



# **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 2022**

Environmental Monitoring and Technical Services  
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101  
Tel (619) 758-2300 Fax (619) 758-2309





June 30, 2022

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the May 2022 Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2017-0007, NPDES Permit No. CA0107409.

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

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

Sincerely,



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

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  $\geq 4$  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)<sup>1</sup>. 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:**

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<sup>1</sup> 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, 1987<sup>2</sup>) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2022 Quality Assurance Report, which will be completed in March 2023.

## SUMMARY OF RESULTS

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

### ***Shore Stations***

- The eight shore stations (D4, D5, D7, D8-B, D9, D10, D11, D12) were sampled on May 4, 11, 18, and 25.
- During May, each of the eight shore stations was in compliance with 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Nothing of sewage origin was observed at any of the shore stations.
- 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, 12, 16, and 24.
- During May, each of the eight kelp bed stations was in compliance with the various 2015 Ocean Plan water contact standards.

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

- Water column temperatures ranged from 10.12 to 17.80°C. The difference between surface and bottom waters ranged from 0.42 to 6.58°C.
- Chlorophyll *a* concentrations ranged from 0.97 to 10.47 µg/L.
- Nothing of sewage origin was observed at any of the kelp stations.

### ***Offshore Stations***

- Quarterly offshore water quality sampling was conducted on May 18, 19, and 20.
- During May, one of the 15 offshore stations located within State jurisdictional waters (i.e., F01–F03, F06–F14, F18–F20) was out of compliance with the relevant Ocean Plan single sample maximum (SSM) standard for *Enterococcus*;
  - the SSM for *Enterococcus* was exceeded in the sample collected from 60 m at station F20 on May 20th.
- Of the remaining 21 offshore stations, five had elevated densities of *Enterococcus* bacteria (i.e., <104 CFU/100 mL), as follows:
  - The SSM for *Enterococcus* was exceeded in the samples collected from 60 m or deeper from stations F29 and F30 on May 18<sup>th</sup>, and F21, F22, F23, on May 20<sup>th</sup>.
- During May, water column temperatures ranged from 9.57 to 18.00°C. The difference between surface and bottom waters ranged from 0.01 to 7.94°C.
- Chlorophyll *a* concentrations ranged from 0.38 to 20.79 µg/L at the offshore stations during the month.
- CDOM data are available upon request.
- Nothing of sewage origin was observed at any of the offshore stations.



## 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 2022	5	15	4	20	12	27	19	4
02 May 2022	5	15	4	20	12	27	19	4
03 May 2022	5	15	4	20	12	27	19	4
04 May 2022	4	16	4	20	12	24	17	3
05 May 2022	4	16	4	20	12	24	17	3
06 May 2022	4	15	2	36	10	14	12	4
07 May 2022	4	15	2	36	10	14	12	4
08 May 2022	4	15	2	36	10	14	12	4
09 May 2022	4	15	2	36	10	14	12	4
10 May 2022	4	15	2	36	10	14	12	4
11 May 2022	6	16	2	32	12	15	14	5
12 May 2022	6	16	2	32	12	15	14	5
13 May 2022	4	15	2	36	11	15	12	6
14 May 2022	4	15	2	36	11	15	12	6
15 May 2022	4	15	2	36	11	15	12	6
16 May 2022	4	15	2	36	11	15	12	6
17 May 2022	4	15	2	36	11	15	12	6
18 May 2022	6	16	4	36	20	16	22	8
19 May 2022	6	16	4	36	20	16	22	8
20 May 2022	6	20	4	42	22	18	26	11
21 May 2022	6	20	4	42	22	18	26	11
22 May 2022	6	20	4	42	22	18	26	11
23 May 2022	6	20	4	42	22	18	26	11
24 May 2022	6	20	4	42	22	18	26	11
25 May 2022	6	13	6	36	20	19	24	8
26 May 2022	6	13	6	36	20	19	24	8
27 May 2022	8	11	8	24	26	19	29	6
28 May 2022	8	11	8	24	26	19	29	6
29 May 2022	8	11	8	24	26	19	29	6
30 May 2022	8	11	8	24	26	19	29	6
31 May 2022	8	11	8	24	26	19	29	6

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

\* Geometric mean calculated using n<5

ns = not sampled

**Table 2.4**

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
04 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
11 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
18 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
25 May 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.5**

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
04 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
11 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
18 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
25 May 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.6**

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
04 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
11 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
18 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
25 May 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.7**

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
04 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
11 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
18 May 2022	IC	IC	IC	IC	IC	IC	IC	IC
25 May 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.8**

Summary of water quality parameters at the PLOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Enter) are reported as CFU/100 mL. The fecal:total coliform ratio (F:T) is unitless. Comments follow the data summary.

<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Total</b>	<b>Fecal</b>	<b>Enter</b>	<b>F:T</b>
D4	04 May 2022	801	2e	2e	<2	1.00
D4	11 May 2022	842	<20	<2	<2	0.10
D4	18 May 2022	810	16e	<2	<2	0.12
D4	25 May 2022	810	6e	<2	<2	0.33
D5	04 May 2022	823	<20	<2	<2	0.10
D5	11 May 2022	855	20e	2e	<2	0.10
D5	18 May 2022	836	<20	<2	<2	0.10
D5	25 May 2022	835	<2	<2	<2	1.00
D7	04 May 2022	845	4e	<2	<2	0.50
D7	11 May 2022	925	<2	<2	<2	1.00
D7	18 May 2022	904	20e	<2	2e	0.10
D7	25 May 2022	901	<20	<2	<2	0.10
D8-B	04 May 2022	906	<20	<2	<2	0.10
D8-B	11 May 2022	946	20e	<2	<2	0.10
D8-B	18 May 2022	925	40e	10e	20e	0.25
D8-B	25 May 2022	923	<20	<2	<2	0.10
D9	04 May 2022	927	10e	<2	<2	0.20
D9	11 May 2022	955	<20	<2	<2	0.10
D9	18 May 2022	939	200e	10e	20e	0.05
D9	25 May 2022	942	12e	<2	<2	0.17
D10	04 May 2022	947	14e	6e	<2	0.43
D10	11 May 2022	1009	20e	<2	<2	0.10
D10	18 May 2022	950	<20	<20	4e	1.00
D10	25 May 2022	952	24e	<2	<2	0.08
D11	04 May 2022	1007	10e	<2	2e	0.20
D11	11 May 2022	1047	<20	<2	2e	0.10
D11	18 May 2022	1043	200e	<20	<20	0.10
D11	25 May 2022	1030	18e	8e	<2	0.44
D12	04 May 2022	1040	2e	<2	<2	1.00
D12	11 May 2022	1116	<20	<2	<2	0.10
D12	18 May 2022	1116	<20	<2	4e	0.10
D12	25 May 2022	1106	2e	<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	04 May 2022	Arrive Time	801
D4	04 May 2022	Weather	Cloudy
D4	04 May 2022	Wind Speed (kts)	0
D4	04 May 2022	Wind Dir	
D4	04 May 2022	Animal Life	Seagull-1
D4	04 May 2022	Floatables	None
D4	04 May 2022	Water Color	Green
D4	04 May 2022	Current Direction	N
D4	04 May 2022	Water Temp (C)	14
D4	04 May 2022	Wave Height Low (ft)	2
D4	04 May 2022	High Tide (ft)	2.93
D4	04 May 2022	High Tide Time	1253
D4	04 May 2022	Low Tide (ft)	-0.09
D4	04 May 2022	Low Tide Time	619
D4	04 May 2022	Comments	Seagrass; Algae; Kelp
D4	11 May 2022	Arrive Time	842
D4	11 May 2022	Weather	Sunny
D4	11 May 2022	Wind Speed (kts)	3.1
D4	11 May 2022	Wind Dir	SW
D4	11 May 2022	Animal Life	Pelican-35; Seagull-55
D4	11 May 2022	Floatables	None
D4	11 May 2022	Water Color	Green
D4	11 May 2022	Current Direction	N
D4	11 May 2022	Water Temp (C)	14
D4	11 May 2022	Wave Height Low (ft)	1
D4	11 May 2022	High Tide (ft)	4.03
D4	11 May 2022	High Tide Time	610
D4	11 May 2022	Low Tide (ft)	1.75
D4	11 May 2022	Low Tide Time	41
D4	11 May 2022	Comments	Kelp; Seagrass; Algae
D4	18 May 2022	Arrive Time	810
D4	18 May 2022	Weather	Cloudy
D4	18 May 2022	Wind Speed (kts)	6.9
D4	18 May 2022	Wind Dir	SW
D4	18 May 2022	Animal Life	Bird-1; Seagull-10
D4	18 May 2022	Floatables	Foam
D4	18 May 2022	Water Color	Green
D4	18 May 2022	Current Direction	N
D4	18 May 2022	Water Temp (C)	16.9
D4	18 May 2022	Wave Height Low (ft)	1
D4	18 May 2022	High Tide (ft)	3.46
D4	18 May 2022	High Tide Time	1221
D4	18 May 2022	Low Tide (ft)	-1.38
D4	18 May 2022	Low Tide Time	553
D4	18 May 2022	Comments	Kelp; Seagrass; Algae
D4	25 May 2022	Arrive Time	810
D4	25 May 2022	Weather	Cloudy
D4	25 May 2022	Wind Speed (kts)	4.2
D4	25 May 2022	Wind Dir	W
D4	25 May 2022	Animal Life	Pelican-15
D4	25 May 2022	Floatables	Foam
D4	25 May 2022	Water Color	Blue
D4	25 May 2022	Current Direction	N

Station	Date	Parameter	Value
D4	25 May 2022	Water Temp (C)	18.2
D4	25 May 2022	Wave Height Low (ft)	1
D4	25 May 2022	High Tide (ft)	3.94
D4	25 May 2022	High Tide Time	636
D4	25 May 2022	Low Tide (ft)	1.1
D4	25 May 2022	Low Tide Time	101
D4	25 May 2022	Comments	Kelp; Seagrass; Algae
D5	04 May 2022	Arrive Time	823
D5	04 May 2022	Weather	Cloudy
D5	04 May 2022	Wind Speed (kts)	3.3
D5	04 May 2022	Wind Dir	S
D5	04 May 2022	Animal Life	
D5	04 May 2022	Floatables	Foam
D5	04 May 2022	Water Color	Green
D5	04 May 2022	Current Direction	N
D5	04 May 2022	Water Temp (C)	15
D5	04 May 2022	Wave Height Low (ft)	1
D5	04 May 2022	High Tide (ft)	2.93
D5	04 May 2022	High Tide Time	1253
D5	04 May 2022	Low Tide (ft)	-0.09
D5	04 May 2022	Low Tide Time	619
D5	04 May 2022	Comments	Algae; Seagrass; Kelp
D5	11 May 2022	Arrive Time	855
D5	11 May 2022	Weather	Sunny
D5	11 May 2022	Wind Speed (kts)	1.9
D5	11 May 2022	Wind Dir	NW
D5	11 May 2022	Animal Life	Pelican-3; Seagull-18
D5	11 May 2022	Floatables	Foam
D5	11 May 2022	Water Color	Green
D5	11 May 2022	Current Direction	N
D5	11 May 2022	Water Temp (C)	18
D5	11 May 2022	Wave Height Low (ft)	3
D5	11 May 2022	High Tide (ft)	4.03
D5	11 May 2022	High Tide Time	610
D5	11 May 2022	Low Tide (ft)	1.75
D5	11 May 2022	Low Tide Time	41
D5	11 May 2022	Comments	Kelp; Seagrass; Algae
D5	18 May 2022	Arrive Time	836
D5	18 May 2022	Weather	Cloudy
D5	18 May 2022	Wind Speed (kts)	3.1
D5	18 May 2022	Wind Dir	SW
D5	18 May 2022	Animal Life	Seagull-1
D5	18 May 2022	Floatables	Foam
D5	18 May 2022	Water Color	Green
D5	18 May 2022	Current Direction	N
D5	18 May 2022	Water Temp (C)	18.2
D5	18 May 2022	Wave Height Low (ft)	1
D5	18 May 2022	High Tide (ft)	3.46
D5	18 May 2022	High Tide Time	1221
D5	18 May 2022	Low Tide (ft)	-1.38
D5	18 May 2022	Low Tide Time	553
D5	18 May 2022	Comments	Kelp; Seagrass; Algae
D5	25 May 2022	Arrive Time	835
D5	25 May 2022	Weather	Cloudy
D5	25 May 2022	Wind Speed (kts)	2.7
D5	25 May 2022	Wind Dir	W
D5	25 May 2022	Animal Life	Bird-2; Pelican-1

Station	Date	Parameter	Value
D5	25 May 2022	Floatables	Foam
D5	25 May 2022	Water Color	Grey
D5	25 May 2022	Current Direction	N
D5	25 May 2022	Water Temp (C)	19.3
D5	25 May 2022	Wave Height Low (ft)	2
D5	25 May 2022	High Tide (ft)	3.94
D5	25 May 2022	High Tide Time	636
D5	25 May 2022	Low Tide (ft)	1.1
D5	25 May 2022	Low Tide Time	101
D5	25 May 2022	Comments	Kelp; Seagrass; Algae
D7	04 May 2022	Arrive Time	845
D7	04 May 2022	Weather	Cloudy
D7	04 May 2022	Wind Speed (kts)	4.8
D7	04 May 2022	Wind Dir	W
D7	04 May 2022	Animal Life	
D7	04 May 2022	Floatables	Foam
D7	04 May 2022	Water Color	Green
D7	04 May 2022	Current Direction	S
D7	04 May 2022	Water Temp (C)	15
D7	04 May 2022	Wave Height Low (ft)	1
D7	04 May 2022	High Tide (ft)	2.93
D7	04 May 2022	High Tide Time	1253
D7	04 May 2022	Low Tide (ft)	-0.09
D7	04 May 2022	Low Tide Time	619
D7	04 May 2022	Comments	Water clear; Surfer/Paddle boarder-15; Trash-1; Algae; Sea-grass; Kelp
D7	11 May 2022	Arrive Time	925
D7	11 May 2022	Weather	Sunny
D7	11 May 2022	Wind Speed (kts)	0
D7	11 May 2022	Wind Dir	
D7	11 May 2022	Animal Life	Pelican-1
D7	11 May 2022	Floatables	None
D7	11 May 2022	Water Color	Green
D7	11 May 2022	Current Direction	N
D7	11 May 2022	Water Temp (C)	16
D7	11 May 2022	Wave Height Low (ft)	2
D7	11 May 2022	High Tide (ft)	4.03
D7	11 May 2022	High Tide Time	610
D7	11 May 2022	Low Tide (ft)	1.75
D7	11 May 2022	Low Tide Time	41
D7	11 May 2022	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Kelp; Sea-grass; Algae; Person/Walker/Jogger-1
D7	18 May 2022	Arrive Time	904
D7	18 May 2022	Weather	Cloudy
D7	18 May 2022	Wind Speed (kts)	3.4
D7	18 May 2022	Wind Dir	SW
D7	18 May 2022	Animal Life	Bird-2; Pelican-2
D7	18 May 2022	Floatables	Foam
D7	18 May 2022	Water Color	Green
D7	18 May 2022	Current Direction	N
D7	18 May 2022	Water Temp (C)	18.3
D7	18 May 2022	Wave Height Low (ft)	1
D7	18 May 2022	High Tide (ft)	3.46
D7	18 May 2022	High Tide Time	1221
D7	18 May 2022	Low Tide (ft)	-1.38
D7	18 May 2022	Low Tide Time	553
D7	18 May 2022	Comments	Water clear; Surfer/Paddle boarder-6; Trash-1; Kelp; Sea-grass; Algae

Station	Date	Parameter	Value
D7	25 May 2022	Arrive Time	901
D7	25 May 2022	Weather	Cloudy
D7	25 May 2022	Wind Speed (kts)	3.6
D7	25 May 2022	Wind Dir	W
D7	25 May 2022	Animal Life	
D7	25 May 2022	Foatables	Foam
D7	25 May 2022	Water Color	Blue
D7	25 May 2022	Current Direction	N
D7	25 May 2022	Water Temp (C)	19.5
D7	25 May 2022	Wave Height Low (ft)	1
D7	25 May 2022	High Tide (ft)	3.94
D7	25 May 2022	High Tide Time	636
D7	25 May 2022	Low Tide (ft)	1.1
D7	25 May 2022	Low Tide Time	101
D7	25 May 2022	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Seagrass; Kelp; Algae
D8-B	04 May 2022	Arrive Time	906
D8-B	04 May 2022	Weather	Cloudy
D8-B	04 May 2022	Wind Speed (kts)	5.2
D8-B	04 May 2022	Wind Dir	SW
D8-B	04 May 2022	Animal Life	Bird-1; Pelican-3
D8-B	04 May 2022	Foatables	Foam
D8-B	04 May 2022	Water Color	Green
D8-B	04 May 2022	Current Direction	S
D8-B	04 May 2022	Water Temp (C)	16
D8-B	04 May 2022	Wave Height Low (ft)	3
D8-B	04 May 2022	High Tide (ft)	2.93
D8-B	04 May 2022	High Tide Time	1253
D8-B	04 May 2022	Low Tide (ft)	-0.09
D8-B	04 May 2022	Low Tide Time	619
D8-B	04 May 2022	Comments	Water clear; Surfer/Paddle boarder-4; Trash-1; Algae; Seagrass; Kelp
D8-B	11 May 2022	Arrive Time	941
D8-B	11 May 2022	Weather	Sunny
D8-B	11 May 2022	Wind Speed (kts)	5.6
D8-B	11 May 2022	Wind Dir	W
D8-B	11 May 2022	Animal Life	
D8-B	11 May 2022	Foatables	Foam
D8-B	11 May 2022	Water Color	Brown
D8-B	11 May 2022	Current Direction	N
D8-B	11 May 2022	Water Temp (C)	16
D8-B	11 May 2022	Wave Height Low (ft)	3
D8-B	11 May 2022	High Tide (ft)	4.03
D8-B	11 May 2022	High Tide Time	610
D8-B	11 May 2022	Low Tide (ft)	1.75
D8-B	11 May 2022	Low Tide Time	41
D8-B	11 May 2022	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-1; Algae; Kelp
D8-B	18 May 2022	Arrive Time	925
D8-B	18 May 2022	Weather	Cloudy
D8-B	18 May 2022	Wind Speed (kts)	5.6
D8-B	18 May 2022	Wind Dir	SW
D8-B	18 May 2022	Animal Life	Pelican-1
D8-B	18 May 2022	Foatables	Foam
D8-B	18 May 2022	Water Color	Green
D8-B	18 May 2022	Current Direction	N
D8-B	18 May 2022	Water Temp (C)	18.2
D8-B	18 May 2022	Wave Height Low (ft)	1

Station	Date	Parameter	Value
D8-B	18 May 2022	High Tide (ft)	3.46
D8-B	18 May 2022	High Tide Time	1221
D8-B	18 May 2022	Low Tide (ft)	-1.38
D8-B	18 May 2022	Low Tide Time	553
D8-B	18 May 2022	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Kelp; Seagrass; Algae
D8-B	25 May 2022	Arrive Time	923
D8-B	25 May 2022	Weather	Cloudy
D8-B	25 May 2022	Wind Speed (kts)	6.4
D8-B	25 May 2022	Wind Dir	W
D8-B	25 May 2022	Animal Life	Pelican-10
D8-B	25 May 2022	Floatables	Foam
D8-B	25 May 2022	Water Color	Grey
D8-B	25 May 2022	Current Direction	N
D8-B	25 May 2022	Water Temp (C)	18.6
D8-B	25 May 2022	Wave Height Low (ft)	1
D8-B	25 May 2022	High Tide (ft)	3.94
D8-B	25 May 2022	High Tide Time	636
D8-B	25 May 2022	Low Tide (ft)	1.1
D8-B	25 May 2022	Low Tide Time	101
D8-B	25 May 2022	Comments	Algae; Seagrass; Kelp
D9	04 May 2022	Arrive Time	927
D9	04 May 2022	Weather	Cloudy
D9	04 May 2022	Wind Speed (kts)	5.8
D9	04 May 2022	Wind Dir	SW
D9	04 May 2022	Animal Life	Pelican-4; Seagull-2
D9	04 May 2022	Floatables	Foam
D9	04 May 2022	Water Color	Green
D9	04 May 2022	Current Direction	N
D9	04 May 2022	Water Temp (C)	16
D9	04 May 2022	Wave Height Low (ft)	2
D9	04 May 2022	High Tide (ft)	2.93
D9	04 May 2022	High Tide Time	1253
D9	04 May 2022	Low Tide (ft)	-0.09
D9	04 May 2022	Low Tide Time	619
D9	04 May 2022	Comments	Water turbid; Trash-1; Algae; Seagrass; Kelp; Person/Walker/Jogger-1
D9	11 May 2022	Arrive Time	955
D9	11 May 2022	Weather	Sunny
D9	11 May 2022	Wind Speed (kts)	6.8
D9	11 May 2022	Wind Dir	W
D9	11 May 2022	Animal Life	Seagull-1
D9	11 May 2022	Floatables	Foam
D9	11 May 2022	Water Color	Green
D9	11 May 2022	Current Direction	N
D9	11 May 2022	Water Temp (C)	16
D9	11 May 2022	Wave Height Low (ft)	3
D9	11 May 2022	High Tide (ft)	4.03
D9	11 May 2022	High Tide Time	610
D9	11 May 2022	Low Tide (ft)	1.75
D9	11 May 2022	Low Tide Time	41
D9	11 May 2022	Comments	Water turbid; Trash-2; Algae; Kelp; Person/Walker/Jogger-6
D9	18 May 2022	Arrive Time	939
D9	18 May 2022	Weather	Cloudy
D9	18 May 2022	Wind Speed (kts)	0.7
D9	18 May 2022	Wind Dir	SW
D9	18 May 2022	Animal Life	

