May 2023	63	10.93	93.23	5.0	33.59	7.8	25.7	0.59
F19	25 May 2023	64	10.92	93.14	5.0	33.59	7.8	25.7	0.47
F19	25 May 2023	65	10.91	93.06	4.9	33.61	7.8	25.7	0.47
F19	25 May 2023	66	10.90	92.85	4.8	33.63	7.8	25.7	0.47
F19	25 May 2023	67	10.86	92.52	4.7	33.64	7.8	25.7	0.44
F19	25 May 2023	68	10.83	92.46	4.7	33.65	7.8	25.8	0.41
F19	25 May 2023	69	10.82	92.46	4.6	33.65	7.8	25.8	0.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F19	25 May 2023	70	10.81	92.38	4.6	33.66	7.8	25.8	0.41
F19	25 May 2023	71	10.81	92.11	4.5	33.66	7.8	25.8	0.40
F19	25 May 2023	72	10.81	91.89	4.5	33.66	7.8	25.8	0.38
F19	25 May 2023	73	10.81	91.59	4.4	33.67	7.8	25.8	0.38
F19	25 May 2023	74	10.81	91.42	4.4	33.67	7.8	25.8	0.39
F19	25 May 2023	75	10.82	91.33	4.4	33.67	7.8	25.8	0.40
F19	25 May 2023	76	10.75	90.97	4.2	33.70	7.8	25.8	0.38
F19	25 May 2023	77	10.68	90.60	4.1	33.72	7.8	25.8	0.40
F19	25 May 2023	78	10.65	90.70	4.1	33.73	7.8	25.8	0.35
F19	25 May 2023	79	10.64	90.78	4.0	33.73	7.8	25.8	0.33
F19	25 May 2023	80	10.62	90.70	4.0	33.73	7.7	25.9	0.34
F19	25 May 2023	81	10.61	90.57	4.0	33.73	7.7	25.9	0.31
F19	25 May 2023	82	10.59	90.58	4.0	33.73	7.7	25.9	0.31
F19	25 May 2023	83	10.58	90.41	3.9	33.74	7.7	25.9	0.30
F20	25 May 2023	1	16.85	92.21	8.1	33.37	8.1	24.3	0.21
F20	25 May 2023	2	16.85	92.21	8.1	33.37	8.1	24.3	0.21
F20	25 May 2023	3	16.85	92.24	8.1	33.37	8.1	24.3	0.22
F20	25 May 2023	4	16.84	92.25	8.1	33.37	8.1	24.3	0.23
F20	25 May 2023	5	16.84	92.24	8.1	33.37	8.1	24.3	0.24
F20	25 May 2023	6	16.84	92.16	8.1	33.37	8.1	24.3	0.25
F20	25 May 2023	7	16.84	92.21	8.1	33.37	8.1	24.3	0.25
F20	25 May 2023	8	16.83	92.22	8.1	33.37	8.1	24.3	0.27
F20	25 May 2023	9	16.81	92.19	8.0	33.37	8.1	24.3	0.27
F20	25 May 2023	10	16.54	92.19	8.0	33.34	8.1	24.4	0.28
F20	25 May 2023	11	16.19	92.32	8.1	33.31	8.1	24.4	0.26
F20	25 May 2023	12	15.93	92.58	8.2	33.29	8.1	24.4	0.24
F20	25 May 2023	13	15.89	92.58	8.3	33.29	8.1	24.5	0.26
F20	25 May 2023	14	15.90	92.45	8.3	33.29	8.1	24.5	0.26
F20	25 May 2023	15	15.88	92.32	8.3	33.30	8.1	24.5	0.27
F20	25 May 2023	16	15.89	92.25	8.3	33.30	8.1	24.5	0.28
F20	25 May 2023	17	15.91	92.23	8.3	33.31	8.1	24.5	0.31
F20	25 May 2023	18	15.87	92.06	8.4	33.34	8.1	24.5	0.33
F20	25 May 2023	19	15.67	91.69	8.3	33.33	8.1	24.5	0.34
F20	25 May 2023	20	15.53	91.74	8.2	33.32	8.1	24.6	0.35
F20	25 May 2023	21	15.11	91.72	8.3	33.31	8.1	24.6	0.43
F20	25 May 2023	22	14.49	91.66	8.6	33.30	8.1	24.8	0.86
F20	25 May 2023	23	14.21	90.69	8.6	33.28	8.1	24.8	1.45
F20	25 May 2023	24	13.98	89.70	8.4	33.28	8.1	24.9	1.84
F20	25 May 2023	25	13.72	89.69	8.3	33.29	8.1	24.9	1.88
F20	25 May 2023	26	13.64	89.56	8.2	33.29	8.1	24.9	2.04
F20	25 May 2023	27	13.59	89.31	8.3	33.30	8.1	25.0	2.27
F20	25 May 2023	28	13.44	89.27	8.4	33.32	8.1	25.0	2.45
F20	25 May 2023	29	13.23	89.23	8.3	33.33	8.1	25.1	2.77
F20	25 May 2023	30	12.84	89.19	7.8	33.32	8.1	25.1	2.57
F20	25 May 2023	31	12.73	89.47	7.4	33.31	8.0	25.1	2.70
F20	25 May 2023	32	12.72	89.83	7.3	33.31	8.0	25.1	2.47
F20	25 May 2023	33	12.70	90.01	7.3	33.31	8.0	25.1	2.49
F20	25 May 2023	34	12.65	90.21	7.1	33.31	8.0	25.2	2.49
F20	25 May 2023	35	12.43	90.51	6.9	33.33	8.0	25.2	2.11
F20	25 May 2023	36	12.14	91.16	6.8	33.34	8.0	25.3	1.86
F20	25 May 2023	37	12.03	91.73	6.7	33.34	8.0	25.3	1.42
F20	25 May 2023	38	11.99	92.17	6.7	33.34	8.0	25.3	1.45
F20	25 May 2023	39	11.99	92.37	6.7	33.34	8.0	25.3	1.49
F20	25 May 2023	40	11.95	92.41	6.6	33.34	8.0	25.3	1.28
F20	25 May 2023	41	11.92	92.42	6.6	33.34	8.0	25.3	1.38
F20	25 May 2023	42	11.92	92.38	6.6	33.34	8.0	25.3	1.61
F20	25 May 2023	43	11.87	92.37	6.6	33.34	8.0	25.3	1.40
F20	25 May 2023	44	11.84	92.35	6.6	33.34	8.0	25.3	1.36
F20	25 May 2023	45	11.80	92.41	6.6	33.34	8.0	25.3	1.28
F20	25 May 2023	46	11.77	92.42	6.6	33.35	8.0	25.3	1.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F20	25 May 2023	47	11.75	92.39	6.5	33.35	8.0	25.4	1.44
F20	25 May 2023	48	11.74	92.29	6.5	33.35	8.0	25.4	1.55
F20	25 May 2023	49	11.72	92.22	6.4	33.37	7.9	25.4	1.38
F20	25 May 2023	50	11.61	92.13	6.2	33.40	7.9	25.4	1.25
F20	25 May 2023	51	11.48	92.16	6.1	33.41	7.9	25.5	1.12
F20	25 May 2023	52	11.55	92.36	5.9	33.44	7.9	25.5	1.28
F20	25 May 2023	53	11.33	92.25	5.9	33.44	7.9	25.5	1.01
F20	25 May 2023	54	11.23	92.33	5.9	33.42	7.9	25.5	1.05
F20	25 May 2023	55	10.97	92.59	6.0	33.42	7.9	25.6	0.69
F20	25 May 2023	56	10.82	92.93	6.0	33.43	7.9	25.6	0.61
F20	25 May 2023	57	10.84	93.20	5.7	33.48	7.9	25.6	0.55
F20	25 May 2023	58	10.81	93.40	5.5	33.51	7.9	25.6	0.56
F20	25 May 2023	59	10.73	93.48	5.3	33.55	7.8	25.7	0.53
F20	25 May 2023	60	10.77	93.45	5.0	33.60	7.8	25.7	0.45
F20	25 May 2023	61	10.81	92.98	4.8	33.62	7.8	25.7	0.43
F20	25 May 2023	62	10.81	92.63	4.8	33.63	7.8	25.7	0.40
F20	25 May 2023	63	10.80	92.56	4.8	33.63	7.8	25.7	0.40
F20	25 May 2023	64	10.80	92.56	4.8	33.63	7.8	25.7	0.40
F20	25 May 2023	65	10.80	92.65	4.8	33.64	7.8	25.8	0.40
F20	25 May 2023	66	10.80	92.65	4.8	33.64	7.8	25.8	0.38
F20	25 May 2023	67	10.81	92.63	4.7	33.64	7.8	25.8	0.38
F20	25 May 2023	68	10.81	92.63	4.7	33.64	7.8	25.8	0.39
F20	25 May 2023	69	10.82	92.50	4.6	33.65	7.8	25.8	0.39
F20	25 May 2023	70	10.83	92.23	4.6	33.65	7.8	25.8	0.43
F20	25 May 2023	71	10.81	92.01	4.4	33.67	7.8	25.8	0.39
F20	25 May 2023	72	10.64	91.42	4.3	33.71	7.8	25.8	0.35
F20	25 May 2023	73	10.58	90.90	4.2	33.71	7.8	25.8	0.31
F20	25 May 2023	74	10.57	91.02	4.2	33.71	7.8	25.8	0.28
F20	25 May 2023	75	10.55	91.37	4.1	33.72	7.8	25.9	0.27
F20	25 May 2023	76	10.53	91.37	4.1	33.72	7.8	25.9	0.27
F20	25 May 2023	77	10.50	91.18	4.0	33.73	7.7	25.9	0.26
F20	25 May 2023	78	10.48	91.13	4.0	33.73	7.7	25.9	0.26
F20	25 May 2023	79	10.47	91.07	4.0	33.73	7.7	25.9	0.24
F20	25 May 2023	80	10.46	91.03	4.0	33.73	7.7	25.9	0.24
F20	25 May 2023	81	10.46	90.95	4.0	33.73	7.7	25.9	0.25
F20	25 May 2023	82	10.46	90.84	4.0	33.73	7.7	25.9	0.25
F20	25 May 2023	83	10.47	90.69	4.0	33.73	7.7	25.9	0.24
F21	25 May 2023	1	16.68	92.62	8.0	33.33	8.1	24.3	0.20
F21	25 May 2023	2	16.68	92.64	8.0	33.33	8.1	24.3	0.21
F21	25 May 2023	3	16.68	92.68	8.0	33.33	8.1	24.3	0.21
F21	25 May 2023	4	16.68	92.69	8.0	33.33	8.1	24.3	0.22
F21	25 May 2023	5	16.68	92.70	8.0	33.33	8.1	24.3	0.23
F21	25 May 2023	6	16.68	92.73	8.0	33.33	8.1	24.3	0.22
F21	25 May 2023	7	16.68	92.65	8.0	33.33	8.1	24.3	0.23
F21	25 May 2023	8	16.68	92.69	8.0	33.33	8.1	24.3	0.24
F21	25 May 2023	9	16.68	92.72	8.0	33.33	8.1	24.3	0.24
F21	25 May 2023	10	16.68	92.71	8.0	33.33	8.1	24.3	0.24
F21	25 May 2023	11	16.67	92.68	8.0	33.33	8.1	24.3	0.25
F21	25 May 2023	12	16.64	92.64	8.0	33.33	8.1	24.3	0.25
F21	25 May 2023	13	16.52	92.67	8.0	33.32	8.1	24.3	0.27
F21	25 May 2023	14	16.34	92.65	8.0	33.31	8.1	24.4	0.27
F21	25 May 2023	15	16.00	92.69	8.2	33.30	8.1	24.4	0.27
F21	25 May 2023	16	15.82	92.64	8.2	33.29	8.1	24.5	0.27
F21	25 May 2023	17	15.71	92.58	8.3	33.28	8.1	24.5	0.27
F21	25 May 2023	18	15.61	92.49	8.2	33.28	8.1	24.5	0.28
F21	25 May 2023	19	15.39	92.41	8.4	33.28	8.1	24.6	0.32
F21	25 May 2023	20	15.30	92.25	8.4	33.28	8.1	24.6	0.35
F21	25 May 2023	21	15.27	92.11	8.4	33.27	8.1	24.6	0.36
F21	25 May 2023	22	15.25	92.01	8.4	33.27	8.1	24.6	0.37
F21	25 May 2023	23	15.01	91.96	8.4	33.27	8.1	24.6	0.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F21	25 May 2023	24	14.42	91.75	8.6	33.28	8.1	24.8	0.93
F21	25 May 2023	25	14.18	90.83	8.6	33.28	8.1	24.8	1.39
F21	25 May 2023	26	14.15	89.97	8.5	33.27	8.1	24.8	1.58
F21	25 May 2023	27	13.94	89.80	8.5	33.27	8.1	24.9	1.81
F21	25 May 2023	28	13.81	89.79	8.5	33.27	8.1	24.9	1.88
F21	25 May 2023	29	13.72	89.91	8.4	33.27	8.1	24.9	2.24
F21	25 May 2023	30	13.65	89.91	8.3	33.27	8.1	24.9	2.19
F21	25 May 2023	31	13.59	89.76	8.2	33.29	8.1	24.9	2.31
F21	25 May 2023	32	13.50	89.68	8.1	33.29	8.1	25.0	2.36
F21	25 May 2023	33	13.38	89.52	8.0	33.30	8.1	25.0	2.55
F21	25 May 2023	34	13.36	89.39	8.0	33.30	8.1	25.0	2.81
F21	25 May 2023	35	13.25	89.50	8.1	33.31	8.1	25.0	2.79
F21	25 May 2023	36	13.10	89.59	8.0	33.31	8.1	25.1	2.75
F21	25 May 2023	37	12.86	89.56	7.7	33.32	8.1	25.1	2.72
F21	25 May 2023	38	12.76	89.61	7.4	33.31	8.0	25.1	2.79
F21	25 May 2023	39	12.70	89.91	7.2	33.32	8.0	25.1	2.93
F21	25 May 2023	40	12.52	90.26	7.0	33.33	8.0	25.2	2.28
F21	25 May 2023	41	12.13	90.98	6.7	33.34	8.0	25.3	1.67
F21	25 May 2023	42	11.87	91.89	6.6	33.34	8.0	25.3	1.35
F21	25 May 2023	43	11.83	92.38	6.6	33.34	8.0	25.3	1.23
F21	25 May 2023	44	11.80	92.52	6.6	33.34	8.0	25.3	1.33
F21	25 May 2023	45	11.76	92.62	6.5	33.34	8.0	25.3	1.21
F21	25 May 2023	46	11.72	92.44	6.5	33.35	8.0	25.4	1.11
F21	25 May 2023	47	11.66	92.75	6.5	33.34	8.0	25.4	1.09
F21	25 May 2023	48	11.57	92.77	6.5	33.34	7.9	25.4	1.21
F21	25 May 2023	49	11.60	92.79	6.5	33.34	7.9	25.4	1.09
F21	25 May 2023	50	11.51	92.73	6.4	33.35	7.9	25.4	1.04
F21	25 May 2023	51	11.43	92.78	6.4	33.35	7.9	25.4	0.96
F21	25 May 2023	52	11.46	92.85	6.2	33.38	7.9	25.4	1.14
F21	25 May 2023	53	11.59	92.80	5.9	33.45	7.9	25.5	1.02
F21	25 May 2023	54	11.60	92.55	5.7	33.48	7.9	25.5	0.85
F21	25 May 2023	55	11.21	92.51	5.8	33.44	7.9	25.5	0.79
F21	25 May 2023	56	11.09	92.57	6.0	33.42	7.9	25.5	0.74
F21	25 May 2023	57	10.94	92.86	6.1	33.41	7.9	25.5	0.64
F21	25 May 2023	58	10.91	93.24	6.0	33.42	7.9	25.6	0.64
F21	25 May 2023	59	10.78	93.40	6.0	33.43	7.9	25.6	0.57
F21	25 May 2023	60	10.72	93.39	6.0	33.44	7.9	25.6	0.58
F21	25 May 2023	61	10.63	93.55	6.0	33.45	7.9	25.6	0.50
F21	25 May 2023	62	10.62	93.62	5.9	33.45	7.9	25.6	0.47
F21	25 May 2023	63	10.63	93.72	5.7	33.49	7.9	25.7	0.45
F21	25 May 2023	64	10.64	93.79	5.5	33.53	7.9	25.7	0.48
F21	25 May 2023	65	10.57	93.84	5.4	33.54	7.8	25.7	0.41
F21	25 May 2023	66	10.63	93.70	5.1	33.59	7.8	25.7	0.37
F21	25 May 2023	67	10.65	93.53	4.8	33.63	7.8	25.8	0.38
F21	25 May 2023	68	10.64	93.35	4.7	33.63	7.8	25.8	0.33
F21	25 May 2023	69	10.61	93.28	4.7	33.63	7.8	25.8	0.29
F21	25 May 2023	70	10.58	93.31	4.7	33.63	7.8	25.8	0.30
F21	25 May 2023	71	10.57	93.32	4.7	33.64	7.8	25.8	0.27
F21	25 May 2023	72	10.56	93.39	4.7	33.64	7.8	25.8	0.29
F21	25 May 2023	73	10.55	93.43	4.6	33.65	7.8	25.8	0.26
F21	25 May 2023	74	10.53	93.43	4.5	33.67	7.8	25.8	0.26
F21	25 May 2023	75	10.51	93.34	4.4	33.68	7.8	25.8	0.25
F21	25 May 2023	76	10.50	93.24	4.4	33.69	7.8	25.8	0.25
F21	25 May 2023	77	10.49	93.29	4.4	33.69	7.8	25.8	0.26
F21	25 May 2023	78	10.49	93.37	4.3	33.70	7.8	25.9	0.25
F21	25 May 2023	79	10.49	93.30	4.3	33.70	7.8	25.9	0.24
F21	25 May 2023	80	10.47	93.23	4.2	33.70	7.8	25.9	0.23
F21	25 May 2023	81	10.46	93.07	4.1	33.71	7.8	25.9	0.24
F21	25 May 2023	82	10.45	92.94	4.1	33.72	7.8	25.9	0.22
F21	25 May 2023	83	10.44	92.38	4.1	33.73	7.7	25.9	0.21
F21	25 May 2023	84	10.45	91.87	4.1	33.72	7.7	25.9	0.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
F22	25 May 2023	1	16.80	91.89	8.1	33.36	8.1	24.3	0.20
F22	25 May 2023	2	16.80	92.15	8.1	33.36	8.1	24.3	0.21
F22	25 May 2023	3	16.79	92.24	8.1	33.36	8.1	24.3	0.22
F22	25 May 2023	4	16.79	92.34	8.1	33.36	8.1	24.3	0.22
F22	25 May 2023	5	16.79	92.36	8.1	33.36	8.1	24.3	0.23
F22	25 May 2023	6	16.79	92.39	8.1	33.36	8.1	24.3	0.23
F22	25 May 2023	7	16.79	92.36	8.0	33.36	8.1	24.3	0.24
F22	25 May 2023	8	16.79	92.37	8.0	33.36	8.1	24.3	0.25
F22	25 May 2023	9	16.79	92.31	8.1	33.36	8.1	24.3	0.26
F22	25 May 2023	10	16.78	92.34	8.0	33.36	8.1	24.3	0.27
F22	25 May 2023	11	16.77	92.35	7.9	33.36	8.1	24.3	0.26
F22	25 May 2023	12	16.56	92.36	8.0	33.34	8.1	24.3	0.27
F22	25 May 2023	13	16.25	92.47	8.1	33.31	8.1	24.4	0.26
F22	25 May 2023	14	16.05	92.62	8.2	33.30	8.1	24.4	0.27
F22	25 May 2023	15	15.82	92.67	8.2	33.29	8.1	24.5	0.25
F22	25 May 2023	16	15.63	92.65	8.3	33.29	8.1	24.5	0.31
F22	25 May 2023	17	15.50	92.45	8.3	33.28	8.1	24.5	0.39
F22	25 May 2023	18	15.34	92.29	8.3	33.28	8.1	24.6	0.32
F22	25 May 2023	19	15.06	92.11	8.5	33.28	8.1	24.6	0.38
F22	25 May 2023	20	15.07	91.59	8.5	33.26	8.1	24.6	0.47
F22	25 May 2023	21	14.56	91.07	8.6	33.28	8.1	24.7	0.79
F22	25 May 2023	22	14.41	90.47	8.6	33.27	8.1	24.8	1.10
F22	25 May 2023	23	14.33	89.98	8.6	33.27	8.1	24.8	1.36
F22	25 May 2023	24	14.26	89.84	8.6	33.27	8.1	24.8	1.60
F22	25 May 2023	25	14.09	89.91	8.5	33.27	8.1	24.8	1.79
F22	25 May 2023	26	13.99	89.94	8.5	33.27	8.1	24.9	2.03
F22	25 May 2023	27	13.96	90.01	8.5	33.27	8.1	24.9	1.95
F22	25 May 2023	28	13.91	89.96	8.4	33.27	8.1	24.9	2.00
F22	25 May 2023	29	13.73	89.90	8.3	33.29	8.1	24.9	2.19
F22	25 May 2023	30	13.64	89.67	8.2	33.30	8.1	24.9	2.29
F22	25 May 2023	31	13.58	89.57	8.2	33.30	8.1	25.0	2.37
F22	25 May 2023	32	13.52	89.51	8.2	33.30	8.1	25.0	2.41
F22	25 May 2023	33	13.42	89.45	8.3	33.32	8.1	25.0	2.89
F22	25 May 2023	34	13.17	89.24	8.2	33.33	8.1	25.1	2.94
F22	25 May 2023	35	12.93	89.26	7.8	33.33	8.1	25.1	2.98
F22	25 May 2023	36	12.77	89.56	7.4	33.31	8.0	25.1	2.83
F22	25 May 2023	37	12.67	89.90	7.2	33.31	8.0	25.2	2.75
F22	25 May 2023	38	12.50	90.21	6.9	33.33	8.0	25.2	2.36
F22	25 May 2023	39	12.34	90.93	6.8	33.33	8.0	25.2	1.84
F22	25 May 2023	40	12.04	91.75	6.7	33.34	8.0	25.3	1.55
F22	25 May 2023	41	11.83	92.38	6.6	33.34	8.0	25.3	1.40
F22	25 May 2023	42	11.81	92.55	6.6	33.34	8.0	25.3	1.19
F22	25 May 2023	43	11.80	92.54	6.6	33.34	8.0	25.3	1.25
F22	25 May 2023	44	11.78	92.49	6.6	33.34	8.0	25.3	1.19
F22	25 May 2023	45	11.78	92.49	6.6	33.34	8.0	25.3	1.22
F22	25 May 2023	46	11.77	92.45	6.6	33.34	8.0	25.3	1.21
F22	25 May 2023	47	11.77	92.41	6.6	33.34	8.0	25.3	1.18
F22	25 May 2023	48	11.72	92.52	6.5	33.35	8.0	25.4	1.21
F22	25 May 2023	49	11.66	92.57	6.4	33.35	7.9	25.4	1.19
F22	25 May 2023	50	11.60	92.39	6.4	33.36	7.9	25.4	1.18
F22	25 May 2023	51	11.56	92.43	6.3	33.37	7.9	25.4	1.42
F22	25 May 2023	52	11.61	92.44	6.0	33.44	7.9	25.4	1.27
F22	25 May 2023	53	11.67	92.30	5.6	33.50	7.9	25.5	1.35
F22	25 May 2023	54	11.59	91.90	5.5	33.50	7.9	25.5	1.23
F22	25 May 2023	55	11.35	92.11	5.6	33.49	7.9	25.5	0.90
F22	25 May 2023	56	11.26	92.42	5.6	33.48	7.9	25.5	0.83
F22	25 May 2023	57	11.16	92.84	5.7	33.47	7.9	25.6	0.80
F22	25 May 2023	58	11.10	93.04	5.7	33.46	7.9	25.6	0.67
F22	25 May 2023	59	10.96	93.16	5.7	33.47	7.9	25.6	0.59
F22	25 May 2023	60	10.96	93.21	5.7	33.46	7.9	25.6	0.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F22	25 May 2023	61	10.92	93.32	5.6	33.49	7.9	25.6	0.53
F22	25 May 2023	62	10.91	93.40	5.5	33.51	7.9	25.6	0.49
F22	25 May 2023	63	10.88	93.42	5.3	33.53	7.8	25.7	0.50
F22	25 May 2023	64	10.88	93.43	5.2	33.55	7.8	25.7	0.52
F22	25 May 2023	65	10.84	93.34	5.1	33.57	7.8	25.7	0.41
F22	25 May 2023	66	10.82	93.37	5.0	33.59	7.8	25.7	0.40
F22	25 May 2023	67	10.79	93.28	5.0	33.60	7.8	25.7	0.45
F22	25 May 2023	68	10.79	93.11	5.0	33.60	7.8	25.7	0.41
F22	25 May 2023	69	10.79	93.02	5.0	33.61	7.8	25.7	0.38
F22	25 May 2023	70	10.79	92.97	4.9	33.61	7.8	25.7	0.40
F22	25 May 2023	71	10.77	92.95	4.9	33.62	7.8	25.7	0.39
F22	25 May 2023	72	10.74	93.01	4.9	33.62	7.8	25.7	0.38
F22	25 May 2023	73	10.72	93.15	4.8	33.63	7.8	25.8	0.35
F22	25 May 2023	74	10.67	93.05	4.7	33.66	7.8	25.8	0.33
F22	25 May 2023	75	10.67	92.38	4.5	33.67	7.8	25.8	0.34
F22	25 May 2023	76	10.67	91.95	4.4	33.67	7.8	25.8	0.31
F22	25 May 2023	77	10.67	91.71	4.4	33.68	7.8	25.8	0.32
F22	25 May 2023	78	10.67	91.14	4.3	33.69	7.8	25.8	0.33
F22	25 May 2023	79	10.64	90.76	4.3	33.70	7.8	25.8	0.28
F22	25 May 2023	80	10.59	90.37	4.2	33.71	7.8	25.8	0.30
F22	25 May 2023	81	10.60	88.70	4.2	33.71	7.8	25.8	0.28
F22	25 May 2023	82	10.60	84.92	4.2	33.71	7.8	25.8	0.27
F23	25 May 2023	1	16.71	92.57	8.0	33.34	8.1	24.3	0.21
F23	25 May 2023	2	16.71	92.39	8.1	33.34	8.1	24.3	0.22
F23	25 May 2023	3	16.71	92.50	8.1	33.34	8.1	24.3	0.22
F23	25 May 2023	4	16.71	92.60	8.0	33.34	8.1	24.3	0.23
F23	25 May 2023	5	16.70	92.54	8.0	33.34	8.1	24.3	0.23
F23	25 May 2023	6	16.59	92.48	8.0	33.33	8.1	24.3	0.24
F23	25 May 2023	7	16.24	92.54	8.0	33.30	8.1	24.4	0.24
F23	25 May 2023	8	15.90	92.68	8.2	33.30	8.1	24.5	0.24
F23	25 May 2023	9	15.73	92.68	8.3	33.28	8.1	24.5	0.23
F23	25 May 2023	10	15.66	92.55	8.3	33.28	8.1	24.5	0.25
F23	25 May 2023	11	15.47	92.52	8.3	33.30	8.1	24.6	0.25
F23	25 May 2023	12	15.37	92.50	8.3	33.29	8.1	24.6	0.27
F23	25 May 2023	13	15.33	92.40	8.3	33.29	8.1	24.6	0.30
F23	25 May 2023	14	15.21	92.32	8.4	33.28	8.1	24.6	0.32
F23	25 May 2023	15	14.95	92.14	8.5	33.27	8.1	24.7	0.40
F23	25 May 2023	16	14.74	91.52	8.7	33.27	8.1	24.7	0.56
F23	25 May 2023	17	14.83	90.95	8.6	33.27	8.1	24.7	0.64
F23	25 May 2023	18	14.53	90.64	8.6	33.27	8.1	24.7	0.87
F23	25 May 2023	19	14.44	90.37	8.6	33.27	8.1	24.8	1.11
F23	25 May 2023	20	14.38	90.22	8.6	33.27	8.1	24.8	1.36
F23	25 May 2023	21	14.33	90.08	8.6	33.27	8.1	24.8	1.59
F23	25 May 2023	22	14.25	89.90	8.5	33.27	8.1	24.8	1.66
F23	25 May 2023	23	14.13	89.85	8.5	33.28	8.1	24.8	1.72
F23	25 May 2023	24	14.05	89.91	8.4	33.27	8.1	24.8	1.92
F23	25 May 2023	25	13.87	89.95	8.4	33.27	8.1	24.9	1.87
F23	25 May 2023	26	13.82	90.12	8.4	33.27	8.1	24.9	1.94
F23	25 May 2023	27	13.81	90.22	8.4	33.27	8.1	24.9	2.18
F23	25 May 2023	28	13.79	90.20	8.3	33.27	8.1	24.9	1.89
F23	25 May 2023	29	13.71	90.34	8.3	33.26	8.1	24.9	2.10
F23	25 May 2023	30	13.49	90.38	8.2	33.28	8.1	25.0	2.16
F23	25 May 2023	31	13.46	90.33	8.2	33.28	8.1	25.0	2.26
F23	25 May 2023	32	13.43	90.08	8.2	33.29	8.1	25.0	2.27
F23	25 May 2023	33	13.41	89.92	8.2	33.30	8.1	25.0	2.28
F23	25 May 2023	34	13.40	89.90	8.2	33.30	8.1	25.0	2.36
F23	25 May 2023	35	13.38	89.92	8.1	33.30	8.1	25.0	2.45
F23	25 May 2023	36	13.32	89.82	8.0	33.31	8.1	25.0	2.57
F23	25 May 2023	37	13.03	89.73	7.8	33.32	8.1	25.1	2.60
F23	25 May 2023	38	12.71	89.70	7.3	33.32	8.0	25.1	3.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F23	25 May 2023	39	12.49	89.96	6.9	33.33	8.0	25.2	2.31
F23	25 May 2023	40	12.24	90.64	6.8	33.34	8.0	25.3	1.84
F23	25 May 2023	41	12.32	91.55	6.8	33.33	8.0	25.2	1.56
F23	25 May 2023	42	11.91	91.66	6.6	33.34	8.0	25.3	1.30
F23	25 May 2023	43	11.80	92.40	6.5	33.34	8.0	25.3	1.25
F23	25 May 2023	44	11.77	92.67	6.5	33.34	7.9	25.3	1.14
F23	25 May 2023	45	11.74	92.74	6.5	33.34	7.9	25.3	1.18
F23	25 May 2023	46	11.69	92.78	6.5	33.34	7.9	25.4	1.08
F23	25 May 2023	47	11.66	92.73	6.5	33.34	7.9	25.4	1.13
F23	25 May 2023	48	11.63	92.70	6.5	33.34	7.9	25.4	1.14
F23	25 May 2023	49	11.55	92.73	6.5	33.34	7.9	25.4	1.02
F23	25 May 2023	50	11.48	92.81	6.5	33.35	7.9	25.4	0.95
F23	25 May 2023	51	11.40	92.96	6.4	33.35	7.9	25.4	0.95
F23	25 May 2023	52	11.21	93.17	6.4	33.35	7.9	25.5	0.86
F23	25 May 2023	53	11.08	93.21	6.3	33.37	7.9	25.5	0.73
F23	25 May 2023	54	11.04	93.30	6.3	33.38	7.9	25.5	0.68
F23	25 May 2023	55	11.02	93.36	6.3	33.38	7.9	25.5	0.63
F23	25 May 2023	56	11.01	93.45	6.2	33.38	7.9	25.5	0.63
F23	25 May 2023	57	11.00	93.47	6.1	33.40	7.9	25.5	0.64
F23	25 May 2023	58	11.01	93.42	6.0	33.42	7.9	25.5	0.64
F23	25 May 2023	59	10.95	93.33	5.8	33.44	7.9	25.6	0.66
F23	25 May 2023	60	10.95	93.30	5.8	33.45	7.9	25.6	0.59
F23	25 May 2023	61	10.97	93.46	5.6	33.47	7.9	25.6	0.54
F23	25 May 2023	62	10.99	93.37	5.5	33.48	7.9	25.6	0.54
F23	25 May 2023	63	11.00	93.17	5.5	33.50	7.8	25.6	0.52
F23	25 May 2023	64	10.94	93.38	5.4	33.50	7.8	25.6	0.49
F23	25 May 2023	65	10.89	93.43	5.3	33.54	7.8	25.7	0.47
F23	25 May 2023	66	10.89	93.44	5.2	33.56	7.8	25.7	0.47
F23	25 May 2023	67	10.92	93.31	5.0	33.59	7.8	25.7	0.44
F23	25 May 2023	68	10.93	92.77	4.9	33.60	7.8	25.7	0.44
F23	25 May 2023	69	10.93	92.76	4.9	33.60	7.8	25.7	0.46
F23	25 May 2023	70	10.95	92.76	4.9	33.61	7.8	25.7	0.53
F23	25 May 2023	71	10.96	92.57	4.9	33.61	7.8	25.7	0.47
F23	25 May 2023	72	10.96	92.39	4.9	33.61	7.8	25.7	0.48
F23	25 May 2023	73	10.98	92.19	4.8	33.62	7.8	25.7	0.45
F23	25 May 2023	74	10.99	91.86	4.8	33.62	7.8	25.7	0.47
F23	25 May 2023	75	10.95	91.73	4.6	33.64	7.8	25.7	0.46
F23	25 May 2023	76	10.83	91.00	4.4	33.67	7.8	25.8	0.43
F23	25 May 2023	77	10.83	88.79	4.4	33.67	7.8	25.8	0.41
F23	25 May 2023	78	10.70	88.96	4.3	33.69	7.8	25.8	0.37
F23	25 May 2023	79	10.62	89.43	4.3	33.70	7.8	25.8	0.32
F23	25 May 2023	80	10.57	90.09	4.3	33.70	7.8	25.8	0.30
F23	25 May 2023	81	10.56	90.63	4.3	33.70	7.8	25.8	0.28
F23	25 May 2023	82	10.56	90.49	4.3	33.70	7.8	25.8	0.28
F24	25 May 2023	1	16.67	92.50	8.0	33.34	8.1	24.3	0.23
F24	25 May 2023	2	16.67	92.57	8.0	33.34	8.1	24.3	0.23
F24	25 May 2023	3	16.65	92.54	8.0	33.34	8.1	24.3	0.24
F24	25 May 2023	4	16.65	92.56	8.0	33.34	8.1	24.3	0.26
F24	25 May 2023	5	16.65	92.60	8.0	33.34	8.1	24.3	0.26
F24	25 May 2023	6	16.29	92.60	8.0	33.32	8.1	24.4	0.26
F24	25 May 2023	7	15.98	92.66	8.2	33.30	8.1	24.4	0.25
F24	25 May 2023	8	15.78	92.71	8.2	33.30	8.1	24.5	0.25
F24	25 May 2023	9	15.68	92.62	8.2	33.29	8.1	24.5	0.25
F24	25 May 2023	10	15.62	92.55	8.3	33.29	8.1	24.5	0.26
F24	25 May 2023	11	15.58	92.52	8.3	33.29	8.1	24.5	0.27
F24	25 May 2023	12	15.40	92.44	8.3	33.29	8.1	24.6	0.29
F24	25 May 2023	13	15.17	92.38	8.4	33.30	8.1	24.6	0.32
F24	25 May 2023	14	14.83	92.22	8.5	33.30	8.1	24.7	0.50
F24	25 May 2023	15	14.64	91.60	8.6	33.29	8.1	24.7	0.79
F24	25 May 2023	16	14.51	91.00	8.6	33.29	8.1	24.8	1.02

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F24	25 May 2023	17	14.44	90.40	8.6	33.29	8.1	24.8	1.47
F24	25 May 2023	18	14.31	89.63	8.5	33.28	8.1	24.8	1.66
F24	25 May 2023	19	14.16	89.50	8.5	33.27	8.1	24.8	1.72
F24	25 May 2023	20	14.02	90.12	8.5	33.27	8.1	24.8	2.00
F24	25 May 2023	21	13.99	89.88	8.4	33.27	8.1	24.9	1.95
F24	25 May 2023	22	13.98	89.71	8.5	33.27	8.1	24.9	2.04
F24	25 May 2023	23	13.95	90.03	8.4	33.27	8.1	24.9	2.07
F24	25 May 2023	24	13.82	90.27	8.4	33.27	8.1	24.9	1.83
F24	25 May 2023	25	13.65	90.53	8.3	33.26	8.1	24.9	1.85
F24	25 May 2023	26	13.45	90.69	8.2	33.26	8.1	25.0	1.97
F24	25 May 2023	27	13.34	90.65	8.1	33.26	8.1	25.0	1.87
F24	25 May 2023	28	13.32	90.84	8.1	33.26	8.1	25.0	1.87
F24	25 May 2023	29	13.32	90.91	8.1	33.27	8.1	25.0	1.97
F24	25 May 2023	30	13.25	90.80	8.0	33.29	8.1	25.0	2.27
F24	25 May 2023	31	13.25	90.33	8.0	33.30	8.1	25.0	2.44
F24	25 May 2023	32	13.25	90.05	8.0	33.31	8.1	25.0	2.37
F24	25 May 2023	33	13.22	90.06	7.9	33.31	8.1	25.0	2.38
F24	25 May 2023	34	13.16	89.95	7.8	33.31	8.1	25.1	2.34
F24	25 May 2023	35	13.10	89.89	7.7	33.31	8.1	25.1	2.39
F24	25 May 2023	36	12.74	89.79	7.5	33.32	8.0	25.1	2.49
F24	25 May 2023	37	12.65	90.01	7.3	33.31	8.0	25.2	2.59
F24	25 May 2023	38	12.56	90.01	7.0	33.32	8.0	25.2	2.48
F24	25 May 2023	39	12.34	90.25	6.7	33.33	8.0	25.2	1.94
F24	25 May 2023	40	11.93	91.35	6.6	33.36	8.0	25.3	1.59
F24	25 May 2023	41	11.87	92.08	6.5	33.35	7.9	25.3	1.29
F24	25 May 2023	42	11.85	92.58	6.5	33.35	7.9	25.3	1.19
F24	25 May 2023	43	11.83	92.67	6.5	33.35	7.9	25.3	1.16
F24	25 May 2023	44	11.84	92.71	6.5	33.35	7.9	25.3	1.11
F24	25 May 2023	45	11.69	92.83	6.5	33.35	7.9	25.4	1.14
F24	25 May 2023	46	11.64	92.79	6.5	33.34	7.9	25.4	1.02
F24	25 May 2023	47	11.61	92.80	6.4	33.34	7.9	25.4	1.04
F24	25 May 2023	48	11.53	92.77	6.5	33.35	7.9	25.4	1.01
F24	25 May 2023	49	11.51	92.84	6.4	33.35	7.9	25.4	1.01
F24	25 May 2023	50	11.46	92.84	6.4	33.36	7.9	25.4	0.90
F24	25 May 2023	51	11.33	92.98	6.3	33.36	7.9	25.4	0.85
F24	25 May 2023	52	11.28	93.17	6.3	33.36	7.9	25.4	0.83
F24	25 May 2023	53	11.26	93.23	6.3	33.36	7.9	25.4	0.81
F24	25 May 2023	54	11.19	93.21	6.3	33.36	7.9	25.5	0.77
F24	25 May 2023	55	11.10	93.25	6.3	33.37	7.9	25.5	0.75
F24	25 May 2023	56	11.03	93.37	6.2	33.38	7.9	25.5	0.71
F24	25 May 2023	57	10.97	93.39	6.2	33.39	7.9	25.5	0.66
F24	25 May 2023	58	10.95	93.59	6.2	33.39	7.9	25.5	0.61
F24	25 May 2023	59	10.92	93.65	6.2	33.40	7.9	25.5	0.67
F24	25 May 2023	60	10.88	93.65	6.2	33.40	7.9	25.6	0.57
F24	25 May 2023	61	10.85	93.57	6.2	33.40	7.9	25.6	0.56
F24	25 May 2023	62	10.83	93.61	6.2	33.40	7.9	25.6	0.58
F24	25 May 2023	63	10.79	93.59	6.0	33.42	7.9	25.6	0.58
F24	25 May 2023	64	10.83	93.53	5.8	33.46	7.9	25.6	0.54
F24	25 May 2023	65	10.85	93.51	5.6	33.48	7.9	25.6	0.52
F24	25 May 2023	66	10.88	93.52	5.5	33.49	7.8	25.6	0.49
F24	25 May 2023	67	10.88	93.56	5.5	33.50	7.8	25.6	0.49
F24	25 May 2023	68	10.85	93.50	5.4	33.51	7.8	25.6	0.48
F24	25 May 2023	69	10.85	93.49	5.4	33.52	7.8	25.7	0.49
F24	25 May 2023	70	10.85	93.49	5.3	33.53	7.8	25.7	0.48
F24	25 May 2023	71	10.83	93.49	5.3	33.54	7.8	25.7	0.47
F24	25 May 2023	72	10.83	93.46	5.2	33.56	7.8	25.7	0.52
F24	25 May 2023	73	10.90	93.31	5.0	33.59	7.8	25.7	0.46
F24	25 May 2023	74	10.94	92.37	4.7	33.63	7.8	25.7	0.45
F24	25 May 2023	75	10.91	91.23	4.5	33.65	7.8	25.7	0.50
F24	25 May 2023	76	10.82	90.41	4.5	33.66	7.8	25.8	0.46
F24	25 May 2023	77	10.75	90.00	4.4	33.68	7.8	25.8	0.41

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
F24	25 May 2023	78	10.71	89.75	4.4	33.69	7.8	25.8	0.40
F24	25 May 2023	79	10.66	89.67	4.3	33.70	7.8	25.8	0.36
F24	25 May 2023	80	10.62	89.65	4.3	33.70	7.8	25.8	0.36
F24	25 May 2023	81	10.58	89.98	4.3	33.71	7.8	25.8	0.31
F24	25 May 2023	82	10.57	89.96	4.3	33.71	7.8	25.8	0.29
F24	25 May 2023	83	10.59	89.42	4.3	33.70	7.8	25.8	0.30
F25	25 May 2023	1	16.60	92.63	8.0	33.33	8.1	24.3	0.23
F25	25 May 2023	2	16.60	92.60	8.0	33.33	8.1	24.3	0.24
F25	25 May 2023	3	16.60	92.65	8.0	33.33	8.1	24.3	0.25
F25	25 May 2023	4	16.60	92.47	8.0	33.33	8.1	24.3	0.25
F25	25 May 2023	5	16.59	92.61	8.0	33.33	8.1	24.3	0.25
F25	25 May 2023	6	16.33	92.69	8.1	33.31	8.1	24.4	0.26
F25	25 May 2023	7	16.16	92.73	8.1	33.30	8.1	24.4	0.48
F25	25 May 2023	8	16.01	92.78	8.2	33.29	8.1	24.4	0.31
F25	25 May 2023	9	15.73	92.77	8.2	33.29	8.1	24.5	0.27
F25	25 May 2023	10	15.55	92.62	8.3	33.29	8.1	24.5	0.29
F25	25 May 2023	11	15.47	92.50	8.3	33.29	8.1	24.6	0.30
F25	25 May 2023	12	15.19	92.53	8.3	33.30	8.1	24.6	0.37
F25	25 May 2023	13	14.73	92.45	8.5	33.30	8.1	24.7	0.63
F25	25 May 2023	14	14.42	91.79	8.6	33.28	8.1	24.8	1.01
F25	25 May 2023	15	14.36	90.71	8.6	33.28	8.1	24.8	1.27
F25	25 May 2023	16	14.34	90.26	8.6	33.28	8.1	24.8	1.42
F25	25 May 2023	17	14.28	90.05	8.5	33.27	8.1	24.8	1.53
F25	25 May 2023	18	14.16	89.72	8.5	33.26	8.1	24.8	1.39
F25	25 May 2023	19	13.99	90.37	8.4	33.26	8.1	24.8	1.24
F25	25 May 2023	20	13.85	91.49	8.4	33.25	8.1	24.9	1.22
F25	25 May 2023	21	13.76	91.75	8.4	33.25	8.1	24.9	1.37
F25	25 May 2023	22	13.71	91.46	8.3	33.26	8.1	24.9	1.54
F25	25 May 2023	23	13.64	91.14	8.3	33.26	8.1	24.9	1.58
F25	25 May 2023	24	13.54	91.07	8.3	33.25	8.1	24.9	1.52
F25	25 May 2023	25	13.51	91.43	8.2	33.26	8.1	24.9	1.50
F25	25 May 2023	26	13.40	91.30	8.2	33.26	8.1	25.0	1.65
F25	25 May 2023	27	13.28	90.98	8.1	33.29	8.1	25.0	1.92
F25	25 May 2023	28	13.29	90.64	8.0	33.30	8.1	25.0	2.12
F25	25 May 2023	29	13.25	90.31	8.0	33.30	8.1	25.0	2.20
F25	25 May 2023	30	13.21	90.23	8.0	33.30	8.1	25.0	2.28
F25	25 May 2023	31	13.21	90.39	7.9	33.31	8.1	25.0	2.27
F25	25 May 2023	32	13.13	90.32	7.8	33.32	8.0	25.1	2.38
F25	25 May 2023	33	13.05	90.11	7.6	33.33	8.0	25.1	2.55
F25	25 May 2023	34	13.00	90.11	7.5	33.33	8.0	25.1	2.50
F25	25 May 2023	35	12.82	90.29	7.3	33.33	8.0	25.1	2.33
F25	25 May 2023	36	12.67	90.67	7.2	33.33	8.0	25.2	2.38
F25	25 May 2023	37	12.59	90.92	7.1	33.33	8.0	25.2	2.28
F25	25 May 2023	38	12.46	91.14	6.9	33.34	8.0	25.2	1.93
F25	25 May 2023	39	12.26	91.45	6.8	33.34	8.0	25.3	1.67
F25	25 May 2023	40	12.00	91.86	6.6	33.35	8.0	25.3	1.47
F25	25 May 2023	41	11.89	92.25	6.5	33.35	7.9	25.3	1.27
F25	25 May 2023	42	11.77	92.68	6.4	33.37	7.9	25.4	1.21
F25	25 May 2023	43	11.72	92.86	6.4	33.37	7.9	25.4	1.06
F25	25 May 2023	44	11.61	92.95	6.4	33.37	7.9	25.4	1.00
F25	25 May 2023	45	11.57	93.00	6.3	33.38	7.9	25.4	0.89
F25	25 May 2023	46	11.54	93.09	6.3	33.39	7.9	25.4	0.78
F25	25 May 2023	47	11.53	93.25	6.3	33.40	7.9	25.4	0.75
F25	25 May 2023	48	11.50	93.39	6.3	33.40	7.9	25.4	0.68
F25	25 May 2023	49	11.50	93.42	6.3	33.40	7.9	25.4	0.65
F25	25 May 2023	50	11.49	93.37	6.2	33.40	7.9	25.4	0.65
F25	25 May 2023	51	11.36	93.44	6.2	33.41	7.9	25.5	0.64
F25	25 May 2023	52	11.26	93.47	6.1	33.42	7.9	25.5	0.64
F25	25 May 2023	53	11.21	93.55	6.1	33.42	7.9	25.5	0.58
F25	25 May 2023	54	11.18	93.56	6.0	33.43	7.9	25.5	0.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F25	25 May 2023	55	11.15	93.61	6.0	33.43	7.9	25.5	0.55
F25	25 May 2023	56	11.14	93.62	6.0	33.43	7.9	25.5	0.54
F25	25 May 2023	57	11.12	93.63	6.0	33.43	7.9	25.5	0.54
F25	25 May 2023	58	11.10	93.61	6.0	33.43	7.9	25.5	0.54
F25	25 May 2023	59	11.05	93.66	6.1	33.42	7.9	25.5	0.56
F25	25 May 2023	60	10.99	93.64	6.1	33.42	7.9	25.5	0.53
F25	25 May 2023	61	10.94	93.50	6.1	33.42	7.9	25.6	0.55
F25	25 May 2023	62	10.86	93.54	6.1	33.42	7.9	25.6	0.53
F25	25 May 2023	63	10.81	93.61	6.0	33.42	7.9	25.6	0.52
F25	25 May 2023	64	10.80	93.60	5.9	33.44	7.9	25.6	0.53
F25	25 May 2023	65	10.85	93.40	5.7	33.46	7.9	25.6	0.53
F25	25 May 2023	66	10.88	93.46	5.6	33.48	7.8	25.6	0.52
F25	25 May 2023	67	10.87	93.39	5.5	33.50	7.8	25.6	0.57
F25	25 May 2023	68	10.81	93.44	5.5	33.51	7.8	25.6	0.50
F25	25 May 2023	69	10.78	93.56	5.5	33.50	7.8	25.6	0.43
F25	25 May 2023	70	10.75	93.58	5.5	33.50	7.8	25.7	0.46
F25	25 May 2023	71	10.75	93.59	5.5	33.51	7.8	25.7	0.47
F25	25 May 2023	72	10.75	93.61	5.4	33.53	7.8	25.7	0.46
F25	25 May 2023	73	10.77	93.58	5.0	33.59	7.8	25.7	0.42
F25	25 May 2023	74	10.68	93.01	4.7	33.65	7.8	25.8	0.39
F25	25 May 2023	75	10.62	92.06	4.5	33.67	7.8	25.8	0.39
F25	25 May 2023	76	10.56	91.80	4.4	33.69	7.8	25.8	0.34
F25	25 May 2023	77	10.51	91.99	4.3	33.70	7.8	25.9	0.30
F25	25 May 2023	78	10.49	92.10	4.2	33.71	7.8	25.9	0.31
F25	25 May 2023	79	10.47	92.00	4.2	33.71	7.7	25.9	0.28
F25	25 May 2023	80	10.47	91.67	4.2	33.71	7.7	25.9	0.24
F25	25 May 2023	81	10.49	80.98	4.2	33.71	7.7	25.9	0.26
F26	23 May 2023	1	17.17	92.44	8.2	33.43	8.2	24.3	0.26
F26	23 May 2023	2	17.15	92.43	8.2	33.43	8.2	24.3	0.27
F26	23 May 2023	3	17.06	92.40	8.3	33.43	8.2	24.3	0.28
F26	23 May 2023	4	16.93	92.40	8.3	33.42	8.2	24.3	0.29
F26	23 May 2023	5	16.68	92.32	8.5	33.42	8.2	24.4	0.32
F26	23 May 2023	6	16.53	91.95	8.6	33.41	8.2	24.4	0.36
F26	23 May 2023	7	16.39	91.49	8.6	33.41	8.2	24.4	0.39
F26	23 May 2023	8	16.21	91.32	8.5	33.39	8.2	24.5	0.37
F26	23 May 2023	9	16.09	91.24	8.4	33.37	8.2	24.5	0.38
F26	23 May 2023	10	15.91	91.10	8.4	33.36	8.2	24.5	0.37
F26	23 May 2023	11	15.77	91.66	8.4	33.35	8.2	24.5	0.36
F26	23 May 2023	12	15.66	91.87	8.4	33.35	8.2	24.6	0.38
F26	23 May 2023	13	15.54	91.81	8.4	33.35	8.2	24.6	0.40
F26	23 May 2023	14	15.02	91.71	8.5	33.34	8.2	24.7	0.48
F26	23 May 2023	15	14.64	91.35	8.5	33.32	8.2	24.8	0.66
F26	23 May 2023	16	14.53	90.82	8.5	33.31	8.2	24.8	0.87
F26	23 May 2023	17	14.47	90.45	8.5	33.31	8.2	24.8	1.04
F26	23 May 2023	18	14.20	90.37	8.4	33.30	8.2	24.8	1.20
F26	23 May 2023	19	14.09	90.39	8.3	33.30	8.2	24.9	1.29
F26	23 May 2023	20	14.02	90.73	8.3	33.30	8.2	24.9	1.33
F26	23 May 2023	21	13.87	91.06	8.3	33.30	8.2	24.9	1.35
F26	23 May 2023	22	13.77	91.20	8.2	33.29	8.1	24.9	1.42
F26	23 May 2023	23	13.69	91.24	8.2	33.29	8.1	24.9	1.45
F26	23 May 2023	24	13.62	91.25	8.1	33.29	8.1	24.9	1.54
F26	23 May 2023	25	13.48	91.25	8.0	33.29	8.1	25.0	1.62
F26	23 May 2023	26	13.38	91.17	7.9	33.30	8.1	25.0	1.68
F26	23 May 2023	27	13.35	91.22	7.8	33.30	8.1	25.0	1.79
F26	23 May 2023	28	13.27	91.34	7.8	33.30	8.1	25.0	1.95
F26	23 May 2023	29	13.22	91.37	7.7	33.30	8.1	25.0	1.82
F26	23 May 2023	30	13.18	91.12	7.6	33.30	8.1	25.0	1.99
F26	23 May 2023	31	13.13	90.98	7.6	33.30	8.1	25.1	2.15
F26	23 May 2023	32	12.90	90.87	7.4	33.31	8.1	25.1	2.15
F26	23 May 2023	33	12.61	90.81	7.1	33.31	8.1	25.2	2.10

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F26	23 May 2023	34	12.39	90.90	6.9	33.32	8.0	25.2	2.08
F26	23 May 2023	35	12.33	91.10	6.8	33.33	8.0	25.2	2.23
F26	23 May 2023	36	12.20	91.17	6.7	33.34	8.0	25.3	1.90
F26	23 May 2023	37	12.05	91.30	6.6	33.36	8.0	25.3	1.78
F26	23 May 2023	38	12.00	91.61	6.5	33.36	8.0	25.3	1.64
F26	23 May 2023	39	11.93	91.84	6.4	33.37	8.0	25.3	1.53
F26	23 May 2023	40	11.87	92.01	6.3	33.39	8.0	25.4	1.51
F26	23 May 2023	41	11.81	92.12	6.3	33.40	8.0	25.4	1.35
F26	23 May 2023	42	11.76	92.01	6.2	33.41	8.0	25.4	1.37
F26	23 May 2023	43	11.70	92.12	6.2	33.41	8.0	25.4	1.12
F26	23 May 2023	44	11.36	92.47	6.2	33.38	8.0	25.5	1.08
F26	23 May 2023	45	11.20	92.83	6.3	33.36	8.0	25.5	0.87
F26	23 May 2023	46	11.14	93.04	6.3	33.35	8.0	25.5	0.85
F26	23 May 2023	47	11.07	93.14	6.2	33.36	8.0	25.5	0.79
F26	23 May 2023	48	10.96	93.08	6.1	33.40	8.0	25.5	0.75
F26	23 May 2023	49	10.92	93.36	5.9	33.43	7.9	25.6	0.72
F26	23 May 2023	50	10.96	93.50	5.7	33.46	7.9	25.6	0.66
F26	23 May 2023	51	10.99	93.54	5.6	33.47	7.9	25.6	0.62
F26	23 May 2023	52	11.00	93.55	5.6	33.48	7.9	25.6	0.62
F26	23 May 2023	53	11.02	93.49	5.5	33.51	7.9	25.6	0.56
F26	23 May 2023	54	10.96	93.53	5.5	33.51	7.9	25.6	0.58
F26	23 May 2023	55	10.92	93.55	5.4	33.52	7.9	25.6	0.60
F26	23 May 2023	56	10.90	93.59	5.3	33.54	7.9	25.7	0.53
F26	23 May 2023	57	10.89	93.53	5.2	33.55	7.9	25.7	0.48
F26	23 May 2023	58	10.89	93.57	5.2	33.56	7.9	25.7	0.45
F26	23 May 2023	59	10.87	93.65	5.2	33.57	7.9	25.7	0.43
F26	23 May 2023	60	10.84	93.72	5.1	33.59	7.9	25.7	0.43
F26	23 May 2023	61	10.82	93.72	5.1	33.59	7.9	25.7	0.42
F26	23 May 2023	62	10.80	93.73	5.0	33.60	7.9	25.7	0.40
F26	23 May 2023	63	10.77	93.74	5.0	33.61	7.9	25.7	0.44
F26	23 May 2023	64	10.76	93.75	5.0	33.61	7.9	25.7	0.40
F26	23 May 2023	65	10.76	93.80	5.0	33.62	7.9	25.7	0.44
F26	23 May 2023	66	10.74	93.75	4.9	33.64	7.8	25.8	0.39
F26	23 May 2023	67	10.73	93.65	4.8	33.65	7.8	25.8	0.37
F26	23 May 2023	68	10.73	93.63	4.8	33.66	7.8	25.8	0.38
F26	23 May 2023	69	10.72	93.61	4.7	33.67	7.8	25.8	0.39
F26	23 May 2023	70	10.70	93.55	4.6	33.69	7.8	25.8	0.39
F26	23 May 2023	71	10.68	93.39	4.5	33.70	7.8	25.8	0.38
F26	23 May 2023	72	10.65	93.20	4.4	33.72	7.8	25.8	0.35
F26	23 May 2023	73	10.62	93.27	4.3	33.73	7.8	25.9	0.35
F26	23 May 2023	74	10.64	93.15	4.2	33.74	7.8	25.9	0.34
F26	23 May 2023	75	10.64	92.28	4.0	33.75	7.8	25.9	0.36
F26	23 May 2023	76	10.63	91.71	3.9	33.76	7.8	25.9	0.38
F26	23 May 2023	77	10.61	91.45	3.9	33.77	7.8	25.9	0.44
F26	23 May 2023	78	10.59	91.37	3.8	33.77	7.8	25.9	0.39
F26	23 May 2023	79	10.58	91.31	3.8	33.78	7.8	25.9	0.37
F26	23 May 2023	80	10.57	91.13	3.8	33.78	7.8	25.9	0.36
F26	23 May 2023	81	10.53	90.95	3.8	33.78	7.8	25.9	0.33
F26	23 May 2023	82	10.49	91.37	3.9	33.78	7.8	25.9	0.31
F26	23 May 2023	83	10.46	92.24	4.0	33.79	7.8	25.9	0.29
F26	23 May 2023	84	10.45	92.46	3.9	33.79	7.8	25.9	0.28
F26	23 May 2023	85	10.44	92.11	3.8	33.80	7.8	25.9	0.29
F26	23 May 2023	86	10.42	91.74	3.8	33.81	7.8	26.0	0.27
F26	23 May 2023	87	10.40	91.67	3.7	33.82	7.8	26.0	0.29
F26	23 May 2023	88	10.38	91.68	3.7	33.82	7.8	26.0	0.28
F26	23 May 2023	89	10.37	91.76	3.6	33.83	7.8	26.0	0.28
F26	23 May 2023	90	10.34	91.59	3.6	33.84	7.8	26.0	0.28
F26	23 May 2023	91	10.32	91.48	3.6	33.84	7.8	26.0	0.25
F26	23 May 2023	92	10.30	91.22	3.6	33.84	7.8	26.0	0.24
F26	23 May 2023	93	10.30	90.84	3.6	33.84	7.8	26.0	0.26
F26	23 May 2023	94	10.30	90.52	3.6	33.84	7.8	26.0	0.25