Station	Date	Parameter	Value
D9	18 May 2022	Floatables	Foam
D9	18 May 2022	Water Color	Brown
D9	18 May 2022	Current Direction	N
D9	18 May 2022	Water Temp (C)	18.6
D9	18 May 2022	Wave Height Low (ft)	2
D9	18 May 2022	High Tide (ft)	3.46
D9	18 May 2022	High Tide Time	1221
D9	18 May 2022	Low Tide (ft)	-1.38
D9	18 May 2022	Low Tide Time	553
D9	18 May 2022	Comments	Kelp; Seagrass; Algae
D9	25 May 2022	Arrive Time	942
D9	25 May 2022	Weather	Cloudy
D9	25 May 2022	Wind Speed (kts)	0
D9	25 May 2022	Wind Dir	
D9	25 May 2022	Animal Life	Pelican-8
D9	25 May 2022	Floatables	Foam
D9	25 May 2022	Water Color	Green
D9	25 May 2022	Current Direction	N
D9	25 May 2022	Water Temp (C)	19.5
D9	25 May 2022	Wave Height Low (ft)	2
D9	25 May 2022	High Tide (ft)	3.94
D9	25 May 2022	High Tide Time	636
D9	25 May 2022	Low Tide (ft)	1.1
D9	25 May 2022	Low Tide Time	101
D9	25 May 2022	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Algae; Seagrass; Kelp; Person/Walker/Jogger-1
D10	04 May 2022	Arrive Time	947
D10	04 May 2022	Weather	Partly cloudy
D10	04 May 2022	Wind Speed (kts)	5
D10	04 May 2022	Wind Dir	W
D10	04 May 2022	Animal Life	Bird-15; Pelican-3
D10	04 May 2022	Floatables	Foam
D10	04 May 2022	Water Color	Green
D10	04 May 2022	Current Direction	S
D10	04 May 2022	Water Temp (C)	17
D10	04 May 2022	Wave Height Low (ft)	3
D10	04 May 2022	High Tide (ft)	2.93
D10	04 May 2022	High Tide Time	1253
D10	04 May 2022	Low Tide (ft)	-0.09
D10	04 May 2022	Low Tide Time	619
D10	04 May 2022	Comments	Water clear; Surfer/Paddle boarder-20; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-3
D10	11 May 2022	Arrive Time	1009
D10	11 May 2022	Weather	Sunny
D10	11 May 2022	Wind Speed (kts)	6
D10	11 May 2022	Wind Dir	SW
D10	11 May 2022	Animal Life	
D10	11 May 2022	Floatables	Foam
D10	11 May 2022	Water Color	Brown
D10	11 May 2022	Current Direction	N
D10	11 May 2022	Water Temp (C)	17
D10	11 May 2022	Wave Height Low (ft)	3
D10	11 May 2022	High Tide (ft)	4.03
D10	11 May 2022	High Tide Time	610
D10	11 May 2022	Low Tide (ft)	1.75
D10	11 May 2022	Low Tide Time	41
D10	11 May 2022	Comments	Water turbid; Surfer/Paddle boarder-10; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-22

Station	Date	Parameter	Value
D10	18 May 2022	Arrive Time	950
D10	18 May 2022	Weather	Cloudy
D10	18 May 2022	Wind Speed (kts)	6.4
D10	18 May 2022	Wind Dir	SW
D10	18 May 2022	Animal Life	Seagull-1
D10	18 May 2022	Floatables	Foam
D10	18 May 2022	Water Color	Brown
D10	18 May 2022	Current Direction	N
D10	18 May 2022	Water Temp (C)	18.3
D10	18 May 2022	Wave Height Low (ft)	3
D10	18 May 2022	High Tide (ft)	3.46
D10	18 May 2022	High Tide Time	1221
D10	18 May 2022	Low Tide (ft)	-1.38
D10	18 May 2022	Low Tide Time	553
D10	18 May 2022	Comments	Water turbid; Surfer/Paddle boarder-14; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-2
D10	25 May 2022	Arrive Time	952
D10	25 May 2022	Weather	Cloudy
D10	25 May 2022	Wind Speed (kts)	4.4
D10	25 May 2022	Wind Dir	SW
D10	25 May 2022	Animal Life	Pelican-16; Seagull-4
D10	25 May 2022	Floatables	Foam
D10	25 May 2022	Water Color	Green
D10	25 May 2022	Current Direction	N
D10	25 May 2022	Water Temp (C)	19.7
D10	25 May 2022	Wave Height Low (ft)	2
D10	25 May 2022	High Tide (ft)	3.94
D10	25 May 2022	High Tide Time	636
D10	25 May 2022	Low Tide (ft)	1.1
D10	25 May 2022	Low Tide Time	101
D10	25 May 2022	Comments	Water clear; Surfer/Paddle boarder-22; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-6
D11	04 May 2022	Arrive Time	1007
D11	04 May 2022	Weather	Sunny
D11	04 May 2022	Wind Speed (kts)	5.6
D11	04 May 2022	Wind Dir	W
D11	04 May 2022	Animal Life	Dog-3
D11	04 May 2022	Floatables	Foam
D11	04 May 2022	Water Color	Green
D11	04 May 2022	Current Direction	S
D11	04 May 2022	Water Temp (C)	17
D11	04 May 2022	Wave Height Low (ft)	3
D11	04 May 2022	High Tide (ft)	2.93
D11	04 May 2022	High Tide Time	1253
D11	04 May 2022	Low Tide (ft)	-0.09
D11	04 May 2022	Low Tide Time	619
D11	04 May 2022	Comments	Water clear; Surfer/Paddle boarder-8; Trash-1; Seagrass; Kelp; Algae; Person/Walker/Jogger-5
D11	11 May 2022	Arrive Time	1047
D11	11 May 2022	Weather	Sunny
D11	11 May 2022	Wind Speed (kts)	6.8
D11	11 May 2022	Wind Dir	W
D11	11 May 2022	Animal Life	Dog-5
D11	11 May 2022	Floatables	None
D11	11 May 2022	Water Color	Green
D11	11 May 2022	Current Direction	N
D11	11 May 2022	Water Temp (C)	18

Station	Date	Parameter	Value
D11	11 May 2022	Wave Height Low (ft)	2
D11	11 May 2022	High Tide (ft)	4.03
D11	11 May 2022	High Tide Time	610
D11	11 May 2022	Low Tide (ft)	1.75
D11	11 May 2022	Low Tide Time	41
D11	11 May 2022	Comments	Water turbid; Surfer/Paddle boarder-7; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-10
D11	18 May 2022	Arrive Time	1043
D11	18 May 2022	Weather	Partly cloudy
D11	18 May 2022	Wind Speed (kts)	6.8
D11	18 May 2022	Wind Dir	SW
D11	18 May 2022	Animal Life	
D11	18 May 2022	Floatables	Foam
D11	18 May 2022	Water Color	Green
D11	18 May 2022	Current Direction	N
D11	18 May 2022	Water Temp (C)	18.3
D11	18 May 2022	Wave Height Low (ft)	4
D11	18 May 2022	High Tide (ft)	3.46
D11	18 May 2022	High Tide Time	1221
D11	18 May 2022	Low Tide (ft)	-1.38
D11	18 May 2022	Low Tide Time	553
D11	18 May 2022	Comments	Water clear; Surfer/Paddle boarder-15; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-2
D11	25 May 2022	Arrive Time	1030
D11	25 May 2022	Weather	Cloudy
D11	25 May 2022	Wind Speed (kts)	4
D11	25 May 2022	Wind Dir	SW
D11	25 May 2022	Animal Life	Pelican-2
D11	25 May 2022	Floatables	Foam
D11	25 May 2022	Water Color	Green
D11	25 May 2022	Current Direction	N
D11	25 May 2022	Water Temp (C)	19.9
D11	25 May 2022	Wave Height Low (ft)	2
D11	25 May 2022	High Tide (ft)	3.94
D11	25 May 2022	High Tide Time	636
D11	25 May 2022	Low Tide (ft)	1.1
D11	25 May 2022	Low Tide Time	101
D11	25 May 2022	Comments	Water clear; Surfer/Paddle boarder-19; Trash-1; Seagrass; Kelp; Algae; Person/Walker/Jogger-9
D12	04 May 2022	Arrive Time	1040
D12	04 May 2022	Weather	Sunny
D12	04 May 2022	Wind Speed (kts)	4.8
D12	04 May 2022	Wind Dir	W
D12	04 May 2022	Animal Life	
D12	04 May 2022	Floatables	None
D12	04 May 2022	Water Color	Green
D12	04 May 2022	Current Direction	S
D12	04 May 2022	Water Temp (C)	17
D12	04 May 2022	Wave Height Low (ft)	2
D12	04 May 2022	High Tide (ft)	2.93
D12	04 May 2022	High Tide Time	1253
D12	04 May 2022	Low Tide (ft)	-0.09
D12	04 May 2022	Low Tide Time	619
D12	04 May 2022	Comments	Water clear; Surfer/Paddle boarder-6; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-13
D12	11 May 2022	Arrive Time	1116
D12	11 May 2022	Weather	Sunny

Station	Date	Parameter	Value
D12	11 May 2022	Wind Speed (kts)	8.7
D12	11 May 2022	Wind Dir	W
D12	11 May 2022	Animal Life	Bird-1; Seagull-2
D12	11 May 2022	Floatables	Foam
D12	11 May 2022	Water Color	Green
D12	11 May 2022	Current Direction	N
D12	11 May 2022	Water Temp (C)	15
D12	11 May 2022	Wave Height Low (ft)	2
D12	11 May 2022	High Tide (ft)	4.03
D12	11 May 2022	High Tide Time	610
D12	11 May 2022	Low Tide (ft)	1.75
D12	11 May 2022	Low Tide Time	41
D12	11 May 2022	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-17
D12	18 May 2022	Arrive Time	1116
D12	18 May 2022	Weather	Sunny
D12	18 May 2022	Wind Speed (kts)	7.5
D12	18 May 2022	Wind Dir	SW
D12	18 May 2022	Animal Life	Seagull-1
D12	18 May 2022	Floatables	Foam
D12	18 May 2022	Water Color	Green
D12	18 May 2022	Current Direction	N
D12	18 May 2022	Water Temp (C)	20.9
D12	18 May 2022	Wave Height Low (ft)	3
D12	18 May 2022	High Tide (ft)	3.46
D12	18 May 2022	High Tide Time	1221
D12	18 May 2022	Low Tide (ft)	-1.38
D12	18 May 2022	Low Tide Time	553
D12	18 May 2022	Comments	Water clear; Boogie boarder/Swimmer-11; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-30
D12	25 May 2022	Arrive Time	1106
D12	25 May 2022	Weather	Cloudy
D12	25 May 2022	Wind Speed (kts)	5
D12	25 May 2022	Wind Dir	S
D12	25 May 2022	Animal Life	Seagull-132
D12	25 May 2022	Floatables	None
D12	25 May 2022	Water Color	Green
D12	25 May 2022	Current Direction	N
D12	25 May 2022	Water Temp (C)	19.5
D12	25 May 2022	Wave Height Low (ft)	1
D12	25 May 2022	High Tide (ft)	3.94
D12	25 May 2022	High Tide Time	636
D12	25 May 2022	Low Tide (ft)	1.1
D12	25 May 2022	Low Tide Time	101
D12	25 May 2022	Comments	Water clear; Boogie boarder/Swimmer-7; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-32



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

\* Geometric mean calculated using n<5

**Table 3.2**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 May 2022	3	2	3	2	2	2	2	2
02 May 2022	3	2	3	2	2	2	2	2
03 May 2022	3	2	3	2	2	2	2	2
04 May 2022	3	2	3	2	2	2	2	2
05 May 2022	2	2	2	2	2	2	2	2
06 May 2022	2	2	2	2	2	2	2	2
07 May 2022	2	2	2	2	2	2	2	2
08 May 2022	2	2	2	2	2	2	2	2
09 May 2022	2	2	2	2	2	2	2	2
10 May 2022	2	2	2	2	2	2	2	2
11 May 2022	2	2	2	2	2	2	2	2
12 May 2022	3	2	3	2	2	2	2	2
13 May 2022	3	2	4	2	2	2	2	2
14 May 2022	3	2	4	2	2	2	2	2
15 May 2022	3	2	4	2	2	2	2	2
16 May 2022	3	2	4	2	2	2	2	2
17 May 2022	3	2	4	2	2	2	2	2
18 May 2022	3	2	4	2	2	2	2	2
19 May 2022	3	2	3	2	2	2	3	2
20 May 2022	3	2	3	2	2	2	3	2
21 May 2022	3	2	3	2	2	2	3	2
22 May 2022	3	2	3	2	2	2	3	2
23 May 2022	3	2	3	2	2	2	3	2
24 May 2022	3	2	4	2	2	2	2	2
25 May 2022	3	2	4	2	2	2	2	2
26 May 2022	3	2	4	2	2	2	3	2
27 May 2022	3	2	4	2	2	2	3	2
28 May 2022	3	2	4	2	2	2	3	2
29 May 2022	3	2	4	2	2	2	3	2
30 May 2022	3	2	4	2	2	2	3	2
31 May 2022	3	2	4	2	2	2	3	2

\* Geometric mean calculated using n<5

**Table 3.3**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 May 2022	2	2	2	2	2	2	2	2
02 May 2022	2	2	2	2	2	2	2	2
03 May 2022	2	2	2	2	2	2	2	2
04 May 2022	2	2	2	2	2	2	2	2
05 May 2022	2	2	2	2	2	2	2	2
06 May 2022	2	2	2	2	2	2	2	2
07 May 2022	2	2	2	2	2	2	2	2
08 May 2022	2	2	2	2	2	2	2	2
09 May 2022	2	2	2	2	2	2	2	2
10 May 2022	2	2	2	2	2	2	2	2
11 May 2022	2	2	2	2	2	2	2	2
12 May 2022	2	2	2	2	2	2	2	2
13 May 2022	2	2	2	2	2	2	2	2
14 May 2022	2	2	2	2	2	2	2	2
15 May 2022	2	2	2	2	2	2	2	2
16 May 2022	2	2	2	2	2	2	2	2
17 May 2022	2	2	2	2	2	2	2	2
18 May 2022	2	2	2	2	2	2	2	2
19 May 2022	2	2	2	2	2	2	2	2
20 May 2022	2	2	2	2	2	2	2	2
21 May 2022	2	2	2	2	2	2	2	2
22 May 2022	2	2	2	2	2	2	2	2
23 May 2022	2	2	2	2	2	2	2	2
24 May 2022	2	2	2	2	2	2	2	2
25 May 2022	2	2	2	2	2	2	2	2
26 May 2022	2	2	2	2	2	2	2	2
27 May 2022	2	2	2	2	2	2	2	2
28 May 2022	2	2	2	2	2	2	2	2
29 May 2022	2	2	2	2	2	2	2	2
30 May 2022	2	2	2	2	2	2	2	2
31 May 2022	2	2	2	2	2	2	2	2

\* Geometric mean calculated using n<5

**Table 3.4**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 May 2022	IC							
12 May 2022	IC							
16 May 2022	IC							
24 May 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.5**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 May 2022	IC							
12 May 2022	IC							
16 May 2022	IC							
24 May 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.6**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 May 2022	IC							
12 May 2022	IC							
16 May 2022	IC							
24 May 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.7**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 May 2022	IC							
12 May 2022	IC							
16 May 2022	IC							
24 May 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.8**

Summary of water quality parameters at the PLOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Enter) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
A1	02 May 2022	844	1	<2	<2	<2	1.00	15.7	71.14	8.8	33.65	8.2
A1	02 May 2022	844	12	<2	2e	<2	1.00	13.8	72.75	7.0	33.72	8.2
A1	02 May 2022	844	18	2e	<2	<2	1.00	12.4	75.51	5.9	33.74	8.0
A1	12 May 2022	727	1	<2	<2	<2	1.00	16.3	63.92	7.4	33.63	8.2
A1	12 May 2022	727	12	22e	<2	2e	0.09	10.9	79.75	3.6	33.80	7.8
A1	12 May 2022	727	18	68	12e	2e	0.18	10.2	77.81	2.7	33.96	7.7
A1	16 May 2022	755	1	<2	<2	<2	1.00	16.4	63.42	7.7	33.72	8.2
A1	16 May 2022	755	12	18e	2e	2e	0.11	11.1	79.33	3.9	33.84	7.8
A1	16 May 2022	755	18	18e	4e	<2	0.22	10.8	79.75	3.5	33.89	7.7
A1	24 May 2022	811	1	<2	<2	<2	1.00	16.9	69.12	8.4	33.72	8.2
A1	24 May 2022	811	12	<2	<2	<2	1.00	15.6	73.72	7.1	33.70	8.2
A1	24 May 2022	811	18	<2	4e	<2	2.00	13.3	77.91	5.5	33.72	8.0
A6	02 May 2022	905	1	<2	<2	<2	1.00	15.9	73.61	8.6	33.63	8.2
A6	02 May 2022	905	12	<2	<2	<2	1.00	15.4	72.23	8.6	33.66	8.2
A6	02 May 2022	905	18	<2	<2	<2	1.00	12.9	74.72	7.0	33.76	8.1
A6	12 May 2022	802	1	<2	2e	<2	1.00	16.8	72.23	7.4	33.67	8.2
A6	12 May 2022	802	12	2e	<2	<2	1.00	11.6	79.13	4.3	33.70	7.9
A6	12 May 2022	802	18	12e	2e	<2	0.17	10.2	77.31	3.0	33.90	7.7
A6	16 May 2022	822	1	<2	<2	<2	1.00	17.1	69.03	8.3	33.72	8.2
A6	16 May 2022	822	12	14e	<2	<2	0.14	11.0	79.42	4.0	33.82	7.8
A6	16 May 2022	822	18	26e	6e	2e	0.23	10.6	80.24	3.5	33.89	7.7
A6	24 May 2022	835	1	<2	<2	<2	1.00	17.6	67.93	8.2	33.77	8.2
A6	24 May 2022	835	12	<2	<2	<2	1.00	15.9	74.44	7.9	33.68	8.2
A6	24 May 2022	835	18	<2	<2	<2	1.00	14.7	77.26	6.1	33.73	8.1
A7	02 May 2022	853	1	<2	<2	<2	1.00	15.9	73.57	8.6	33.63	8.2
A7	02 May 2022	853	12	<2	<2	<2	1.00	15.8	73.39	8.4	33.64	8.2
A7	02 May 2022	853	18	2e	<2	<2	1.00	12.9	73.79	6.8	33.73	8.1
A7	12 May 2022	738	1	<2	<2	<2	1.00	16.6	71.49	7.5	33.66	8.2
A7	12 May 2022	738	12	2e	2e	<2	1.00	11.7	79.56	4.2	33.67	7.8
A7	12 May 2022	738	18	48	22e	8e	0.46	10.1	77.08	2.6	33.96	7.7
A7	16 May 2022	805	1	<2	<2	<2	1.00	16.6	65.06	7.8	33.71	8.2
A7	16 May 2022	805	12	14e	<2	<2	0.14	10.9	79.56	3.8	33.84	7.8
A7	16 May 2022	805	18	32e	8e	<2	0.25	10.6	79.77	3.3	33.91	7.7
A7	24 May 2022	822	1	2e	2e	<2	1.00	17.2	69.34	8.3	33.74	8.3
A7	24 May 2022	822	12	<2	2e	<2	1.00	15.7	73.51	7.8	33.70	8.2
A7	24 May 2022	822	18	<2	8e	<2	4.00	14.6	76.35	6.4	33.72	8.1
C4	02 May 2022	1009	1	2e	<2	<2	1.00	15.6	67.44	9.1	33.69	8.3
C4	02 May 2022	1009	3	<2	<2	<2	1.00	15.6	68.45	9.2	33.70	8.3
C4	02 May 2022	1009	9	<20	<2	<2	0.10	15.2	67.73	7.6	33.70	8.2

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
C4	12 May 2022	907	1	<2	2e	<2	1.00	17.4	67.53	7.6	33.70	8.3
C4	12 May 2022	907	3	2e	<2	<2	1.00	17.1	68.78	7.7	33.70	8.3
C4	12 May 2022	907	9	<2	<2	<2	1.00	11.3	76.59	4.0	33.94	7.8
C4	16 May 2022	1003	1	6e	<2	<2	0.33	16.6	62.59	8.3	33.72	8.2
C4	16 May 2022	1003	3	<2	<2	<2	1.00	16.4	64.07	7.8	33.74	8.3
C4	16 May 2022	1003	9	<2	<2	<2	1.00	12.6	74.12	5.1	33.81	8.0
C4	24 May 2022	943	1	<20	4e	<2	0.20	17.4	64.51	7.1	33.76	8.2
C4	24 May 2022	943	3	4e	2e	<2	0.50	17.4	64.87	7.3	33.75	8.2
C4	24 May 2022	943	9	<2	<2	<2	1.00	16.1	71.20	6.1	33.70	8.1
C5	02 May 2022	959	1	<2	<2	<2	1.00	15.9	68.80	8.5	33.67	8.2
C5	02 May 2022	959	3	<2	<2	<2	1.00	15.8	69.58	8.4	33.67	8.2
C5	02 May 2022	959	9	<2	<2	<2	1.00	14.9	69.51	6.4	33.69	8.2
C5	12 May 2022	857	1	<2	<2	<2	1.00	17.4	70.06	7.7	33.70	8.3
C5	12 May 2022	857	3	<2	<2	<2	1.00	17.3	70.16	7.6	33.69	8.3
C5	12 May 2022	857	9	2e	2e	<2	1.00	12.6	71.60	5.3	33.69	7.9
C5	16 May 2022	950	1	2e	<2	<2	1.00	17.1	62.17	8.6	33.72	8.3
C5	16 May 2022	950	3	<2	<2	<2	1.00	16.4	60.00	7.5	33.72	8.2
C5	16 May 2022	950	9	4e	<2	<2	0.50	13.3	77.57	4.8	33.75	7.9
C5	24 May 2022	932	1	<2	<2	<2	1.00	17.5	69.66	7.9	33.76	8.2
C5	24 May 2022	932	3	<2	<2	<2	1.00	16.9	70.55	7.5	33.73	8.2
C5	24 May 2022	932	9	<2	2e	<2	1.00	15.9	76.08	6.2	33.72	8.1
C6	02 May 2022	945	1	<2	<2	<2	1.00	16.1	73.65	8.3	33.64	8.2
C6	02 May 2022	945	3	2e	<2	<2	1.00	16.0	73.58	8.2	33.65	8.2
C6	02 May 2022	945	9	<2	<2	<2	1.00	13.8	72.77	6.3	33.70	8.1
C6	12 May 2022	844	1	2e	<2	<2	1.00	17.1	69.71	7.6	33.68	8.2
C6	12 May 2022	844	3	<2	<2	<2	1.00	17.0	72.04	7.7	33.67	8.2
C6	12 May 2022	844	9	<2	<2	<2	1.00	13.1	74.28	5.3	33.65	8.0
C6	16 May 2022	940	1	<2	<2	<2	1.00	17.3	70.17	8.2	33.71	8.3
C6	16 May 2022	940	3	<2	<2	<2	1.00	17.1	68.27	7.7	33.72	8.2
C6	16 May 2022	940	9	4e	<2	<2	0.50	12.8	77.19	4.7	33.77	7.9
C6	24 May 2022	922	1	<2	<2	<2	1.00	17.8	68.32	7.5	33.78	8.2
C6	24 May 2022	922	3	<2	<2	<2	1.00	17.4	68.29	7.5	33.77	8.2
C6	24 May 2022	922	9	<2	<2	<2	1.00	15.9	74.21	6.3	33.72	8.1
C7	02 May 2022	920	1	<2	<2	<2	1.00	16.1	74.45	8.7	33.62	8.2
C7	02 May 2022	920	12	<2	2e	<2	1.00	14.2	73.72	7.3	33.68	8.2
C7	02 May 2022	920	18	<2	4e	<2	2.00	12.4	76.19	5.6	33.73	8.0
C7	12 May 2022	815	1	<2	<2	<2	1.00	17.4	66.34	7.8	33.69	8.2
C7	12 May 2022	815	12	<2	<2	<2	1.00	12.1	77.69	4.8	33.69	8.0
C7	12 May 2022	815	18	2e	<2	<2	1.00	11.1	79.48	4.0	33.70	7.8
C7	16 May 2022	853	1	<2	<2	<2	1.00	16.5	73.00	7.5	33.70	8.2
C7	16 May 2022	853	12	20e	2e	<2	0.10	10.5	80.64	3.6	33.86	7.8
C7	16 May 2022	853	18	40	8e	<2	0.20	10.5	80.73	3.5	33.89	7.8
C7	24 May 2022	850	1	<2	<2	<2	1.00	17.6	67.47	8.1	33.73	8.2
C7	24 May 2022	850	12	<20	<2	<2	0.10	16.2	72.09	8.0	33.71	8.2
C7	24 May 2022	850	18	<2	<2	<2	1.00	13.1	78.79	5.3	33.77	8.0