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
F26	23 May 2023	95	10.30	90.45	3.6	33.84	7.8	26.0	0.25
F26	23 May 2023	96	10.30	90.58	3.6	33.84	7.8	26.0	0.28
F26	23 May 2023	97	10.30	90.58	3.6	33.84	7.8	26.0	0.27
F26	23 May 2023	98	10.29	90.40	3.6	33.84	7.8	26.0	0.26
F26	23 May 2023	99	10.29	90.36	3.6	33.84	7.8	26.0	0.28
F26	23 May 2023	100	10.30	90.13	3.6	33.84	7.7	26.0	0.30
F27	23 May 2023	1	17.09	92.35	8.2	33.42	8.2	24.3	0.28
F27	23 May 2023	2	17.08	92.45	8.2	33.42	8.2	24.3	0.30
F27	23 May 2023	3	17.07	92.43	8.2	33.42	8.2	24.3	0.31
F27	23 May 2023	4	17.06	92.48	8.3	33.42	8.2	24.3	0.33
F27	23 May 2023	5	17.03	92.43	8.3	33.42	8.2	24.3	0.34
F27	23 May 2023	6	16.96	92.39	8.3	33.42	8.2	24.3	0.35
F27	23 May 2023	7	16.68	92.35	8.4	33.42	8.2	24.4	0.37
F27	23 May 2023	8	16.42	92.00	8.4	33.40	8.2	24.4	0.39
F27	23 May 2023	9	16.24	91.78	8.4	33.38	8.2	24.5	0.41
F27	23 May 2023	10	16.12	91.53	8.4	33.37	8.2	24.5	0.41
F27	23 May 2023	11	15.85	91.57	8.4	33.35	8.2	24.5	0.41
F27	23 May 2023	12	15.77	91.67	8.4	33.34	8.2	24.5	0.42
F27	23 May 2023	13	15.69	91.63	8.4	33.34	8.2	24.5	0.43
F27	23 May 2023	14	15.60	91.62	8.4	33.34	8.2	24.6	0.45
F27	23 May 2023	15	15.41	91.62	8.5	33.35	8.2	24.6	0.49
F27	23 May 2023	16	15.25	91.68	8.5	33.33	8.2	24.6	0.56
F27	23 May 2023	17	15.05	91.38	8.5	33.33	8.2	24.7	0.68
F27	23 May 2023	18	14.88	90.99	8.4	33.32	8.2	24.7	0.90
F27	23 May 2023	19	14.57	90.69	8.5	33.32	8.2	24.8	1.12
F27	23 May 2023	20	14.33	90.24	8.4	33.31	8.2	24.8	1.26
F27	23 May 2023	21	14.19	90.83	8.4	33.31	8.2	24.8	1.23
F27	23 May 2023	22	14.11	91.30	8.4	33.30	8.2	24.9	1.24
F27	23 May 2023	23	14.09	91.35	8.4	33.30	8.2	24.9	1.31
F27	23 May 2023	24	14.06	91.25	8.4	33.30	8.2	24.9	1.42
F27	23 May 2023	25	14.02	91.17	8.4	33.30	8.2	24.9	1.53
F27	23 May 2023	26	13.98	91.04	8.3	33.30	8.2	24.9	1.63
F27	23 May 2023	27	13.90	90.82	8.3	33.30	8.1	24.9	1.76
F27	23 May 2023	28	13.86	90.77	8.3	33.30	8.1	24.9	1.89
F27	23 May 2023	29	13.75	90.71	8.2	33.30	8.1	24.9	1.91
F27	23 May 2023	30	13.63	90.63	8.1	33.30	8.1	24.9	2.10
F27	23 May 2023	31	13.48	90.76	8.0	33.30	8.1	25.0	1.99
F27	23 May 2023	32	13.41	90.86	7.8	33.30	8.1	25.0	2.07
F27	23 May 2023	33	13.25	91.07	7.8	33.31	8.1	25.0	1.96
F27	23 May 2023	34	13.16	91.12	7.6	33.31	8.1	25.0	1.98
F27	23 May 2023	35	12.91	91.23	7.3	33.31	8.1	25.1	1.98
F27	23 May 2023	36	12.51	91.19	7.0	33.32	8.1	25.2	1.94
F27	23 May 2023	37	12.25	91.34	6.8	33.33	8.0	25.2	1.86
F27	23 May 2023	38	12.04	91.71	6.6	33.32	8.0	25.3	1.62
F27	23 May 2023	39	11.89	91.86	6.5	33.33	8.0	25.3	1.56
F27	23 May 2023	40	11.79	92.05	6.5	33.34	8.0	25.3	1.36
F27	23 May 2023	41	11.72	92.33	6.4	33.34	8.0	25.4	1.28
F27	23 May 2023	42	11.76	92.43	6.3	33.37	8.0	25.4	1.19
F27	23 May 2023	43	11.44	92.34	6.3	33.35	8.0	25.4	1.16
F27	23 May 2023	44	11.29	92.61	6.3	33.34	8.0	25.4	1.01
F27	23 May 2023	45	11.24	93.02	6.4	33.34	8.0	25.4	0.91
F27	23 May 2023	46	11.23	93.12	6.3	33.34	8.0	25.4	0.86
F27	23 May 2023	47	11.18	93.21	6.3	33.36	8.0	25.5	0.93
F27	23 May 2023	48	11.14	93.23	6.2	33.37	8.0	25.5	0.92
F27	23 May 2023	49	11.07	93.14	6.2	33.37	8.0	25.5	0.83
F27	23 May 2023	50	10.89	93.24	6.2	33.37	8.0	25.5	0.77
F27	23 May 2023	51	10.77	93.35	6.1	33.39	8.0	25.6	0.66
F27	23 May 2023	52	10.76	93.52	6.0	33.42	7.9	25.6	0.59
F27	23 May 2023	53	10.76	93.60	5.9	33.43	7.9	25.6	0.56
F27	23 May 2023	54	10.79	93.75	5.8	33.45	7.9	25.6	0.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F27	23 May 2023	55	10.81	93.69	5.6	33.47	7.9	25.6	0.52
F27	23 May 2023	56	10.82	93.71	5.4	33.53	7.9	25.7	0.50
F27	23 May 2023	57	10.79	93.76	5.3	33.55	7.9	25.7	0.44
F27	23 May 2023	58	10.78	93.82	5.3	33.55	7.9	25.7	0.42
F27	23 May 2023	59	10.77	93.83	5.3	33.55	7.9	25.7	0.43
F27	23 May 2023	60	10.76	93.84	5.3	33.55	7.9	25.7	0.42
F27	23 May 2023	61	10.74	93.87	5.3	33.55	7.9	25.7	0.41
F27	23 May 2023	62	10.70	93.85	5.2	33.56	7.9	25.7	0.41
F27	23 May 2023	63	10.63	93.88	5.1	33.61	7.9	25.8	0.41
F27	23 May 2023	64	10.63	93.94	5.0	33.62	7.9	25.8	0.37
F27	23 May 2023	65	10.64	93.97	5.0	33.63	7.9	25.8	0.37
F27	23 May 2023	66	10.64	93.93	5.0	33.63	7.9	25.8	0.35
F27	23 May 2023	67	10.64	93.92	5.0	33.63	7.9	25.8	0.34
F27	23 May 2023	68	10.65	93.93	4.9	33.63	7.8	25.8	0.35
F27	23 May 2023	69	10.66	93.88	4.7	33.66	7.8	25.8	0.34
F27	23 May 2023	70	10.67	93.43	4.5	33.71	7.8	25.8	0.36
F27	23 May 2023	71	10.66	92.92	4.3	33.72	7.8	25.8	0.35
F27	23 May 2023	72	10.61	92.59	4.1	33.75	7.8	25.9	0.34
F27	23 May 2023	73	10.60	92.19	4.0	33.76	7.8	25.9	0.37
F27	23 May 2023	74	10.60	91.91	3.9	33.77	7.8	25.9	0.35
F27	23 May 2023	75	10.59	91.49	3.8	33.78	7.8	25.9	0.37
F27	23 May 2023	76	10.58	91.02	3.7	33.78	7.8	25.9	0.40
F27	23 May 2023	77	10.57	90.89	3.7	33.78	7.8	25.9	0.34
F27	23 May 2023	78	10.56	90.85	3.7	33.79	7.8	25.9	0.35
F27	23 May 2023	79	10.56	90.79	3.7	33.79	7.8	25.9	0.37
F27	23 May 2023	80	10.56	90.83	3.7	33.79	7.8	25.9	0.34
F27	23 May 2023	81	10.55	90.80	3.7	33.79	7.8	25.9	0.36
F27	23 May 2023	82	10.53	90.78	3.7	33.79	7.8	25.9	0.35
F27	23 May 2023	83	10.52	90.78	3.7	33.80	7.8	25.9	0.34
F27	23 May 2023	84	10.46	90.87	3.8	33.80	7.8	25.9	0.30
F27	23 May 2023	85	10.43	91.33	3.8	33.80	7.8	25.9	0.32
F27	23 May 2023	86	10.42	91.83	3.8	33.80	7.8	25.9	0.28
F27	23 May 2023	87	10.40	91.82	3.7	33.81	7.8	26.0	0.31
F27	23 May 2023	88	10.39	91.69	3.7	33.82	7.8	26.0	0.27
F27	23 May 2023	89	10.38	91.71	3.7	33.82	7.8	26.0	0.26
F27	23 May 2023	90	10.35	91.72	3.7	33.83	7.8	26.0	0.27
F27	23 May 2023	91	10.33	91.42	3.6	33.83	7.8	26.0	0.26
F27	23 May 2023	92	10.32	90.89	3.6	33.83	7.8	26.0	0.25
F27	23 May 2023	93	10.31	90.59	3.6	33.84	7.8	26.0	0.27
F27	23 May 2023	94	10.31	90.54	3.6	33.84	7.8	26.0	0.27
F27	23 May 2023	95	10.30	90.21	3.6	33.84	7.8	26.0	0.27
F27	23 May 2023	96	10.28	89.76	3.6	33.84	7.8	26.0	0.25
F27	23 May 2023	97	10.27	89.50	3.6	33.85	7.7	26.0	0.26
F27	23 May 2023	98	10.26	89.29	3.5	33.85	7.7	26.0	0.25
F27	23 May 2023	99	10.24	89.19	3.5	33.86	7.7	26.0	0.24
F27	23 May 2023	100	10.20	89.45	3.5	33.88	7.7	26.0	0.25
F27	23 May 2023	101	10.23	86.26	3.5	33.86	7.7	26.0	0.25
F28	23 May 2023	1	17.18	92.23	8.3	33.44	8.2	24.3	0.31
F28	23 May 2023	2	17.17	92.20	8.3	33.44	8.2	24.3	0.33
F28	23 May 2023	3	17.08	92.22	8.4	33.44	8.2	24.3	0.35
F28	23 May 2023	4	16.87	92.11	8.5	33.44	8.2	24.3	0.40
F28	23 May 2023	5	16.76	91.70	8.6	33.44	8.2	24.4	0.46
F28	23 May 2023	6	16.60	91.38	8.7	33.43	8.2	24.4	0.47
F28	23 May 2023	7	16.52	91.28	8.6	33.42	8.2	24.4	0.49
F28	23 May 2023	8	16.35	91.34	8.6	33.42	8.2	24.5	0.52
F28	23 May 2023	9	16.04	91.16	8.7	33.41	8.2	24.5	0.63
F28	23 May 2023	10	15.69	91.02	8.7	33.39	8.2	24.6	0.66
F28	23 May 2023	11	15.49	91.07	8.6	33.37	8.2	24.6	0.66
F28	23 May 2023	12	14.95	91.06	8.5	33.34	8.2	24.7	0.68
F28	23 May 2023	13	14.80	91.17	8.5	33.32	8.2	24.7	0.72

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F28	23 May 2023	14	14.70	91.24	8.5	33.31	8.2	24.7	0.79
F28	23 May 2023	15	14.62	91.28	8.5	33.31	8.2	24.8	0.91
F28	23 May 2023	16	14.34	90.99	8.4	33.31	8.2	24.8	1.11
F28	23 May 2023	17	14.11	90.71	8.4	33.30	8.2	24.9	1.37
F28	23 May 2023	18	14.07	90.36	8.3	33.30	8.2	24.9	1.59
F28	23 May 2023	19	13.98	90.26	8.3	33.30	8.2	24.9	1.81
F28	23 May 2023	20	13.75	90.08	8.3	33.29	8.1	24.9	1.98
F28	23 May 2023	21	13.69	89.92	8.2	33.29	8.1	24.9	2.16
F28	23 May 2023	22	13.63	90.05	8.2	33.29	8.1	24.9	2.28
F28	23 May 2023	23	13.50	90.14	8.1	33.29	8.1	25.0	2.38
F28	23 May 2023	24	13.36	90.26	8.0	33.29	8.1	25.0	2.36
F28	23 May 2023	25	13.21	90.27	7.9	33.30	8.1	25.0	2.34
F28	23 May 2023	26	13.08	90.53	7.7	33.30	8.1	25.1	2.27
F28	23 May 2023	27	13.05	90.70	7.6	33.30	8.1	25.1	2.05
F28	23 May 2023	28	13.00	91.39	7.5	33.30	8.1	25.1	1.76
F28	23 May 2023	29	12.92	91.75	7.4	33.31	8.1	25.1	1.62
F28	23 May 2023	30	12.84	91.98	7.4	33.31	8.1	25.1	1.55
F28	23 May 2023	31	12.76	92.13	7.2	33.31	8.1	25.1	1.44
F28	23 May 2023	32	12.66	92.37	7.1	33.31	8.1	25.2	1.34
F28	23 May 2023	33	12.52	92.59	7.1	33.32	8.0	25.2	1.27
F28	23 May 2023	34	12.36	92.81	7.0	33.33	8.0	25.2	1.10
F28	23 May 2023	35	12.30	93.11	6.9	33.33	8.0	25.2	1.04
F28	23 May 2023	36	12.20	93.26	6.8	33.33	8.0	25.3	1.00
F28	23 May 2023	37	12.07	93.12	6.7	33.33	8.0	25.3	1.09
F28	23 May 2023	38	11.93	92.68	6.6	33.33	8.0	25.3	1.21
F28	23 May 2023	39	11.81	92.63	6.5	33.33	8.0	25.3	1.12
F28	23 May 2023	40	11.66	92.74	6.5	33.33	8.0	25.4	1.04
F28	23 May 2023	41	11.47	92.92	6.5	33.33	8.0	25.4	0.94
F28	23 May 2023	42	11.41	92.99	6.5	33.33	8.0	25.4	0.89
F28	23 May 2023	43	11.41	92.94	6.4	33.33	8.0	25.4	0.89
F28	23 May 2023	44	11.42	92.96	6.3	33.35	8.0	25.4	0.88
F28	23 May 2023	45	11.29	92.99	6.4	33.34	8.0	25.4	0.86
F28	23 May 2023	46	11.23	93.11	6.4	33.34	8.0	25.4	0.85
F28	23 May 2023	47	11.14	93.16	6.4	33.35	8.0	25.5	0.80
F28	23 May 2023	48	11.08	93.17	6.3	33.35	8.0	25.5	0.76
F28	23 May 2023	49	11.00	93.22	6.3	33.35	8.0	25.5	0.79
F28	23 May 2023	50	10.89	93.29	6.3	33.36	8.0	25.5	0.68
F28	23 May 2023	51	10.84	93.46	6.2	33.37	8.0	25.5	0.64
F28	23 May 2023	52	10.79	93.54	6.1	33.39	8.0	25.6	0.59
F28	23 May 2023	53	10.72	93.55	6.0	33.42	7.9	25.6	0.58
F28	23 May 2023	54	10.71	93.67	5.9	33.43	7.9	25.6	0.55
F28	23 May 2023	55	10.70	93.65	5.8	33.45	7.9	25.6	0.50
F28	23 May 2023	56	10.70	93.78	5.7	33.47	7.9	25.6	0.47
F28	23 May 2023	57	10.68	93.85	5.5	33.52	7.9	25.7	0.44
F28	23 May 2023	58	10.67	93.89	5.4	33.53	7.9	25.7	0.41
F28	23 May 2023	59	10.66	93.90	5.4	33.54	7.9	25.7	0.40
F28	23 May 2023	60	10.63	93.95	5.3	33.56	7.9	25.7	0.39
F28	23 May 2023	61	10.63	93.95	5.2	33.57	7.9	25.7	0.38
F28	23 May 2023	62	10.60	93.97	5.1	33.61	7.9	25.8	0.36
F28	23 May 2023	63	10.59	93.96	4.9	33.65	7.9	25.8	0.32
F28	23 May 2023	64	10.59	93.97	4.8	33.65	7.8	25.8	0.32
F28	23 May 2023	65	10.59	93.95	4.8	33.65	7.8	25.8	0.35
F28	23 May 2023	66	10.59	93.95	4.8	33.66	7.8	25.8	0.31
F28	23 May 2023	67	10.57	93.97	4.8	33.67	7.8	25.8	0.31
F28	23 May 2023	68	10.57	93.93	4.7	33.68	7.8	25.8	0.32
F28	23 May 2023	69	10.57	93.92	4.6	33.70	7.8	25.8	0.32
F28	23 May 2023	70	10.57	93.83	4.6	33.70	7.8	25.8	0.32
F28	23 May 2023	71	10.57	93.78	4.5	33.71	7.8	25.8	0.30
F28	23 May 2023	72	10.57	93.74	4.5	33.71	7.8	25.8	0.31
F28	23 May 2023	73	10.57	93.81	4.4	33.72	7.8	25.9	0.30
F28	23 May 2023	74	10.56	93.65	4.4	33.73	7.8	25.9	0.30

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F28	23 May 2023	75	10.56	93.55	4.2	33.74	7.8	25.9	0.36
F28	23 May 2023	76	10.55	93.28	4.1	33.76	7.8	25.9	0.30
F28	23 May 2023	77	10.54	92.93	4.0	33.77	7.8	25.9	0.30
F28	23 May 2023	78	10.54	92.62	4.0	33.77	7.8	25.9	0.34
F28	23 May 2023	79	10.53	92.36	3.9	33.78	7.8	25.9	0.31
F28	23 May 2023	80	10.50	92.02	3.9	33.78	7.8	25.9	0.30
F28	23 May 2023	81	10.48	92.06	3.8	33.79	7.8	25.9	0.29
F28	23 May 2023	82	10.49	92.05	3.8	33.80	7.8	25.9	0.32
F28	23 May 2023	83	10.47	91.64	3.7	33.80	7.8	25.9	0.28
F28	23 May 2023	84	10.43	91.46	3.7	33.81	7.8	25.9	0.28
F28	23 May 2023	85	10.40	91.74	3.7	33.81	7.8	26.0	0.28
F28	23 May 2023	86	10.37	91.93	3.7	33.82	7.8	26.0	0.28
F28	23 May 2023	87	10.36	92.05	3.8	33.82	7.8	26.0	0.27
F28	23 May 2023	88	10.34	92.01	3.7	33.83	7.8	26.0	0.25
F28	23 May 2023	89	10.33	92.00	3.7	33.83	7.8	26.0	0.25
F28	23 May 2023	90	10.32	91.97	3.7	33.83	7.8	26.0	0.24
F28	23 May 2023	91	10.29	91.88	3.7	33.84	7.8	26.0	0.24
F28	23 May 2023	92	10.26	91.64	3.6	33.85	7.8	26.0	0.24
F28	23 May 2023	93	10.24	91.61	3.6	33.86	7.7	26.0	0.23
F28	23 May 2023	94	10.22	91.56	3.6	33.86	7.7	26.0	0.22
F28	23 May 2023	95	10.22	91.51	3.5	33.86	7.7	26.0	0.23
F28	23 May 2023	96	10.21	91.45	3.5	33.86	7.7	26.0	0.22
F28	23 May 2023	97	10.19	91.34	3.5	33.87	7.7	26.0	0.22
F28	23 May 2023	98	10.18	91.49	3.5	33.87	7.7	26.0	0.22
F28	23 May 2023	99	10.09	91.65	3.4	33.91	7.7	26.1	0.21
F28	23 May 2023	100	10.06	91.32	3.3	33.93	7.7	26.1	0.20
F28	23 May 2023	101	10.06	90.88	3.2	33.93	7.7	26.1	0.22
F29	23 May 2023	1	17.20	91.84	8.3	33.45	8.2	24.3	0.42
F29	23 May 2023	2	17.19	91.72	8.3	33.45	8.2	24.3	0.44
F29	23 May 2023	3	17.17	91.92	8.4	33.45	8.2	24.3	0.48
F29	23 May 2023	4	17.17	91.77	8.4	33.45	8.2	24.3	0.50
F29	23 May 2023	5	17.16	91.79	8.4	33.45	8.2	24.3	0.53
F29	23 May 2023	6	17.13	91.71	8.4	33.45	8.2	24.3	0.55
F29	23 May 2023	7	16.99	91.62	8.5	33.46	8.2	24.3	0.60
F29	23 May 2023	8	16.90	91.29	8.6	33.46	8.2	24.4	0.65
F29	23 May 2023	9	16.86	91.13	8.6	33.46	8.2	24.4	0.68
F29	23 May 2023	10	16.71	90.96	8.6	33.45	8.2	24.4	0.71
F29	23 May 2023	11	16.48	90.94	8.7	33.44	8.2	24.4	0.80
F29	23 May 2023	12	15.77	90.98	9.0	33.42	8.2	24.6	0.93
F29	23 May 2023	13	15.51	90.74	9.0	33.40	8.2	24.6	1.09
F29	23 May 2023	14	15.39	90.49	8.9	33.38	8.2	24.6	1.25
F29	23 May 2023	15	15.24	90.23	8.8	33.37	8.2	24.7	1.31
F29	23 May 2023	16	15.00	90.19	8.6	33.34	8.2	24.7	1.30
F29	23 May 2023	17	14.67	90.22	8.6	33.32	8.2	24.7	1.45
F29	23 May 2023	18	14.64	90.03	8.6	33.32	8.2	24.8	1.69
F29	23 May 2023	19	14.45	89.55	8.6	33.32	8.2	24.8	2.01
F29	23 May 2023	20	14.13	89.30	8.7	33.31	8.2	24.9	2.27
F29	23 May 2023	21	13.81	89.21	8.8	33.31	8.2	24.9	2.52
F29	23 May 2023	22	13.64	89.44	8.9	33.31	8.2	25.0	2.51
F29	23 May 2023	23	13.58	89.84	8.9	33.31	8.2	25.0	2.39
F29	23 May 2023	24	13.54	90.30	8.8	33.32	8.2	25.0	2.14
F29	23 May 2023	25	13.47	90.61	8.8	33.32	8.2	25.0	1.99
F29	23 May 2023	26	13.28	90.80	8.6	33.32	8.1	25.0	1.99
F29	23 May 2023	27	13.05	90.86	8.3	33.32	8.1	25.1	1.99
F29	23 May 2023	28	12.96	90.89	8.1	33.31	8.1	25.1	1.99
F29	23 May 2023	29	12.92	90.95	7.8	33.30	8.1	25.1	1.98
F29	23 May 2023	30	12.84	90.97	7.7	33.30	8.1	25.1	1.97
F29	23 May 2023	31	12.77	91.04	7.5	33.30	8.1	25.1	1.96
F29	23 May 2023	32	12.71	90.90	7.3	33.30	8.1	25.1	2.04
F29	23 May 2023	33	12.65	90.82	7.2	33.30	8.1	25.1	2.04

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F29	23 May 2023	34	12.56	91.07	7.1	33.31	8.1	25.2	1.75
F29	23 May 2023	35	12.42	91.65	7.0	33.33	8.0	25.2	1.49
F29	23 May 2023	36	12.35	92.25	7.0	33.33	8.0	25.2	1.32
F29	23 May 2023	37	12.29	92.64	6.9	33.33	8.0	25.2	1.18
F29	23 May 2023	38	12.20	92.90	6.8	33.34	8.0	25.3	1.09
F29	23 May 2023	39	12.12	93.01	6.8	33.34	8.0	25.3	1.08
F29	23 May 2023	40	12.05	93.09	6.8	33.34	8.0	25.3	1.01
F29	23 May 2023	41	11.96	93.14	6.7	33.33	8.0	25.3	0.98
F29	23 May 2023	42	11.81	93.17	6.6	33.32	8.0	25.3	0.97
F29	23 May 2023	43	11.72	93.12	6.6	33.32	8.0	25.3	0.96
F29	23 May 2023	44	11.68	93.11	6.5	33.33	8.0	25.4	0.95
F29	23 May 2023	45	11.64	93.14	6.5	33.33	8.0	25.4	0.89
F29	23 May 2023	46	11.55	93.22	6.5	33.33	8.0	25.4	0.90
F29	23 May 2023	47	11.44	93.06	6.5	33.33	8.0	25.4	0.86
F29	23 May 2023	48	11.37	93.22	6.5	33.33	8.0	25.4	0.84
F29	23 May 2023	49	11.36	93.22	6.5	33.33	8.0	25.4	0.83
F29	23 May 2023	50	11.34	93.25	6.5	33.33	8.0	25.4	0.85
F29	23 May 2023	51	11.32	93.19	6.5	33.33	8.0	25.4	0.80
F29	23 May 2023	52	11.31	93.25	6.4	33.33	8.0	25.4	0.80
F29	23 May 2023	53	11.32	93.35	6.4	33.34	8.0	25.4	0.81
F29	23 May 2023	54	11.30	93.29	6.3	33.35	8.0	25.4	0.81
F29	23 May 2023	55	11.09	93.19	6.3	33.35	8.0	25.5	0.76
F29	23 May 2023	56	11.03	93.29	6.3	33.35	8.0	25.5	0.74
F29	23 May 2023	57	10.99	93.37	6.3	33.37	8.0	25.5	0.73
F29	23 May 2023	58	10.96	93.38	6.1	33.39	8.0	25.5	0.68
F29	23 May 2023	59	10.98	93.35	6.0	33.41	7.9	25.5	0.68
F29	23 May 2023	60	10.95	93.37	5.9	33.43	7.9	25.6	0.66
F29	23 May 2023	61	10.80	93.43	5.9	33.44	7.9	25.6	0.57
F29	23 May 2023	62	10.75	93.57	5.8	33.45	7.9	25.6	0.57
F29	23 May 2023	63	10.73	93.67	5.8	33.46	7.9	25.6	0.51
F29	23 May 2023	64	10.72	93.75	5.7	33.47	7.9	25.6	0.52
F29	23 May 2023	65	10.72	93.83	5.6	33.49	7.9	25.7	0.51
F29	23 May 2023	66	10.67	93.90	5.4	33.55	7.9	25.7	0.45
F29	23 May 2023	67	10.70	93.96	5.2	33.57	7.9	25.7	0.41
F29	23 May 2023	68	10.76	93.95	5.0	33.59	7.9	25.7	0.38
F29	23 May 2023	69	10.67	93.87	4.8	33.64	7.8	25.8	0.36
F29	23 May 2023	70	10.60	93.50	4.7	33.67	7.8	25.8	0.33
F29	23 May 2023	71	10.56	93.88	4.7	33.68	7.8	25.8	0.32
F29	23 May 2023	72	10.54	93.81	4.6	33.69	7.8	25.8	0.30
F29	23 May 2023	73	10.53	93.97	4.6	33.70	7.8	25.8	0.30
F29	23 May 2023	74	10.53	94.02	4.6	33.70	7.8	25.8	0.28
F29	23 May 2023	75	10.51	93.99	4.6	33.72	7.8	25.9	0.28
F29	23 May 2023	76	10.50	93.99	4.5	33.73	7.8	25.9	0.28
F29	23 May 2023	77	10.48	93.97	4.4	33.74	7.8	25.9	0.28
F29	23 May 2023	78	10.44	93.84	4.3	33.76	7.8	25.9	0.29
F29	23 May 2023	79	10.43	93.68	4.1	33.77	7.8	25.9	0.26
F29	23 May 2023	80	10.38	93.37	3.9	33.80	7.8	26.0	0.27
F29	23 May 2023	81	10.36	92.87	3.8	33.81	7.8	26.0	0.27
F29	23 May 2023	82	10.34	92.66	3.8	33.82	7.8	26.0	0.26
F29	23 May 2023	83	10.28	92.60	3.7	33.84	7.8	26.0	0.25
F29	23 May 2023	84	10.28	91.68	3.7	33.84	7.8	26.0	0.27
F29	23 May 2023	85	10.26	91.28	3.6	33.84	7.8	26.0	0.27
F29	23 May 2023	86	10.26	91.12	3.6	33.84	7.8	26.0	0.26
F29	23 May 2023	87	10.25	91.32	3.6	33.85	7.8	26.0	0.24
F29	23 May 2023	88	10.24	92.08	3.7	33.85	7.8	26.0	0.24
F29	23 May 2023	89	10.24	92.33	3.7	33.85	7.8	26.0	0.24
F29	23 May 2023	90	10.24	92.19	3.7	33.85	7.8	26.0	0.24
F29	23 May 2023	91	10.23	91.96	3.6	33.85	7.8	26.0	0.23
F29	23 May 2023	92	10.22	91.75	3.6	33.86	7.8	26.0	0.23
F29	23 May 2023	93	10.22	91.47	3.6	33.86	7.7	26.0	0.23
F29	23 May 2023	94	10.22	91.28	3.6	33.86	7.7	26.0	0.23

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F29	23 May 2023	95	10.21	91.07	3.5	33.86	7.7	26.0	0.23
F29	23 May 2023	96	10.21	90.50	3.5	33.86	7.7	26.0	0.25
F29	23 May 2023	97	10.21	90.11	3.5	33.86	7.7	26.0	0.26
F29	23 May 2023	98	10.21	89.97	3.5	33.86	7.7	26.0	0.25
F29	23 May 2023	99	10.21	89.79	3.5	33.86	7.7	26.0	0.25
F29	23 May 2023	100	10.21	89.54	3.5	33.86	7.7	26.0	0.27
F30	23 May 2023	1	17.21	90.59	8.4	33.47	8.2	24.3	0.52
F30	23 May 2023	2	17.20	90.80	8.4	33.47	8.2	24.3	0.50
F30	23 May 2023	3	17.20	90.31	8.4	33.47	8.2	24.3	0.53
F30	23 May 2023	4	17.21	90.86	8.4	33.47	8.2	24.3	0.57
F30	23 May 2023	5	17.21	90.98	8.4	33.47	8.2	24.3	0.58
F30	23 May 2023	6	17.20	90.92	8.4	33.48	8.2	24.3	0.62
F30	23 May 2023	7	17.20	90.90	8.4	33.47	8.2	24.3	0.65
F30	23 May 2023	8	17.20	90.92	8.4	33.48	8.2	24.3	0.66
F30	23 May 2023	9	17.18	90.90	8.4	33.48	8.2	24.3	0.70
F30	23 May 2023	10	17.10	90.81	8.5	33.48	8.2	24.3	0.77
F30	23 May 2023	11	16.55	90.63	8.8	33.46	8.2	24.4	0.92
F30	23 May 2023	12	16.31	90.07	9.0	33.44	8.2	24.5	1.09
F30	23 May 2023	13	15.98	89.84	9.1	33.43	8.2	24.5	1.15
F30	23 May 2023	14	15.52	90.25	9.1	33.41	8.2	24.6	1.12
F30	23 May 2023	15	15.11	90.75	9.3	33.40	8.2	24.7	1.25
F30	23 May 2023	16	14.98	90.79	9.3	33.38	8.2	24.7	1.37
F30	23 May 2023	17	14.93	90.40	9.2	33.38	8.2	24.7	1.44
F30	23 May 2023	18	14.87	90.16	9.2	33.37	8.2	24.7	1.68
F30	23 May 2023	19	14.78	90.01	9.0	33.36	8.2	24.8	1.82
F30	23 May 2023	20	14.67	89.76	8.9	33.35	8.2	24.8	2.03
F30	23 May 2023	21	14.22	89.62	8.9	33.35	8.2	24.9	2.22
F30	23 May 2023	22	13.89	89.81	9.0	33.34	8.2	24.9	2.13
F30	23 May 2023	23	13.78	90.36	8.9	33.34	8.2	24.9	1.94
F30	23 May 2023	24	13.72	90.70	8.9	33.34	8.2	25.0	2.02
F30	23 May 2023	25	13.66	90.68	8.9	33.34	8.2	25.0	2.02
F30	23 May 2023	26	13.56	90.59	8.8	33.34	8.2	25.0	1.92
F30	23 May 2023	27	13.27	90.70	8.7	33.34	8.2	25.1	1.88
F30	23 May 2023	28	13.03	90.75	8.5	33.34	8.1	25.1	2.23
F30	23 May 2023	29	12.97	90.78	8.3	33.34	8.1	25.1	2.09
F30	23 May 2023	30	12.88	90.76	8.1	33.34	8.1	25.1	2.06
F30	23 May 2023	31	12.74	90.82	7.8	33.34	8.1	25.2	2.30
F30	23 May 2023	32	12.61	91.04	7.6	33.32	8.1	25.2	2.13
F30	23 May 2023	33	12.58	91.14	7.4	33.31	8.1	25.2	2.21
F30	23 May 2023	34	12.55	91.03	7.4	33.31	8.1	25.2	2.15
F30	23 May 2023	35	12.53	91.05	7.3	33.31	8.1	25.2	2.02
F30	23 May 2023	36	12.35	91.15	6.9	33.33	8.0	25.2	1.77
F30	23 May 2023	37	12.07	91.66	6.7	33.33	8.0	25.3	1.47
F30	23 May 2023	38	11.91	92.23	6.6	33.32	8.0	25.3	1.35
F30	23 May 2023	39	11.80	92.44	6.6	33.32	8.0	25.3	1.25
F30	23 May 2023	40	11.72	92.71	6.6	33.33	8.0	25.3	1.13
F30	23 May 2023	41	11.69	92.91	6.6	33.33	8.0	25.3	1.06
F30	23 May 2023	42	11.62	92.83	6.5	33.33	8.0	25.4	1.08
F30	23 May 2023	43	11.56	93.00	6.5	33.33	8.0	25.4	0.96
F30	23 May 2023	44	11.49	93.04	6.5	33.33	8.0	25.4	0.91
F30	23 May 2023	45	11.47	93.17	6.5	33.33	8.0	25.4	0.91
F30	23 May 2023	46	11.42	93.24	6.5	33.33	8.0	25.4	0.91
F30	23 May 2023	47	11.36	93.25	6.5	33.33	8.0	25.4	0.86
F30	23 May 2023	48	11.34	93.35	6.5	33.33	8.0	25.4	0.85
F30	23 May 2023	49	11.32	93.28	6.5	33.33	8.0	25.4	0.85
F30	23 May 2023	50	11.29	93.32	6.4	33.33	8.0	25.4	0.81
F30	23 May 2023	51	11.31	93.34	6.3	33.36	8.0	25.4	0.86
F30	23 May 2023	52	11.28	93.23	6.2	33.37	8.0	25.5	0.82
F30	23 May 2023	53	11.18	93.00	6.2	33.38	8.0	25.5	0.85
F30	23 May 2023	54	11.13	93.04	6.2	33.38	8.0	25.5	0.72

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F30	23 May 2023	55	11.02	93.12	6.2	33.38	8.0	25.5	0.76
F30	23 May 2023	56	10.94	93.11	6.2	33.39	7.9	25.5	0.72
F30	23 May 2023	57	10.89	93.21	6.1	33.39	7.9	25.5	0.68
F30	23 May 2023	58	10.87	93.26	6.1	33.40	7.9	25.5	0.65
F30	23 May 2023	59	10.86	93.34	6.0	33.41	7.9	25.6	0.64
F30	23 May 2023	60	10.87	93.44	5.9	33.42	7.9	25.6	0.60
F30	23 May 2023	61	10.88	93.41	5.8	33.44	7.9	25.6	0.61
F30	23 May 2023	62	10.87	93.44	5.8	33.45	7.9	25.6	0.59
F30	23 May 2023	63	10.85	93.40	5.7	33.45	7.9	25.6	0.58
F30	23 May 2023	64	10.82	93.40	5.6	33.47	7.9	25.6	0.53
F30	23 May 2023	65	10.77	93.40	5.5	33.50	7.9	25.6	0.53
F30	23 May 2023	66	10.72	93.40	5.3	33.53	7.9	25.7	0.50
F30	23 May 2023	67	10.68	92.99	5.0	33.55	7.9	25.7	0.47
F30	23 May 2023	68	10.59	92.16	4.7	33.59	7.8	25.8	0.44
F30	23 May 2023	69	10.52	91.03	4.4	33.62	7.8	25.8	0.38
F30	23 May 2023	70	10.44	90.01	4.1	33.66	7.8	25.8	0.33
F30	23 May 2023	71	10.37	89.56	3.9	33.69	7.8	25.9	0.32
F30	23 May 2023	72	10.34	89.09	3.8	33.70	7.8	25.9	0.29
F30	23 May 2023	73	10.32	88.62	3.7	33.71	7.8	25.9	0.28
F30	23 May 2023	74	10.32	88.67	3.7	33.71	7.8	25.9	0.28
F30	23 May 2023	75	10.32	88.73	3.8	33.71	7.8	25.9	0.29
F30	23 May 2023	76	10.32	88.80	3.8	33.71	7.8	25.9	0.27
F30	23 May 2023	77	10.32	88.61	3.8	33.71	7.8	25.9	0.27
F30	23 May 2023	78	10.32	88.53	3.8	33.71	7.8	25.9	0.28
F30	23 May 2023	79	10.31	88.46	3.8	33.72	7.8	25.9	0.26
F30	23 May 2023	80	10.32	88.60	3.8	33.72	7.8	25.9	0.27
F30	23 May 2023	81	10.32	88.51	3.8	33.72	7.8	25.9	0.27
F30	23 May 2023	82	10.33	88.88	3.8	33.73	7.8	25.9	0.26
F30	23 May 2023	83	10.34	89.53	3.9	33.73	7.8	25.9	0.26
F30	23 May 2023	84	10.36	90.39	4.0	33.74	7.8	25.9	0.26
F30	23 May 2023	85	10.38	91.60	4.1	33.76	7.8	25.9	0.26
F30	23 May 2023	86	10.37	92.20	4.1	33.76	7.8	25.9	0.27
F30	23 May 2023	87	10.37	92.05	4.0	33.77	7.8	25.9	0.26
F30	23 May 2023	88	10.36	92.60	4.0	33.79	7.8	25.9	0.26
F30	23 May 2023	89	10.32	93.19	3.9	33.81	7.8	26.0	0.26
F30	23 May 2023	90	10.32	93.05	3.9	33.81	7.8	26.0	0.26
F30	23 May 2023	91	10.31	93.02	3.8	33.82	7.8	26.0	0.26
F30	23 May 2023	92	10.30	92.94	3.8	33.82	7.8	26.0	0.26
F30	23 May 2023	93	10.30	92.84	3.8	33.82	7.8	26.0	0.33
F30	23 May 2023	94	10.29	92.69	3.8	33.83	7.8	26.0	0.27
F30	23 May 2023	95	10.29	92.52	3.8	33.83	7.8	26.0	0.26
F30	23 May 2023	96	10.29	92.57	3.8	33.83	7.8	26.0	0.27
F30	23 May 2023	97	10.28	92.37	3.7	33.83	7.8	26.0	0.25
F30	23 May 2023	98	10.27	92.05	3.7	33.83	7.8	26.0	0.26
F30	23 May 2023	99	10.28	90.10	3.7	33.83	7.8	26.0	0.26
F31	23 May 2023	1	17.42	88.68	8.3	33.49	8.2	24.3	0.57
F31	23 May 2023	2	17.42	90.84	8.3	33.49	8.2	24.3	0.61
F31	23 May 2023	3	17.42	90.80	8.3	33.49	8.2	24.3	0.64
F31	23 May 2023	4	17.42	90.82	8.3	33.49	8.2	24.3	0.65
F31	23 May 2023	5	17.42	90.85	8.3	33.49	8.2	24.3	0.68
F31	23 May 2023	6	17.42	90.90	8.3	33.49	8.2	24.3	0.68
F31	23 May 2023	7	17.42	90.85	8.3	33.49	8.2	24.3	0.68
F31	23 May 2023	8	17.42	90.85	8.3	33.49	8.2	24.3	0.71
F31	23 May 2023	9	17.41	90.83	8.3	33.49	8.2	24.3	0.70
F31	23 May 2023	10	17.41	90.78	8.3	33.49	8.2	24.3	0.72
F31	23 May 2023	11	17.40	90.82	8.3	33.49	8.2	24.3	0.71
F31	23 May 2023	12	17.40	90.82	8.3	33.49	8.2	24.3	0.71
F31	23 May 2023	13	17.40	90.88	8.4	33.49	8.2	24.3	0.72
F31	23 May 2023	14	17.37	90.83	8.3	33.49	8.2	24.3	0.71
F31	23 May 2023	15	17.31	90.86	8.3	33.49	8.2	24.3	0.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F31	23 May 2023	16	17.12	90.83	8.5	33.48	8.2	24.3	0.81
F31	23 May 2023	17	16.74	90.72	8.7	33.46	8.2	24.4	0.93
F31	23 May 2023	18	15.93	90.40	9.2	33.43	8.2	24.6	1.14
F31	23 May 2023	19	15.57	90.22	9.3	33.42	8.2	24.6	1.21
F31	23 May 2023	20	15.12	90.43	9.4	33.40	8.2	24.7	1.25
F31	23 May 2023	21	14.89	90.77	9.4	33.39	8.2	24.8	1.21
F31	23 May 2023	22	14.77	91.19	9.4	33.39	8.2	24.8	1.15
F31	23 May 2023	23	14.62	91.48	9.3	33.39	8.2	24.8	1.20
F31	23 May 2023	24	14.31	91.31	9.3	33.38	8.2	24.9	1.29
F31	23 May 2023	25	14.09	91.10	9.1	33.37	8.2	24.9	1.44
F31	23 May 2023	26	13.85	91.03	9.0	33.36	8.2	24.9	1.57
F31	23 May 2023	27	13.69	90.96	8.9	33.35	8.2	25.0	1.76
F31	23 May 2023	28	13.57	90.84	8.8	33.34	8.2	25.0	1.93
F31	23 May 2023	29	13.41	90.70	8.7	33.34	8.2	25.0	2.04
F31	23 May 2023	30	13.22	90.56	8.7	33.33	8.1	25.1	2.27
F31	23 May 2023	31	13.17	90.51	8.7	33.33	8.1	25.1	2.12
F31	23 May 2023	32	13.10	90.44	8.6	33.34	8.1	25.1	1.96
F31	23 May 2023	33	12.97	90.61	8.4	33.35	8.1	25.1	2.17
F31	23 May 2023	34	12.85	90.63	8.2	33.36	8.1	25.2	2.80
F31	23 May 2023	35	12.77	90.48	7.9	33.35	8.1	25.2	2.31
F31	23 May 2023	36	12.51	90.42	7.4	33.34	8.1	25.2	2.28
F31	23 May 2023	37	12.27	90.56	7.0	33.33	8.0	25.2	2.00
F31	23 May 2023	38	12.20	90.73	6.8	33.33	8.0	25.3	1.82
F31	23 May 2023	39	12.17	91.09	6.7	33.33	8.0	25.3	1.75
F31	23 May 2023	40	12.08	91.50	6.6	33.34	8.0	25.3	1.69
F31	23 May 2023	41	11.96	91.89	6.5	33.35	8.0	25.3	1.42
F31	23 May 2023	42	11.86	92.20	6.4	33.35	8.0	25.3	1.21
F31	23 May 2023	43	11.78	92.51	6.4	33.35	8.0	25.3	1.43
F31	23 May 2023	44	11.71	92.59	6.3	33.35	8.0	25.4	1.13
F31	23 May 2023	45	11.53	92.66	6.3	33.35	8.0	25.4	1.02
F31	23 May 2023	46	11.29	92.91	6.4	33.35	8.0	25.4	1.13
F31	23 May 2023	47	11.13	93.08	6.4	33.35	8.0	25.5	0.85
F31	23 May 2023	48	11.05	93.21	6.4	33.35	8.0	25.5	0.80
F31	23 May 2023	49	11.03	93.23	6.3	33.36	8.0	25.5	0.78
F31	23 May 2023	50	11.07	93.34	6.2	33.38	8.0	25.5	0.80
F31	23 May 2023	51	10.95	93.32	6.1	33.39	8.0	25.5	0.70
F31	23 May 2023	52	10.86	93.28	6.1	33.40	7.9	25.6	0.73
F31	23 May 2023	53	10.80	93.39	6.1	33.40	7.9	25.6	0.64
F31	23 May 2023	54	10.71	93.46	6.1	33.41	7.9	25.6	0.62
F31	23 May 2023	55	10.63	93.49	6.0	33.43	7.9	25.6	0.56
F31	23 May 2023	56	10.63	93.61	5.9	33.45	7.9	25.6	0.52
F31	23 May 2023	57	10.62	93.63	5.8	33.47	7.9	25.7	0.52
F31	23 May 2023	58	10.65	93.78	5.6	33.49	7.9	25.7	0.47
F31	23 May 2023	59	10.69	93.63	5.5	33.52	7.9	25.7	0.46
F31	23 May 2023	60	10.62	93.80	5.4	33.55	7.9	25.7	0.40
F31	23 May 2023	61	10.57	93.89	5.3	33.58	7.9	25.7	0.38
F31	23 May 2023	62	10.56	93.91	5.1	33.61	7.9	25.8	0.37
F31	23 May 2023	63	10.54	93.95	5.0	33.63	7.9	25.8	0.36
F31	23 May 2023	64	10.53	93.96	4.9	33.64	7.9	25.8	0.34
F31	23 May 2023	65	10.52	93.91	4.9	33.64	7.8	25.8	0.34
F31	23 May 2023	66	10.52	93.95	4.9	33.65	7.8	25.8	0.32
F31	23 May 2023	67	10.51	93.96	4.8	33.67	7.8	25.8	0.31
F31	23 May 2023	68	10.51	93.57	4.6	33.68	7.8	25.8	0.30
F31	23 May 2023	69	10.51	93.22	4.5	33.70	7.8	25.9	0.31
F31	23 May 2023	70	10.51	93.43	4.5	33.71	7.8	25.9	0.29
F31	23 May 2023	71	10.51	93.67	4.5	33.71	7.8	25.9	0.28
F31	23 May 2023	72	10.50	93.72	4.5	33.71	7.8	25.9	0.29
F31	23 May 2023	73	10.50	93.66	4.5	33.72	7.8	25.9	0.27
F31	23 May 2023	74	10.50	93.70	4.4	33.72	7.8	25.9	0.28
F31	23 May 2023	75	10.50	93.71	4.5	33.73	7.8	25.9	0.27
F31	23 May 2023	76	10.49	93.65	4.4	33.74	7.8	25.9	0.30

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F31	23 May 2023	77	10.43	93.26	4.2	33.75	7.8	25.9	0.31
F31	23 May 2023	78	10.42	92.18	4.1	33.76	7.8	25.9	0.26
F31	23 May 2023	79	10.43	92.29	4.0	33.77	7.8	25.9	0.26
F31	23 May 2023	80	10.42	92.94	4.1	33.78	7.8	25.9	0.26
F31	23 May 2023	81	10.38	93.05	4.1	33.79	7.8	25.9	0.27
F31	23 May 2023	82	10.36	93.17	4.0	33.79	7.8	25.9	0.28
F31	23 May 2023	83	10.33	93.29	4.0	33.80	7.8	26.0	0.26
F31	23 May 2023	84	10.29	93.35	4.0	33.81	7.8	26.0	0.24
F31	23 May 2023	85	10.28	93.24	3.9	33.83	7.8	26.0	0.26
F31	23 May 2023	86	10.27	93.08	3.9	33.83	7.8	26.0	0.26
F31	23 May 2023	87	10.26	93.10	3.8	33.83	7.8	26.0	0.24
F31	23 May 2023	88	10.25	93.14	3.8	33.83	7.8	26.0	0.24
F31	23 May 2023	89	10.25	93.14	3.8	33.83	7.8	26.0	0.25
F31	23 May 2023	90	10.24	93.10	3.8	33.84	7.8	26.0	0.23
F31	23 May 2023	91	10.24	93.09	3.8	33.84	7.8	26.0	0.24
F31	23 May 2023	92	10.22	93.05	3.8	33.84	7.8	26.0	0.22
F31	23 May 2023	93	10.20	93.04	3.7	33.85	7.8	26.0	0.22
F31	23 May 2023	94	10.17	92.86	3.6	33.87	7.8	26.0	0.22
F31	23 May 2023	95	10.16	92.68	3.5	33.88	7.7	26.0	0.22
F31	23 May 2023	96	10.15	92.49	3.5	33.88	7.7	26.1	0.21
F31	23 May 2023	97	10.15	92.06	3.5	33.88	7.7	26.1	0.25
F31	23 May 2023	98	10.15	91.86	3.5	33.88	7.7	26.1	0.22
F31	23 May 2023	99	10.15	91.90	3.5	33.88	7.7	26.1	0.22
F31	23 May 2023	100	10.15	90.71	3.5	33.88	7.7	26.1	0.22
F32	23 May 2023	1	17.50	90.88	8.3	33.50	8.2	24.2	0.63
F32	23 May 2023	2	17.49	90.97	8.3	33.50	8.2	24.2	0.65
F32	23 May 2023	3	17.49	90.97	8.3	33.50	8.2	24.2	0.67
F32	23 May 2023	4	17.49	90.97	8.3	33.50	8.2	24.2	0.70
F32	23 May 2023	5	17.49	90.92	8.3	33.50	8.2	24.2	0.69
F32	23 May 2023	6	17.49	90.94	8.3	33.50	8.2	24.2	0.71
F32	23 May 2023	7	17.49	90.96	8.3	33.50	8.2	24.2	0.70
F32	23 May 2023	8	17.49	90.97	8.3	33.50	8.2	24.2	0.69
F32	23 May 2023	9	17.49	90.94	8.3	33.50	8.2	24.2	0.69
F32	23 May 2023	10	17.48	90.91	8.3	33.50	8.2	24.2	0.65
F32	23 May 2023	11	17.48	91.00	8.3	33.50	8.2	24.2	0.68
F32	23 May 2023	12	17.47	91.01	8.3	33.49	8.2	24.2	0.69
F32	23 May 2023	13	17.44	91.06	8.3	33.49	8.2	24.3	0.68
F32	23 May 2023	14	17.39	91.06	8.4	33.49	8.2	24.3	0.71
F32	23 May 2023	15	17.21	91.00	8.5	33.48	8.2	24.3	0.76
F32	23 May 2023	16	16.99	90.74	8.6	33.47	8.2	24.3	0.81
F32	23 May 2023	17	16.89	90.67	8.6	33.46	8.2	24.4	0.85
F32	23 May 2023	18	16.64	90.72	8.7	33.45	8.2	24.4	0.96
F32	23 May 2023	19	16.37	90.57	8.9	33.44	8.2	24.5	1.03
F32	23 May 2023	20	15.96	90.61	9.1	33.43	8.2	24.6	1.11
F32	23 May 2023	21	15.33	90.45	9.3	33.42	8.2	24.7	1.24
F32	23 May 2023	22	15.07	90.52	9.4	33.40	8.2	24.7	1.29
F32	23 May 2023	23	14.84	90.74	9.3	33.39	8.2	24.8	1.25
F32	23 May 2023	24	14.51	91.28	9.3	33.39	8.2	24.8	1.13
F32	23 May 2023	25	14.30	91.63	9.3	33.38	8.2	24.9	1.23
F32	23 May 2023	26	14.21	91.45	9.2	33.37	8.2	24.9	1.35
F32	23 May 2023	27	13.93	91.18	9.1	33.37	8.2	24.9	1.51
F32	23 May 2023	28	13.73	90.95	8.9	33.36	8.2	25.0	1.57
F32	23 May 2023	29	13.32	90.90	8.7	33.36	8.2	25.1	1.62
F32	23 May 2023	30	13.03	90.87	8.4	33.36	8.1	25.1	2.01
F32	23 May 2023	31	12.88	90.62	8.2	33.36	8.1	25.1	2.33
F32	23 May 2023	32	12.79	90.12	8.0	33.37	8.1	25.2	3.09
F32	23 May 2023	33	12.68	89.78	7.8	33.37	8.1	25.2	2.93
F32	23 May 2023	34	12.52	89.54	7.5	33.37	8.1	25.2	3.26
F32	23 May 2023	35	12.39	89.52	7.2	33.37	8.1	25.2	2.85
F32	23 May 2023	36	12.15	89.78	6.9	33.36	8.0	25.3	2.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F32	23 May 2023	37	12.03	90.11	6.6	33.36	8.0	25.3	2.48
F32	23 May 2023	38	11.96	90.90	6.5	33.36	8.0	25.3	1.88
F32	23 May 2023	39	11.89	91.52	6.4	33.36	8.0	25.3	1.52
F32	23 May 2023	40	11.87	92.08	6.3	33.37	8.0	25.4	1.58
F32	23 May 2023	41	11.83	92.28	6.3	33.38	8.0	25.4	1.26
F32	23 May 2023	42	11.70	92.37	6.3	33.38	8.0	25.4	1.28
F32	23 May 2023	43	11.57	92.57	6.2	33.38	8.0	25.4	1.10
F32	23 May 2023	44	11.61	92.76	6.1	33.41	8.0	25.4	1.00
F32	23 May 2023	45	11.27	92.71	6.1	33.39	8.0	25.5	0.82
F32	23 May 2023	46	11.07	92.92	6.2	33.39	8.0	25.5	0.77
F32	23 May 2023	47	11.07	93.17	6.1	33.40	7.9	25.5	0.77
F32	23 May 2023	48	11.03	93.22	6.0	33.41	7.9	25.5	0.72
F32	23 May 2023	49	11.00	93.19	6.0	33.41	7.9	25.5	0.68
F32	23 May 2023	50	10.85	93.23	6.0	33.43	7.9	25.6	0.62
F32	23 May 2023	51	10.81	93.32	5.9	33.44	7.9	25.6	0.57
F32	23 May 2023	52	10.77	93.49	5.9	33.44	7.9	25.6	0.57
F32	23 May 2023	53	10.74	93.53	5.9	33.44	7.9	25.6	0.56
F32	23 May 2023	54	10.70	93.62	5.9	33.44	7.9	25.6	0.51
F32	23 May 2023	55	10.65	93.61	5.9	33.45	7.9	25.6	0.51
F32	23 May 2023	56	10.59	93.63	5.8	33.48	7.9	25.7	0.47
F32	23 May 2023	57	10.58	93.70	5.7	33.49	7.9	25.7	0.43
F32	23 May 2023	58	10.56	93.81	5.6	33.52	7.9	25.7	0.42
F32	23 May 2023	59	10.52	93.75	5.5	33.54	7.9	25.7	0.42
F32	23 May 2023	60	10.51	93.79	5.4	33.56	7.9	25.7	0.39
F32	23 May 2023	61	10.52	93.92	5.3	33.58	7.9	25.8	0.37
F32	23 May 2023	62	10.53	93.98	5.2	33.60	7.9	25.8	0.36
F32	23 May 2023	63	10.52	93.94	5.0	33.62	7.9	25.8	0.34
F32	23 May 2023	64	10.51	93.89	5.0	33.63	7.9	25.8	0.33
F32	23 May 2023	65	10.50	93.92	4.9	33.65	7.8	25.8	0.33
F32	23 May 2023	66	10.50	93.96	4.8	33.66	7.8	25.8	0.31
F32	23 May 2023	67	10.50	94.00	4.8	33.66	7.8	25.8	0.30
F32	23 May 2023	68	10.49	93.98	4.8	33.66	7.8	25.8	0.31
F32	23 May 2023	69	10.50	94.01	4.8	33.66	7.8	25.8	0.29
F32	23 May 2023	70	10.51	93.97	4.8	33.67	7.8	25.8	0.29
F32	23 May 2023	71	10.50	93.97	4.7	33.68	7.8	25.8	0.29
F32	23 May 2023	72	10.49	93.98	4.6	33.69	7.8	25.8	0.28
F32	23 May 2023	73	10.47	93.94	4.6	33.70	7.8	25.9	0.29
F32	23 May 2023	74	10.46	93.99	4.6	33.71	7.8	25.9	0.28
F32	23 May 2023	75	10.46	93.96	4.5	33.71	7.8	25.9	0.26
F32	23 May 2023	76	10.44	93.77	4.4	33.72	7.8	25.9	0.27
F32	23 May 2023	77	10.41	93.30	4.2	33.72	7.8	25.9	0.27
F32	23 May 2023	78	10.37	92.60	4.1	33.71	7.8	25.9	0.27
F32	23 May 2023	79	10.34	91.65	3.9	33.72	7.8	25.9	0.28
F32	23 May 2023	80	10.32	90.68	3.8	33.73	7.8	25.9	0.26
F32	23 May 2023	81	10.31	89.92	3.7	33.73	7.8	25.9	0.24
F32	23 May 2023	82	10.30	89.85	3.7	33.74	7.8	25.9	0.25
F32	23 May 2023	83	10.28	89.69	3.7	33.75	7.8	25.9	0.25
F32	23 May 2023	84	10.27	90.08	3.8	33.77	7.8	25.9	0.26
F32	23 May 2023	85	10.26	90.53	3.8	33.78	7.8	26.0	0.26
F32	23 May 2023	86	10.26	90.98	3.7	33.79	7.8	26.0	0.24
F32	23 May 2023	87	10.27	90.89	3.7	33.80	7.8	26.0	0.24
F32	23 May 2023	88	10.27	90.71	3.7	33.81	7.8	26.0	0.23
F32	23 May 2023	89	10.27	90.55	3.7	33.81	7.8	26.0	0.24
F32	23 May 2023	90	10.26	90.38	3.6	33.83	7.8	26.0	0.23
F32	23 May 2023	91	10.22	90.43	3.6	33.84	7.7	26.0	0.23
F32	23 May 2023	92	10.22	90.92	3.6	33.84	7.7	26.0	0.23
F32	23 May 2023	93	10.21	91.24	3.6	33.85	7.7	26.0	0.22
F32	23 May 2023	94	10.19	91.66	3.6	33.86	7.7	26.0	0.22
F32	23 May 2023	95	10.17	91.95	3.6	33.87	7.7	26.0	0.23
F32	23 May 2023	96	10.15	92.21	3.5	33.88	7.7	26.1	0.22
F32	23 May 2023	97	10.14	92.57	3.5	33.89	7.7	26.1	0.22