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
C8	02 May 2022	931	1	<2	<2	<2	1.00	16.1	74.14	8.8	33.62	8.2
C8	02 May 2022	931	12	<2	<2	<2	1.00	15.5	73.08	7.8	33.65	8.2
C8	02 May 2022	931	18	<2	<2	<2	1.00	12.7	77.24	5.4	33.73	8.1
C8	12 May 2022	827	1	2e	<2	<2	1.00	17.5	66.81	8.0	33.69	8.3
C8	12 May 2022	827	12	<2	<2	<2	1.00	13.3	75.29	5.5	33.65	8.0
C8	12 May 2022	827	18	4e	<2	<2	0.50	11.0	80.54	4.1	33.70	7.8
C8	16 May 2022	909	1	<2	<2	<2	1.00	17.0	70.34	8.0	33.70	8.2
C8	16 May 2022	909	12	12e	<2	<2	0.17	10.6	80.58	3.7	33.85	7.8
C8	16 May 2022	909	18	52	2e	2e	0.04	10.5	80.38	3.4	33.91	7.7
C8	24 May 2022	904	1	<20	<2	<2	0.10	17.3	75.58	8.2	33.68	8.2
C8	24 May 2022	904	12	<2	<2	<2	1.00	16.2	76.29	7.8	33.67	8.2
C8	24 May 2022	904	18	4e	<2	<2	0.50	12.4	78.28	5.0	33.77	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 2022	Depth (m)	18
A1	02 May 2022	Arrive Time	841
A1	02 May 2022	Depart Time	848
A1	02 May 2022	Air Temp (C)	14.4
A1	02 May 2022	Weather	Continuous Layer of Clouds
A1	02 May 2022	Visibility (mi)	10
A1	02 May 2022	Wind Speed (kts)	6.9
A1	02 May 2022	Wind Dir	SE
A1	02 May 2022	Water Color	
A1	02 May 2022	Wave Ht Low (ft)	5
A1	02 May 2022	Wave Period (sec)	8
A1	02 May 2022	Sea State	Regular Swell
A1	02 May 2022	High Tide (ft)	5.38
A1	02 May 2022	High Tide Time	518
A1	02 May 2022	Low Tide (ft)	-0.53
A1	02 May 2022	Low Tide Time	1154
A1	02 May 2022	Comments	none
A1	12 May 2022	Depth (m)	19
A1	12 May 2022	Arrive Time	727
A1	12 May 2022	Depart Time	731
A1	12 May 2022	Air Temp (C)	13.8
A1	12 May 2022	Weather	Haze
A1	12 May 2022	Visibility (mi)	6
A1	12 May 2022	Wind Speed (kts)	6.1
A1	12 May 2022	Wind Dir	NE
A1	12 May 2022	Water Color	Green
A1	12 May 2022	Wave Ht Low (ft)	6
A1	12 May 2022	Wave Period (sec)	8
A1	12 May 2022	Sea State	Confused Swell
A1	12 May 2022	High Tide (ft)	5.03
A1	12 May 2022	High Tide Time	236
A1	12 May 2022	Low Tide (ft)	0.46
A1	12 May 2022	Low Tide Time	2012
A1	12 May 2022	Comments	Kelp
A1	16 May 2022	Depth (m)	19
A1	16 May 2022	Arrive Time	755
A1	16 May 2022	Depart Time	804
A1	16 May 2022	Air Temp (C)	15
A1	16 May 2022	Weather	Overcast
A1	16 May 2022	Visibility (mi)	8
A1	16 May 2022	Wind Speed (kts)	8.4
A1	16 May 2022	Wind Dir	S
A1	16 May 2022	Water Color	Brown
A1	16 May 2022	Wave Ht Low (ft)	5
A1	16 May 2022	Wave Period (sec)	8
A1	16 May 2022	Sea State	Confused Swell
A1	16 May 2022	High Tide (ft)	6.47
A1	16 May 2022	High Tide Time	442
A1	16 May 2022	Low Tide (ft)	-1.35
A1	16 May 2022	Low Tide Time	1112
A1	16 May 2022	Comments	none
A1	24 May 2022	Depth (m)	19
A1	24 May 2022	Arrive Time	811

Station	Date	Parameter	Value
A1	24 May 2022	Depart Time	814
A1	24 May 2022	Air Temp (C)	15
A1	24 May 2022	Weather	Overcast
A1	24 May 2022	Visibility (mi)	7
A1	24 May 2022	Wind Speed (kts)	0
A1	24 May 2022	Wind Dir	W
A1	24 May 2022	Water Color	Greenish-Brown
A1	24 May 2022	Wave Ht Low (ft)	4
A1	24 May 2022	Wave Period (sec)	10
A1	24 May 2022	Sea State	Regular Swell
A1	24 May 2022	High Tide (ft)	4.87
A1	24 May 2022	High Tide Time	142
A1	24 May 2022	Low Tide (ft)	0.24
A1	24 May 2022	Low Tide Time	1900
A1	24 May 2022	Comments	none
A6	02 May 2022	Depth (m)	18
A6	02 May 2022	Arrive Time	905
A6	02 May 2022	Depart Time	911
A6	02 May 2022	Air Temp (C)	14.6
A6	02 May 2022	Weather	Continuous Layer of Clouds
A6	02 May 2022	Visibility (mi)	10
A6	02 May 2022	Wind Speed (kts)	7.2
A6	02 May 2022	Wind Dir	SE
A6	02 May 2022	Water Color	Blueish-Green
A6	02 May 2022	Wave Ht Low (ft)	5
A6	02 May 2022	Wave Period (sec)	8
A6	02 May 2022	Sea State	Regular Swell
A6	02 May 2022	High Tide (ft)	5.38
A6	02 May 2022	High Tide Time	518
A6	02 May 2022	Low Tide (ft)	-0.53
A6	02 May 2022	Low Tide Time	1154
A6	02 May 2022	Comments	Kelp Debris
A6	12 May 2022	Depth (m)	20
A6	12 May 2022	Arrive Time	802
A6	12 May 2022	Depart Time	815
A6	12 May 2022	Air Temp (C)	16.2
A6	12 May 2022	Weather	Haze
A6	12 May 2022	Visibility (mi)	8
A6	12 May 2022	Wind Speed (kts)	0
A6	12 May 2022	Wind Dir	NE
A6	12 May 2022	Water Color	Green
A6	12 May 2022	Wave Ht Low (ft)	6
A6	12 May 2022	Wave Period (sec)	8
A6	12 May 2022	Sea State	Confused Swell
A6	12 May 2022	High Tide (ft)	5.03
A6	12 May 2022	High Tide Time	236
A6	12 May 2022	Low Tide (ft)	0.46
A6	12 May 2022	Low Tide Time	2012
A6	12 May 2022	Comments	Kelp; Kelp Debris
A6	16 May 2022	Depth (m)	18
A6	16 May 2022	Arrive Time	822
A6	16 May 2022	Depart Time	829
A6	16 May 2022	Air Temp (C)	15
A6	16 May 2022	Weather	Overcast
A6	16 May 2022	Visibility (mi)	8
A6	16 May 2022	Wind Speed (kts)	7.8
A6	16 May 2022	Wind Dir	SE
A6	16 May 2022	Water Color	Brown

Station	Date	Parameter	Value
A6	16 May 2022	Wave Ht Low (ft)	5
A6	16 May 2022	Wave Period (sec)	8
A6	16 May 2022	Sea State	Confused Swell
A6	16 May 2022	High Tide (ft)	6.47
A6	16 May 2022	High Tide Time	442
A6	16 May 2022	Low Tide (ft)	-1.35
A6	16 May 2022	Low Tide Time	1112
A6	16 May 2022	Comments	Dozens of common dolphin on station
A6	24 May 2022	Depth (m)	19
A6	24 May 2022	Arrive Time	835
A6	24 May 2022	Depart Time	840
A6	24 May 2022	Air Temp (C)	15
A6	24 May 2022	Weather	Overcast
A6	24 May 2022	Visibility (mi)	7
A6	24 May 2022	Wind Speed (kts)	2.1
A6	24 May 2022	Wind Dir	S
A6	24 May 2022	Water Color	Greenish-Brown
A6	24 May 2022	Wave Ht Low (ft)	4
A6	24 May 2022	Wave Period (sec)	10
A6	24 May 2022	Sea State	Regular Swell
A6	24 May 2022	High Tide (ft)	4.87
A6	24 May 2022	High Tide Time	142
A6	24 May 2022	Low Tide (ft)	0.24
A6	24 May 2022	Low Tide Time	1900
A6	24 May 2022	Comments	none
A7	02 May 2022	Depth (m)	20
A7	02 May 2022	Arrive Time	853
A7	02 May 2022	Depart Time	858
A7	02 May 2022	Air Temp (C)	14.6
A7	02 May 2022	Weather	Continuous Layer of Clouds
A7	02 May 2022	Visibility (mi)	10
A7	02 May 2022	Wind Speed (kts)	4.5
A7	02 May 2022	Wind Dir	SE
A7	02 May 2022	Water Color	Blueish-Green
A7	02 May 2022	Wave Ht Low (ft)	5
A7	02 May 2022	Wave Period (sec)	8
A7	02 May 2022	Sea State	Regular Swell
A7	02 May 2022	High Tide (ft)	5.38
A7	02 May 2022	High Tide Time	518
A7	02 May 2022	Low Tide (ft)	-0.53
A7	02 May 2022	Low Tide Time	1154
A7	02 May 2022	Comments	Kelp Debris
A7	12 May 2022	Depth (m)	20
A7	12 May 2022	Arrive Time	738
A7	12 May 2022	Depart Time	752
A7	12 May 2022	Air Temp (C)	15.2
A7	12 May 2022	Weather	Haze
A7	12 May 2022	Visibility (mi)	8
A7	12 May 2022	Wind Speed (kts)	1.7
A7	12 May 2022	Wind Dir	NE
A7	12 May 2022	Water Color	Green
A7	12 May 2022	Wave Ht Low (ft)	6
A7	12 May 2022	Wave Period (sec)	8
A7	12 May 2022	Sea State	Confused Swell
A7	12 May 2022	High Tide (ft)	5.03
A7	12 May 2022	High Tide Time	236
A7	12 May 2022	Low Tide (ft)	0.46
A7	12 May 2022	Low Tide Time	2012

Station	Date	Parameter	Value
A7	12 May 2022	Comments	Kelp; Kelp Debris; 3 casts to get depth and good cast
A7	16 May 2022	Depth (m)	18
A7	16 May 2022	Arrive Time	807
A7	16 May 2022	Depart Time	815
A7	16 May 2022	Air Temp (C)	15.3
A7	16 May 2022	Weather	Overcast
A7	16 May 2022	Visibility (mi)	8
A7	16 May 2022	Wind Speed (kts)	8.5
A7	16 May 2022	Wind Dir	SW
A7	16 May 2022	Water Color	Brown
A7	16 May 2022	Wave Ht Low (ft)	5
A7	16 May 2022	Wave Period (sec)	8
A7	16 May 2022	Sea State	Confused Swell
A7	16 May 2022	High Tide (ft)	6.47
A7	16 May 2022	High Tide Time	442
A7	16 May 2022	Low Tide (ft)	-1.35
A7	16 May 2022	Low Tide Time	1112
A7	16 May 2022	Comments	none
A7	24 May 2022	Depth (m)	20
A7	24 May 2022	Arrive Time	822
A7	24 May 2022	Depart Time	827
A7	24 May 2022	Air Temp (C)	15
A7	24 May 2022	Weather	Overcast
A7	24 May 2022	Visibility (mi)	7
A7	24 May 2022	Wind Speed (kts)	1.9
A7	24 May 2022	Wind Dir	SW
A7	24 May 2022	Water Color	Greenish-Brown
A7	24 May 2022	Wave Ht Low (ft)	4
A7	24 May 2022	Wave Period (sec)	10
A7	24 May 2022	Sea State	Regular Swell
A7	24 May 2022	High Tide (ft)	4.87
A7	24 May 2022	High Tide Time	142
A7	24 May 2022	Low Tide (ft)	0.24
A7	24 May 2022	Low Tide Time	1900
A7	24 May 2022	Comments	none
C4	02 May 2022	Depth (m)	11
C4	02 May 2022	Arrive Time	1009
C4	02 May 2022	Depart Time	1014
C4	02 May 2022	Air Temp (C)	14.8
C4	02 May 2022	Weather	Continuous Layer of Clouds
C4	02 May 2022	Visibility (mi)	10
C4	02 May 2022	Wind Speed (kts)	4.4
C4	02 May 2022	Wind Dir	SE
C4	02 May 2022	Water Color	Green
C4	02 May 2022	Wave Ht Low (ft)	5
C4	02 May 2022	Wave Period (sec)	8
C4	02 May 2022	Sea State	Regular Swell
C4	02 May 2022	High Tide (ft)	5.38
C4	02 May 2022	High Tide Time	518
C4	02 May 2022	Low Tide (ft)	-0.53
C4	02 May 2022	Low Tide Time	1154
C4	02 May 2022	Comments	Kelp
C4	12 May 2022	Depth (m)	11
C4	12 May 2022	Arrive Time	907
C4	12 May 2022	Depart Time	911
C4	12 May 2022	Air Temp (C)	14.7
C4	12 May 2022	Weather	Clear

Station	Date	Parameter	Value
C4	12 May 2022	Visibility (mi)	14
C4	12 May 2022	Wind Speed (kts)	2.2
C4	12 May 2022	Wind Dir	E
C4	12 May 2022	Water Color	Green
C4	12 May 2022	Wave Ht Low (ft)	6
C4	12 May 2022	Wave Period (sec)	8
C4	12 May 2022	Sea State	Confused Swell
C4	12 May 2022	High Tide (ft)	5.03
C4	12 May 2022	High Tide Time	236
C4	12 May 2022	Low Tide (ft)	0.46
C4	12 May 2022	Low Tide Time	2012
C4	12 May 2022	Comments	Kelp; Kelp Debris
C4	16 May 2022	Depth (m)	11
C4	16 May 2022	Arrive Time	1003
C4	16 May 2022	Depart Time	1011
C4	16 May 2022	Air Temp (C)	15.4
C4	16 May 2022	Weather	Overcast
C4	16 May 2022	Visibility (mi)	8
C4	16 May 2022	Wind Speed (kts)	8.4
C4	16 May 2022	Wind Dir	SE
C4	16 May 2022	Water Color	Brown
C4	16 May 2022	Wave Ht Low (ft)	5
C4	16 May 2022	Wave Period (sec)	8
C4	16 May 2022	Sea State	Confused Swell
C4	16 May 2022	High Tide (ft)	6.47
C4	16 May 2022	High Tide Time	442
C4	16 May 2022	Low Tide (ft)	-1.35
C4	16 May 2022	Low Tide Time	1112
C4	16 May 2022	Comments	none
C4	24 May 2022	Depth (m)	10
C4	24 May 2022	Arrive Time	943
C4	24 May 2022	Depart Time	952
C4	24 May 2022	Air Temp (C)	14.9
C4	24 May 2022	Weather	Overcast
C4	24 May 2022	Visibility (mi)	7
C4	24 May 2022	Wind Speed (kts)	6.5
C4	24 May 2022	Wind Dir	SW
C4	24 May 2022	Water Color	Greenish-Brown
C4	24 May 2022	Wave Ht Low (ft)	4
C4	24 May 2022	Wave Period (sec)	10
C4	24 May 2022	Sea State	Regular Swell
C4	24 May 2022	High Tide (ft)	4.87
C4	24 May 2022	High Tide Time	142
C4	24 May 2022	Low Tide (ft)	0.24
C4	24 May 2022	Low Tide Time	1900
C4	24 May 2022	Comments	none
C5	02 May 2022	Depth (m)	10
C5	02 May 2022	Arrive Time	959
C5	02 May 2022	Depart Time	1005
C5	02 May 2022	Air Temp (C)	14.7
C5	02 May 2022	Weather	Continuous Layer of Clouds
C5	02 May 2022	Visibility (mi)	10
C5	02 May 2022	Wind Speed (kts)	5.7
C5	02 May 2022	Wind Dir	SE
C5	02 May 2022	Water Color	Blueish-Green
C5	02 May 2022	Wave Ht Low (ft)	5
C5	02 May 2022	Wave Period (sec)	8
C5	02 May 2022	Sea State	Regular Swell

Station	Date	Parameter	Value
C5	02 May 2022	High Tide (ft)	5.38
C5	02 May 2022	High Tide Time	518
C5	02 May 2022	Low Tide (ft)	-0.53
C5	02 May 2022	Low Tide Time	1154
C5	02 May 2022	Comments	Kelp Drbris
C5	12 May 2022	Depth (m)	9
C5	12 May 2022	Arrive Time	857
C5	12 May 2022	Depart Time	902
C5	12 May 2022	Air Temp (C)	14.7
C5	12 May 2022	Weather	Clear
C5	12 May 2022	Visibility (mi)	14
C5	12 May 2022	Wind Speed (kts)	2.4
C5	12 May 2022	Wind Dir	E
C5	12 May 2022	Water Color	Green
C5	12 May 2022	Wave Ht Low (ft)	6
C5	12 May 2022	Wave Period (sec)	8
C5	12 May 2022	Sea State	Confused Swell
C5	12 May 2022	High Tide (ft)	5.03
C5	12 May 2022	High Tide Time	236
C5	12 May 2022	Low Tide (ft)	0.46
C5	12 May 2022	Low Tide Time	2012
C5	12 May 2022	Comments	Kelp; Kelp Debris; Surfgrass
C5	16 May 2022	Depth (m)	12
C5	16 May 2022	Arrive Time	950
C5	16 May 2022	Depart Time	955
C5	16 May 2022	Air Temp (C)	15.4
C5	16 May 2022	Weather	Overcast
C5	16 May 2022	Visibility (mi)	8
C5	16 May 2022	Wind Speed (kts)	12
C5	16 May 2022	Wind Dir	SE
C5	16 May 2022	Water Color	Brown
C5	16 May 2022	Wave Ht Low (ft)	5
C5	16 May 2022	Wave Period (sec)	8
C5	16 May 2022	Sea State	Confused Swell
C5	16 May 2022	High Tide (ft)	6.47
C5	16 May 2022	High Tide Time	442
C5	16 May 2022	Low Tide (ft)	-1.35
C5	16 May 2022	Low Tide Time	1112
C5	16 May 2022	Comments	none
C5	24 May 2022	Depth (m)	11
C5	24 May 2022	Arrive Time	932
C5	24 May 2022	Depart Time	936
C5	24 May 2022	Air Temp (C)	15.1
C5	24 May 2022	Weather	Overcast
C5	24 May 2022	Visibility (mi)	7
C5	24 May 2022	Wind Speed (kts)	11
C5	24 May 2022	Wind Dir	SW
C5	24 May 2022	Water Color	Greenish-Brown
C5	24 May 2022	Wave Ht Low (ft)	4
C5	24 May 2022	Wave Period (sec)	10
C5	24 May 2022	Sea State	Regular Swell
C5	24 May 2022	High Tide (ft)	4.87
C5	24 May 2022	High Tide Time	142
C5	24 May 2022	Low Tide (ft)	0.24
C5	24 May 2022	Low Tide Time	1900
C5	24 May 2022	Comments	none
C6	02 May 2022	Depth (m)	10

Station	Date	Parameter	Value
C6	02 May 2022	Arrive Time	945
C6	02 May 2022	Depart Time	953
C6	02 May 2022	Air Temp (C)	14.8
C6	02 May 2022	Weather	Continuous Layer of Clouds
C6	02 May 2022	Visibility (mi)	10
C6	02 May 2022	Wind Speed (kts)	6.2
C6	02 May 2022	Wind Dir	SE
C6	02 May 2022	Water Color	Blueish-Green
C6	02 May 2022	Wave Ht Low (ft)	5
C6	02 May 2022	Wave Period (sec)	8
C6	02 May 2022	Sea State	Regular Swell
C6	02 May 2022	High Tide (ft)	5.38
C6	02 May 2022	High Tide Time	518
C6	02 May 2022	Low Tide (ft)	-0.53
C6	02 May 2022	Low Tide Time	1154
C6	02 May 2022	Comments	none
C6	12 May 2022	Depth (m)	9
C6	12 May 2022	Arrive Time	844
C6	12 May 2022	Depart Time	848
C6	12 May 2022	Air Temp (C)	15.9
C6	12 May 2022	Weather	Clear
C6	12 May 2022	Visibility (mi)	14
C6	12 May 2022	Wind Speed (kts)	0
C6	12 May 2022	Wind Dir	E
C6	12 May 2022	Water Color	Green
C6	12 May 2022	Wave Ht Low (ft)	6
C6	12 May 2022	Wave Period (sec)	8
C6	12 May 2022	Sea State	Confused Swell
C6	12 May 2022	High Tide (ft)	5.03
C6	12 May 2022	High Tide Time	236
C6	12 May 2022	Low Tide (ft)	0.46
C6	12 May 2022	Low Tide Time	2012
C6	12 May 2022	Comments	Kelp
C6	16 May 2022	Depth (m)	9
C6	16 May 2022	Arrive Time	940
C6	16 May 2022	Depart Time	944
C6	16 May 2022	Air Temp (C)	15.3
C6	16 May 2022	Weather	Overcast
C6	16 May 2022	Visibility (mi)	8
C6	16 May 2022	Wind Speed (kts)	6
C6	16 May 2022	Wind Dir	S
C6	16 May 2022	Water Color	Brown
C6	16 May 2022	Wave Ht Low (ft)	5
C6	16 May 2022	Wave Period (sec)	8
C6	16 May 2022	Sea State	Confused Swell
C6	16 May 2022	High Tide (ft)	6.47
C6	16 May 2022	High Tide Time	442
C6	16 May 2022	Low Tide (ft)	-1.35
C6	16 May 2022	Low Tide Time	1112
C6	16 May 2022	Comments	none
C6	24 May 2022	Depth (m)	9
C6	24 May 2022	Arrive Time	922
C6	24 May 2022	Depart Time	926
C6	24 May 2022	Air Temp (C)	15.1
C6	24 May 2022	Weather	Overcast
C6	24 May 2022	Visibility (mi)	7
C6	24 May 2022	Wind Speed (kts)	4.7
C6	24 May 2022	Wind Dir	S