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F32	23 May 2023	98	10.14	92.70	3.5	33.89	7.7	26.1	0.21
F32	23 May 2023	99	10.13	92.76	3.5	33.89	7.7	26.1	0.21
F32	23 May 2023	100	10.12	92.66	3.4	33.89	7.7	26.1	0.22
F32	23 May 2023	101	10.12	92.61	3.4	33.90	7.7	26.1	0.21
F32	23 May 2023	102	10.12	91.96	3.4	33.90	7.7	26.1	0.21
F33	23 May 2023	1	17.52	90.83	8.3	33.50	8.2	24.2	0.57
F33	23 May 2023	2	17.51	90.63	8.3	33.50	8.2	24.2	0.58
F33	23 May 2023	3	17.51	90.83	8.3	33.50	8.2	24.2	0.63
F33	23 May 2023	4	17.51	90.84	8.3	33.50	8.2	24.2	0.65
F33	23 May 2023	5	17.51	90.87	8.3	33.50	8.2	24.2	0.68
F33	23 May 2023	6	17.51	90.89	8.3	33.50	8.2	24.2	0.67
F33	23 May 2023	7	17.51	90.87	8.3	33.50	8.2	24.2	0.70
F33	23 May 2023	8	17.50	90.85	8.3	33.50	8.2	24.2	0.68
F33	23 May 2023	9	17.50	90.86	8.3	33.50	8.2	24.2	0.71
F33	23 May 2023	10	17.50	90.87	8.3	33.50	8.2	24.2	0.72
F33	23 May 2023	11	17.50	90.86	8.3	33.50	8.2	24.2	0.71
F33	23 May 2023	12	17.49	90.83	8.3	33.50	8.2	24.2	0.70
F33	23 May 2023	13	17.44	90.90	8.3	33.50	8.2	24.3	0.72
F33	23 May 2023	14	17.35	90.96	8.4	33.49	8.2	24.3	0.72
F33	23 May 2023	15	17.22	90.95	8.5	33.48	8.2	24.3	0.75
F33	23 May 2023	16	16.95	90.90	8.6	33.47	8.2	24.4	0.78
F33	23 May 2023	17	16.72	90.76	8.7	33.45	8.2	24.4	0.83
F33	23 May 2023	18	16.66	90.71	8.7	33.45	8.2	24.4	0.87
F33	23 May 2023	19	16.48	90.72	8.7	33.44	8.2	24.4	0.92
F33	23 May 2023	20	15.86	90.63	8.9	33.44	8.2	24.6	1.11
F33	23 May 2023	21	15.16	90.32	9.2	33.42	8.2	24.7	1.31
F33	23 May 2023	22	14.74	90.14	9.2	33.40	8.2	24.8	1.26
F33	23 May 2023	23	14.46	90.64	9.3	33.39	8.2	24.9	1.16
F33	23 May 2023	24	14.28	91.45	9.3	33.39	8.2	24.9	1.14
F33	23 May 2023	25	14.10	91.70	9.2	33.38	8.2	24.9	1.29
F33	23 May 2023	26	13.96	91.37	9.1	33.38	8.2	24.9	1.35
F33	23 May 2023	27	13.67	90.89	9.0	33.37	8.2	25.0	1.51
F33	23 May 2023	28	13.39	90.72	8.8	33.36	8.2	25.0	1.61
F33	23 May 2023	29	13.27	90.71	8.6	33.38	8.1	25.1	1.88
F33	23 May 2023	30	12.87	90.46	8.3	33.39	8.1	25.2	2.56
F33	23 May 2023	31	12.80	90.38	8.1	33.38	8.1	25.2	2.85
F33	23 May 2023	32	12.74	90.16	7.9	33.38	8.1	25.2	2.50
F33	23 May 2023	33	12.63	89.34	7.7	33.39	8.1	25.2	3.69
F33	23 May 2023	34	12.51	89.01	7.3	33.40	8.1	25.2	3.39
F33	23 May 2023	35	12.25	88.23	6.9	33.39	8.1	25.3	3.11
F33	23 May 2023	36	11.96	88.11	6.6	33.39	8.0	25.3	2.47
F33	23 May 2023	37	11.96	90.13	6.5	33.39	8.0	25.3	2.29
F33	23 May 2023	38	11.93	89.95	6.4	33.40	8.0	25.4	2.16
F33	23 May 2023	39	11.89	90.45	6.3	33.41	8.0	25.4	1.96
F33	23 May 2023	40	11.79	90.84	6.2	33.42	8.0	25.4	1.57
F33	23 May 2023	41	11.62	91.28	6.0	33.44	8.0	25.5	1.43
F33	23 May 2023	42	11.54	91.96	5.9	33.45	7.9	25.5	1.15
F33	23 May 2023	43	11.45	92.23	5.8	33.44	7.9	25.5	1.26
F33	23 May 2023	44	11.39	92.52	5.8	33.45	7.9	25.5	1.06
F33	23 May 2023	45	11.31	92.48	5.8	33.46	7.9	25.5	0.88
F33	23 May 2023	46	11.18	92.64	5.8	33.45	7.9	25.5	0.72
F33	23 May 2023	47	11.07	93.02	5.8	33.45	7.9	25.6	0.67
F33	23 May 2023	48	10.92	93.09	5.8	33.45	7.9	25.6	0.68
F33	23 May 2023	49	10.90	93.18	5.8	33.45	7.9	25.6	0.68
F33	23 May 2023	50	10.88	93.31	5.7	33.46	7.9	25.6	0.55
F33	23 May 2023	51	10.87	93.36	5.7	33.47	7.9	25.6	0.56
F33	23 May 2023	52	10.90	93.53	5.5	33.49	7.9	25.6	0.51
F33	23 May 2023	53	10.85	93.49	5.4	33.52	7.9	25.7	0.47
F33	23 May 2023	54	10.74	93.55	5.4	33.53	7.9	25.7	0.47
F33	23 May 2023	55	10.75	93.63	5.3	33.53	7.9	25.7	0.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F33	23 May 2023	56	10.76	93.70	5.3	33.54	7.9	25.7	0.45
F33	23 May 2023	57	10.78	93.72	5.3	33.55	7.9	25.7	0.43
F33	23 May 2023	58	10.77	93.49	5.2	33.56	7.9	25.7	0.40
F33	23 May 2023	59	10.72	93.59	5.2	33.58	7.9	25.7	0.41
F33	23 May 2023	60	10.64	93.73	5.2	33.59	7.9	25.7	0.37
F33	23 May 2023	61	10.55	93.77	5.2	33.59	7.9	25.8	0.35
F33	23 May 2023	62	10.52	93.94	5.2	33.60	7.9	25.8	0.36
F33	23 May 2023	63	10.51	93.92	5.1	33.62	7.9	25.8	0.38
F33	23 May 2023	64	10.49	93.91	4.9	33.65	7.9	25.8	0.35
F33	23 May 2023	65	10.48	93.90	4.8	33.67	7.8	25.8	0.31
F33	23 May 2023	66	10.48	93.97	4.8	33.67	7.8	25.8	0.31
F33	23 May 2023	67	10.48	94.01	4.7	33.68	7.8	25.8	0.30
F33	23 May 2023	68	10.48	93.99	4.7	33.69	7.8	25.8	0.30
F33	23 May 2023	69	10.48	93.95	4.7	33.69	7.8	25.9	0.30
F33	23 May 2023	70	10.48	93.89	4.7	33.70	7.8	25.9	0.29
F33	23 May 2023	71	10.48	93.95	4.6	33.70	7.8	25.9	0.27
F33	23 May 2023	72	10.47	93.99	4.6	33.70	7.8	25.9	0.27
F33	23 May 2023	73	10.47	94.00	4.6	33.71	7.8	25.9	0.29
F33	23 May 2023	74	10.46	94.05	4.6	33.71	7.8	25.9	0.28
F33	23 May 2023	75	10.45	94.04	4.5	33.73	7.8	25.9	0.27
F33	23 May 2023	76	10.40	93.96	4.3	33.74	7.8	25.9	0.27
F33	23 May 2023	77	10.33	93.69	4.1	33.75	7.8	25.9	0.27
F33	23 May 2023	78	10.29	92.76	3.8	33.75	7.8	25.9	0.27
F33	23 May 2023	79	10.28	91.57	3.8	33.75	7.8	25.9	0.27
F33	23 May 2023	80	10.27	90.82	3.7	33.76	7.8	25.9	0.26
F33	23 May 2023	81	10.24	90.85	3.7	33.76	7.8	25.9	0.24
F33	23 May 2023	82	10.25	90.46	3.7	33.77	7.8	25.9	0.24
F33	23 May 2023	83	10.27	90.39	3.7	33.79	7.8	26.0	0.25
F33	23 May 2023	84	10.27	91.13	3.7	33.81	7.8	26.0	0.24
F33	23 May 2023	85	10.25	91.21	3.7	33.82	7.8	26.0	0.25
F33	23 May 2023	86	10.22	91.02	3.7	33.83	7.8	26.0	0.23
F33	23 May 2023	87	10.21	91.21	3.7	33.84	7.8	26.0	0.23
F33	23 May 2023	88	10.19	91.75	3.7	33.84	7.8	26.0	0.23
F33	23 May 2023	89	10.18	92.05	3.7	33.85	7.8	26.0	0.23
F33	23 May 2023	90	10.18	92.20	3.7	33.85	7.8	26.0	0.22
F33	23 May 2023	91	10.16	92.45	3.6	33.87	7.8	26.0	0.23
F33	23 May 2023	92	10.15	92.66	3.6	33.88	7.7	26.1	0.22
F33	23 May 2023	93	10.14	92.87	3.5	33.89	7.7	26.1	0.22
F33	23 May 2023	94	10.14	92.85	3.4	33.89	7.7	26.1	0.22
F33	23 May 2023	95	10.13	92.83	3.4	33.90	7.7	26.1	0.22
F33	23 May 2023	96	10.12	92.88	3.4	33.90	7.7	26.1	0.23
F33	23 May 2023	97	10.12	92.88	3.4	33.90	7.7	26.1	0.22
F33	23 May 2023	98	10.12	92.84	3.4	33.90	7.7	26.1	0.22
F33	23 May 2023	99	10.11	92.81	3.4	33.90	7.7	26.1	0.23
F33	23 May 2023	100	10.10	92.78	3.4	33.90	7.7	26.1	0.29
F33	23 May 2023	101	10.08	92.80	3.4	33.91	7.7	26.1	0.22
F33	23 May 2023	102	10.07	92.45	3.4	33.92	7.7	26.1	0.21
F34	23 May 2023	1	17.54	88.87	8.2	33.49	8.2	24.2	0.57
F34	23 May 2023	2	17.54	90.72	8.2	33.49	8.2	24.2	0.60
F34	23 May 2023	3	17.54	90.75	8.2	33.49	8.2	24.2	0.62
F34	23 May 2023	4	17.54	90.73	8.2	33.49	8.2	24.2	0.64
F34	23 May 2023	5	17.54	90.65	8.2	33.49	8.2	24.2	0.67
F34	23 May 2023	6	17.53	90.66	8.2	33.49	8.2	24.2	0.68
F34	23 May 2023	7	17.53	90.75	8.3	33.49	8.2	24.2	0.67
F34	23 May 2023	8	17.52	90.79	8.2	33.49	8.2	24.2	0.66
F34	23 May 2023	9	17.51	90.76	8.2	33.49	8.2	24.2	0.68
F34	23 May 2023	10	17.50	90.77	8.3	33.49	8.2	24.2	0.72
F34	23 May 2023	11	17.49	90.77	8.3	33.49	8.2	24.2	0.71
F34	23 May 2023	12	17.49	90.74	8.3	33.49	8.2	24.2	0.72
F34	23 May 2023	13	17.47	90.67	8.3	33.49	8.2	24.2	0.73

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F34	23 May 2023	14	17.47	90.60	8.3	33.50	8.2	24.2	0.75
F34	23 May 2023	15	17.43	90.51	8.4	33.50	8.2	24.3	0.78
F34	23 May 2023	16	17.28	90.49	8.5	33.49	8.2	24.3	0.83
F34	23 May 2023	17	16.98	90.46	8.7	33.47	8.2	24.3	0.86
F34	23 May 2023	18	16.74	90.48	8.8	33.46	8.2	24.4	0.87
F34	23 May 2023	19	16.45	90.57	9.0	33.45	8.2	24.4	0.90
F34	23 May 2023	20	16.15	90.68	9.0	33.43	8.2	24.5	0.94
F34	23 May 2023	21	15.80	90.60	9.0	33.43	8.2	24.6	1.07
F34	23 May 2023	22	15.16	90.29	9.2	33.42	8.2	24.7	1.31
F34	23 May 2023	23	14.57	90.04	9.2	33.40	8.2	24.8	1.45
F34	23 May 2023	24	14.46	90.28	9.2	33.39	8.2	24.8	1.49
F34	23 May 2023	25	14.36	90.85	9.1	33.39	8.2	24.9	1.86
F34	23 May 2023	26	13.95	90.94	8.9	33.39	8.2	25.0	1.69
F34	23 May 2023	27	13.32	90.45	8.6	33.40	8.2	25.1	1.80
F34	23 May 2023	28	13.01	89.96	8.3	33.41	8.1	25.2	2.28
F34	23 May 2023	29	12.70	90.08	8.1	33.39	8.1	25.2	2.35
F34	23 May 2023	30	12.65	89.62	7.9	33.39	8.1	25.2	2.68
F34	23 May 2023	31	12.59	89.27	7.8	33.40	8.1	25.2	2.89
F34	23 May 2023	32	12.54	89.22	7.6	33.40	8.1	25.2	4.43
F34	23 May 2023	33	12.47	88.40	7.2	33.41	8.1	25.3	4.61
F34	23 May 2023	34	12.16	87.59	6.8	33.42	8.0	25.3	3.48
F34	23 May 2023	35	12.06	89.01	6.6	33.42	8.0	25.4	3.23
F34	23 May 2023	36	12.02	89.53	6.4	33.42	8.0	25.4	3.07
F34	23 May 2023	37	11.96	89.86	6.3	33.44	8.0	25.4	2.76
F34	23 May 2023	38	11.81	89.88	6.1	33.46	8.0	25.4	2.81
F34	23 May 2023	39	11.72	90.35	5.9	33.48	7.9	25.5	2.17
F34	23 May 2023	40	11.66	91.48	5.8	33.48	7.9	25.5	1.79
F34	23 May 2023	41	11.58	91.72	5.8	33.47	7.9	25.5	1.44
F34	23 May 2023	42	11.51	92.04	5.8	33.47	7.9	25.5	1.20
F34	23 May 2023	43	11.41	92.23	5.8	33.47	7.9	25.5	1.04
F34	23 May 2023	44	11.26	92.33	5.7	33.47	7.9	25.5	0.73
F34	23 May 2023	45	11.17	92.66	5.6	33.49	7.9	25.6	0.83
F34	23 May 2023	46	11.17	93.02	5.6	33.49	7.9	25.6	0.79
F34	23 May 2023	47	11.14	93.10	5.6	33.49	7.9	25.6	0.65
F34	23 May 2023	48	11.05	93.07	5.6	33.48	7.9	25.6	0.59
F34	23 May 2023	49	10.92	93.16	5.6	33.48	7.9	25.6	0.57
F34	23 May 2023	50	10.88	93.29	5.6	33.48	7.9	25.6	0.54
F34	23 May 2023	51	10.79	93.50	5.6	33.48	7.9	25.6	0.67
F34	23 May 2023	52	10.73	93.59	5.6	33.49	7.9	25.6	0.47
F34	23 May 2023	53	10.76	93.68	5.4	33.52	7.9	25.7	0.45
F34	23 May 2023	54	10.77	93.75	5.2	33.55	7.9	25.7	0.43
F34	23 May 2023	55	10.71	93.74	5.2	33.56	7.9	25.7	0.41
F34	23 May 2023	56	10.60	93.88	5.3	33.56	7.9	25.7	0.38
F34	23 May 2023	57	10.56	93.88	5.4	33.56	7.9	25.7	0.37
F34	23 May 2023	58	10.54	93.90	5.4	33.56	7.9	25.7	0.37
F34	23 May 2023	59	10.48	93.90	5.3	33.58	7.9	25.8	0.36
F34	23 May 2023	60	10.45	93.91	5.1	33.62	7.9	25.8	0.32
F34	23 May 2023	61	10.45	94.02	5.0	33.63	7.9	25.8	0.31
F34	23 May 2023	62	10.45	94.03	5.0	33.64	7.9	25.8	0.31
F34	23 May 2023	63	10.46	93.99	4.9	33.65	7.8	25.8	0.31
F34	23 May 2023	64	10.46	94.01	4.9	33.66	7.8	25.8	0.31
F34	23 May 2023	65	10.46	94.05	4.8	33.66	7.8	25.8	0.29
F34	23 May 2023	66	10.46	93.99	4.8	33.66	7.8	25.8	0.30
F34	23 May 2023	67	10.46	93.95	4.8	33.66	7.8	25.8	0.51
F34	23 May 2023	68	10.45	93.95	4.8	33.68	7.8	25.8	0.41
F34	23 May 2023	69	10.44	94.01	4.7	33.69	7.8	25.9	0.32
F34	23 May 2023	70	10.44	94.06	4.7	33.69	7.8	25.9	0.30
F34	23 May 2023	71	10.44	94.03	4.7	33.70	7.8	25.9	0.28
F34	23 May 2023	72	10.44	93.99	4.6	33.70	7.8	25.9	0.27
F34	23 May 2023	73	10.44	93.96	4.6	33.70	7.8	25.9	0.28
F34	23 May 2023	74	10.44	94.00	4.6	33.71	7.8	25.9	0.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F34	23 May 2023	75	10.45	94.03	4.6	33.72	7.8	25.9	0.27
F34	23 May 2023	76	10.43	94.07	4.5	33.73	7.8	25.9	0.27
F34	23 May 2023	77	10.42	94.07	4.5	33.73	7.8	25.9	0.27
F34	23 May 2023	78	10.41	94.05	4.5	33.74	7.8	25.9	0.26
F34	23 May 2023	79	10.40	94.03	4.4	33.74	7.8	25.9	0.26
F34	23 May 2023	80	10.36	94.07	4.4	33.75	7.8	25.9	0.25
F34	23 May 2023	81	10.32	94.05	4.4	33.76	7.8	25.9	0.25
F34	23 May 2023	82	10.30	94.03	4.3	33.77	7.8	25.9	0.26
F34	23 May 2023	83	10.24	93.98	4.1	33.81	7.8	26.0	0.24
F34	23 May 2023	84	10.20	93.85	4.0	33.83	7.8	26.0	0.23
F34	23 May 2023	85	10.19	93.58	3.9	33.84	7.8	26.0	0.25
F34	23 May 2023	86	10.18	93.56	3.8	33.85	7.8	26.0	0.23
F34	23 May 2023	87	10.17	93.53	3.8	33.85	7.8	26.0	0.23
F34	23 May 2023	88	10.16	93.33	3.7	33.87	7.8	26.0	0.23
F34	23 May 2023	89	10.15	93.18	3.6	33.87	7.8	26.0	0.23
F34	23 May 2023	90	10.15	93.21	3.6	33.87	7.7	26.0	0.23
F34	23 May 2023	91	10.13	93.10	3.5	33.89	7.7	26.1	0.22
F34	23 May 2023	92	10.12	92.94	3.4	33.90	7.7	26.1	0.22
F34	23 May 2023	93	10.11	92.85	3.4	33.90	7.7	26.1	0.22
F34	23 May 2023	94	10.10	92.90	3.4	33.90	7.7	26.1	0.22
F34	23 May 2023	95	10.09	92.94	3.4	33.91	7.7	26.1	0.21
F34	23 May 2023	96	10.08	92.99	3.4	33.91	7.7	26.1	0.21
F34	23 May 2023	97	10.08	93.01	3.4	33.91	7.7	26.1	0.22
F34	23 May 2023	98	10.07	92.95	3.4	33.91	7.7	26.1	0.21
F34	23 May 2023	99	10.07	92.23	3.4	33.92	7.7	26.1	0.22
F34	23 May 2023	100	10.07	92.01	3.4	33.92	7.7	26.1	0.24
F34	23 May 2023	101	10.07	85.08	3.4	33.92	7.7	26.1	0.21
F35	23 May 2023	1	17.49	88.98	8.2	33.48	8.2	24.2	0.51
F35	23 May 2023	2	17.48	90.99	8.2	33.49	8.2	24.2	0.54
F35	23 May 2023	3	17.48	90.98	8.2	33.49	8.2	24.2	0.55
F35	23 May 2023	4	17.48	91.17	8.2	33.49	8.2	24.2	0.57
F35	23 May 2023	5	17.48	91.26	8.2	33.49	8.2	24.2	0.58
F35	23 May 2023	6	17.47	91.27	8.2	33.48	8.2	24.2	0.57
F35	23 May 2023	7	17.47	91.31	8.2	33.49	8.2	24.2	0.56
F35	23 May 2023	8	17.46	91.28	8.1	33.49	8.2	24.2	0.56
F35	23 May 2023	9	17.45	91.26	8.2	33.48	8.2	24.2	0.57
F35	23 May 2023	10	17.44	91.27	8.2	33.48	8.2	24.2	0.56
F35	23 May 2023	11	17.43	91.24	8.2	33.48	8.2	24.2	0.56
F35	23 May 2023	12	17.41	91.21	8.2	33.48	8.2	24.3	0.58
F35	23 May 2023	13	17.38	91.21	8.3	33.48	8.2	24.3	0.62
F35	23 May 2023	14	17.27	91.22	8.3	33.48	8.2	24.3	0.64
F35	23 May 2023	15	17.13	91.02	8.5	33.48	8.2	24.3	0.68
F35	23 May 2023	16	17.02	90.78	8.6	33.47	8.2	24.3	0.74
F35	23 May 2023	17	16.85	90.50	8.7	33.46	8.2	24.4	0.80
F35	23 May 2023	18	16.68	90.35	8.8	33.45	8.2	24.4	0.86
F35	23 May 2023	19	16.26	90.33	9.0	33.44	8.2	24.5	0.90
F35	23 May 2023	20	15.87	90.39	9.3	33.42	8.2	24.6	0.99
F35	23 May 2023	21	15.71	90.31	9.2	33.42	8.2	24.6	1.07
F35	23 May 2023	22	14.90	90.19	9.4	33.42	8.2	24.8	1.26
F35	23 May 2023	23	14.60	90.15	9.5	33.39	8.2	24.8	1.31
F35	23 May 2023	24	14.46	90.73	9.4	33.39	8.2	24.8	1.33
F35	23 May 2023	25	14.16	90.81	9.3	33.40	8.2	24.9	1.38
F35	23 May 2023	26	13.91	90.58	9.2	33.40	8.2	25.0	1.54
F35	23 May 2023	27	13.77	90.24	9.1	33.40	8.2	25.0	1.68
F35	23 May 2023	28	13.54	90.21	8.9	33.41	8.2	25.1	1.79
F35	23 May 2023	29	13.38	89.80	8.7	33.40	8.1	25.1	1.98
F35	23 May 2023	30	13.03	89.79	8.4	33.42	8.1	25.2	2.00
F35	23 May 2023	31	12.75	89.76	8.2	33.42	8.1	25.2	2.43
F35	23 May 2023	32	12.74	89.69	8.0	33.41	8.1	25.2	2.34
F35	23 May 2023	33	12.43	89.20	7.5	33.43	8.1	25.3	3.69

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F35	23 May 2023	34	12.22	87.98	6.9	33.44	8.0	25.3	5.69
F35	23 May 2023	35	12.03	86.74	6.3	33.45	8.0	25.4	4.85
F35	23 May 2023	36	11.80	89.22	5.9	33.48	8.0	25.4	2.96
F35	23 May 2023	37	11.72	90.34	5.8	33.49	7.9	25.5	2.46
F35	23 May 2023	38	11.64	91.24	5.7	33.48	7.9	25.5	1.63
F35	23 May 2023	39	11.56	91.48	5.6	33.49	7.9	25.5	1.55
F35	23 May 2023	40	11.38	92.14	5.6	33.50	7.9	25.5	1.04
F35	23 May 2023	41	11.11	92.81	5.7	33.48	7.9	25.6	0.83
F35	23 May 2023	42	10.99	93.17	5.8	33.46	7.9	25.6	0.69
F35	23 May 2023	43	10.93	93.24	5.8	33.46	7.9	25.6	0.66
F35	23 May 2023	44	10.89	93.25	5.7	33.48	7.9	25.6	0.60
F35	23 May 2023	45	10.87	93.32	5.6	33.49	7.9	25.6	0.57
F35	23 May 2023	46	10.88	93.28	5.5	33.50	7.9	25.6	0.51
F35	23 May 2023	47	10.89	93.21	5.4	33.51	7.9	25.6	0.52
F35	23 May 2023	48	10.89	93.38	5.4	33.52	7.9	25.6	0.51
F35	23 May 2023	49	10.84	93.38	5.3	33.53	7.9	25.7	0.49
F35	23 May 2023	50	10.82	93.41	5.3	33.53	7.9	25.7	0.44
F35	23 May 2023	51	10.75	93.44	5.4	33.53	7.9	25.7	0.45
F35	23 May 2023	52	10.67	93.60	5.4	33.54	7.9	25.7	0.40
F35	23 May 2023	53	10.66	93.75	5.4	33.54	7.9	25.7	0.45
F35	23 May 2023	54	10.59	93.78	5.4	33.56	7.9	25.7	0.38
F35	23 May 2023	55	10.56	93.83	5.4	33.55	7.9	25.7	0.38
F35	23 May 2023	56	10.55	93.80	5.4	33.55	7.9	25.7	0.36
F35	23 May 2023	57	10.50	93.84	5.5	33.55	7.9	25.7	0.37
F35	23 May 2023	58	10.47	93.94	5.5	33.56	7.9	25.7	0.36
F35	23 May 2023	59	10.45	93.91	5.4	33.57	7.9	25.8	0.38
F35	23 May 2023	60	10.45	93.85	5.4	33.57	7.9	25.8	0.37
F35	23 May 2023	61	10.43	93.99	5.4	33.58	7.9	25.8	0.35
F35	23 May 2023	62	10.43	93.95	5.4	33.58	7.9	25.8	0.34
F35	23 May 2023	63	10.43	93.87	5.3	33.58	7.9	25.8	0.33
F35	23 May 2023	64	10.42	94.03	5.3	33.59	7.9	25.8	0.33
F35	23 May 2023	65	10.42	94.01	5.3	33.59	7.9	25.8	0.35
F35	23 May 2023	66	10.42	94.06	5.2	33.60	7.9	25.8	0.31
F35	23 May 2023	67	10.42	94.03	5.1	33.62	7.8	25.8	0.31
F35	23 May 2023	68	10.42	94.01	5.0	33.63	7.8	25.8	0.31
F35	23 May 2023	69	10.42	94.02	5.0	33.65	7.8	25.8	0.31
F35	23 May 2023	70	10.42	94.06	4.9	33.66	7.8	25.8	0.30
F35	23 May 2023	71	10.42	94.12	4.9	33.66	7.8	25.8	0.29
F35	23 May 2023	72	10.43	94.05	4.8	33.66	7.8	25.8	0.29
F35	23 May 2023	73	10.43	94.02	4.8	33.67	7.8	25.8	0.30
F35	23 May 2023	74	10.43	94.06	4.8	33.67	7.8	25.8	0.31
F35	23 May 2023	75	10.43	94.15	4.8	33.67	7.8	25.8	0.27
F35	23 May 2023	76	10.43	94.13	4.8	33.68	7.8	25.8	0.28
F35	23 May 2023	77	10.43	94.12	4.7	33.68	7.8	25.9	0.28
F35	23 May 2023	78	10.42	94.11	4.7	33.69	7.8	25.9	0.27
F35	23 May 2023	79	10.42	94.05	4.7	33.69	7.8	25.9	0.26
F35	23 May 2023	80	10.41	94.02	4.6	33.70	7.8	25.9	0.26
F35	23 May 2023	81	10.41	94.01	4.6	33.71	7.8	25.9	0.25
F35	23 May 2023	82	10.41	94.03	4.6	33.71	7.8	25.9	0.25
F35	23 May 2023	83	10.40	94.05	4.5	33.72	7.8	25.9	0.24
F35	23 May 2023	84	10.39	94.06	4.5	33.73	7.8	25.9	0.25
F35	23 May 2023	85	10.38	94.02	4.5	33.73	7.8	25.9	0.25
F35	23 May 2023	86	10.34	94.00	4.4	33.75	7.8	25.9	0.25
F35	23 May 2023	87	10.30	93.96	4.3	33.77	7.8	25.9	0.24
F35	23 May 2023	88	10.23	93.96	4.1	33.81	7.8	26.0	0.22
F35	23 May 2023	89	10.19	93.83	4.0	33.83	7.8	26.0	0.23
F35	23 May 2023	90	10.15	93.78	3.8	33.85	7.8	26.0	0.22
F35	23 May 2023	91	10.14	93.78	3.7	33.86	7.8	26.0	0.21
F35	23 May 2023	92	10.14	93.60	3.6	33.88	7.7	26.1	0.22
F35	23 May 2023	93	10.13	93.41	3.5	33.88	7.7	26.1	0.22
F35	23 May 2023	94	10.12	93.25	3.5	33.89	7.7	26.1	0.22