Station	Date	Parameter	Value
C6	24 May 2022	Water Color	Greenish-Brown
C6	24 May 2022	Wave Ht Low (ft)	4
C6	24 May 2022	Wave Period (sec)	10
C6	24 May 2022	Sea State	Regular Swell
C6	24 May 2022	High Tide (ft)	4.87
C6	24 May 2022	High Tide Time	142
C6	24 May 2022	Low Tide (ft)	0.24
C6	24 May 2022	Low Tide Time	1900
C6	24 May 2022	Comments	none
C7	02 May 2022	Depth (m)	19
C7	02 May 2022	Arrive Time	920
C7	02 May 2022	Depart Time	924
C7	02 May 2022	Air Temp (C)	14.7
C7	02 May 2022	Weather	Continuous Layer of Clouds
C7	02 May 2022	Visibility (mi)	10
C7	02 May 2022	Wind Speed (kts)	7.7
C7	02 May 2022	Wind Dir	SE
C7	02 May 2022	Water Color	Blueish-Green
C7	02 May 2022	Wave Ht Low (ft)	5
C7	02 May 2022	Wave Period (sec)	8
C7	02 May 2022	Sea State	Regular Swell
C7	02 May 2022	High Tide (ft)	5.38
C7	02 May 2022	High Tide Time	518
C7	02 May 2022	Low Tide (ft)	-0.53
C7	02 May 2022	Low Tide Time	1154
C7	02 May 2022	Comments	none
C7	12 May 2022	Depth (m)	18
C7	12 May 2022	Arrive Time	815
C7	12 May 2022	Depart Time	820
C7	12 May 2022	Air Temp (C)	16
C7	12 May 2022	Weather	Haze
C7	12 May 2022	Visibility (mi)	8
C7	12 May 2022	Wind Speed (kts)	0
C7	12 May 2022	Wind Dir	E
C7	12 May 2022	Water Color	Green
C7	12 May 2022	Wave Ht Low (ft)	6
C7	12 May 2022	Wave Period (sec)	8
C7	12 May 2022	Sea State	Confused Swell
C7	12 May 2022	High Tide (ft)	5.03
C7	12 May 2022	High Tide Time	236
C7	12 May 2022	Low Tide (ft)	0.46
C7	12 May 2022	Low Tide Time	2012
C7	12 May 2022	Comments	Kelp; Kelp Debris
C7	16 May 2022	Depth (m)	18
C7	16 May 2022	Arrive Time	853
C7	16 May 2022	Depart Time	907
C7	16 May 2022	Air Temp (C)	15.3
C7	16 May 2022	Weather	Overcast
C7	16 May 2022	Visibility (mi)	8
C7	16 May 2022	Wind Speed (kts)	2.5
C7	16 May 2022	Wind Dir	E
C7	16 May 2022	Water Color	Brown
C7	16 May 2022	Wave Ht Low (ft)	5
C7	16 May 2022	Wave Period (sec)	8
C7	16 May 2022	Sea State	Confused Swell
C7	16 May 2022	High Tide (ft)	6.47
C7	16 May 2022	High Tide Time	442
C7	16 May 2022	Low Tide (ft)	-1.35

Station	Date	Parameter	Value
C7	16 May 2022	Low Tide Time	1112
C7	16 May 2022	Comments	Engine trouble
C7	24 May 2022	Depth (m)	18
C7	24 May 2022	Arrive Time	850
C7	24 May 2022	Depart Time	856
C7	24 May 2022	Air Temp (C)	14.9
C7	24 May 2022	Weather	Overcast
C7	24 May 2022	Visibility (mi)	7
C7	24 May 2022	Wind Speed (kts)	4.1
C7	24 May 2022	Wind Dir	W
C7	24 May 2022	Water Color	Greenish-Brown
C7	24 May 2022	Wave Ht Low (ft)	4
C7	24 May 2022	Wave Period (sec)	10
C7	24 May 2022	Sea State	Regular Swell
C7	24 May 2022	High Tide (ft)	4.87
C7	24 May 2022	High Tide Time	142
C7	24 May 2022	Low Tide (ft)	0.24
C7	24 May 2022	Low Tide Time	1900
C7	24 May 2022	Comments	none
C8	02 May 2022	Depth (m)	19
C8	02 May 2022	Arrive Time	931
C8	02 May 2022	Depart Time	935
C8	02 May 2022	Air Temp (C)	14.7
C8	02 May 2022	Weather	Continuous Layer of Clouds
C8	02 May 2022	Visibility (mi)	10
C8	02 May 2022	Wind Speed (kts)	6.2
C8	02 May 2022	Wind Dir	SE
C8	02 May 2022	Water Color	Blueish-Green
C8	02 May 2022	Wave Ht Low (ft)	5
C8	02 May 2022	Wave Period (sec)	8
C8	02 May 2022	Sea State	Regular Swell
C8	02 May 2022	High Tide (ft)	5.38
C8	02 May 2022	High Tide Time	518
C8	02 May 2022	Low Tide (ft)	-0.53
C8	02 May 2022	Low Tide Time	1154
C8	02 May 2022	Comments	Seagrass
C8	12 May 2022	Depth (m)	20
C8	12 May 2022	Arrive Time	827
C8	12 May 2022	Depart Time	831
C8	12 May 2022	Air Temp (C)	15.8
C8	12 May 2022	Weather	Clear
C8	12 May 2022	Visibility (mi)	14
C8	12 May 2022	Wind Speed (kts)	1.1
C8	12 May 2022	Wind Dir	NE
C8	12 May 2022	Water Color	Green
C8	12 May 2022	Wave Ht Low (ft)	6
C8	12 May 2022	Wave Period (sec)	8
C8	12 May 2022	Sea State	Confused Swell
C8	12 May 2022	High Tide (ft)	5.03
C8	12 May 2022	High Tide Time	236
C8	12 May 2022	Low Tide (ft)	0.46
C8	12 May 2022	Low Tide Time	2012
C8	12 May 2022	Comments	Kelp Debris
C8	16 May 2022	Depth (m)	20
C8	16 May 2022	Arrive Time	909
C8	16 May 2022	Depart Time	916
C8	16 May 2022	Air Temp (C)	15.4

Station	Date	Parameter	Value
C8	16 May 2022	Weather	Overcast
C8	16 May 2022	Visibility (mi)	8
C8	16 May 2022	Wind Speed (kts)	6.8
C8	16 May 2022	Wind Dir	E
C8	16 May 2022	Water Color	Brown
C8	16 May 2022	Wave Ht Low (ft)	5
C8	16 May 2022	Wave Period (sec)	8
C8	16 May 2022	Sea State	Confused Swell
C8	16 May 2022	High Tide (ft)	6.47
C8	16 May 2022	High Tide Time	442
C8	16 May 2022	Low Tide (ft)	-1.35
C8	16 May 2022	Low Tide Time	1112
C8	16 May 2022	Comments	none
C8	24 May 2022	Depth (m)	19
C8	24 May 2022	Arrive Time	904
C8	24 May 2022	Depart Time	906
C8	24 May 2022	Air Temp (C)	15
C8	24 May 2022	Weather	Overcast
C8	24 May 2022	Visibility (mi)	7
C8	24 May 2022	Wind Speed (kts)	2.5
C8	24 May 2022	Wind Dir	W
C8	24 May 2022	Water Color	Greenish-Brown
C8	24 May 2022	Wave Ht Low (ft)	4
C8	24 May 2022	Wave Period (sec)	10
C8	24 May 2022	Sea State	Regular Swell
C8	24 May 2022	High Tide (ft)	4.87
C8	24 May 2022	High Tide Time	142
C8	24 May 2022	Low Tide (ft)	0.24
C8	24 May 2022	Low Tide Time	1900
C8	24 May 2022	Comments	none

**Table 3.10**

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A1	02 May 2022	1	15.70	71.14	8.8	33.65	8.2	24.8	3.63
A1	02 May 2022	2	15.69	71.91	8.7	33.65	8.2	24.8	3.80
A1	02 May 2022	3	15.67	72.06	8.7	33.66	8.2	24.8	4.13
A1	02 May 2022	4	15.65	72.01	8.7	33.66	8.2	24.8	4.32
A1	02 May 2022	5	15.62	71.71	8.7	33.66	8.2	24.8	4.67
A1	02 May 2022	6	15.58	71.46	8.7	33.66	8.2	24.8	4.93
A1	02 May 2022	7	15.55	71.24	8.7	33.66	8.2	24.8	4.96
A1	02 May 2022	8	15.47	71.18	8.8	33.67	8.2	24.8	4.92
A1	02 May 2022	9	15.35	71.12	8.6	33.68	8.2	24.9	4.70
A1	02 May 2022	10	14.88	70.97	8.2	33.70	8.2	25.0	4.67
A1	02 May 2022	11	14.39	71.62	7.6	33.71	8.2	25.1	4.25
A1	02 May 2022	12	13.85	72.75	7.0	33.72	8.2	25.2	4.34
A1	02 May 2022	13	13.26	73.31	6.7	33.73	8.2	25.4	4.09
A1	02 May 2022	14	12.95	74.03	6.6	33.73	8.1	25.4	3.85
A1	02 May 2022	15	12.83	74.31	6.5	33.72	8.1	25.4	3.72
A1	02 May 2022	16	12.70	74.56	6.4	33.73	8.1	25.5	3.88
A1	02 May 2022	17	12.64	74.49	6.2	33.73	8.0	25.5	3.23
A1	02 May 2022	18	12.43	75.51	5.9	33.74	8.0	25.5	2.64
A1	02 May 2022	19	12.35	75.94	5.8	33.74	8.0	25.5	2.40
A1	12 May 2022	1	16.33	63.92	7.4	33.63	8.2	24.6	2.65
A1	12 May 2022	2	16.43	72.74	7.4	33.68	8.2	24.6	2.42
A1	12 May 2022	3	16.25	73.86	7.2	33.68	8.2	24.7	2.76
A1	12 May 2022	4	15.37	73.04	6.5	33.70	8.2	24.9	3.86
A1	12 May 2022	5	14.09	72.08	5.9	33.69	8.1	25.2	5.51
A1	12 May 2022	6	13.39	74.53	5.2	33.69	8.0	25.3	5.28
A1	12 May 2022	7	12.05	77.85	4.6	33.71	7.9	25.6	3.41
A1	12 May 2022	8	12.00	79.15	4.4	33.68	7.8	25.6	2.51
A1	12 May 2022	9	11.36	79.89	4.1	33.74	7.8	25.7	1.97
A1	12 May 2022	10	11.27	79.86	4.0	33.74	7.8	25.7	1.61
A1	12 May 2022	11	11.15	79.87	3.8	33.76	7.8	25.8	1.42
A1	12 May 2022	12	10.88	79.75	3.6	33.80	7.8	25.9	1.32
A1	12 May 2022	13	10.82	79.56	3.5	33.81	7.7	25.9	1.17
A1	12 May 2022	14	10.54	79.26	3.2	33.86	7.7	26.0	1.11
A1	12 May 2022	15	10.42	78.92	3.0	33.89	7.7	26.0	1.02
A1	12 May 2022	16	10.30	78.81	2.8	33.92	7.7	26.1	1.07
A1	12 May 2022	17	10.24	77.91	2.8	33.94	7.7	26.1	1.05
A1	12 May 2022	18	10.22	77.81	2.7	33.96	7.7	26.1	0.97
A1	16 May 2022	1	16.38	63.42	7.7	33.72	8.2	24.7	8.29
A1	16 May 2022	2	16.33	63.58	7.6	33.72	8.2	24.7	8.86
A1	16 May 2022	3	16.18	63.55	7.3	33.72	8.2	24.7	9.94
A1	16 May 2022	4	15.24	63.02	6.4	33.74	8.1	24.9	9.44
A1	16 May 2022	5	14.25	67.84	5.8	33.76	8.0	25.2	6.45
A1	16 May 2022	6	13.48	72.97	5.3	33.77	8.0	25.3	4.69
A1	16 May 2022	7	12.83	75.80	4.9	33.76	7.9	25.5	3.27
A1	16 May 2022	8	12.24	77.27	4.6	33.79	7.9	25.6	2.71
A1	16 May 2022	9	11.75	77.65	4.3	33.79	7.8	25.7	2.23
A1	16 May 2022	10	11.57	78.18	4.2	33.80	7.8	25.7	1.93
A1	16 May 2022	11	11.47	78.97	4.1	33.81	7.8	25.8	1.78
A1	16 May 2022	12	11.08	79.33	3.9	33.84	7.8	25.9	1.62
A1	16 May 2022	13	11.00	79.46	3.8	33.84	7.8	25.9	1.53
A1	16 May 2022	14	10.96	79.46	3.7	33.85	7.8	25.9	1.47
A1	16 May 2022	15	10.91	79.52	3.6	33.87	7.7	25.9	1.38
A1	16 May 2022	16	10.87	79.70	3.6	33.88	7.7	25.9	1.36
A1	16 May 2022	17	10.84	79.72	3.5	33.88	7.7	25.9	1.29

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A1	16 May 2022	18	10.85	79.75	3.5	33.89	7.7	25.9	1.28
A1	16 May 2022	19	10.88	79.32	3.5	33.89	7.7	25.9	1.27
A1	24 May 2022	1	16.88	69.12	8.4	33.72	8.2	24.6	4.24
A1	24 May 2022	2	16.88	67.70	8.2	33.72	8.2	24.6	4.60
A1	24 May 2022	3	16.61	71.58	8.0	33.72	8.2	24.6	4.49
A1	24 May 2022	4	16.32	71.73	7.8	33.70	8.2	24.7	4.52
A1	24 May 2022	5	16.13	71.67	7.7	33.70	8.2	24.7	4.90
A1	24 May 2022	6	15.79	70.57	7.6	33.71	8.2	24.8	4.73
A1	24 May 2022	7	15.75	72.27	7.5	33.70	8.2	24.8	4.45
A1	24 May 2022	8	15.72	73.38	7.5	33.70	8.2	24.8	4.40
A1	24 May 2022	9	15.75	73.79	7.5	33.70	8.2	24.8	4.30
A1	24 May 2022	10	15.78	73.97	7.5	33.70	8.2	24.8	4.21
A1	24 May 2022	11	15.74	73.93	7.4	33.70	8.2	24.8	4.07
A1	24 May 2022	12	15.56	73.72	7.1	33.70	8.2	24.8	3.70
A1	24 May 2022	13	14.93	74.32	6.8	33.71	8.1	25.0	2.95
A1	24 May 2022	14	14.78	75.57	6.4	33.70	8.1	25.0	2.56
A1	24 May 2022	15	14.29	76.55	6.0	33.69	8.1	25.1	2.24
A1	24 May 2022	16	13.60	77.50	5.9	33.72	8.0	25.3	2.02
A1	24 May 2022	17	13.40	77.72	5.8	33.72	8.0	25.3	1.87
A1	24 May 2022	18	13.28	77.91	5.5	33.72	8.0	25.3	1.85
A6	02 May 2022	1	15.93	73.61	8.6	33.63	8.2	24.7	2.58
A6	02 May 2022	2	15.92	73.30	8.7	33.63	8.2	24.7	2.80
A6	02 May 2022	3	15.91	72.30	8.7	33.63	8.2	24.7	3.17
A6	02 May 2022	4	15.90	73.58	8.6	33.63	8.2	24.7	3.49
A6	02 May 2022	5	15.89	73.44	8.7	33.63	8.2	24.7	3.73
A6	02 May 2022	6	15.89	73.37	8.6	33.63	8.2	24.7	3.90
A6	02 May 2022	7	15.88	73.43	8.6	33.63	8.2	24.7	3.81
A6	02 May 2022	8	15.88	73.44	8.6	33.63	8.2	24.7	3.87
A6	02 May 2022	9	15.88	73.48	8.6	33.63	8.2	24.7	3.87
A6	02 May 2022	10	15.83	73.15	8.6	33.63	8.2	24.7	3.84
A6	02 May 2022	11	15.78	72.81	8.6	33.63	8.2	24.7	4.20
A6	02 May 2022	12	15.36	72.23	8.6	33.66	8.2	24.9	4.55
A6	02 May 2022	13	15.23	71.94	8.5	33.66	8.2	24.9	5.02
A6	02 May 2022	14	14.85	71.89	8.0	33.67	8.2	25.0	5.27
A6	02 May 2022	15	13.88	72.02	7.4	33.71	8.2	25.2	4.64
A6	02 May 2022	16	13.36	72.91	7.1	33.72	8.2	25.3	4.37
A6	02 May 2022	17	13.57	73.99	7.0	33.68	8.1	25.3	4.18
A6	02 May 2022	18	12.93	74.72	7.0	33.76	8.1	25.4	3.96
A6	12 May 2022	1	16.75	72.23	7.4	33.67	8.2	24.6	2.70
A6	12 May 2022	2	16.73	72.36	7.5	33.68	8.2	24.6	2.74
A6	12 May 2022	3	16.64	72.15	7.3	33.68	8.2	24.6	3.79
A6	12 May 2022	4	16.02	71.16	7.0	33.68	8.2	24.7	5.40
A6	12 May 2022	5	15.39	69.92	6.4	33.66	8.2	24.9	7.75
A6	12 May 2022	6	14.12	68.54	5.8	33.66	8.1	25.1	6.78
A6	12 May 2022	7	13.45	73.26	5.3	33.65	8.0	25.3	4.25
A6	12 May 2022	8	12.93	75.57	4.9	33.63	8.0	25.3	2.88
A6	12 May 2022	9	12.35	78.24	4.7	33.64	7.9	25.5	2.21
A6	12 May 2022	10	12.21	78.71	4.7	33.65	7.9	25.5	1.86
A6	12 May 2022	11	12.49	78.58	4.7	33.63	7.9	25.4	1.90
A6	12 May 2022	12	11.63	79.13	4.3	33.70	7.9	25.6	1.65
A6	12 May 2022	13	11.24	79.83	4.0	33.73	7.8	25.7	1.51
A6	12 May 2022	14	10.83	79.59	3.6	33.79	7.8	25.9	1.33
A6	12 May 2022	15	10.81	79.66	3.4	33.79	7.8	25.9	1.25
A6	12 May 2022	16	10.31	78.99	3.1	33.88	7.7	26.0	1.13
A6	12 May 2022	17	10.26	77.51	3.0	33.89	7.7	26.0	1.08
A6	12 May 2022	18	10.25	77.31	3.0	33.90	7.7	26.1	1.12
A6	12 May 2022	19	10.25	77.30	3.0	33.91	7.7	26.1	1.11
A6	12 May 2022	20	10.23	76.99	3.0	33.92	7.7	26.1	1.07

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A6	12 May 2022	21	10.23	76.63	3.0	33.92	7.7	26.1	1.04
A6	16 May 2022	1	17.06	69.03	8.3	33.72	8.2	24.5	4.40
A6	16 May 2022	2	17.04	69.17	8.3	33.72	8.2	24.5	4.62
A6	16 May 2022	3	17.04	69.16	8.2	33.72	8.2	24.5	4.84
A6	16 May 2022	4	16.99	68.78	7.8	33.72	8.2	24.5	5.24
A6	16 May 2022	5	16.30	68.35	6.6	33.71	8.2	24.7	6.03
A6	16 May 2022	6	13.67	67.72	5.7	33.78	8.1	25.3	4.97
A6	16 May 2022	7	13.39	72.53	5.3	33.74	8.0	25.3	3.82
A6	16 May 2022	8	12.98	75.60	5.1	33.75	8.0	25.4	3.20
A6	16 May 2022	9	12.47	77.02	4.8	33.75	7.9	25.5	2.77
A6	16 May 2022	10	12.09	77.61	4.6	33.76	7.9	25.6	2.47
A6	16 May 2022	11	11.45	78.23	4.2	33.79	7.9	25.8	2.17
A6	16 May 2022	12	10.97	79.42	4.0	33.82	7.8	25.9	1.84
A6	16 May 2022	13	11.04	80.02	3.9	33.82	7.8	25.8	1.75
A6	16 May 2022	14	10.71	80.12	3.7	33.84	7.8	25.9	1.63
A6	16 May 2022	15	10.58	80.22	3.6	33.87	7.8	26.0	1.54
A6	16 May 2022	16	10.63	80.24	3.6	33.87	7.8	26.0	1.51
A6	16 May 2022	17	10.58	80.31	3.5	33.88	7.8	26.0	1.44
A6	16 May 2022	18	10.58	80.24	3.5	33.89	7.7	26.0	1.40
A6	16 May 2022	19	10.57	80.10	3.4	33.90	7.7	26.0	1.38
A6	24 May 2022	1	17.59	67.93	8.2	33.77	8.2	24.4	6.09
A6	24 May 2022	2	17.53	67.75	8.3	33.76	8.2	24.4	6.98
A6	24 May 2022	3	17.42	67.59	8.4	33.75	8.3	24.5	8.17
A6	24 May 2022	4	17.28	67.04	8.4	33.74	8.3	24.5	7.47
A6	24 May 2022	5	17.12	68.11	8.2	33.74	8.2	24.5	6.64
A6	24 May 2022	6	16.94	69.29	8.1	33.72	8.2	24.5	5.62
A6	24 May 2022	7	16.43	72.24	8.2	33.71	8.2	24.7	4.88
A6	24 May 2022	8	16.24	73.05	8.3	33.70	8.2	24.7	4.84
A6	24 May 2022	9	16.14	73.42	8.3	33.69	8.2	24.7	4.73
A6	24 May 2022	10	16.04	73.56	8.3	33.68	8.2	24.7	4.80
A6	24 May 2022	11	15.99	74.03	8.2	33.68	8.2	24.7	4.50
A6	24 May 2022	12	15.93	74.44	7.9	33.68	8.2	24.7	4.17
A6	24 May 2022	13	15.83	75.24	7.4	33.70	8.2	24.8	3.49
A6	24 May 2022	14	15.75	75.55	7.2	33.70	8.2	24.8	3.05
A6	24 May 2022	15	15.62	76.06	7.1	33.70	8.2	24.8	2.91
A6	24 May 2022	16	15.52	76.22	7.1	33.71	8.2	24.9	2.84
A6	24 May 2022	17	15.34	76.46	6.8	33.72	8.1	24.9	2.58
A6	24 May 2022	18	14.73	77.26	6.1	33.73	8.1	25.0	2.13
A7	02 May 2022	1	15.89	73.57	8.6	33.63	8.2	24.7	3.00
A7	02 May 2022	2	15.89	73.60	8.6	33.63	8.2	24.7	3.16
A7	02 May 2022	3	15.89	73.55	8.7	33.63	8.2	24.7	3.57
A7	02 May 2022	4	15.89	73.46	8.7	33.63	8.2	24.7	3.64
A7	02 May 2022	5	15.88	73.44	8.6	33.63	8.2	24.7	3.88
A7	02 May 2022	6	15.88	73.46	8.6	33.63	8.2	24.7	3.86
A7	02 May 2022	7	15.88	73.33	8.6	33.63	8.2	24.7	3.95
A7	02 May 2022	8	15.88	73.59	8.6	33.63	8.2	24.7	3.84
A7	02 May 2022	9	15.88	73.55	8.6	33.63	8.2	24.7	3.84
A7	02 May 2022	10	15.88	73.55	8.6	33.63	8.2	24.7	3.90
A7	02 May 2022	11	15.86	73.53	8.5	33.63	8.2	24.7	3.94
A7	02 May 2022	12	15.80	73.39	8.4	33.64	8.2	24.7	3.99
A7	02 May 2022	13	15.52	73.04	7.6	33.65	8.2	24.8	3.84
A7	02 May 2022	14	14.51	73.00	6.8	33.69	8.2	25.1	3.34
A7	02 May 2022	15	13.50	74.26	6.7	33.71	8.2	25.3	3.64
A7	02 May 2022	16	12.92	73.43	7.0	33.72	8.1	25.4	4.47
A7	02 May 2022	17	13.12	73.15	7.0	33.69	8.1	25.4	4.54
A7	02 May 2022	18	12.86	73.79	6.8	33.73	8.1	25.4	4.14
A7	12 May 2022	1	16.61	71.49	7.5	33.66	8.2	24.6	2.78

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A7	12 May 2022	2	16.58	71.35	7.5	33.67	8.2	24.6	2.91
A7	12 May 2022	3	16.47	72.56	7.4	33.67	8.2	24.6	3.00
A7	12 May 2022	4	16.12	72.86	7.3	33.68	8.2	24.7	3.27
A7	12 May 2022	5	16.05	72.51	7.2	33.67	8.2	24.7	3.55
A7	12 May 2022	6	15.60	72.69	6.9	33.68	8.2	24.8	4.21
A7	12 May 2022	7	15.29	72.23	6.0	33.65	8.1	24.9	5.03
A7	12 May 2022	8	13.29	71.86	5.1	33.70	8.1	25.3	4.55
A7	12 May 2022	9	11.88	75.80	4.3	33.71	8.0	25.6	3.54
A7	12 May 2022	10	11.45	78.93	4.0	33.69	7.9	25.7	2.53
A7	12 May 2022	11	11.28	79.79	4.1	33.70	7.8	25.7	2.04
A7	12 May 2022	12	11.67	79.56	4.2	33.67	7.8	25.6	1.93
A7	12 May 2022	13	11.04	80.04	3.9	33.73	7.8	25.8	1.76
A7	12 May 2022	14	10.84	79.84	3.7	33.76	7.8	25.8	1.50
A7	12 May 2022	15	10.47	79.56	3.3	33.84	7.8	26.0	1.37
A7	12 May 2022	16	10.26	78.64	2.9	33.91	7.7	26.1	1.21
A7	12 May 2022	17	10.17	77.35	2.7	33.95	7.7	26.1	1.13
A7	12 May 2022	18	10.14	77.08	2.6	33.96	7.7	26.1	1.09
A7	12 May 2022	19	10.12	77.46	2.6	33.98	7.7	26.1	1.04
A7	12 May 2022	20	10.15	77.66	2.6	33.99	7.7	26.1	0.98
A7	16 May 2022	1	16.59	65.06	7.8	33.71	8.2	24.6	7.69
A7	16 May 2022	2	16.59	64.80	7.7	33.71	8.2	24.6	8.49
A7	16 May 2022	3	16.36	64.59	7.5	33.72	8.2	24.7	9.40
A7	16 May 2022	4	15.98	64.17	7.2	33.71	8.2	24.8	9.57
A7	16 May 2022	5	15.47	65.46	6.6	33.72	8.1	24.9	8.82
A7	16 May 2022	6	14.19	69.57	5.8	33.73	8.1	25.2	6.61
A7	16 May 2022	7	13.23	73.87	5.3	33.75	8.0	25.4	4.29
A7	16 May 2022	8	12.96	76.59	4.9	33.76	7.9	25.4	3.10
A7	16 May 2022	9	12.27	77.31	4.3	33.79	7.9	25.6	2.30
A7	16 May 2022	10	11.38	78.32	4.0	33.84	7.8	25.8	1.78
A7	16 May 2022	11	11.51	79.34	3.9	33.81	7.8	25.8	1.62
A7	16 May 2022	12	10.94	79.56	3.8	33.84	7.8	25.9	1.48
A7	16 May 2022	13	10.85	79.54	3.8	33.83	7.8	25.9	1.42
A7	16 May 2022	14	10.87	79.93	3.7	33.84	7.8	25.9	1.42
A7	16 May 2022	15	10.76	80.02	3.6	33.86	7.8	25.9	1.40
A7	16 May 2022	16	10.74	79.88	3.5	33.88	7.7	26.0	1.30
A7	16 May 2022	17	10.69	79.82	3.4	33.90	7.7	26.0	1.30
A7	16 May 2022	18	10.65	79.77	3.3	33.91	7.7	26.0	1.24
A7	16 May 2022	19	10.68	78.31	3.2	33.91	7.7	26.0	1.25
A7	24 May 2022	1	17.16	69.34	8.3	33.74	8.3	24.5	5.27
A7	24 May 2022	2	16.91	70.30	8.2	33.73	8.2	24.6	5.68
A7	24 May 2022	3	16.48	70.56	8.1	33.72	8.2	24.7	5.81
A7	24 May 2022	4	16.32	70.91	8.2	33.70	8.2	24.7	5.58
A7	24 May 2022	5	16.24	71.76	8.3	33.70	8.2	24.7	5.10
A7	24 May 2022	6	16.16	71.86	8.4	33.69	8.2	24.7	5.24
A7	24 May 2022	7	16.12	71.89	8.5	33.69	8.2	24.7	5.15
A7	24 May 2022	8	16.10	71.86	8.5	33.69	8.2	24.7	5.43
A7	24 May 2022	9	16.02	71.86	8.4	33.69	8.2	24.7	5.80
A7	24 May 2022	10	15.81	71.66	8.0	33.70	8.2	24.8	5.42
A7	24 May 2022	11	15.76	72.77	7.8	33.69	8.2	24.8	4.95
A7	24 May 2022	12	15.70	73.51	7.8	33.70	8.2	24.8	4.62
A7	24 May 2022	13	15.66	74.05	7.7	33.69	8.2	24.8	4.45
A7	24 May 2022	14	15.43	74.56	7.5	33.70	8.2	24.9	3.99
A7	24 May 2022	15	15.33	74.92	7.4	33.70	8.2	24.9	3.69
A7	24 May 2022	16	15.20	75.13	7.1	33.70	8.2	24.9	3.23
A7	24 May 2022	17	14.93	75.81	6.8	33.71	8.1	25.0	3.03
A7	24 May 2022	18	14.58	76.35	6.4	33.72	8.1	25.1	2.51
A7	24 May 2022	19	14.07	77.70	6.0	33.73	8.1	25.2	2.06
C4	02 May 2022	1	15.59	67.44	9.1	33.69	8.3	24.8	3.08

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C4	02 May 2022	2	15.58	68.22	9.1	33.69	8.3	24.8	3.23
C4	02 May 2022	3	15.56	68.45	9.2	33.70	8.3	24.8	3.94
C4	02 May 2022	4	15.55	68.60	9.1	33.70	8.3	24.8	4.47
C4	02 May 2022	5	15.52	68.77	8.8	33.69	8.3	24.9	4.54
C4	02 May 2022	6	15.48	68.87	8.6	33.69	8.3	24.9	4.02
C4	02 May 2022	7	15.43	69.13	8.3	33.70	8.3	24.9	3.55
C4	02 May 2022	8	15.28	69.57	7.9	33.70	8.2	24.9	2.76
C4	02 May 2022	9	15.17	67.73	7.6	33.70	8.2	24.9	2.01
C4	12 May 2022	1	17.35	67.53	7.6	33.70	8.3	24.4	1.63
C4	12 May 2022	2	17.31	68.23	7.6	33.70	8.3	24.4	1.69
C4	12 May 2022	3	17.08	68.78	7.7	33.70	8.3	24.5	2.02
C4	12 May 2022	4	16.78	69.52	7.2	33.70	8.3	24.6	2.56
C4	12 May 2022	5	14.26	70.96	5.8	33.82	8.1	25.2	2.94
C4	12 May 2022	6	12.96	74.39	4.8	33.80	8.0	25.5	2.40
C4	12 May 2022	7	12.06	76.42	4.4	33.84	7.9	25.7	2.10
C4	12 May 2022	8	11.50	77.15	4.2	33.80	7.8	25.7	1.77
C4	12 May 2022	9	11.33	76.59	4.0	33.94	7.8	25.9	1.46
C4	12 May 2022	10	11.07	74.69	3.9	34.06	7.8	26.0	1.37
C4	12 May 2022	11	11.05	74.24	3.9	33.84	7.8	25.9	1.26
C4	16 May 2022	1	16.59	62.59	8.3	33.72	8.2	24.6	6.84
C4	16 May 2022	2	16.70	64.28	8.4	33.72	8.3	24.6	6.19
C4	16 May 2022	3	16.36	64.07	7.8	33.74	8.3	24.7	6.79
C4	16 May 2022	4	15.79	63.99	7.3	33.73	8.2	24.8	7.91
C4	16 May 2022	5	14.37	66.63	6.7	33.77	8.1	25.2	7.35
C4	16 May 2022	6	13.95	69.77	6.5	33.75	8.0	25.2	6.42
C4	16 May 2022	7	13.24	70.79	6.0	33.78	8.0	25.4	5.52
C4	16 May 2022	8	13.19	72.47	5.8	33.77	8.0	25.4	5.18
C4	16 May 2022	9	12.60	74.12	5.1	33.81	8.0	25.5	4.28
C4	16 May 2022	10	12.19	76.06	4.2	33.82	7.9	25.6	3.30
C4	16 May 2022	11	11.75	74.28	3.8	33.83	7.8	25.7	2.50
C4	24 May 2022	1	17.42	64.51	7.1	33.76	8.2	24.5	1.96
C4	24 May 2022	2	17.42	64.63	7.1	33.76	8.2	24.5	2.04
C4	24 May 2022	3	17.35	64.87	7.3	33.75	8.2	24.5	2.30
C4	24 May 2022	4	17.25	66.50	7.7	33.75	8.2	24.5	2.89
C4	24 May 2022	5	17.17	67.81	8.1	33.74	8.2	24.5	3.68
C4	24 May 2022	6	17.06	68.68	8.4	33.74	8.3	24.5	4.70
C4	24 May 2022	7	16.97	69.30	8.2	33.73	8.3	24.5	4.96
C4	24 May 2022	8	16.48	69.86	7.0	33.71	8.2	24.6	3.47
C4	24 May 2022	9	16.06	71.20	6.1	33.70	8.1	24.7	2.24
C4	24 May 2022	10	16.03	72.51	5.9	33.69	8.1	24.7	1.69
C5	02 May 2022	1	15.89	68.80	8.5	33.67	8.2	24.8	2.27
C5	02 May 2022	2	15.85	69.64	8.5	33.67	8.2	24.8	2.45
C5	02 May 2022	3	15.79	69.58	8.4	33.67	8.2	24.8	3.04
C5	02 May 2022	4	15.77	69.16	8.3	33.67	8.2	24.8	3.60
C5	02 May 2022	5	15.75	69.09	8.2	33.67	8.2	24.8	3.81
C5	02 May 2022	6	15.73	69.49	8.0	33.68	8.2	24.8	3.92
C5	02 May 2022	7	15.62	69.86	7.5	33.68	8.2	24.8	3.24
C5	02 May 2022	8	15.30	70.84	7.0	33.69	8.2	24.9	2.56
C5	02 May 2022	9	14.94	69.51	6.4	33.69	8.2	25.0	2.04
C5	02 May 2022	10	14.31	58.42	6.3	33.72	8.1	25.1	1.85
C5	12 May 2022	1	17.44	70.06	7.7	33.70	8.3	24.4	1.60
C5	12 May 2022	2	17.43	70.49	7.7	33.70	8.3	24.4	1.53
C5	12 May 2022	3	17.28	70.16	7.6	33.69	8.3	24.4	2.09
C5	12 May 2022	4	16.09	70.22	6.9	33.69	8.2	24.7	2.80
C5	12 May 2022	5	14.51	73.39	6.1	33.72	8.2	25.1	2.23
C5	12 May 2022	6	13.67	75.20	5.5	33.70	8.1	25.2	1.84

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C5	12 May 2022	7	13.36	74.52	5.3	33.68	8.0	25.3	1.76
C5	12 May 2022	8	13.00	74.11	6.1	33.69	8.0	25.4	1.61
C5	12 May 2022	9	12.65	71.60	5.3	33.69	7.9	25.4	1.37
C5	16 May 2022	1	17.09	62.17	8.6	33.72	8.3	24.5	7.74
C5	16 May 2022	2	17.05	62.19	8.3	33.72	8.3	24.5	9.22
C5	16 May 2022	3	16.45	60.00	7.5	33.72	8.2	24.7	10.47
C5	16 May 2022	4	16.14	63.23	6.9	33.72	8.2	24.7	8.86
C5	16 May 2022	5	15.11	70.54	6.0	33.75	8.1	25.0	6.47
C5	16 May 2022	6	14.39	73.83	5.5	33.74	8.0	25.1	4.33
C5	16 May 2022	7	13.96	75.72	5.3	33.74	8.0	25.2	3.34
C5	16 May 2022	8	13.52	76.89	5.1	33.76	8.0	25.3	2.82
C5	16 May 2022	9	13.35	77.57	4.8	33.75	7.9	25.4	2.53
C5	16 May 2022	10	12.28	77.65	4.1	33.78	7.9	25.6	2.21
C5	16 May 2022	11	12.18	75.95	4.1	33.78	7.8	25.6	1.90
C5	24 May 2022	1	17.50	69.66	7.9	33.76	8.2	24.4	4.17
C5	24 May 2022	2	17.22	69.61	7.8	33.74	8.2	24.5	4.27
C5	24 May 2022	3	16.93	70.55	7.5	33.73	8.2	24.6	3.42
C5	24 May 2022	4	16.72	72.48	7.3	33.73	8.2	24.6	2.75
C5	24 May 2022	5	16.45	73.77	7.1	33.73	8.2	24.7	2.32
C5	24 May 2022	6	16.25	74.62	6.7	33.73	8.2	24.7	1.99
C5	24 May 2022	7	16.14	75.80	6.4	33.73	8.1	24.7	1.76
C5	24 May 2022	8	16.04	75.97	6.4	33.73	8.1	24.8	1.70
C5	24 May 2022	9	15.92	76.08	6.2	33.72	8.1	24.8	1.57
C5	24 May 2022	10	15.86	75.68	5.9	33.73	8.1	24.8	1.45
C5	24 May 2022	11	15.86	74.81	5.8	33.73	8.1	24.8	1.38
C6	02 May 2022	1	16.05	73.65	8.3	33.64	8.2	24.7	1.73
C6	02 May 2022	2	16.05	73.56	8.3	33.64	8.2	24.7	1.83
C6	02 May 2022	3	16.03	73.58	8.2	33.65	8.2	24.7	2.09
C6	02 May 2022	4	15.97	72.79	7.9	33.66	8.2	24.7	2.27
C6	02 May 2022	5	15.95	72.50	7.6	33.66	8.2	24.7	2.32
C6	02 May 2022	6	15.48	73.28	7.0	33.67	8.2	24.8	1.86
C6	02 May 2022	7	14.42	73.76	6.4	33.71	8.2	25.1	1.47
C6	02 May 2022	8	13.76	73.74	6.3	33.72	8.1	25.2	1.29
C6	02 May 2022	9	13.77	72.77	6.3	33.70	8.1	25.2	1.25
C6	12 May 2022	1	17.14	69.71	7.6	33.68	8.2	24.5	1.74
C6	12 May 2022	2	17.09	70.20	7.6	33.68	8.2	24.5	1.82
C6	12 May 2022	3	16.97	72.04	7.7	33.67	8.2	24.5	2.23
C6	12 May 2022	4	16.70	72.77	7.3	33.67	8.2	24.6	2.62
C6	12 May 2022	5	16.08	72.76	6.8	33.67	8.2	24.7	2.39
C6	12 May 2022	6	15.79	74.23	6.2	33.65	8.1	24.8	2.03
C6	12 May 2022	7	13.95	75.69	5.3	33.68	8.1	25.2	1.59
C6	12 May 2022	8	13.11	74.98	5.1	33.67	8.0	25.3	1.28
C6	12 May 2022	9	13.05	74.28	5.3	33.65	8.0	25.3	1.16
C6	12 May 2022	10	13.14	73.94	5.4	33.64	8.0	25.3	1.17
C6	16 May 2022	1	17.30	70.17	8.2	33.71	8.3	24.5	3.35
C6	16 May 2022	2	17.29	70.10	8.2	33.71	8.3	24.5	3.97
C6	16 May 2022	3	17.05	68.27	7.7	33.72	8.2	24.5	5.66
C6	16 May 2022	4	16.06	68.39	6.8	33.73	8.2	24.8	5.14
C6	16 May 2022	5	15.05	73.22	6.1	33.74	8.1	25.0	3.74
C6	16 May 2022	6	13.98	74.88	5.6	33.75	8.0	25.2	3.14
C6	16 May 2022	7	13.52	76.33	5.2	33.75	8.0	25.3	2.78
C6	16 May 2022	8	13.12	77.08	4.9	33.75	8.0	25.4	2.54
C6	16 May 2022	9	12.80	77.19	4.7	33.77	7.9	25.5	2.23
C6	16 May 2022	10	13.28	76.98	5.0	33.74	7.9	25.4	2.28
C6	24 May 2022	1	17.80	68.32	7.5	33.78	8.2	24.4	4.13

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C6	24 May 2022	2	17.67	68.36	7.4	33.77	8.2	24.4	4.33
	24 May 2022	3	17.39	68.29	7.5	33.77	8.2	24.5	4.81
	24 May 2022	4	17.15	69.09	7.6	33.75	8.2	24.5	4.93
	24 May 2022	5	16.94	69.68	7.5	33.74	8.2	24.6	4.61
	24 May 2022	6	16.69	70.43	7.2	33.74	8.2	24.6	4.11
	24 May 2022	7	16.48	71.97	7.1	33.73	8.2	24.7	3.37
	24 May 2022	8	16.26	73.40	6.7	33.72	8.2	24.7	2.59
	24 May 2022	9	15.86	74.21	6.3	33.72	8.1	24.8	1.86
	24 May 2022	10	15.82	75.08	6.3	33.71	8.1	24.8	1.59
C7	02 May 2022	1	16.12	74.45	8.7	33.62	8.2	24.7	2.23
	02 May 2022	2	16.11	74.36	8.7	33.62	8.2	24.7	2.31
	02 May 2022	3	16.12	74.33	8.7	33.62	8.2	24.7	2.58
	02 May 2022	4	16.08	74.19	8.6	33.63	8.2	24.7	2.90
	02 May 2022	5	15.99	73.96	8.5	33.63	8.2	24.7	3.15
	02 May 2022	6	15.76	72.64	8.6	33.65	8.2	24.8	3.69
	02 May 2022	7	15.31	71.33	9.0	33.67	8.2	24.9	5.00
	02 May 2022	8	14.95	69.50	9.2	33.67	8.2	25.0	7.11
	02 May 2022	9	14.77	69.61	9.0	33.67	8.2	25.0	7.11
	02 May 2022	10	14.47	70.90	8.4	33.68	8.2	25.1	6.13
	02 May 2022	11	14.30	72.62	7.8	33.68	8.2	25.1	5.01
	02 May 2022	12	14.24	73.72	7.3	33.68	8.2	25.1	4.25
	02 May 2022	13	13.81	74.78	6.2	33.71	8.2	25.2	3.16
	02 May 2022	14	13.23	76.46	5.3	33.72	8.1	25.4	2.22
	02 May 2022	15	12.70	77.06	5.5	33.73	8.1	25.5	2.52
	02 May 2022	16	12.92	76.87	5.9	33.72	8.0	25.4	2.71
	02 May 2022	17	12.44	76.09	5.9	33.74	8.0	25.5	2.86
	02 May 2022	18	12.40	76.19	5.6	33.73	8.0	25.5	2.72
C7	12 May 2022	1	17.39	66.34	7.8	33.69	8.2	24.4	2.86
	12 May 2022	2	17.36	66.57	7.7	33.68	8.3	24.4	3.15
	12 May 2022	3	16.68	66.42	7.5	33.69	8.2	24.6	4.61
	12 May 2022	4	16.34	67.67	7.4	33.67	8.2	24.6	5.95
	12 May 2022	5	16.28	67.70	7.3	33.66	8.2	24.7	7.39
	12 May 2022	6	15.87	66.91	7.1	33.67	8.2	24.8	8.57
	12 May 2022	7	15.50	67.15	6.8	33.66	8.2	24.8	8.62
	12 May 2022	8	15.22	68.37	6.6	33.65	8.1	24.9	8.12
	12 May 2022	9	14.59	70.79	6.2	33.65	8.1	25.0	6.71
	12 May 2022	10	13.68	73.61	5.9	33.66	8.1	25.2	5.06
	12 May 2022	11	14.02	73.06	5.6	33.61	8.0	25.1	4.65
	12 May 2022	12	12.13	77.69	4.8	33.69	8.0	25.5	3.32
	12 May 2022	13	11.43	79.64	4.3	33.70	7.9	25.7	2.51
	12 May 2022	14	11.53	80.12	4.3	33.68	7.8	25.7	2.11
	12 May 2022	15	11.23	80.47	4.2	33.69	7.8	25.7	1.80
	12 May 2022	16	11.14	80.55	4.2	33.69	7.8	25.7	1.68
	12 May 2022	17	11.10	80.66	4.1	33.69	7.8	25.7	1.53
	12 May 2022	18	11.05	79.48	4.0	33.70	7.8	25.8	1.35
	12 May 2022	19	11.11	79.44	4.0	33.70	7.8	25.7	1.33
C7	16 May 2022	1	16.51	73.00	7.5	33.70	8.2	24.6	3.68
	16 May 2022	2	16.59	73.02	7.2	33.70	8.2	24.6	4.09
	16 May 2022	3	15.33	72.40	6.2	33.71	8.2	24.9	5.00
	16 May 2022	4	13.51	71.73	5.6	33.73	8.0	25.3	4.22
	16 May 2022	5	13.18	74.06	5.3	33.71	8.0	25.4	3.53
	16 May 2022	6	12.37	75.84	4.9	33.72	7.9	25.5	3.01
	16 May 2022	7	11.83	76.97	4.6	33.73	7.9	25.6	2.60
	16 May 2022	8	11.37	78.84	4.4	33.75	7.8	25.7	2.26
	16 May 2022	9	11.27	79.46	4.2	33.76	7.8	25.8	2.06
	16 May 2022	10	11.01	79.79	4.0	33.78	7.8	25.8	1.89
	16 May 2022	11	10.69	80.23	3.9	33.81	7.8	25.9	1.76
	16 May 2022	12	10.48	80.64	3.6	33.86	7.8	26.0	1.59