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F35	23 May 2023	95	10.11	93.17	3.5	33.90	7.7	26.1	0.22
F35	23 May 2023	96	10.09	93.11	3.5	33.90	7.7	26.1	0.21
F35	23 May 2023	97	10.08	93.10	3.5	33.90	7.7	26.1	0.23
F35	23 May 2023	98	10.07	92.99	3.4	33.91	7.7	26.1	0.21
F35	23 May 2023	99	10.07	92.73	3.4	33.91	7.7	26.1	0.21
F35	23 May 2023	100	10.07	92.58	3.4	33.91	7.7	26.1	0.21
F36	23 May 2023	1	17.50	90.93	8.2	33.49	8.2	24.2	0.52
F36	23 May 2023	2	17.49	90.68	8.2	33.49	8.2	24.2	0.55
F36	23 May 2023	3	17.49	90.87	8.2	33.49	8.2	24.2	0.57
F36	23 May 2023	4	17.49	91.06	8.2	33.49	8.2	24.2	0.57
F36	23 May 2023	5	17.49	91.12	8.2	33.49	8.2	24.2	0.59
F36	23 May 2023	6	17.49	91.19	8.2	33.49	8.2	24.2	0.57
F36	23 May 2023	7	17.48	91.17	8.2	33.49	8.2	24.2	0.57
F36	23 May 2023	8	17.48	91.17	8.2	33.49	8.2	24.2	0.57
F36	23 May 2023	9	17.39	91.12	8.4	33.49	8.2	24.3	0.62
F36	23 May 2023	10	17.07	90.95	8.7	33.48	8.2	24.3	0.73
F36	23 May 2023	11	17.06	90.52	8.7	33.47	8.2	24.3	0.78
F36	23 May 2023	12	16.94	90.40	8.8	33.46	8.2	24.4	0.80
F36	23 May 2023	13	16.86	90.43	8.8	33.46	8.2	24.4	0.84
F36	23 May 2023	14	16.83	90.47	8.8	33.45	8.2	24.4	0.78
F36	23 May 2023	15	16.74	90.52	8.8	33.45	8.2	24.4	0.80
F36	23 May 2023	16	16.58	90.61	8.8	33.44	8.2	24.4	0.79
F36	23 May 2023	17	16.35	90.66	8.9	33.44	8.2	24.5	0.85
F36	23 May 2023	18	16.01	90.62	8.9	33.43	8.2	24.5	0.96
F36	23 May 2023	19	15.36	90.25	8.9	33.43	8.2	24.7	1.23
F36	23 May 2023	20	14.84	89.75	9.1	33.41	8.2	24.8	1.53
F36	23 May 2023	21	14.59	89.98	9.1	33.40	8.2	24.8	1.61
F36	23 May 2023	22	14.31	90.39	8.9	33.40	8.2	24.9	1.57
F36	23 May 2023	23	13.64	90.35	8.9	33.41	8.1	25.0	1.66
F36	23 May 2023	24	13.40	90.18	8.6	33.41	8.1	25.1	1.80
F36	23 May 2023	25	12.80	89.92	8.2	33.42	8.1	25.2	1.99
F36	23 May 2023	26	12.75	89.75	7.9	33.41	8.1	25.2	2.23
F36	23 May 2023	27	12.32	89.76	7.6	33.42	8.0	25.3	2.34
F36	23 May 2023	28	12.29	89.80	7.3	33.42	8.0	25.3	3.14
F36	23 May 2023	29	12.09	86.87	6.8	33.44	8.0	25.4	7.80
F36	23 May 2023	30	12.00	83.34	6.3	33.46	8.0	25.4	8.35
F36	23 May 2023	31	11.76	85.46	5.8	33.48	7.9	25.5	3.84
F36	23 May 2023	32	11.71	90.24	5.7	33.49	7.9	25.5	3.40
F36	23 May 2023	33	11.69	89.66	5.6	33.50	7.9	25.5	3.25
F36	23 May 2023	34	11.63	89.69	5.5	33.51	7.9	25.5	2.82
F36	23 May 2023	35	11.61	90.60	5.4	33.52	7.9	25.5	1.95
F36	23 May 2023	36	11.58	91.01	5.4	33.53	7.9	25.5	1.68
F36	23 May 2023	37	11.56	91.54	5.3	33.53	7.9	25.5	1.47
F36	23 May 2023	38	11.50	91.67	5.3	33.54	7.9	25.6	1.41
F36	23 May 2023	39	11.28	92.25	5.3	33.55	7.9	25.6	0.88
F36	23 May 2023	40	11.15	92.89	5.4	33.53	7.9	25.6	0.78
F36	23 May 2023	41	11.01	92.90	5.5	33.50	7.9	25.6	0.72
F36	23 May 2023	42	10.95	92.62	5.5	33.52	7.9	25.6	0.64
F36	23 May 2023	43	10.90	93.14	5.4	33.53	7.9	25.6	0.58
F36	23 May 2023	44	10.83	93.40	5.3	33.54	7.9	25.7	0.49
F36	23 May 2023	45	10.83	93.48	5.3	33.55	7.9	25.7	0.42
F36	23 May 2023	46	10.83	93.39	5.2	33.56	7.9	25.7	0.45
F36	23 May 2023	47	10.85	93.50	5.2	33.57	7.9	25.7	0.43
F36	23 May 2023	48	10.85	93.64	5.1	33.58	7.8	25.7	0.39
F36	23 May 2023	49	10.85	93.65	5.1	33.59	7.8	25.7	0.40
F36	23 May 2023	50	10.85	93.67	5.1	33.59	7.8	25.7	0.40
F36	23 May 2023	51	10.85	93.71	5.0	33.59	7.8	25.7	0.46
F36	23 May 2023	52	10.78	93.73	5.1	33.59	7.8	25.7	0.37
F36	23 May 2023	53	10.64	93.83	5.2	33.58	7.8	25.7	0.46
F36	23 May 2023	54	10.61	93.87	5.2	33.58	7.9	25.7	0.36

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
F36	23 May 2023	55	10.50	93.91	5.3	33.58	7.9	25.8	0.35
F36	23 May 2023	56	10.43	93.91	5.3	33.59	7.9	25.8	0.35
F36	23 May 2023	57	10.41	93.94	5.3	33.60	7.9	25.8	0.33
F36	23 May 2023	58	10.41	94.00	5.2	33.61	7.8	25.8	0.32
F36	23 May 2023	59	10.41	94.03	5.1	33.62	7.8	25.8	0.31
F36	23 May 2023	60	10.40	94.09	5.1	33.63	7.8	25.8	0.29
F36	23 May 2023	61	10.39	94.07	5.0	33.64	7.8	25.8	0.29
F36	23 May 2023	62	10.38	94.12	5.0	33.65	7.8	25.8	0.28
F36	23 May 2023	63	10.38	94.11	5.0	33.66	7.8	25.8	0.30
F36	23 May 2023	64	10.37	94.13	4.9	33.66	7.8	25.8	0.28
F36	23 May 2023	65	10.37	94.13	4.9	33.66	7.8	25.8	0.28
F36	23 May 2023	66	10.38	94.10	4.9	33.67	7.8	25.8	0.29
F36	23 May 2023	67	10.38	94.12	4.8	33.67	7.8	25.9	0.31
F36	23 May 2023	68	10.38	94.09	4.8	33.68	7.8	25.9	0.28
F36	23 May 2023	69	10.38	94.06	4.8	33.68	7.8	25.9	0.32
F36	23 May 2023	70	10.39	94.04	4.8	33.68	7.8	25.9	0.28
F36	23 May 2023	71	10.40	94.10	4.7	33.69	7.8	25.9	0.29
F36	23 May 2023	72	10.40	94.12	4.7	33.69	7.8	25.9	0.28
F36	23 May 2023	73	10.40	94.14	4.7	33.70	7.8	25.9	0.28
F36	23 May 2023	74	10.40	94.14	4.7	33.70	7.8	25.9	0.28
F36	23 May 2023	75	10.39	94.05	4.6	33.70	7.8	25.9	0.27
F36	23 May 2023	76	10.39	94.02	4.6	33.71	7.8	25.9	0.26
F36	23 May 2023	77	10.39	94.02	4.6	33.71	7.8	25.9	0.28
F36	23 May 2023	78	10.39	94.05	4.6	33.71	7.8	25.9	0.28
F36	23 May 2023	79	10.38	94.05	4.5	33.72	7.8	25.9	0.26
F36	23 May 2023	80	10.38	94.01	4.5	33.73	7.8	25.9	0.26
F36	23 May 2023	81	10.36	94.05	4.4	33.74	7.8	25.9	0.27
F36	23 May 2023	82	10.29	94.02	4.3	33.77	7.8	25.9	0.26
F36	23 May 2023	83	10.28	93.93	4.2	33.78	7.8	25.9	0.25
F36	23 May 2023	84	10.20	93.91	4.1	33.81	7.8	26.0	0.24
F36	23 May 2023	85	10.13	93.88	3.8	33.85	7.8	26.0	0.23
F36	23 May 2023	86	10.12	93.65	3.7	33.87	7.7	26.0	0.22
F36	23 May 2023	87	10.13	93.42	3.7	33.87	7.7	26.0	0.22
F36	23 May 2023	88	10.12	93.28	3.6	33.88	7.7	26.1	0.23
F36	23 May 2023	89	10.11	93.22	3.6	33.88	7.7	26.1	0.22
F36	23 May 2023	90	10.11	93.27	3.6	33.88	7.7	26.1	0.22
F36	23 May 2023	91	10.09	93.07	3.6	33.89	7.7	26.1	0.22
F36	23 May 2023	92	10.09	92.86	3.6	33.89	7.7	26.1	0.22
F36	23 May 2023	93	10.09	92.77	3.6	33.89	7.7	26.1	0.23
F36	23 May 2023	94	10.09	92.69	3.6	33.89	7.7	26.1	0.22
F36	23 May 2023	95	10.09	92.72	3.5	33.89	7.7	26.1	0.22
F36	23 May 2023	96	10.09	92.66	3.5	33.89	7.7	26.1	0.22
F36	23 May 2023	97	10.08	92.46	3.5	33.89	7.7	26.1	0.22
F36	23 May 2023	98	10.07	92.44	3.5	33.90	7.7	26.1	0.23
F36	23 May 2023	99	10.06	92.23	3.5	33.91	7.7	26.1	0.22
F36	23 May 2023	100	10.06	91.97	3.5	33.91	7.7	26.1	0.21