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C7	16 May 2022	13	10.46	80.83	3.6	33.87	7.8	26.0	1.53
C7	16 May 2022	14	10.45	80.75	3.5	33.88	7.8	26.0	1.49
C7	16 May 2022	15	10.45	80.80	3.5	33.88	7.8	26.0	1.47
C7	16 May 2022	16	10.45	80.76	3.5	33.88	7.8	26.0	1.48
C7	16 May 2022	17	10.46	80.70	3.5	33.89	7.8	26.0	1.48
C7	16 May 2022	18	10.48	80.73	3.5	33.89	7.8	26.0	1.49
C7	16 May 2022	19	10.47	80.74	3.5	33.89	7.8	26.0	1.48
C7	24 May 2022	1	17.55	67.47	8.1	33.73	8.2	24.4	7.06
C7	24 May 2022	2	17.54	67.86	8.1	33.73	8.2	24.4	7.71
C7	24 May 2022	3	17.47	67.62	8.1	33.73	8.2	24.4	7.32
C7	24 May 2022	4	17.43	69.08	8.1	33.74	8.2	24.4	6.29
C7	24 May 2022	5	17.42	70.16	8.3	33.75	8.2	24.5	5.68
C7	24 May 2022	6	17.41	70.25	8.5	33.75	8.3	24.5	5.37
C7	24 May 2022	7	17.39	70.27	8.5	33.75	8.3	24.5	5.19
C7	24 May 2022	8	17.37	70.28	8.4	33.75	8.3	24.5	5.28
C7	24 May 2022	9	17.10	70.32	8.3	33.74	8.3	24.5	5.26
C7	24 May 2022	10	17.02	70.73	8.0	33.73	8.2	24.5	4.87
C7	24 May 2022	11	16.67	71.30	7.9	33.71	8.2	24.6	4.47
C7	24 May 2022	12	16.18	72.09	8.0	33.71	8.2	24.7	3.87
C7	24 May 2022	13	16.00	73.83	7.7	33.70	8.2	24.7	3.28
C7	24 May 2022	14	15.70	75.19	7.1	33.70	8.2	24.8	2.76
C7	24 May 2022	15	15.29	76.63	6.6	33.71	8.1	24.9	2.31
C7	24 May 2022	16	14.98	77.88	6.1	33.71	8.1	25.0	2.05
C7	24 May 2022	17	14.41	78.52	5.6	33.69	8.1	25.1	1.81
C7	24 May 2022	18	13.10	78.79	5.3	33.77	8.0	25.4	1.54
C8	02 May 2022	1	16.08	74.14	8.8	33.62	8.2	24.7	2.07
C8	02 May 2022	2	16.08	73.60	8.8	33.62	8.2	24.7	2.16
C8	02 May 2022	3	16.07	74.54	8.7	33.62	8.2	24.7	2.44
C8	02 May 2022	4	16.07	74.27	8.7	33.62	8.2	24.7	2.93
C8	02 May 2022	5	16.06	73.92	8.8	33.62	8.2	24.7	3.47
C8	02 May 2022	6	16.05	73.55	8.8	33.62	8.2	24.7	4.19
C8	02 May 2022	7	16.01	72.67	8.7	33.62	8.2	24.7	5.54
C8	02 May 2022	8	15.93	70.42	8.6	33.62	8.2	24.7	7.38
C8	02 May 2022	9	15.75	69.39	8.4	33.63	8.2	24.8	6.86
C8	02 May 2022	10	15.69	71.21	8.3	33.64	8.2	24.8	6.03
C8	02 May 2022	11	15.68	72.56	8.2	33.64	8.2	24.8	5.25
C8	02 May 2022	12	15.47	73.08	7.8	33.65	8.2	24.8	4.50
C8	02 May 2022	13	14.96	73.37	7.3	33.66	8.2	24.9	3.98
C8	02 May 2022	14	14.40	73.66	6.8	33.68	8.2	25.1	3.65
C8	02 May 2022	15	13.72	74.41	6.3	33.70	8.2	25.2	3.18
C8	02 May 2022	16	13.23	75.65	5.8	33.71	8.1	25.3	2.56
C8	02 May 2022	17	13.17	77.28	5.6	33.69	8.1	25.3	2.11
C8	02 May 2022	18	12.71	77.24	5.4	33.73	8.1	25.5	1.86
C8	12 May 2022	1	17.48	66.81	8.0	33.69	8.3	24.4	2.70
C8	12 May 2022	2	17.47	67.44	7.9	33.69	8.3	24.4	2.88
C8	12 May 2022	3	17.50	67.60	7.9	33.69	8.3	24.4	2.79
C8	12 May 2022	4	17.23	67.88	7.6	33.69	8.3	24.5	3.29
C8	12 May 2022	5	16.23	69.81	7.1	33.69	8.2	24.7	3.96
C8	12 May 2022	6	15.32	71.92	6.5	33.67	8.2	24.9	4.51
C8	12 May 2022	7	14.39	72.04	6.2	33.67	8.1	25.1	5.13
C8	12 May 2022	8	14.08	72.58	6.1	33.66	8.1	25.1	5.20
C8	12 May 2022	9	14.24	73.19	6.0	33.63	8.1	25.1	5.18
C8	12 May 2022	10	13.71	74.16	5.9	33.66	8.1	25.2	4.62
C8	12 May 2022	11	13.52	74.88	5.8	33.65	8.0	25.2	4.28
C8	12 May 2022	12	13.28	75.29	5.5	33.65	8.0	25.3	3.85
C8	12 May 2022	13	12.46	77.04	5.0	33.66	8.0	25.5	2.98
C8	12 May 2022	14	11.86	78.60	4.7	33.67	7.9	25.6	2.61
C8	12 May 2022	15	11.60	79.40	4.4	33.67	7.9	25.6	2.20

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C8	12 May 2022	16	11.36	79.78	4.2	33.68	7.9	25.7	1.93
C8	12 May 2022	17	11.23	80.46	4.2	33.67	7.8	25.7	1.76
C8	12 May 2022	18	11.04	80.54	4.1	33.70	7.8	25.8	1.63
C8	12 May 2022	19	11.02	79.86	4.1	33.70	7.8	25.8	1.48
C8	16 May 2022	1	17.03	70.34	8.0	33.70	8.2	24.5	3.91
C8	16 May 2022	2	17.00	69.99	7.8	33.70	8.2	24.5	4.30
C8	16 May 2022	3	16.02	66.81	7.3	33.70	8.2	24.7	6.64
C8	16 May 2022	4	15.15	65.88	6.2	33.69	8.2	24.9	6.85
C8	16 May 2022	5	13.29	71.61	5.7	33.71	8.0	25.3	5.23
C8	16 May 2022	6	13.52	73.86	5.4	33.69	8.0	25.3	4.38
C8	16 May 2022	7	12.15	76.84	4.7	33.74	7.9	25.6	3.11
C8	16 May 2022	8	11.27	78.97	4.4	33.75	7.8	25.8	2.46
C8	16 May 2022	9	10.98	80.11	4.2	33.77	7.8	25.8	2.08
C8	16 May 2022	10	10.69	80.19	3.9	33.82	7.8	25.9	1.83
C8	16 May 2022	11	10.70	80.51	3.8	33.83	7.8	25.9	1.67
C8	16 May 2022	12	10.58	80.58	3.7	33.85	7.8	26.0	1.62
C8	16 May 2022	13	10.52	80.62	3.6	33.87	7.8	26.0	1.53
C8	16 May 2022	14	10.46	80.56	3.5	33.88	7.8	26.0	1.51
C8	16 May 2022	15	10.49	80.55	3.5	33.89	7.7	26.0	1.49
C8	16 May 2022	16	10.46	80.52	3.5	33.90	7.7	26.0	1.47
C8	16 May 2022	17	10.45	80.44	3.4	33.91	7.7	26.0	1.46
C8	16 May 2022	18	10.47	80.38	3.4	33.91	7.7	26.0	1.47
C8	16 May 2022	19	10.47	79.89	3.3	33.91	7.7	26.0	1.45
C8	16 May 2022	20	10.47	78.99	3.3	33.91	7.7	26.0	1.44
C8	24 May 2022	1	17.28	75.58	8.2	33.68	8.2	24.4	3.53
C8	24 May 2022	2	17.27	75.76	8.2	33.68	8.2	24.4	3.87
C8	24 May 2022	3	17.26	75.71	8.2	33.68	8.2	24.4	4.13
C8	24 May 2022	4	17.26	75.74	8.2	33.68	8.2	24.4	4.29
C8	24 May 2022	5	17.26	75.63	8.2	33.68	8.2	24.4	4.45
C8	24 May 2022	6	17.25	75.49	8.2	33.68	8.2	24.4	4.83
C8	24 May 2022	7	17.25	75.01	8.1	33.68	8.2	24.4	5.63
C8	24 May 2022	8	17.23	72.88	8.0	33.69	8.2	24.5	6.27
C8	24 May 2022	9	17.08	72.54	7.8	33.69	8.2	24.5	6.10
C8	24 May 2022	10	16.67	73.61	7.8	33.68	8.2	24.6	4.71
C8	24 May 2022	11	16.52	75.42	7.8	33.67	8.2	24.6	3.78
C8	24 May 2022	12	16.25	76.29	7.8	33.67	8.2	24.7	3.50
C8	24 May 2022	13	15.66	76.91	7.8	33.67	8.2	24.8	3.54
C8	24 May 2022	14	15.50	77.19	7.7	33.66	8.2	24.8	3.28
C8	24 May 2022	15	15.23	77.52	7.5	33.65	8.2	24.9	3.47
C8	24 May 2022	16	14.57	77.43	7.1	33.68	8.1	25.0	3.27
C8	24 May 2022	17	13.95	77.27	6.1	33.69	8.1	25.2	2.72
C8	24 May 2022	18	12.42	78.28	5.0	33.77	8.0	25.6	2.16
C8	24 May 2022	19	12.18	78.25	4.7	33.78	7.9	25.6	1.93