NA = not available

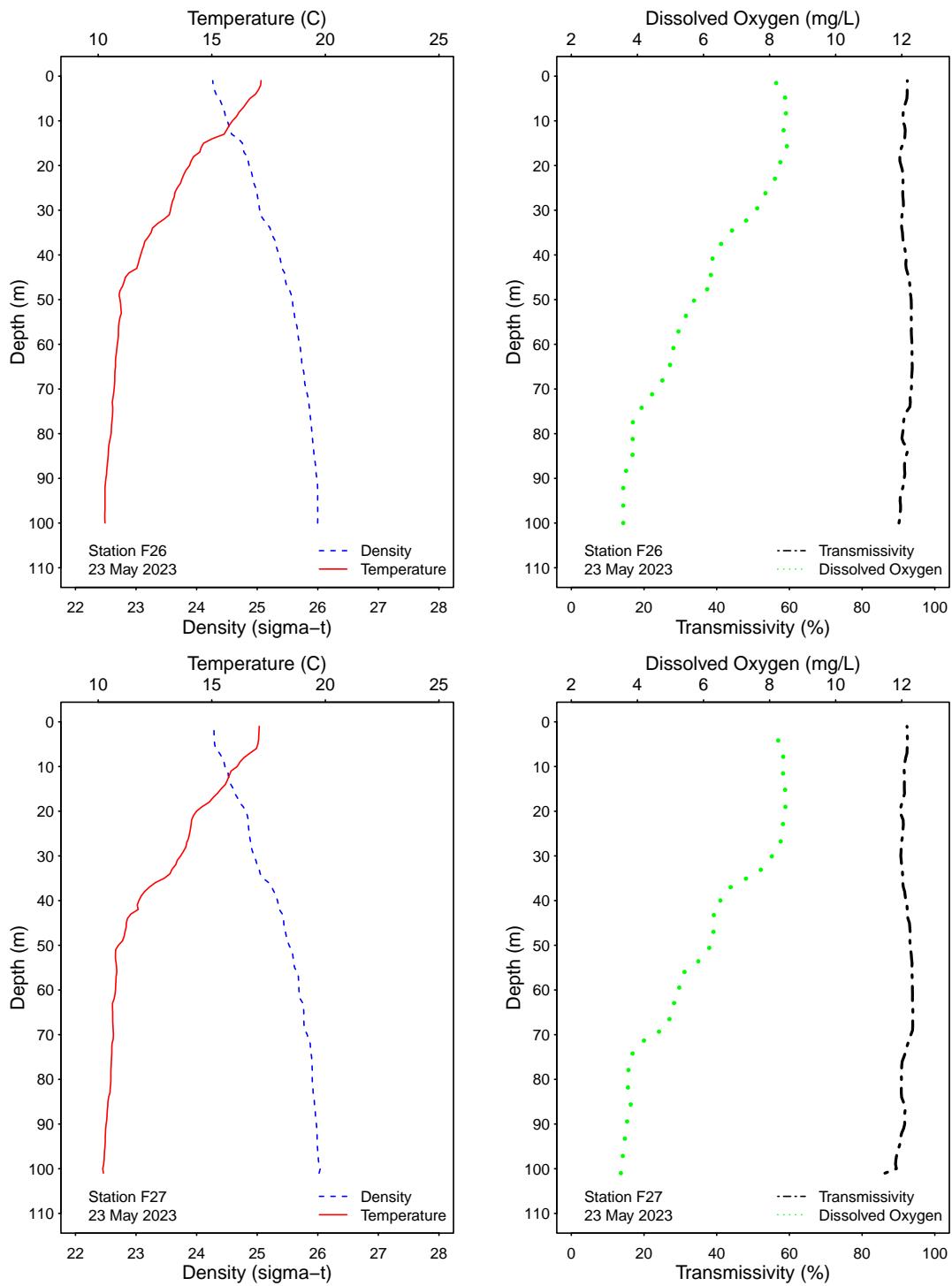


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

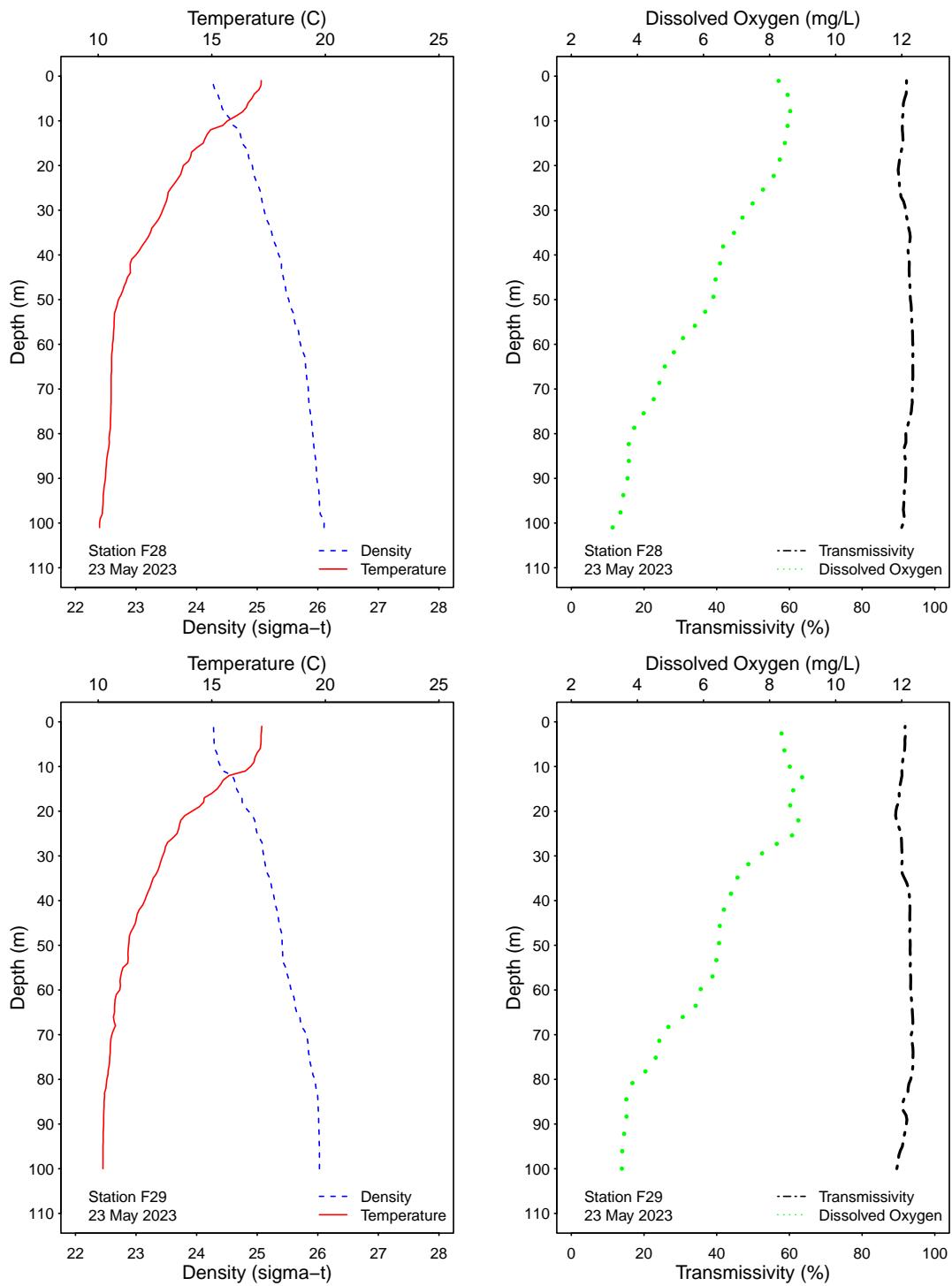


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

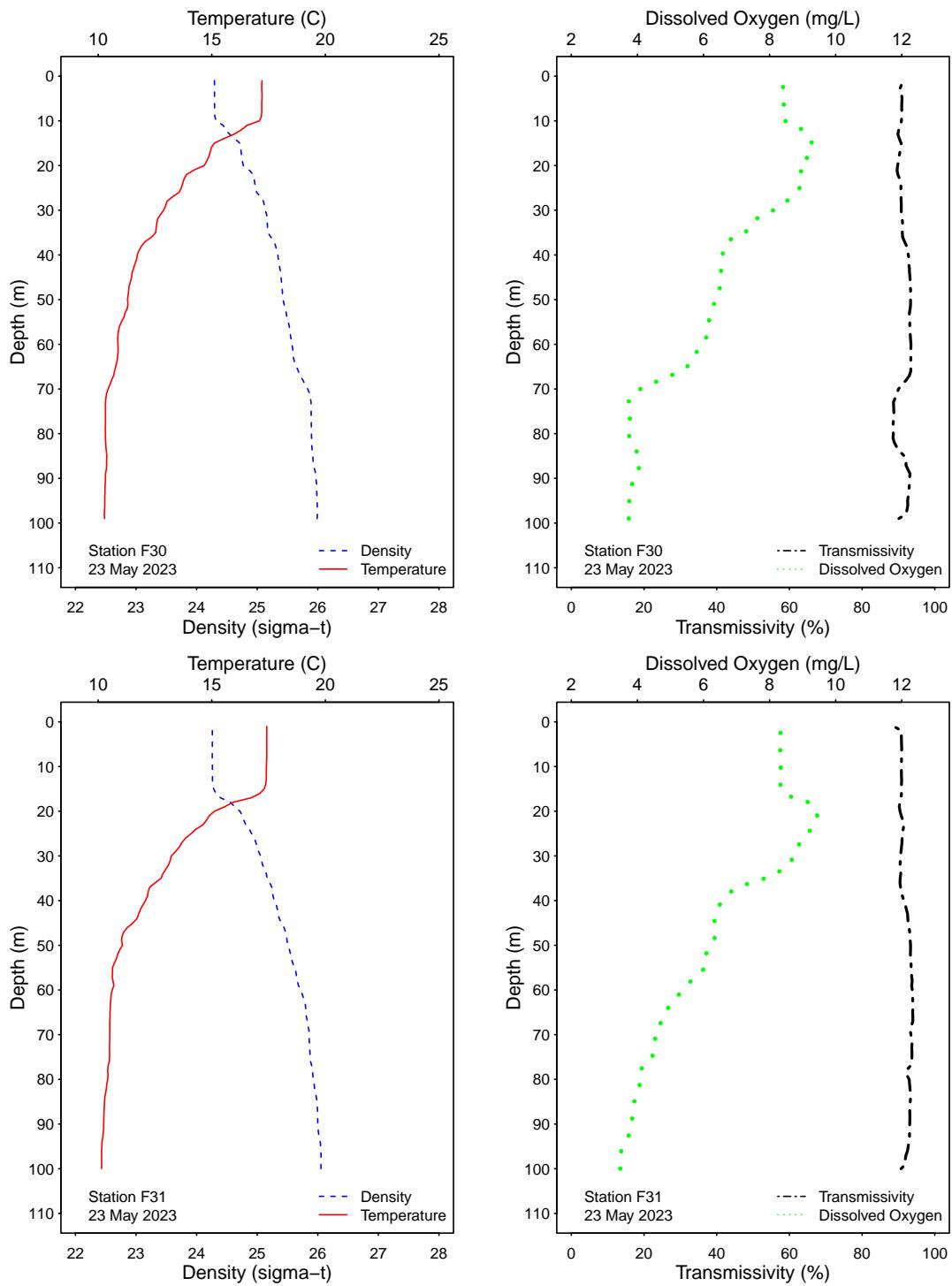


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

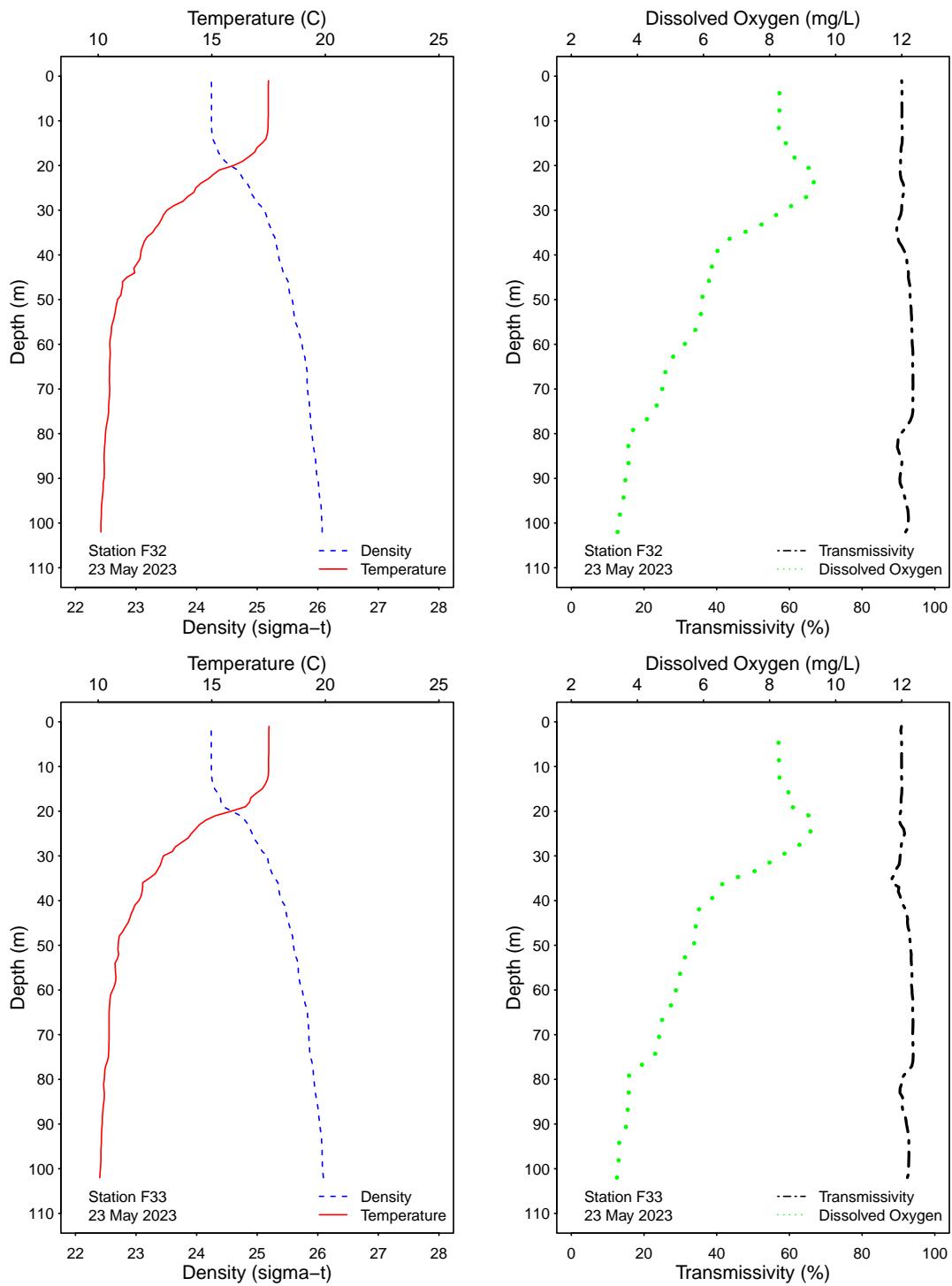


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

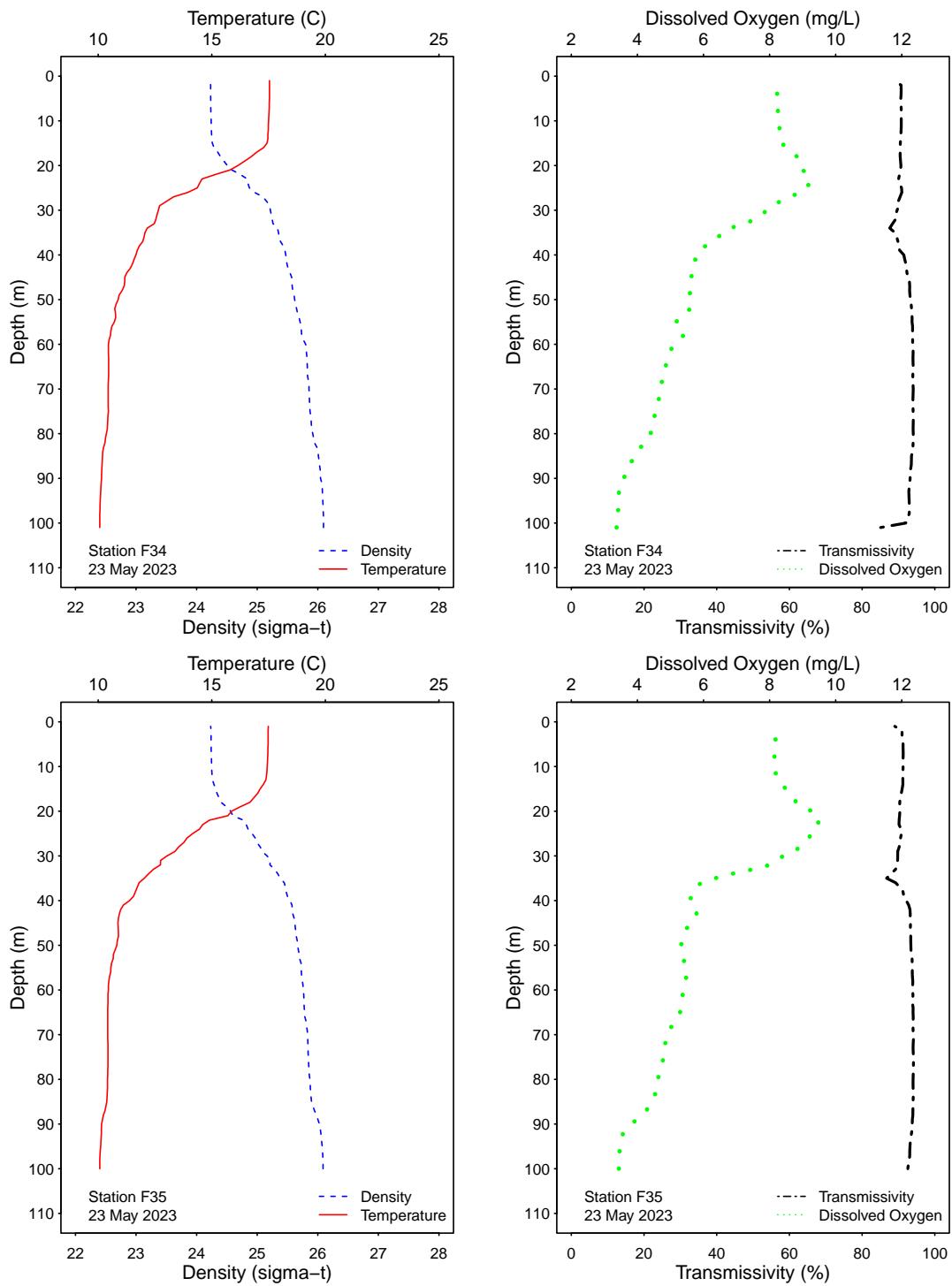


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

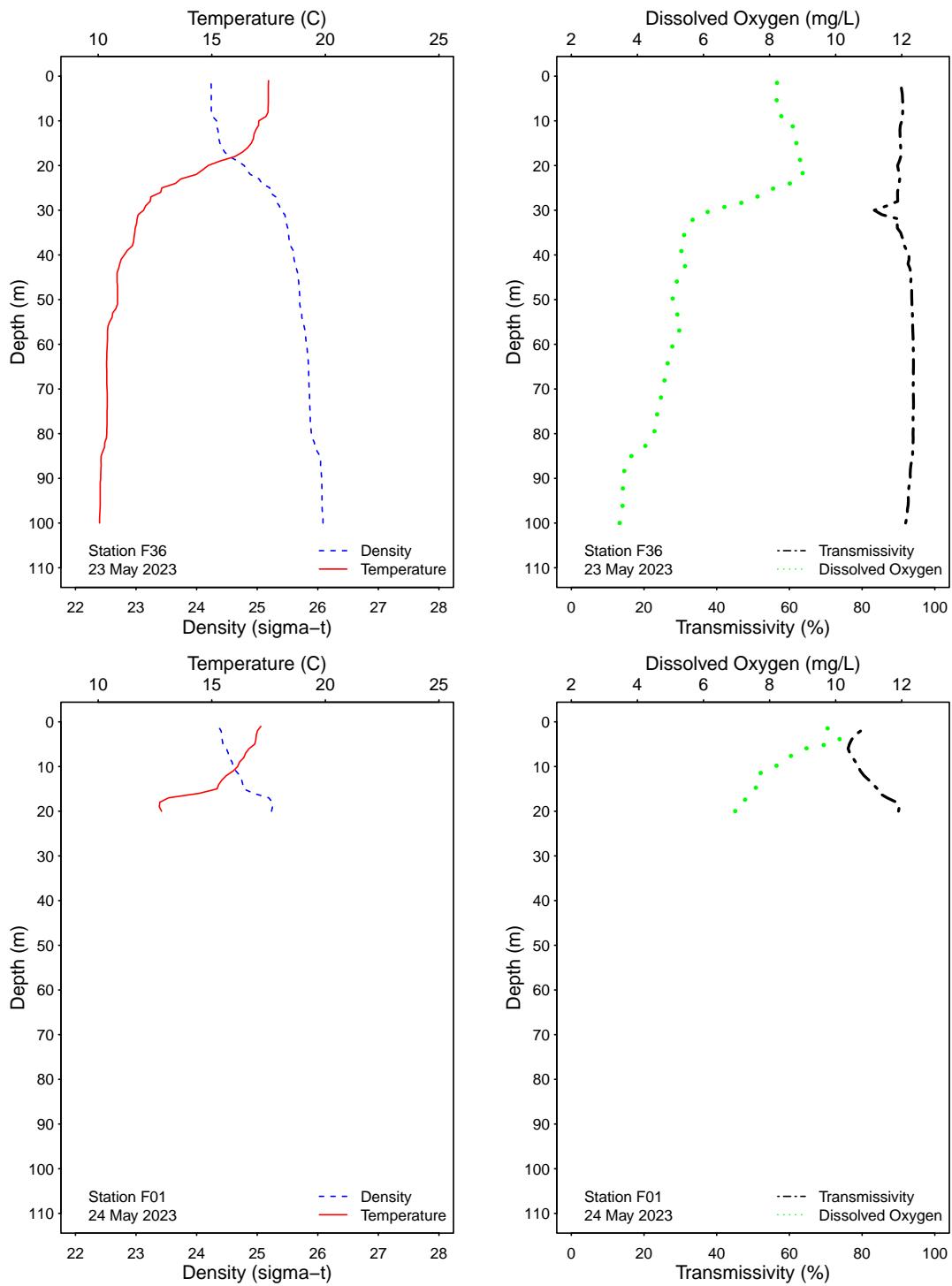


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

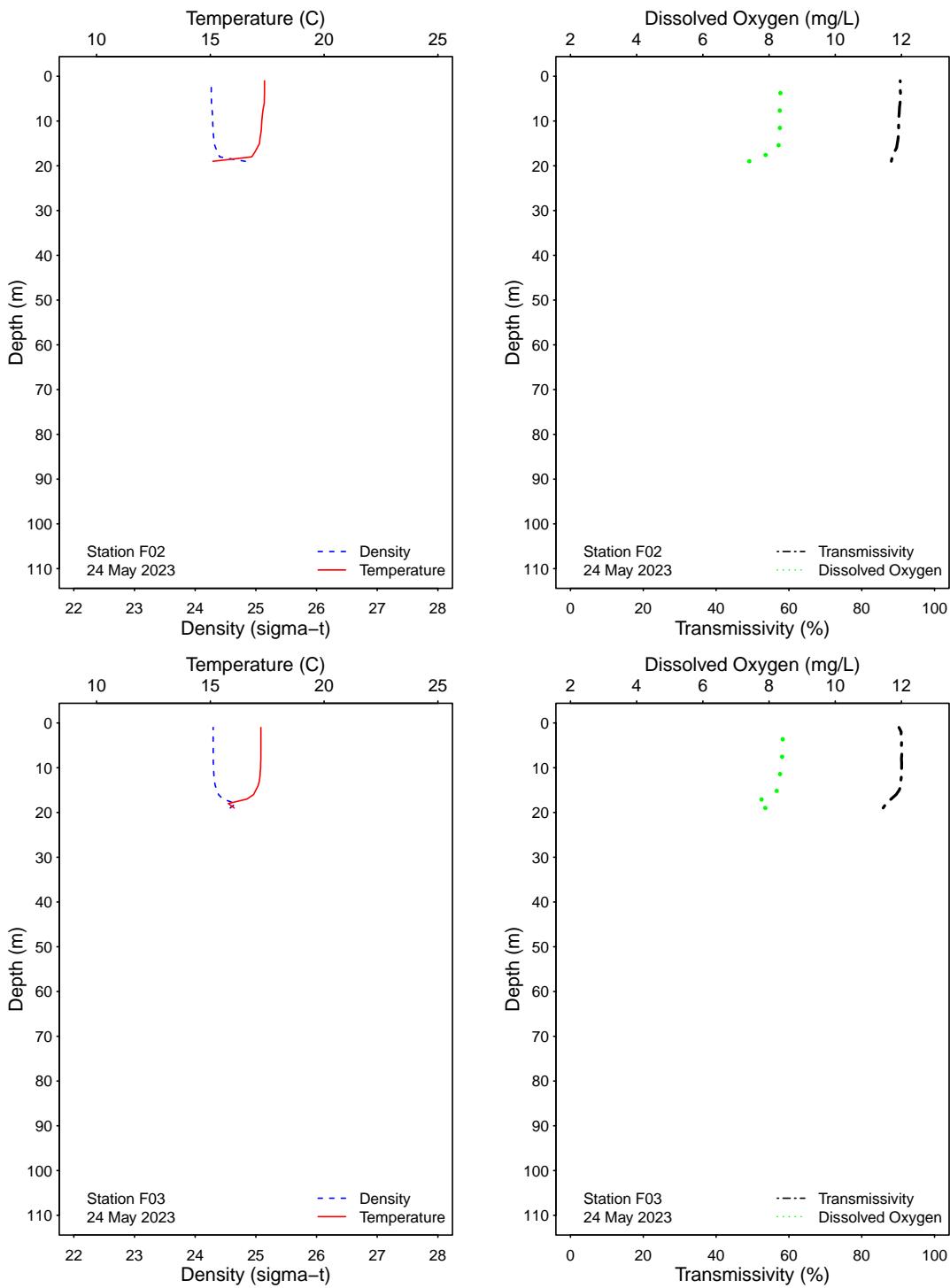


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

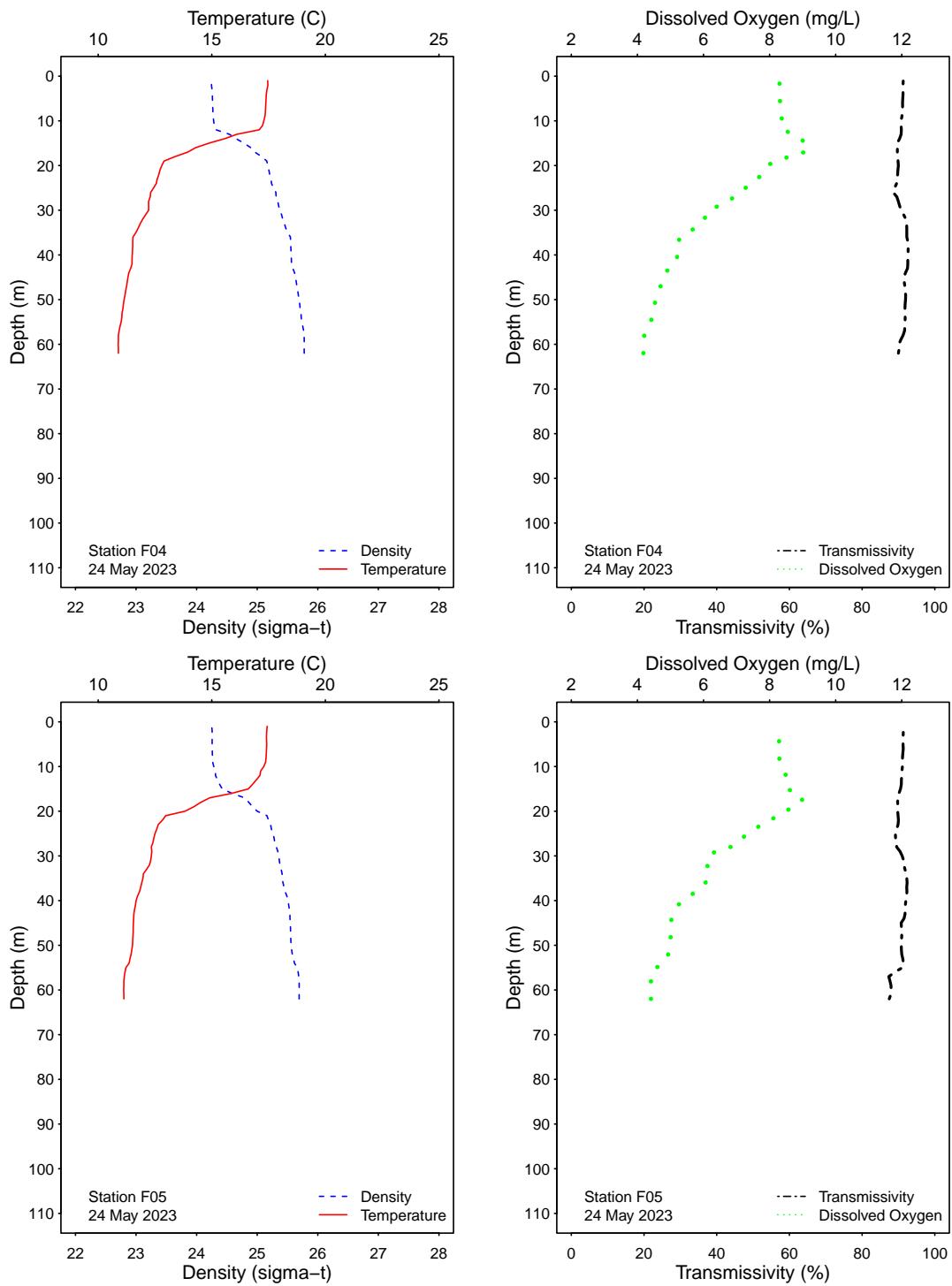


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

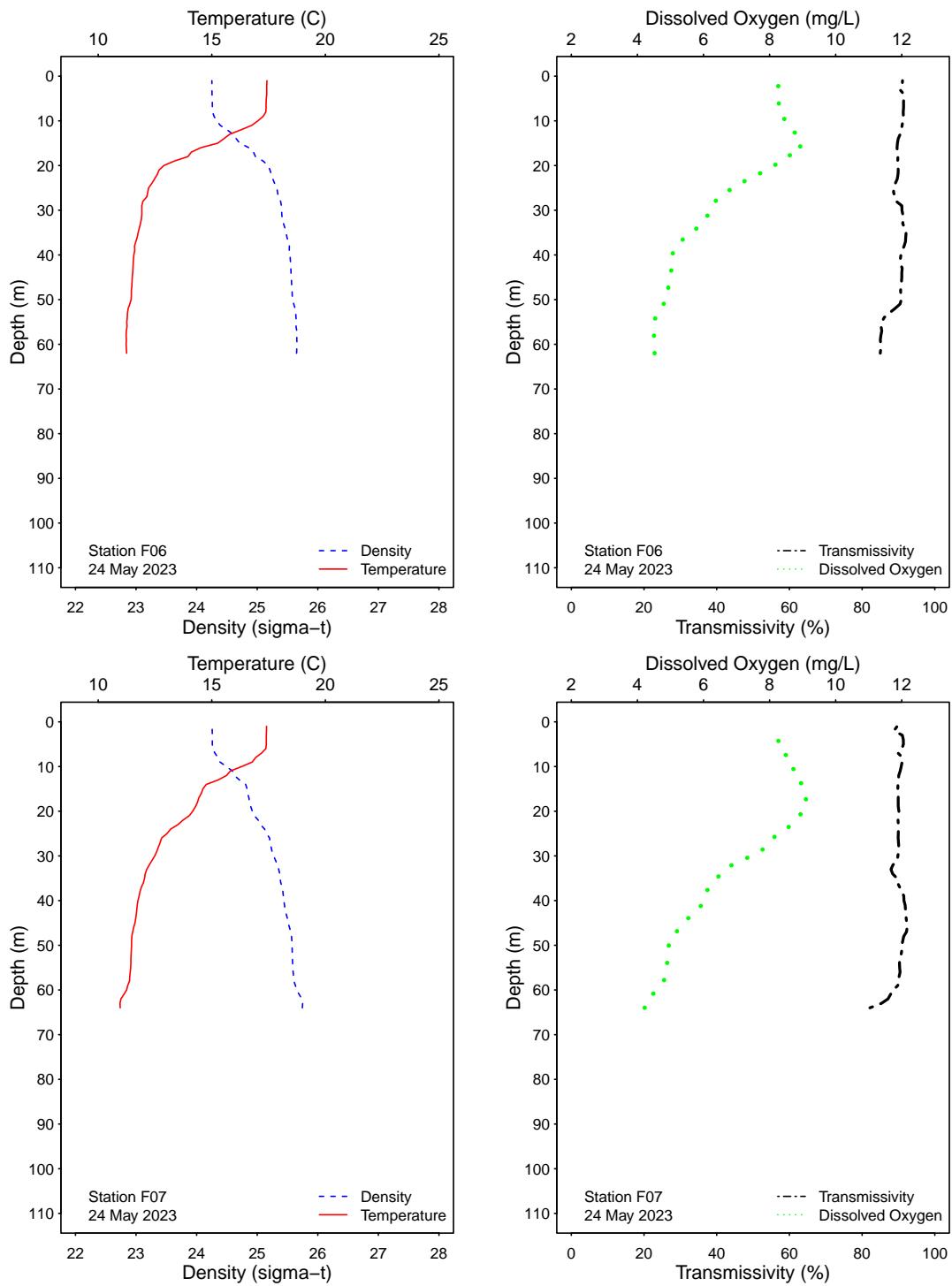


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

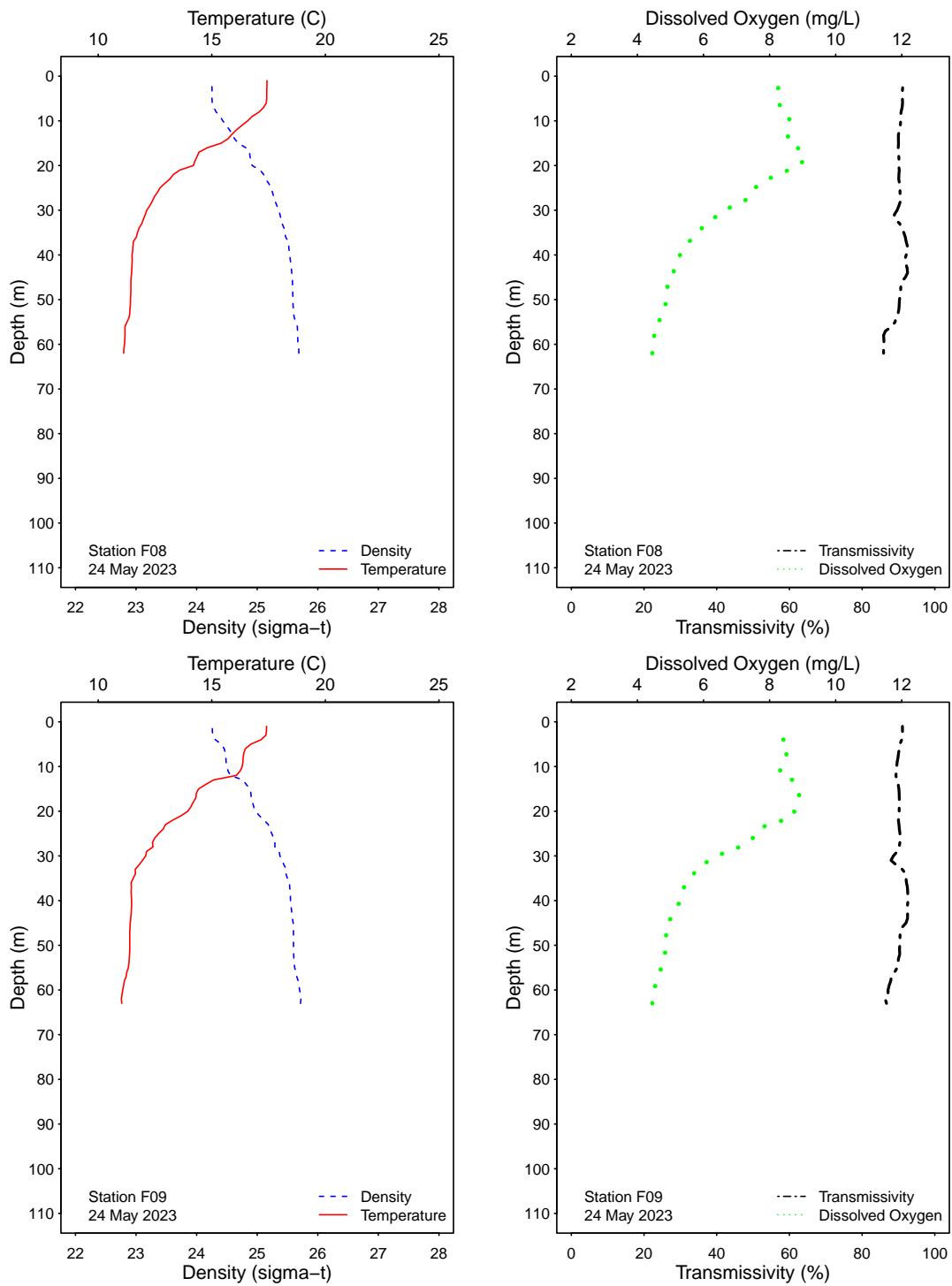


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

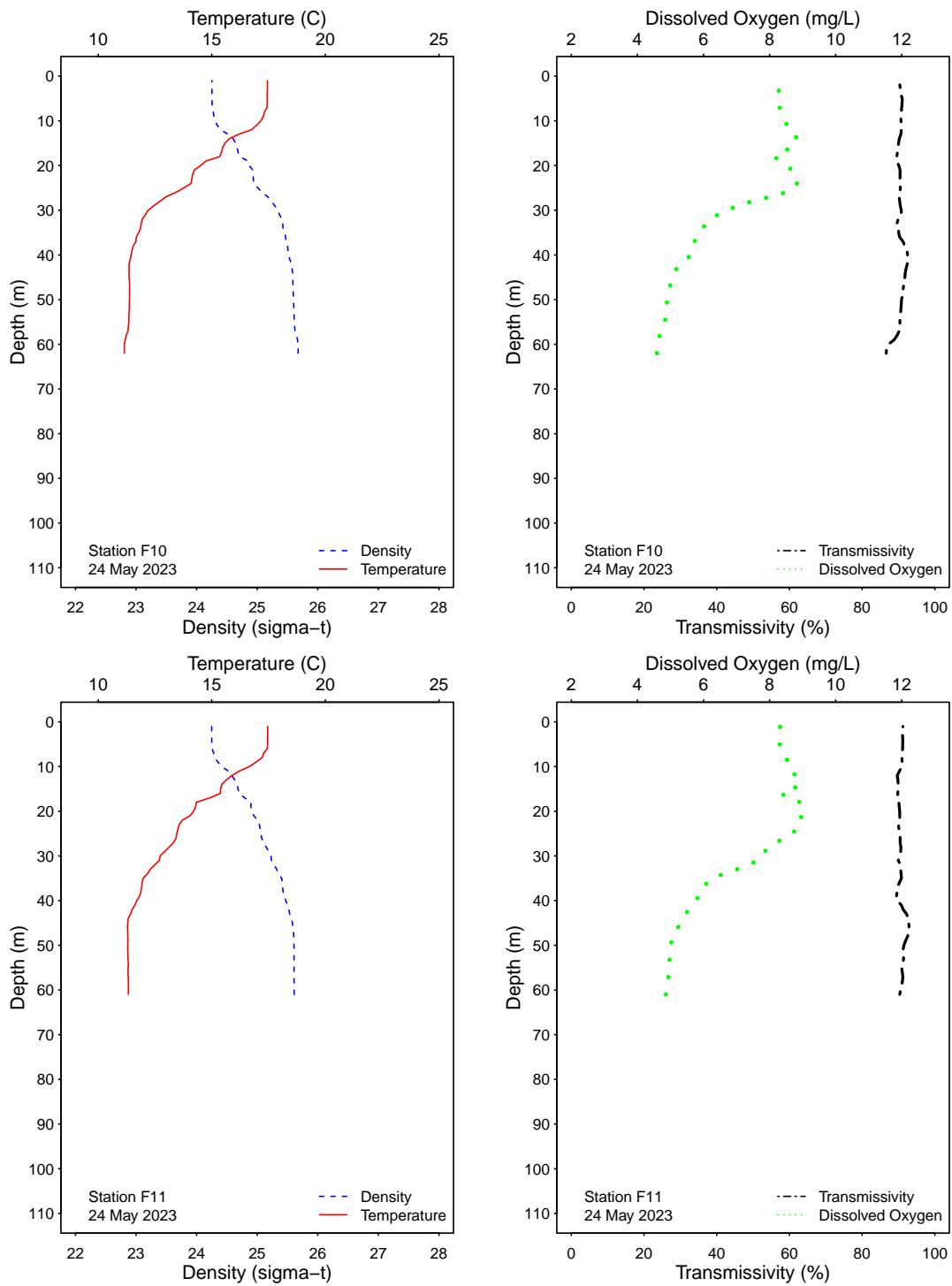


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

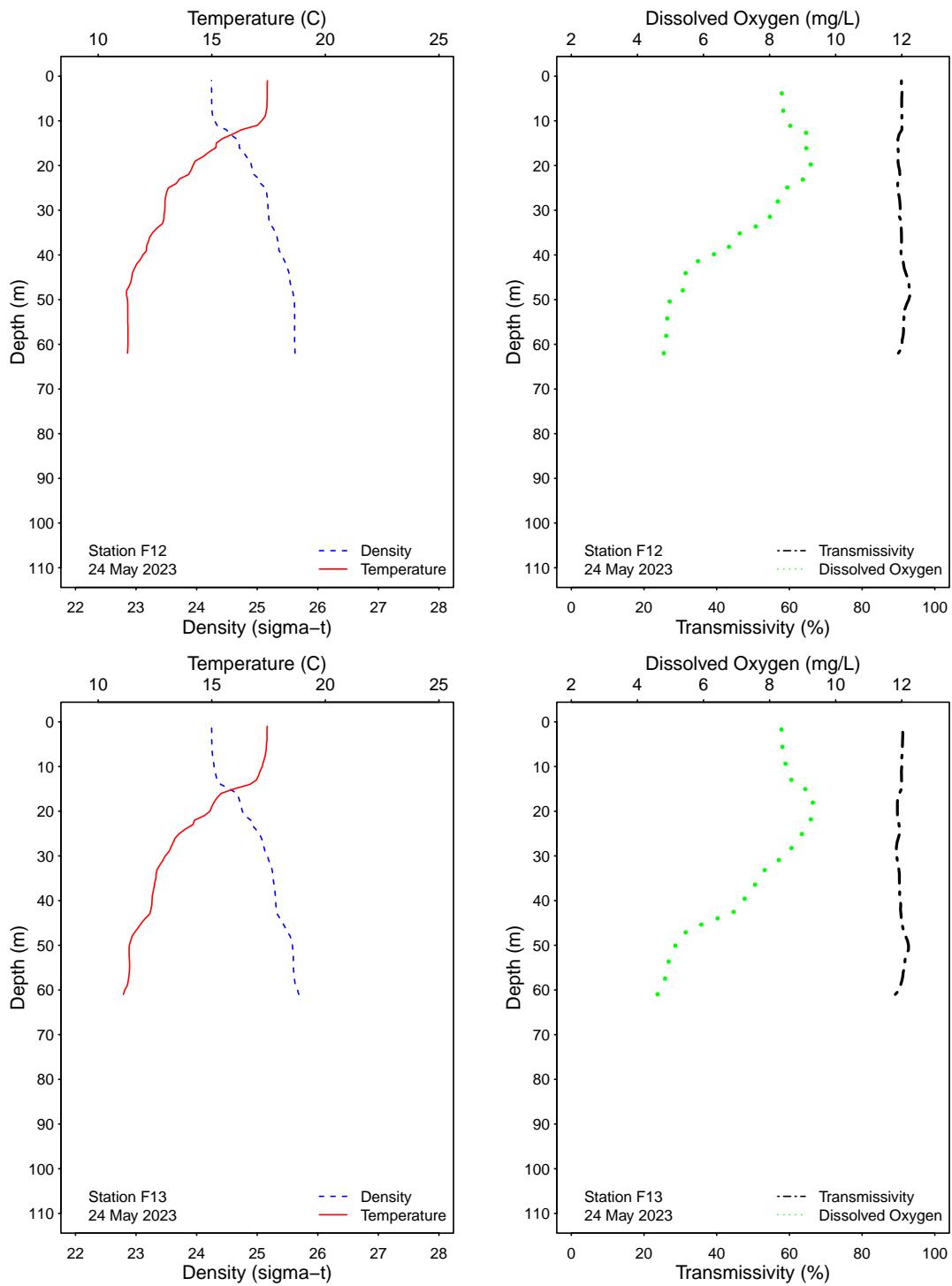


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

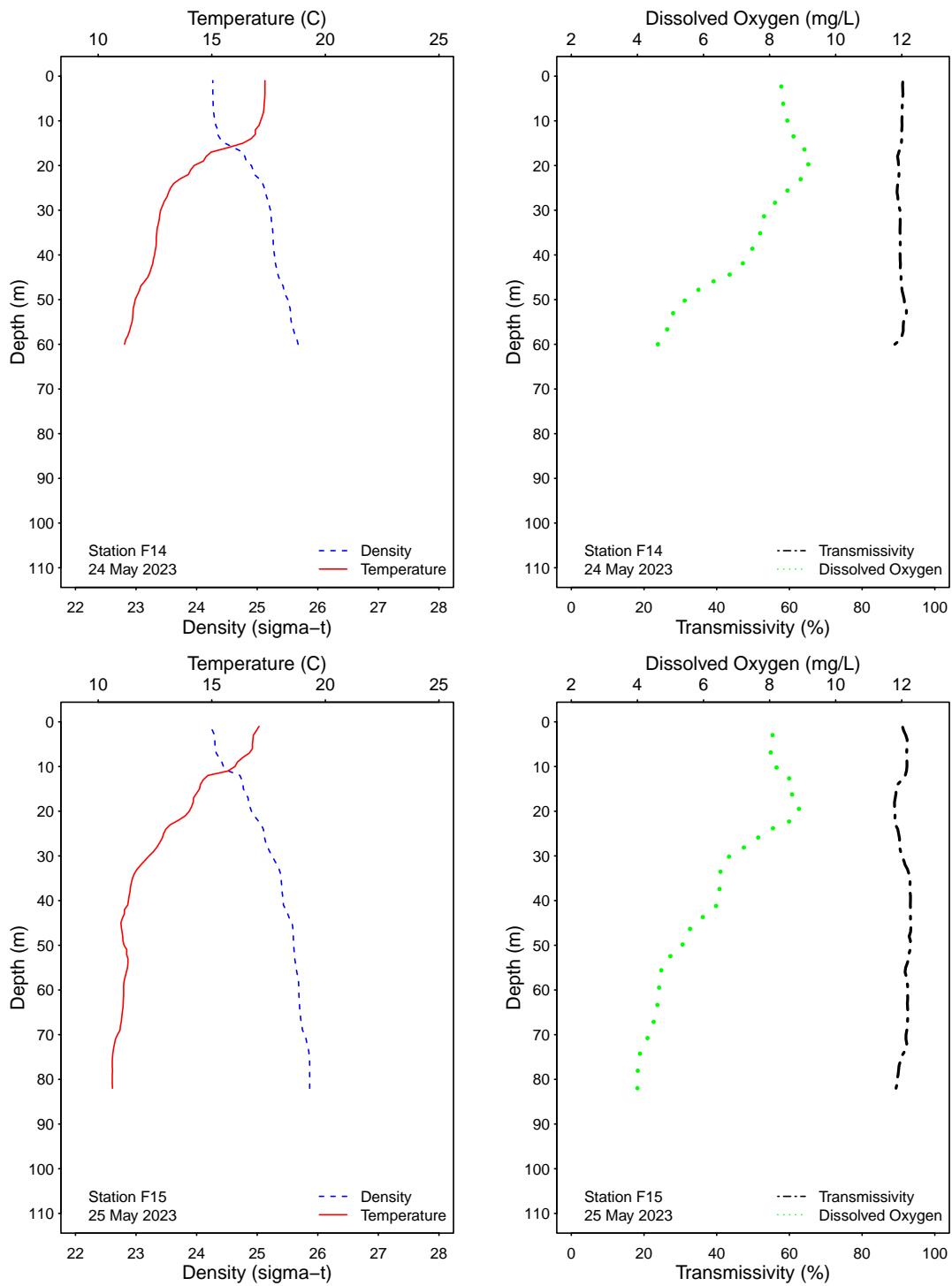


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

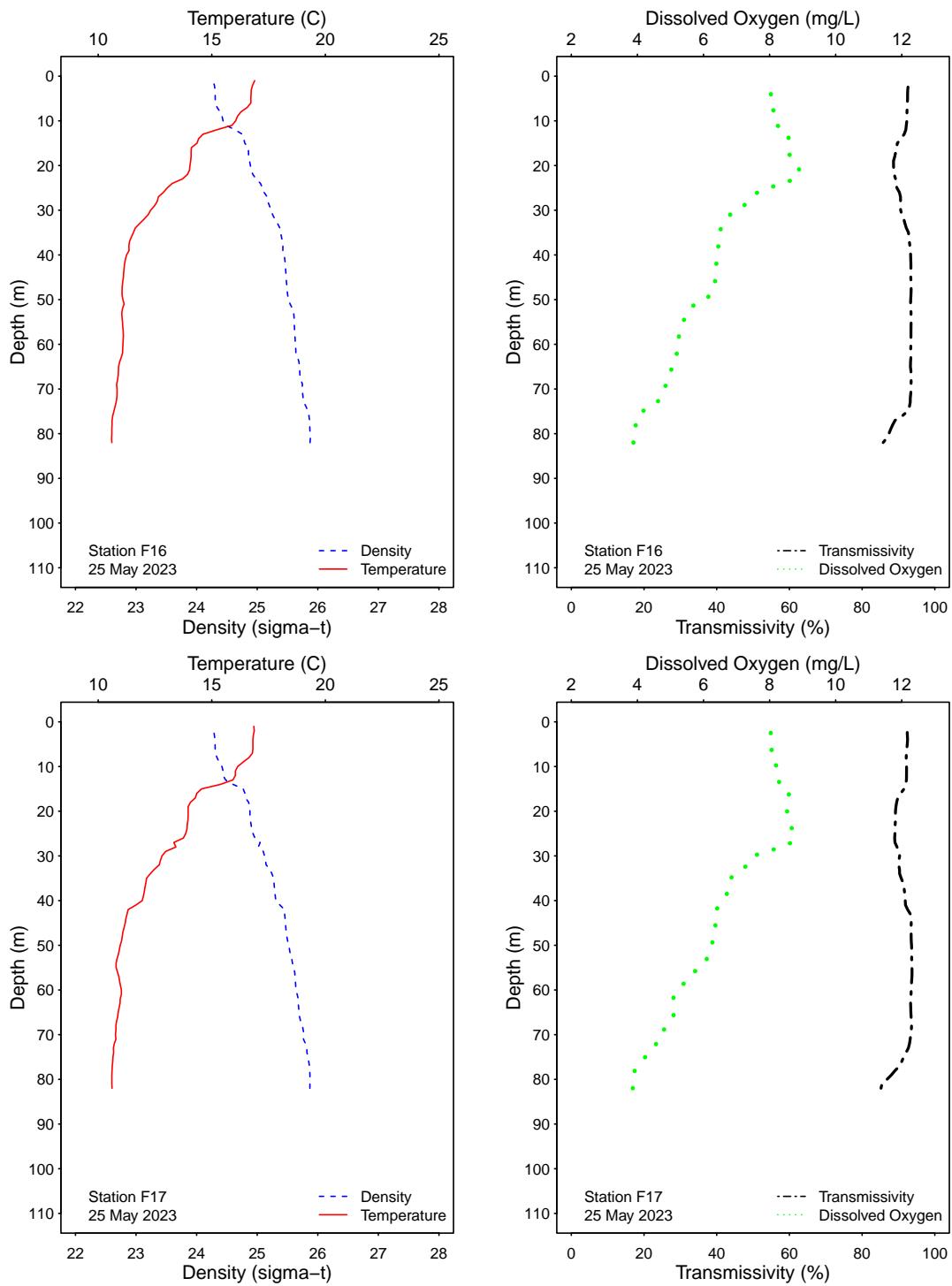


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

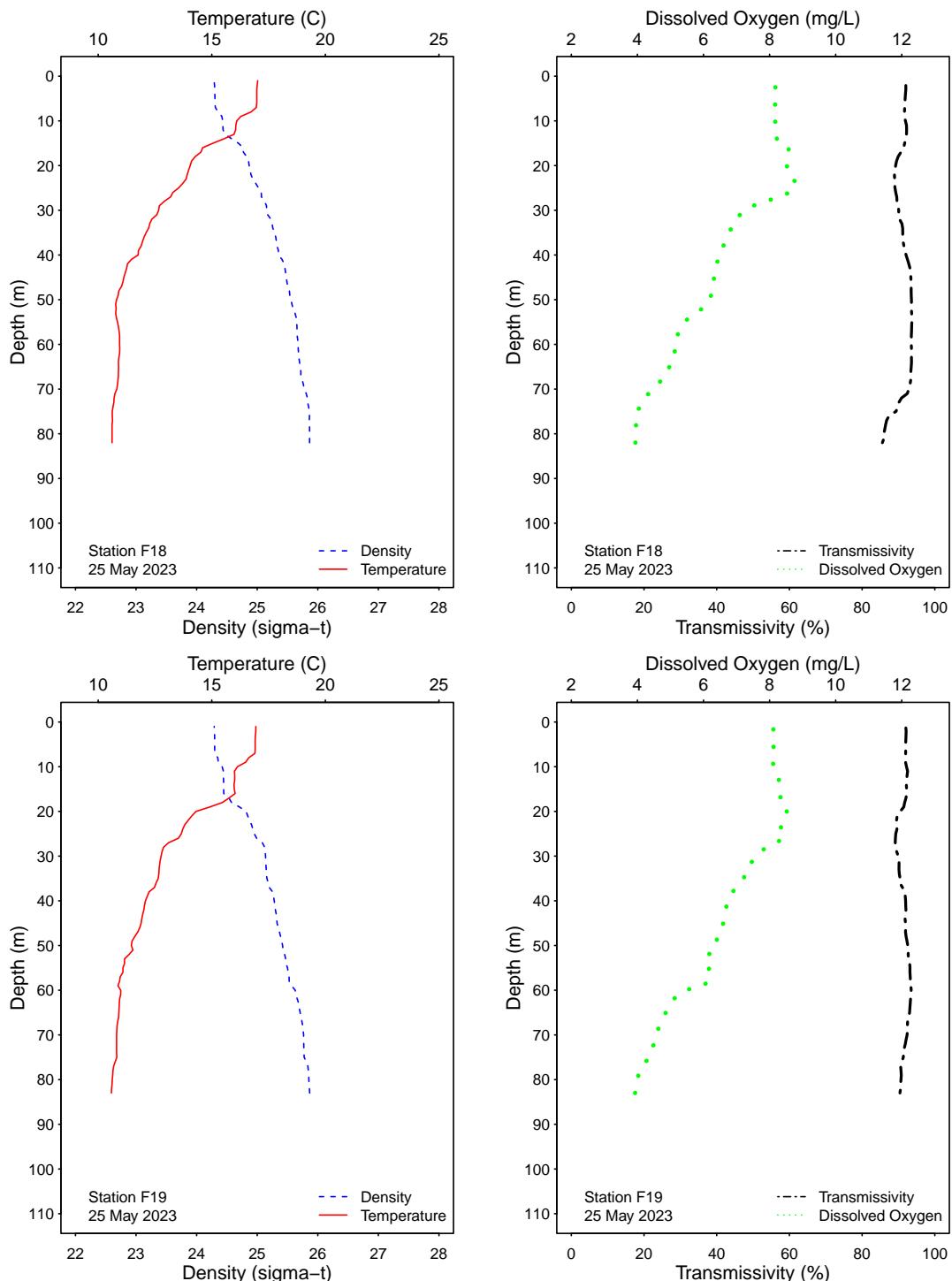


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

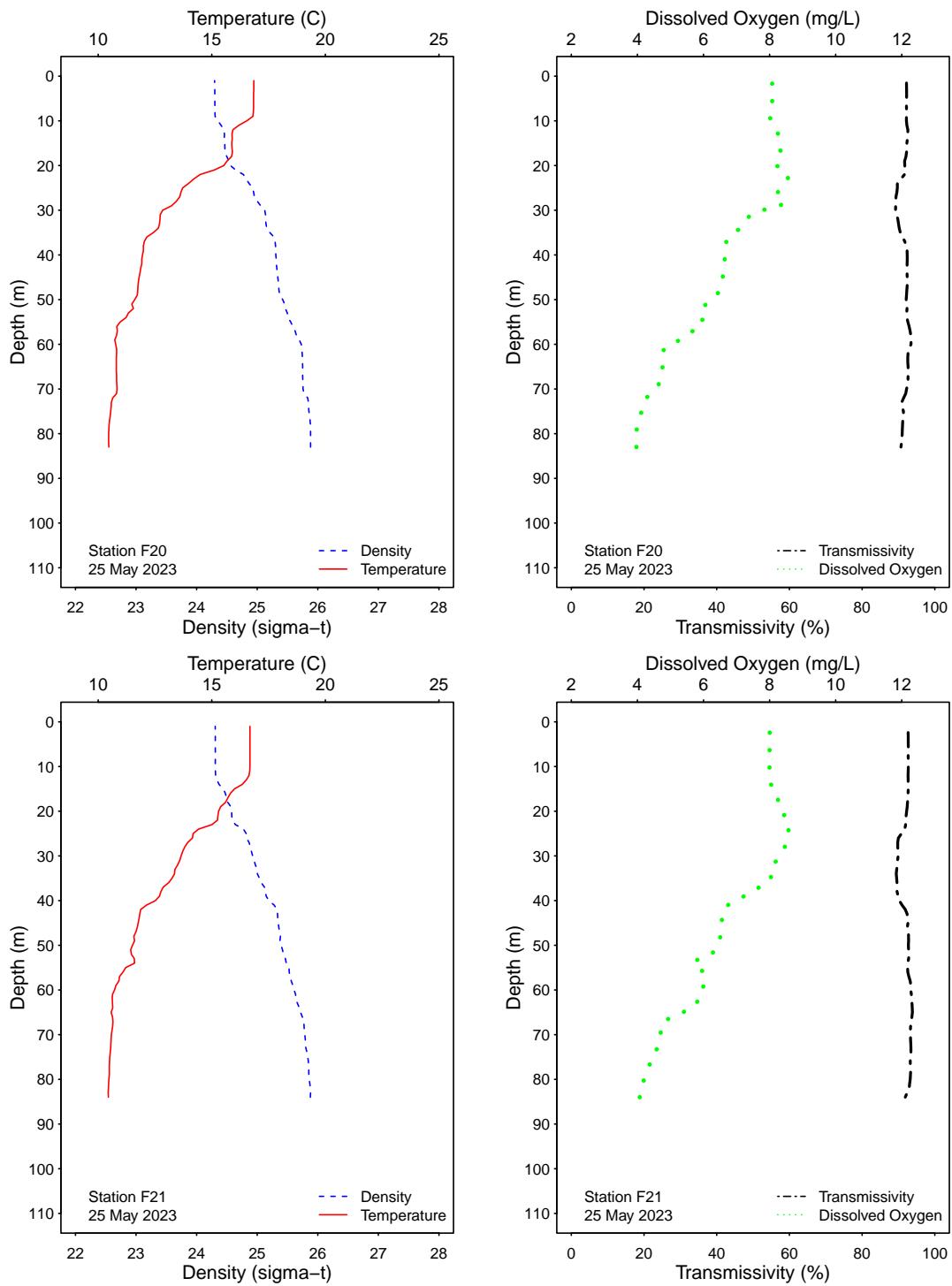


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

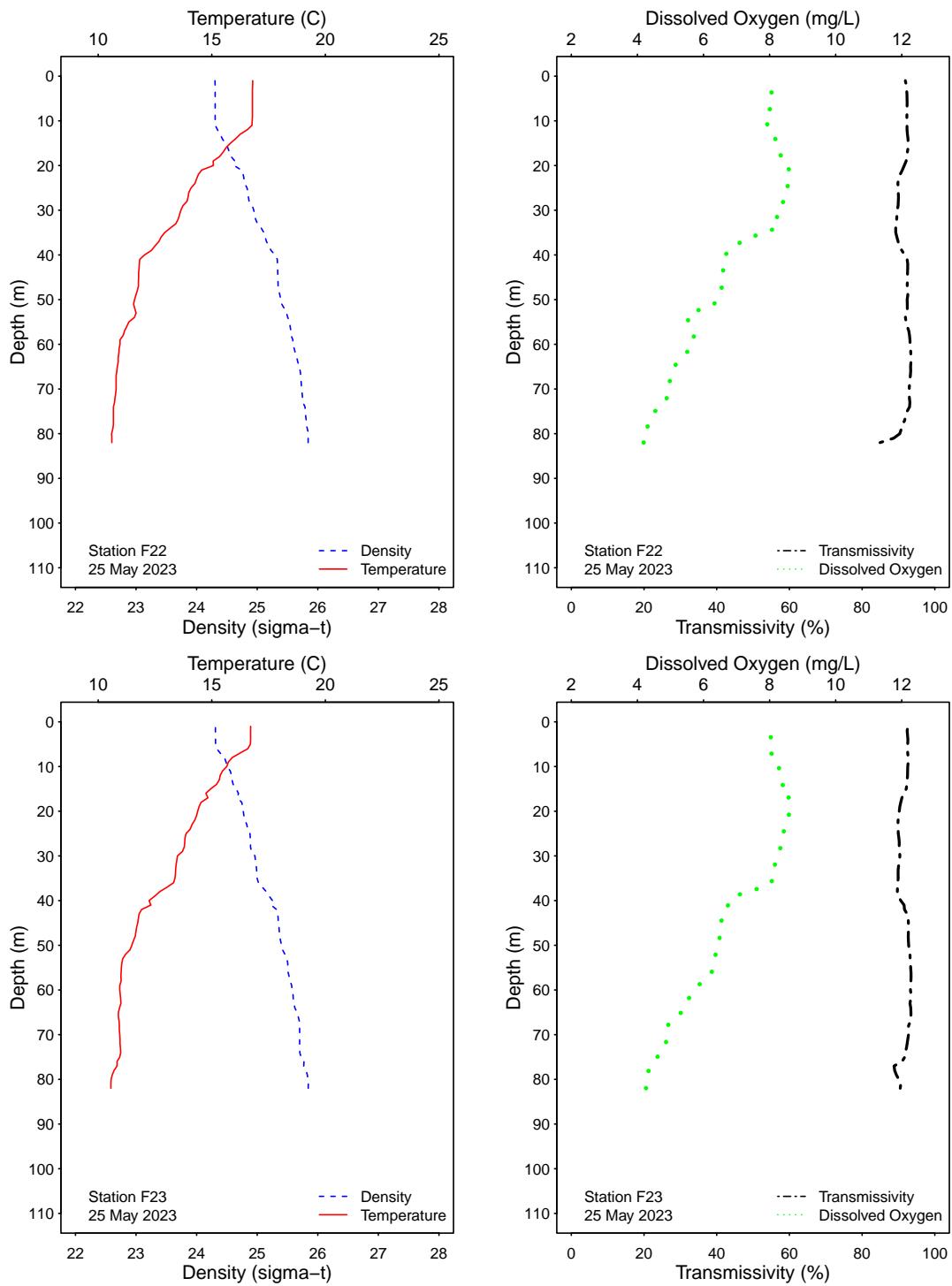


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

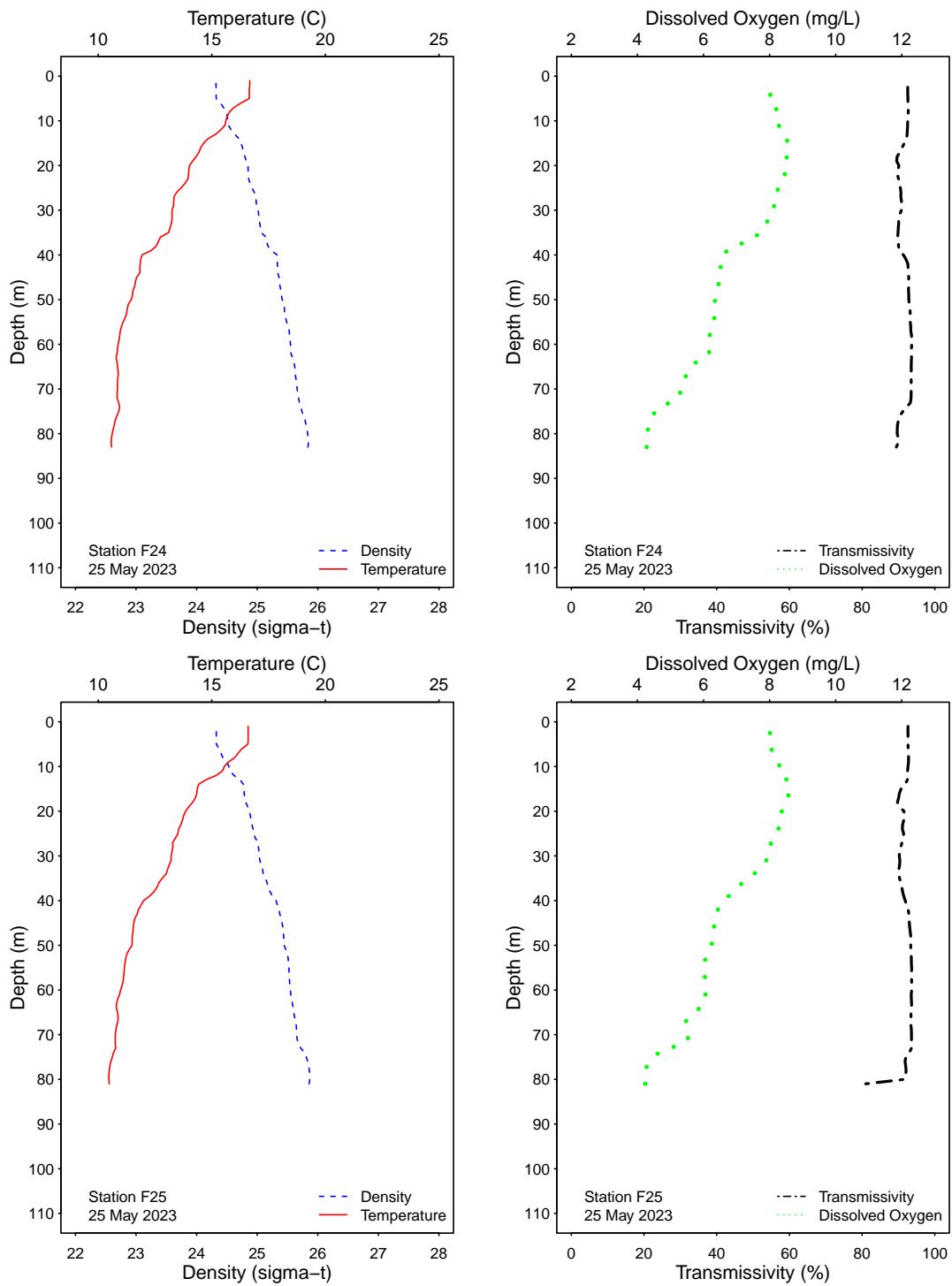


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
A7	02 May 2023	18	JF	LAB DUPLICATE	<2	<2	<2
A7	09 May 2023	18	BS	LAB DUPLICATE	88	16e	4e
A7	15 May 2023	18	CRE	LAB DUPLICATE	30e	2e	2e
A7	22 May 2023	18	KT	LAB DUPLICATE	<2	<2	<2
C7	02 May 2023	18	JF	LAB DUPLICATE	<2	<2	<2
C7	09 May 2023	18	BS	LAB DUPLICATE	<2	<2	<2
C7	15 May 2023	18	CRE	LAB DUPLICATE	16e	2e	4e
C7	22 May 2023	18	KT	LAB DUPLICATE	<2	2e	<2
C8	02 May 2023	12	JF	LAB DUPLICATE	<2	<2	<2
C8	09 May 2023	12	BS	LAB DUPLICATE	2e	<2	2e
C8	15 May 2023	12	CRE	LAB DUPLICATE	22e	<2	<2
C8	22 May 2023	12	KT	LAB DUPLICATE	<2	<2	<2
D12	03 May 2023		KA	FIELD DUPLICATE	4e	<2	<2
D12	03 May 2023		KA	LAB DUPLICATE	<20	4e	<2
D12	10 May 2023		WT	FIELD DUPLICATE	200e	2e	10e
D12	10 May 2023		WT	LAB DUPLICATE	200e	<2	14e
D12	17 May 2023		KT	FIELD DUPLICATE	2e	<2	4e
D12	17 May 2023		KT	LAB DUPLICATE	<2	<2	6e
D12	24 May 2023		WT	FIELD DUPLICATE	<2	<2	<2
D12	24 May 2023		WT	LAB DUPLICATE	2e	<2	<2
F01	24 May 2023	12	KA	LAB DUPLICATE	ns	ns	<2
F02	24 May 2023	12	KA	LAB DUPLICATE	ns	ns	<2
F07	24 May 2023	60	KA	LAB DUPLICATE	ns	ns	<2
F08	24 May 2023	60	KA	LAB DUPLICATE	ns	ns	66
F11	24 May 2023	60	KA	LAB DUPLICATE	ns	ns	<2
F17	25 May 2023	80	JF	LAB DUPLICATE	ns	ns	<2
F18	25 May 2023	60	JF	LAB DUPLICATE	ns	ns	<2
F19	25 May 2023	60	JF	LAB DUPLICATE	ns	ns	<2
F20	25 May 2023	60	JF	LAB DUPLICATE	ns	ns	6e
F21	25 May 2023	80	WT	LAB DUPLICATE	ns	ns	480
F28	23 May 2023	60	WT	LAB DUPLICATE	ns	ns	<2
F29	23 May 2023	60	WT	LAB DUPLICATE	ns	ns	2e
F30	23 May 2023	60	WT	LAB DUPLICATE	ns	ns	2e
F31	23 May 2023	80	WT	LAB DUPLICATE	ns	ns	2e
F32	23 May 2023	80	WT	LAB DUPLICATE	ns	ns	4e
F34	23 May 2023	60	WT	LAB DUPLICATE	ns	ns	<2

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 May 2023	3	3	7	5	4	13	40	6
02 May 2023	3	3	7	5	4	13	40	6
03 May 2023	2	2	5	4	3	7	16	3
04 May 2023	2	2	5	4	3	7	16	3
05 May 2023	2	2	5	4	3	5	10	2
06 May 2023	2	2	5	4	3	5	10	2
07 May 2023	2	2	5	4	3	5	8	2