NA = not available

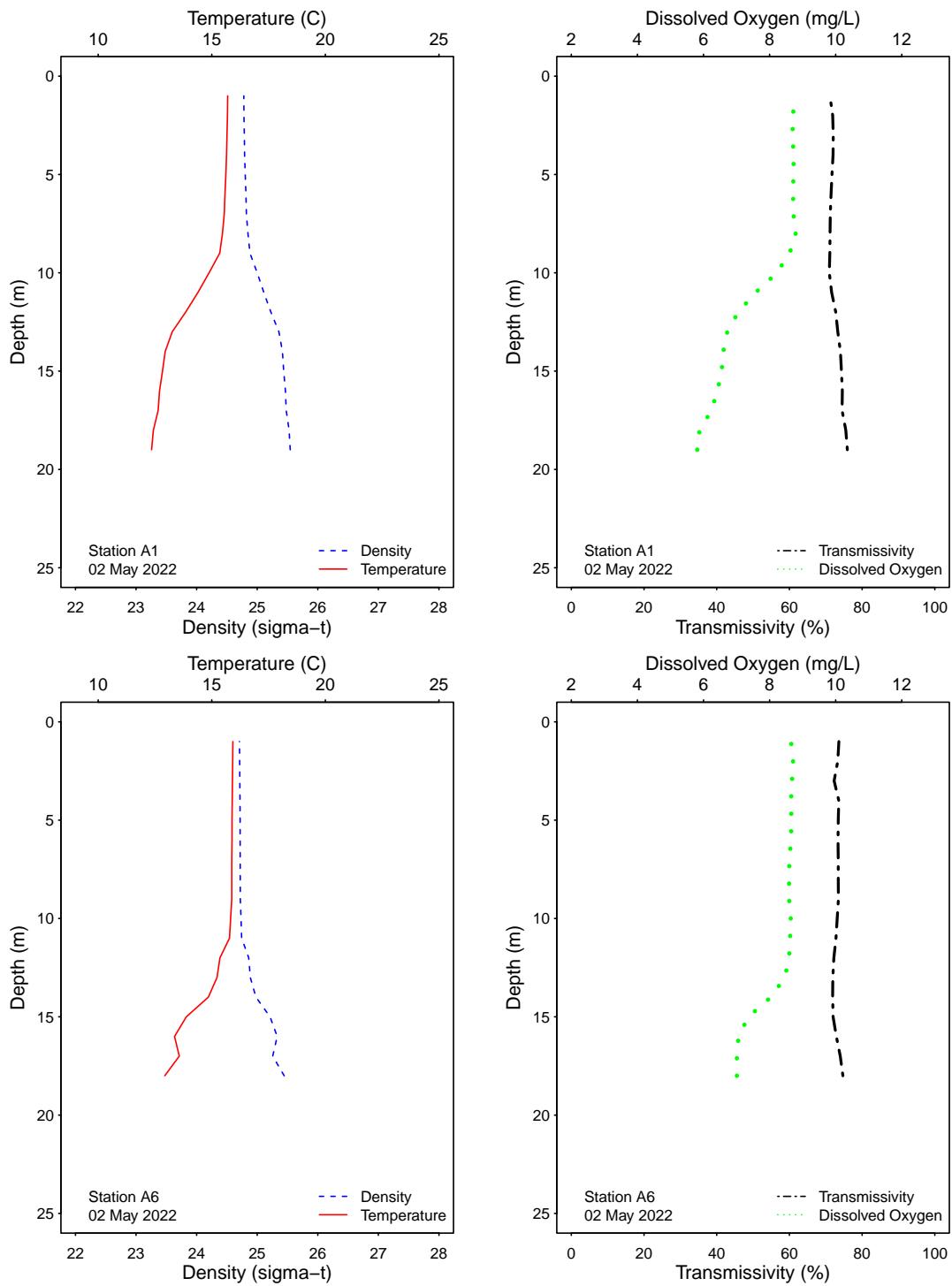


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

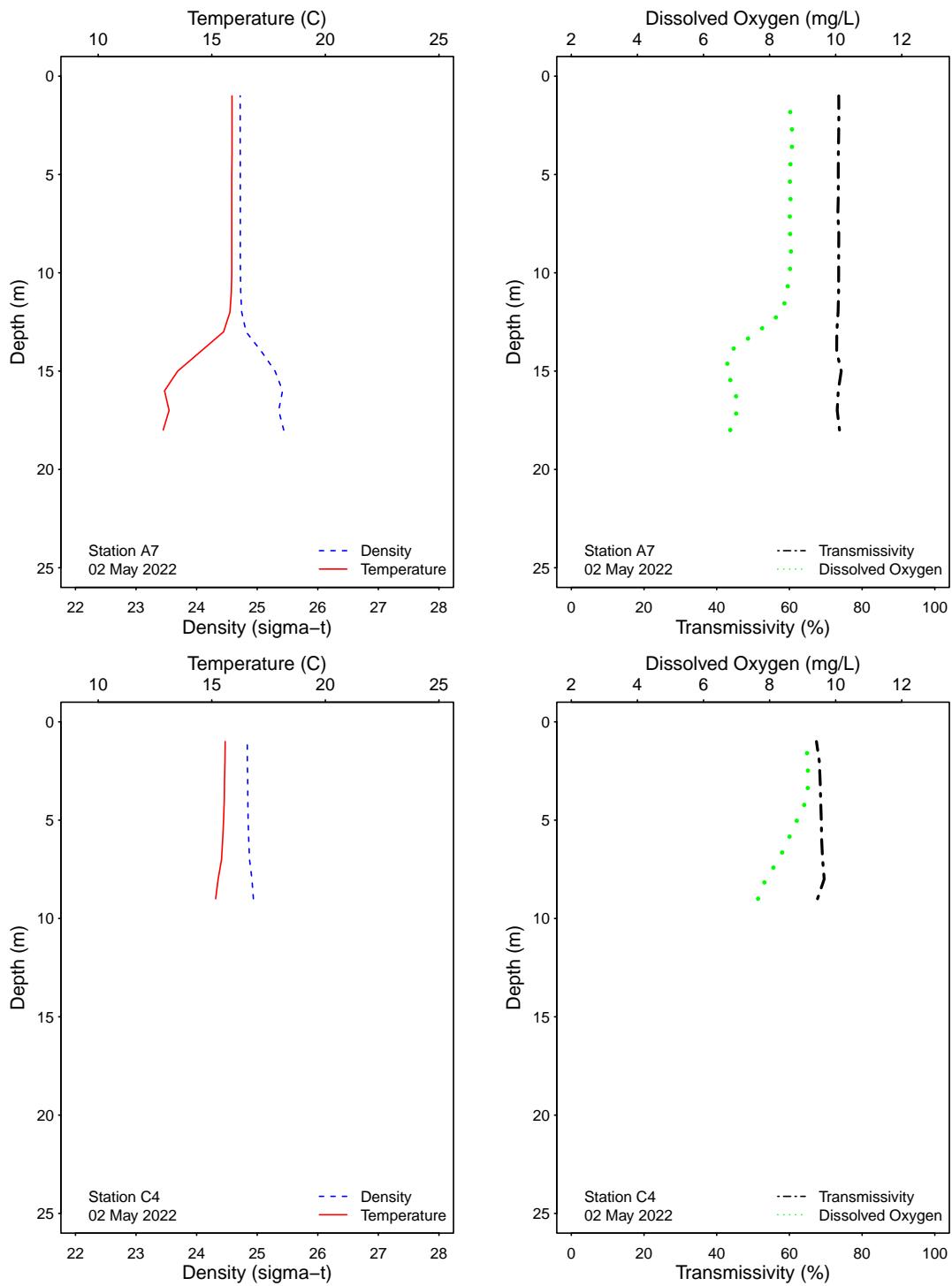


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

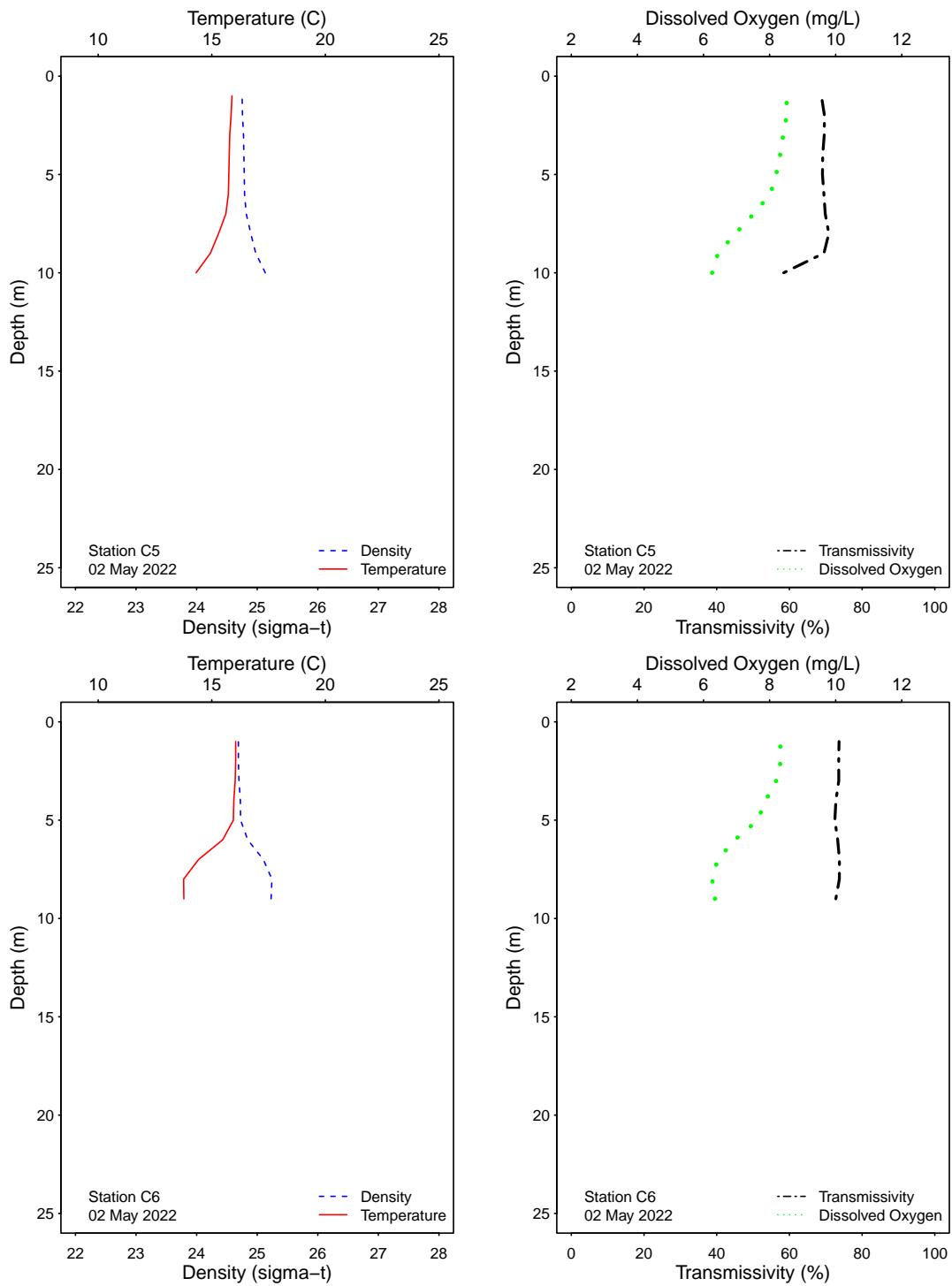


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

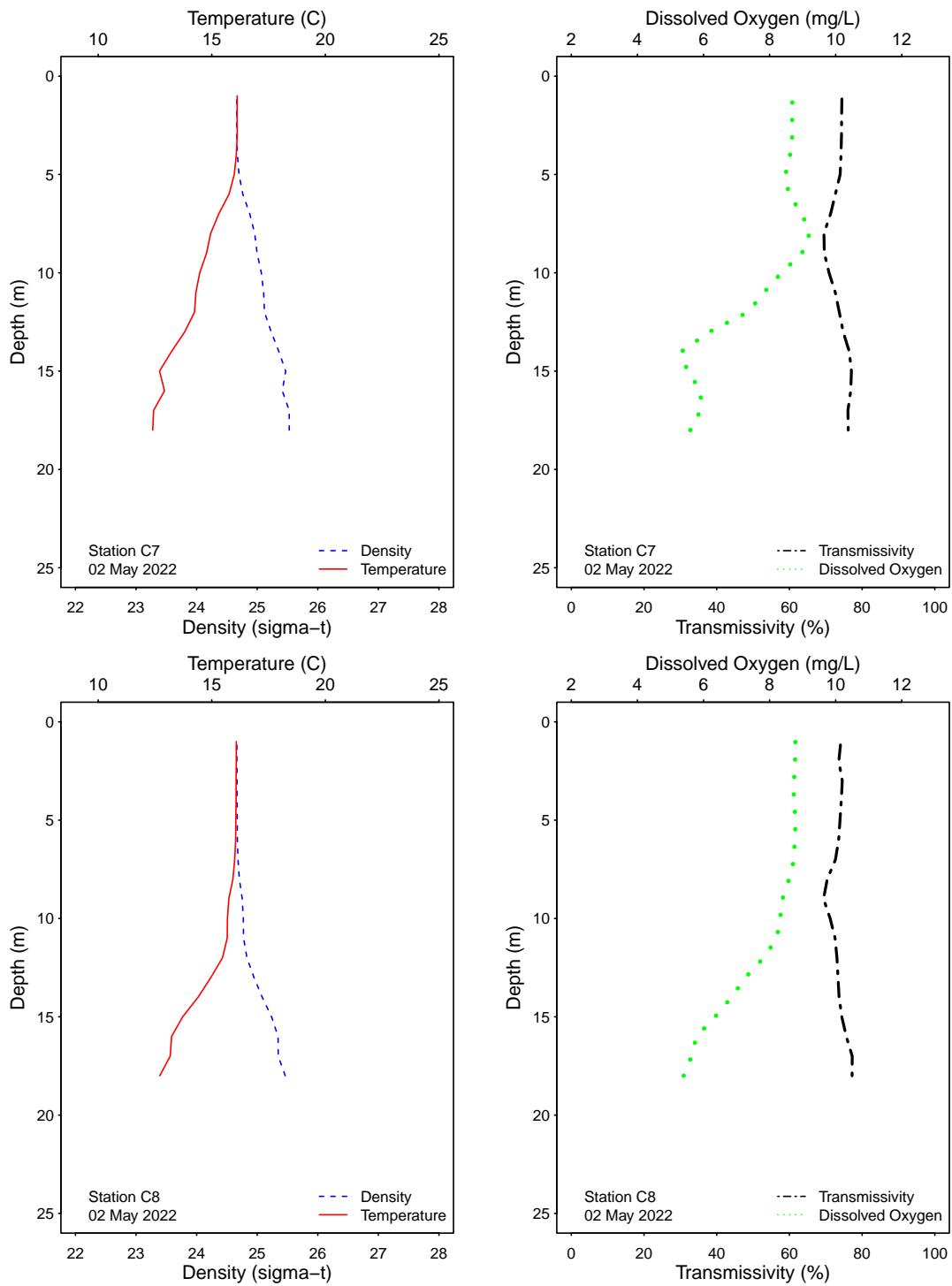


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

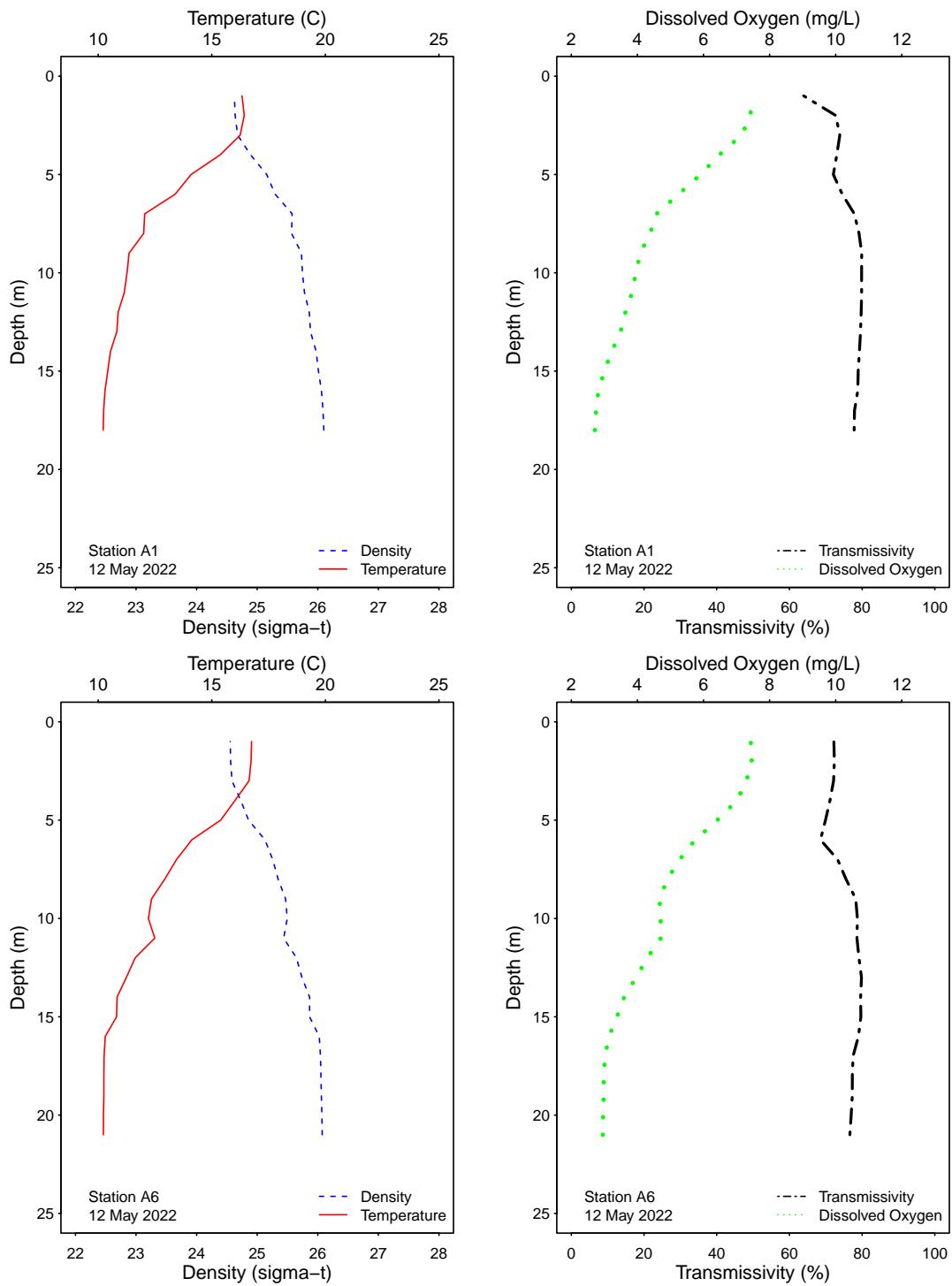


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

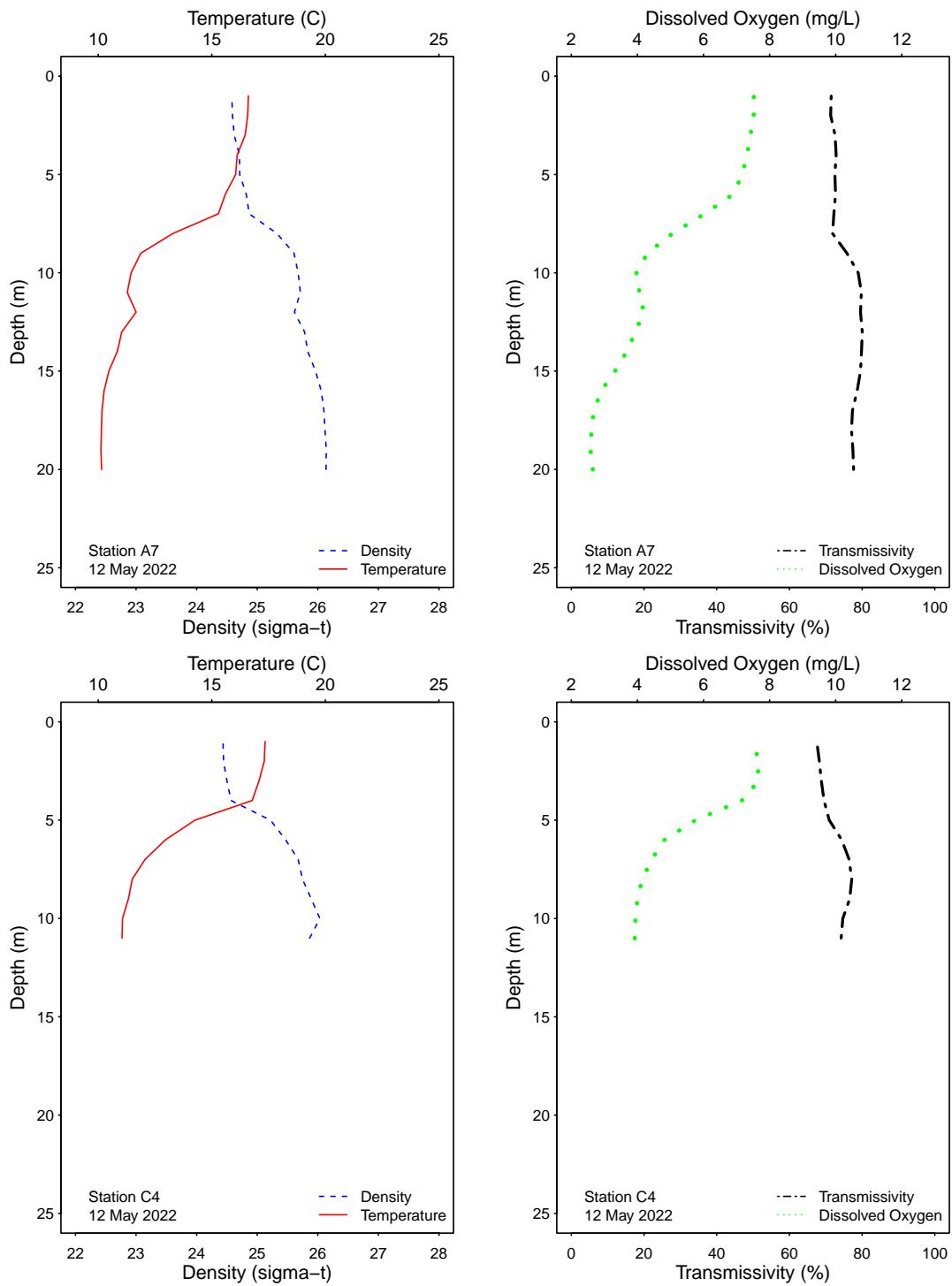


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

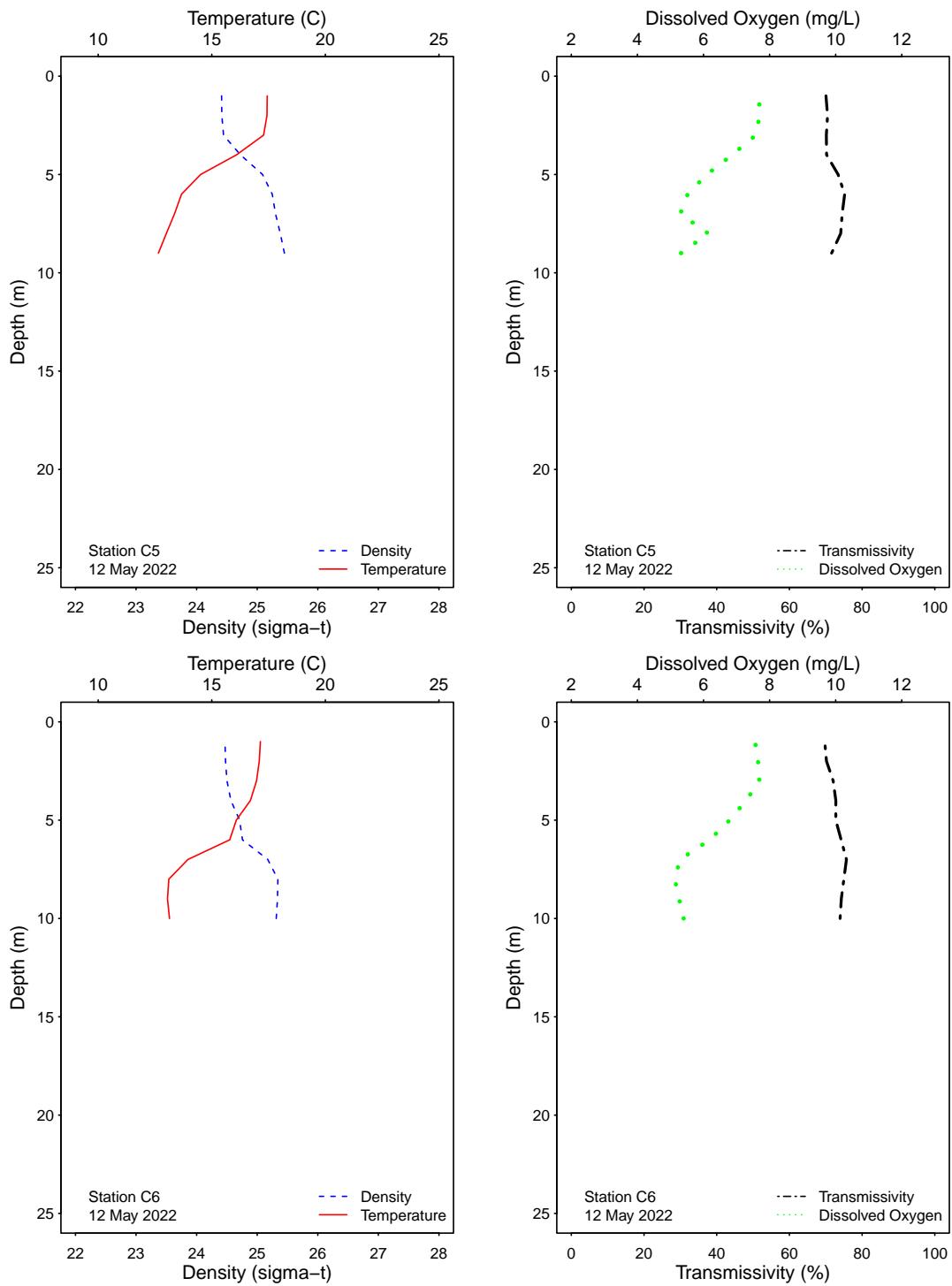


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

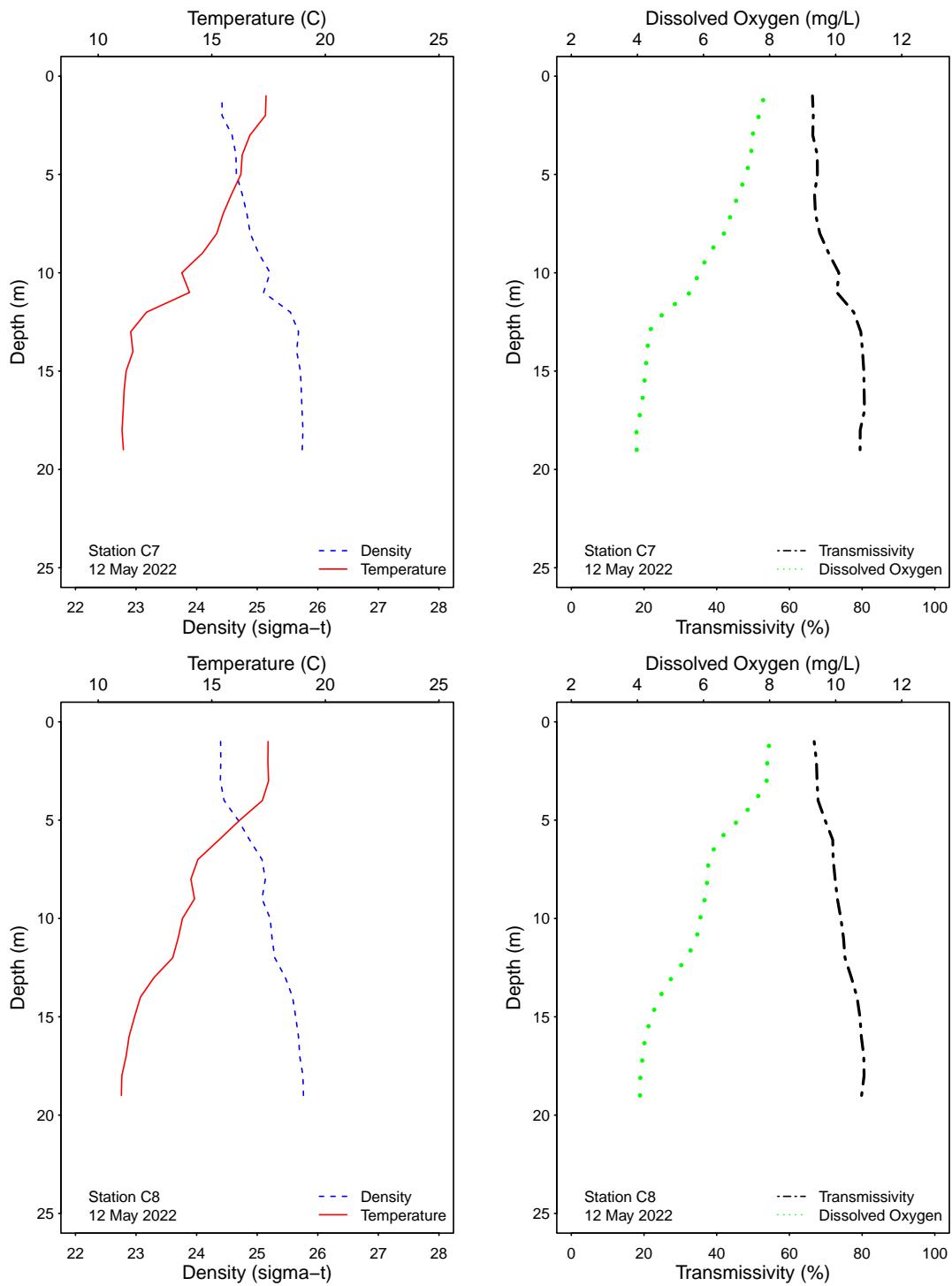