08 May 2023	2	2	5	4	3	5	8	2
09 May 2023	2	2	5	4	3	5	8	2
10 May 2023	2	2	5	4	3	7	8	3
11 May 2023	2	2	5	4	3	7	8	3
12 May 2023	2	2	5	4	3	7	8	3
13 May 2023	2	2	5	4	3	7	8	3
14 May 2023	2	2	5	4	3	7	8	3
15 May 2023	2	2	5	4	3	7	8	3
16 May 2023	2	2	5	4	3	7	8	3
17 May 2023	2	2	4	2	4	6	11	3
18 May 2023	2	2	4	2	4	6	11	3
19 May 2023	2	2	4	2	4	6	11	3
20 May 2023	2	2	4	2	4	6	11	3
21 May 2023	2	2	4	2	4	6	11	3
22 May 2023	2	2	4	2	4	6	11	3
23 May 2023	2	2	4	2	4	6	11	3
24 May 2023	2	2	4	2	4	5	12	3
25 May 2023	2	2	4	2	4	5	12	3
26 May 2023	2	2	4	2	4	5	12	3
27 May 2023	2	2	4	2	4	5	12	3
28 May 2023	2	2	4	2	4	5	12	3
29 May 2023	2	2	4	2	4	5	12	3
30 May 2023	2	2	4	2	4	5	12	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
May	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table B.3

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 May 2023	11	20	20	20	20	180	120	11
02 May 2023	11	20	20	20	20	180	120	11
03 May 2023	2	20	20	20	20	160	40	20
04 May 2023	2	20	20	20	20	160	40	20
05 May 2023	2	20	20	20	20	180	110	20
06 May 2023	2	20	20	20	20	180	110	20
07 May 2023	2	20	20	20	20	180	110	20
08 May 2023	2	20	20	20	20	180	110	20
09 May 2023	2	20	20	20	20	180	110	20
10 May 2023	2	20	20	20	20	200	200	20
11 May 2023	2	20	20	20	20	200	200	20
12 May 2023	3	20	110	20	20	200	110	110
13 May 2023	3	20	110	20	20	200	110	110
14 May 2023	3	20	110	20	20	200	110	110
15 May 2023	3	20	110	20	20	200	110	110
16 May 2023	3	20	110	20	20	200	110	110
17 May 2023	2	20	20	20	20	200	20	20
18 May 2023	2	20	20	20	20	200	20	20
19 May 2023	2	20	110	20	20	110	110	110
20 May 2023	2	20	110	20	20	110	110	110
21 May 2023	2	20	110	20	20	110	110	110
22 May 2023	2	20	110	20	20	110	110	110
23 May 2023	2	20	110	20	20	110	110	110
24 May 2023	2	20	20	20	20	20	200	20
25 May 2023	2	20	20	20	20	20	200	20
26 May 2023	2	20	20	20	20	20	110	11
27 May 2023	2	20	20	20	20	20	110	11
28 May 2023	2	20	20	20	20	20	110	11
29 May 2023	2	20	20	20	20	20	110	11
30 May 2023	2	20	20	20	20	20	110	11

* 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
May	IC	IC	IC	IC	IC	IC	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Kelp Stations

Table B.5

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the PLOO 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 May 2023	4	3	4	2	2	2	3	4
02 May 2023	4	3	3	2	2	2	3	3
03 May 2023	4	3	3	2	2	2	3	3
04 May 2023	4	3	3	2	2	2	3	3
05 May 2023	4	3	4	2	2	2	3	4
06 May 2023	4	3	4	2	2	2	3	4
07 May 2023	4	3	4	2	2	2	3	4
08 May 2023	4	3	4	2	2	2	3	4
09 May 2023	3	3	4	2	2	2	3	4
10 May 2023	3	3	4	2	2	2	3	4
11 May 2023	3	3	4	2	2	2	3	4
12 May 2023	3	3	4	2	2	2	3	4
13 May 2023	3	3	4	2	2	2	3	4
14 May 2023	3	3	4	2	2	2	3	4
15 May 2023	3	3	4	2	2	2	3	3
16 May 2023	3	3	4	2	2	2	3	3
17 May 2023	2	2	2	2	2	2	2	2
18 May 2023	2	2	2	2	2	2	2	2
19 May 2023	2	2	2	2	2	2	2	2
20 May 2023	2	2	2	2	2	2	2	2
21 May 2023	2	2	2	2	2	2	2	2
22 May 2023	2	2	2	2	2	2	2	2
23 May 2023	2	2	2	2	2	2	2	2
24 May 2023	2	2	2	2	2	2	2	2
25 May 2023	2	2	2	2	2	2	2	2
26 May 2023	2	2	2	2	2	2	2	2
27 May 2023	2	2	2	2	2	2	2	2
28 May 2023	2	2	2	2	2	2	2	2
29 May 2023	2	2	2	2	2	2	2	2
30 May 2023	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
May	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table B.7

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

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

Offshore Stations

Table B.9

Summary of compliance with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria at the PLOO offshore stations within State jurisdictional waters. Values shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	F01	F02	F03	F06	F07	F08	F09	F10	F11	F12	F13	F14	F18	F19	F20
May	IC	E	E												

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