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

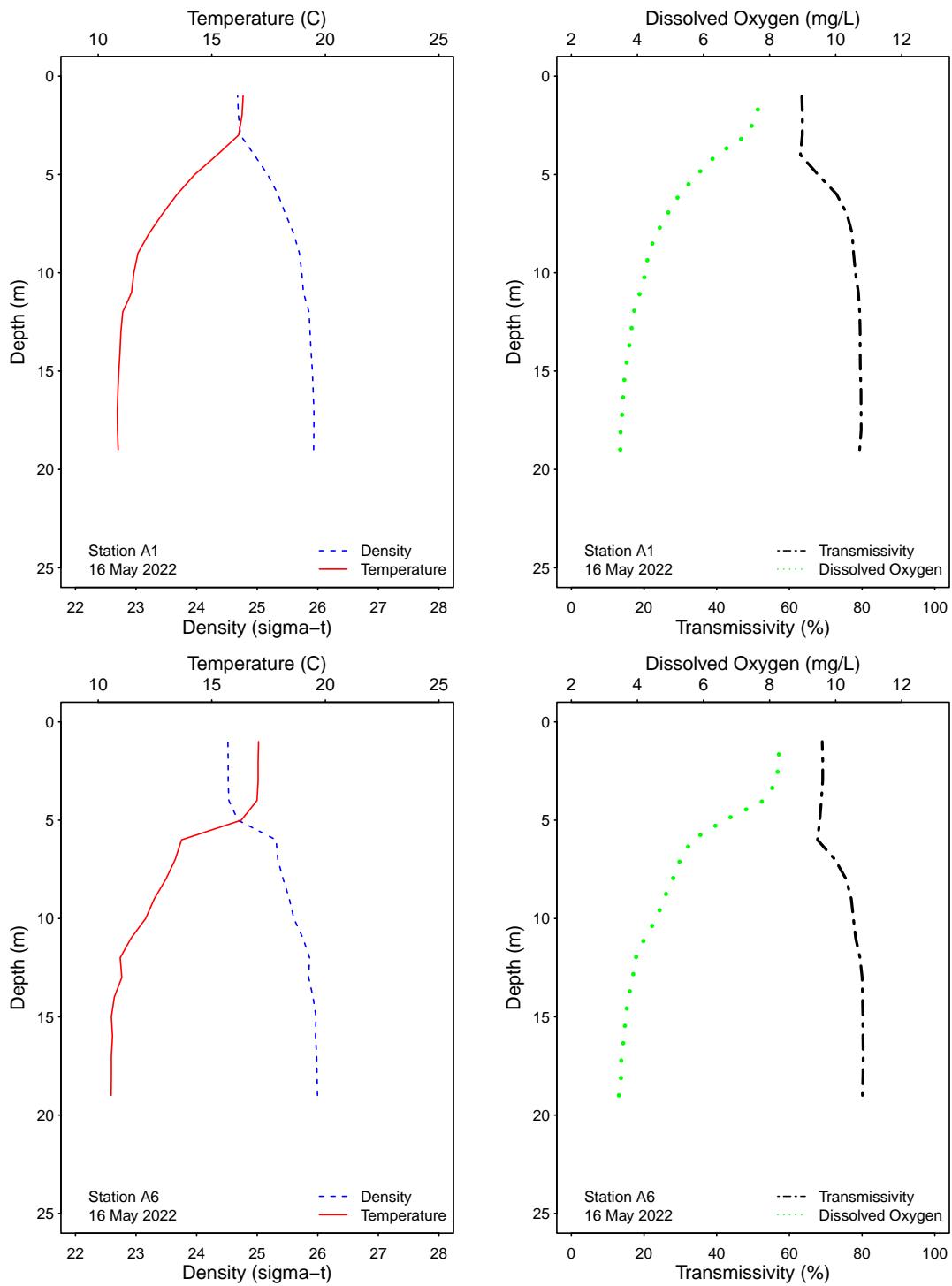


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

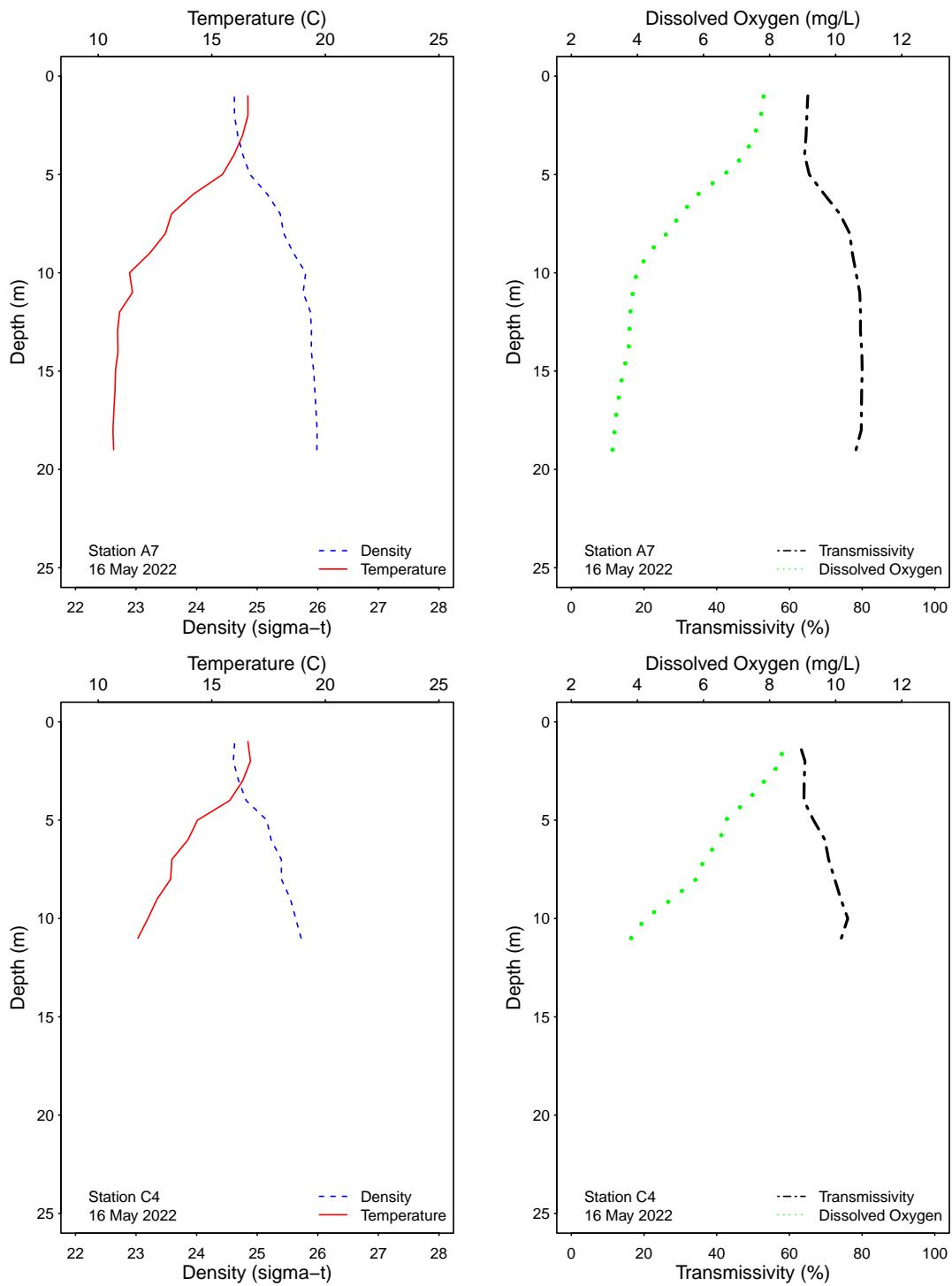


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

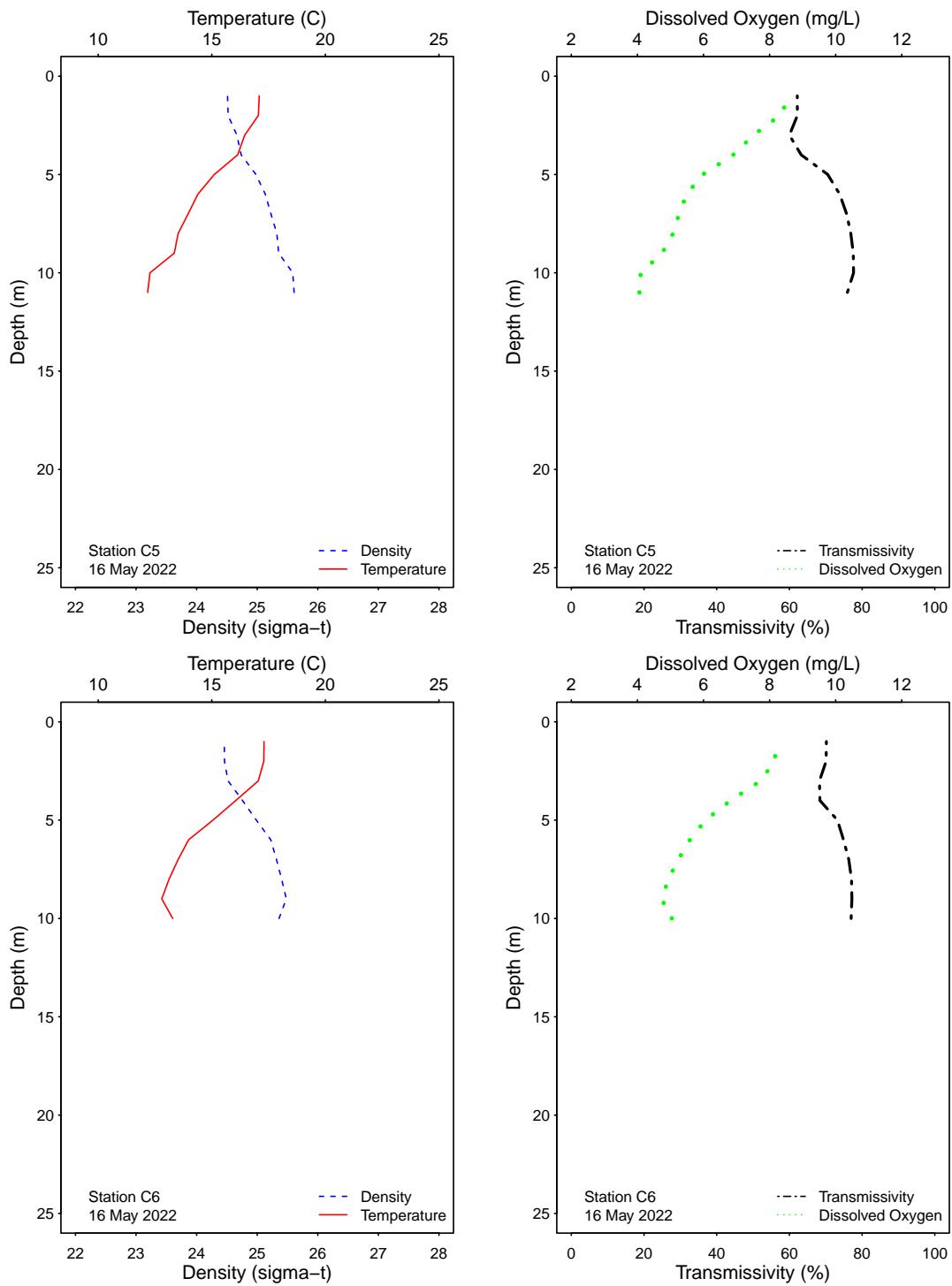


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

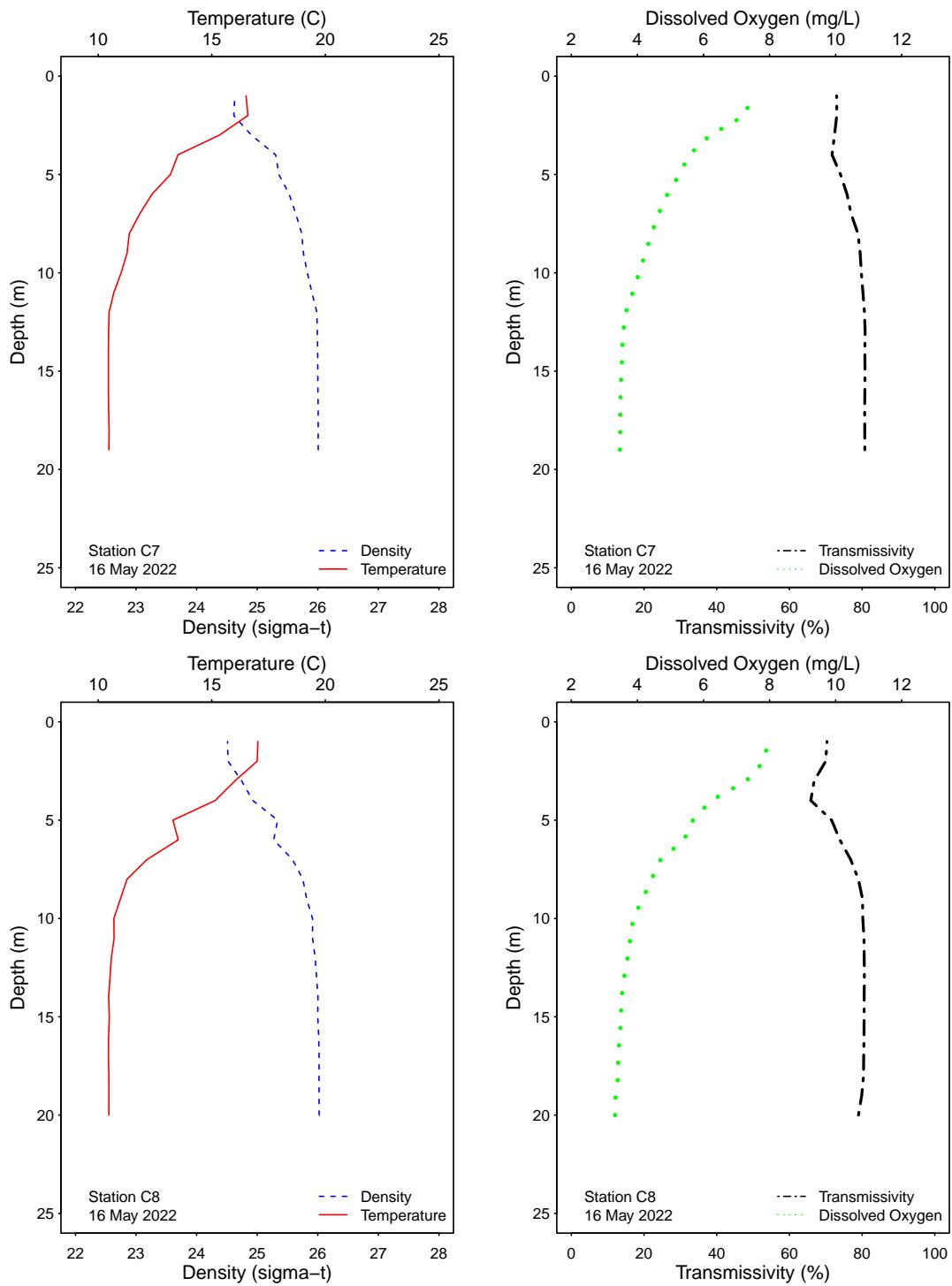


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

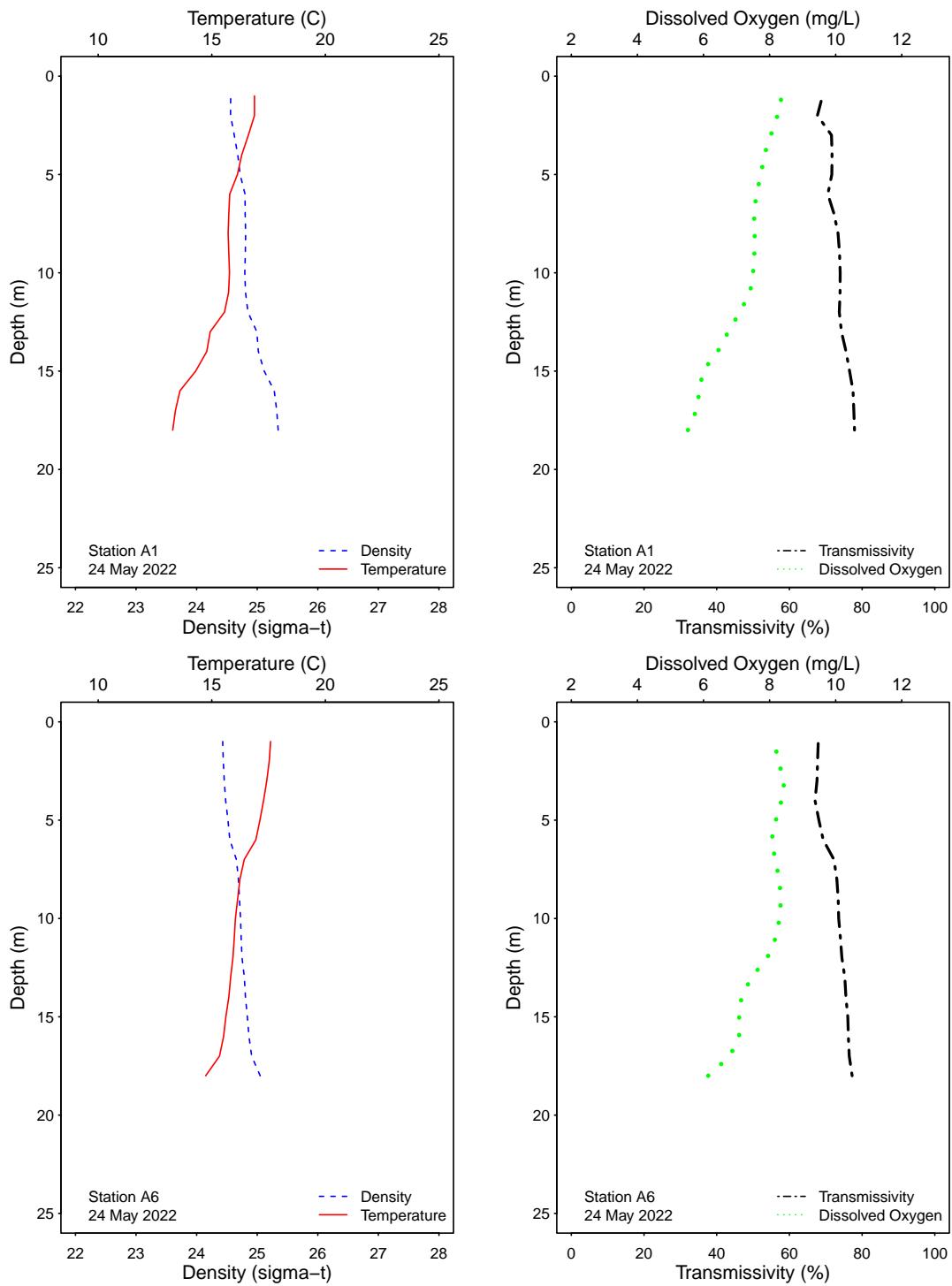


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

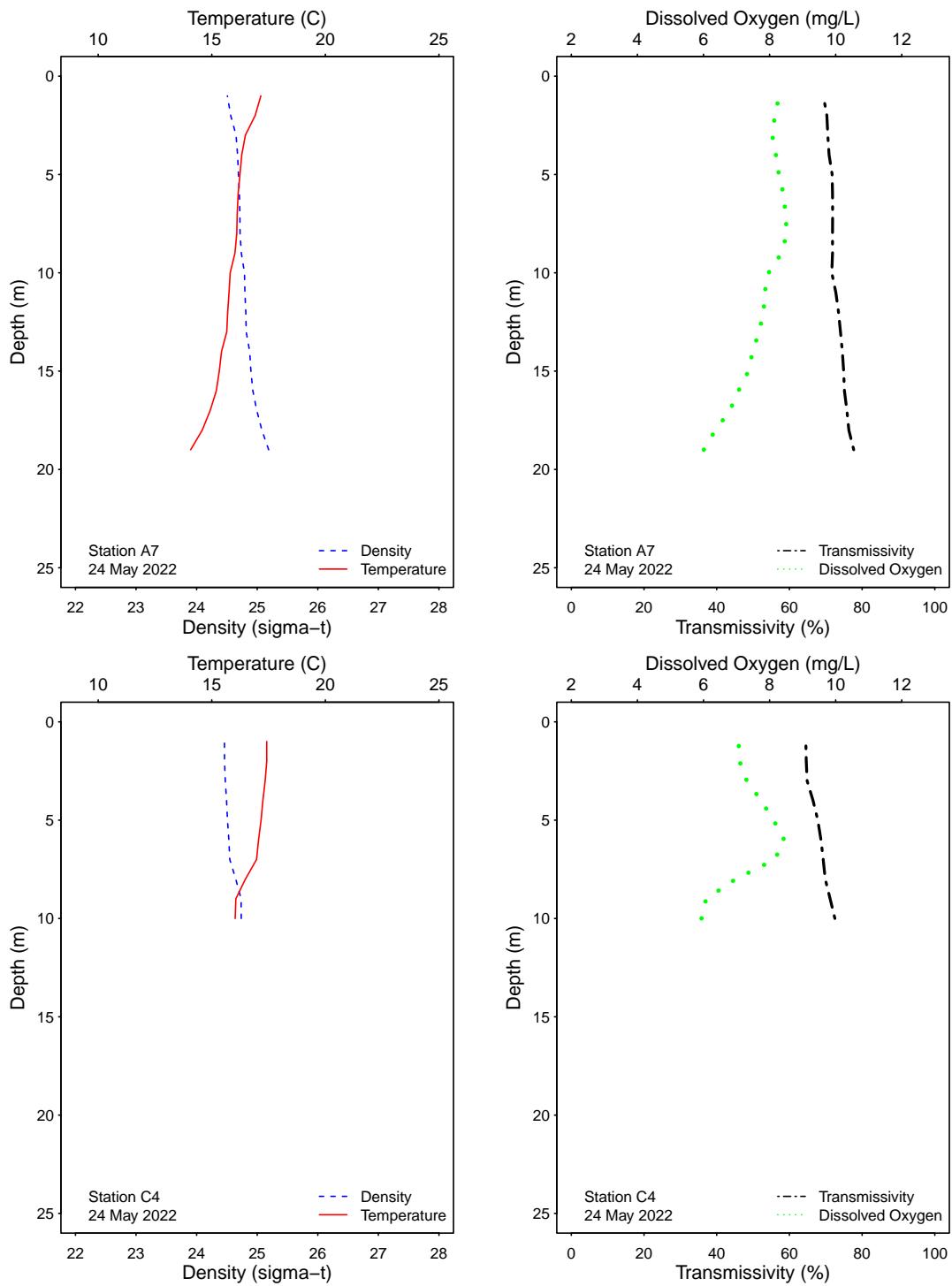


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

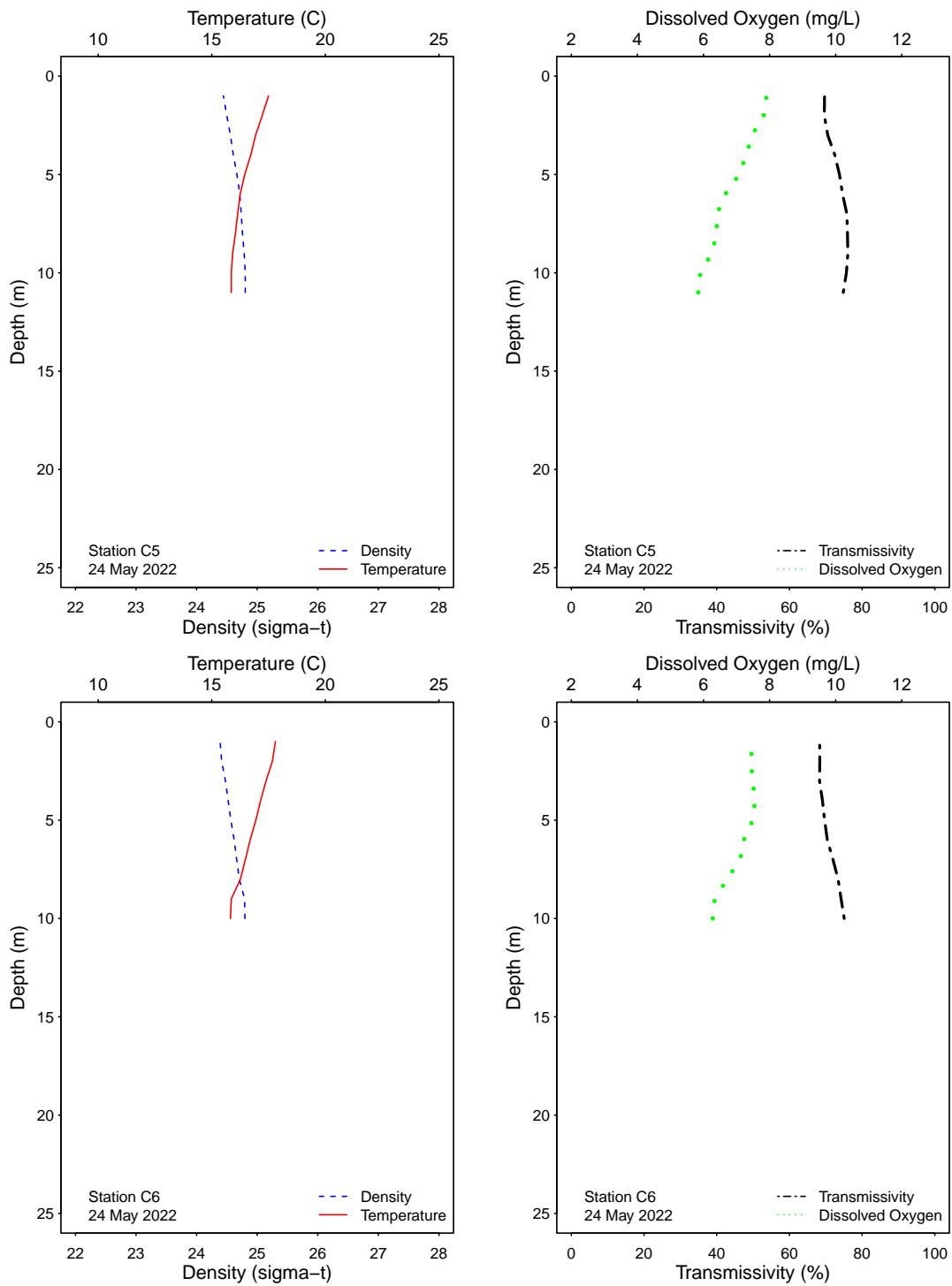


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

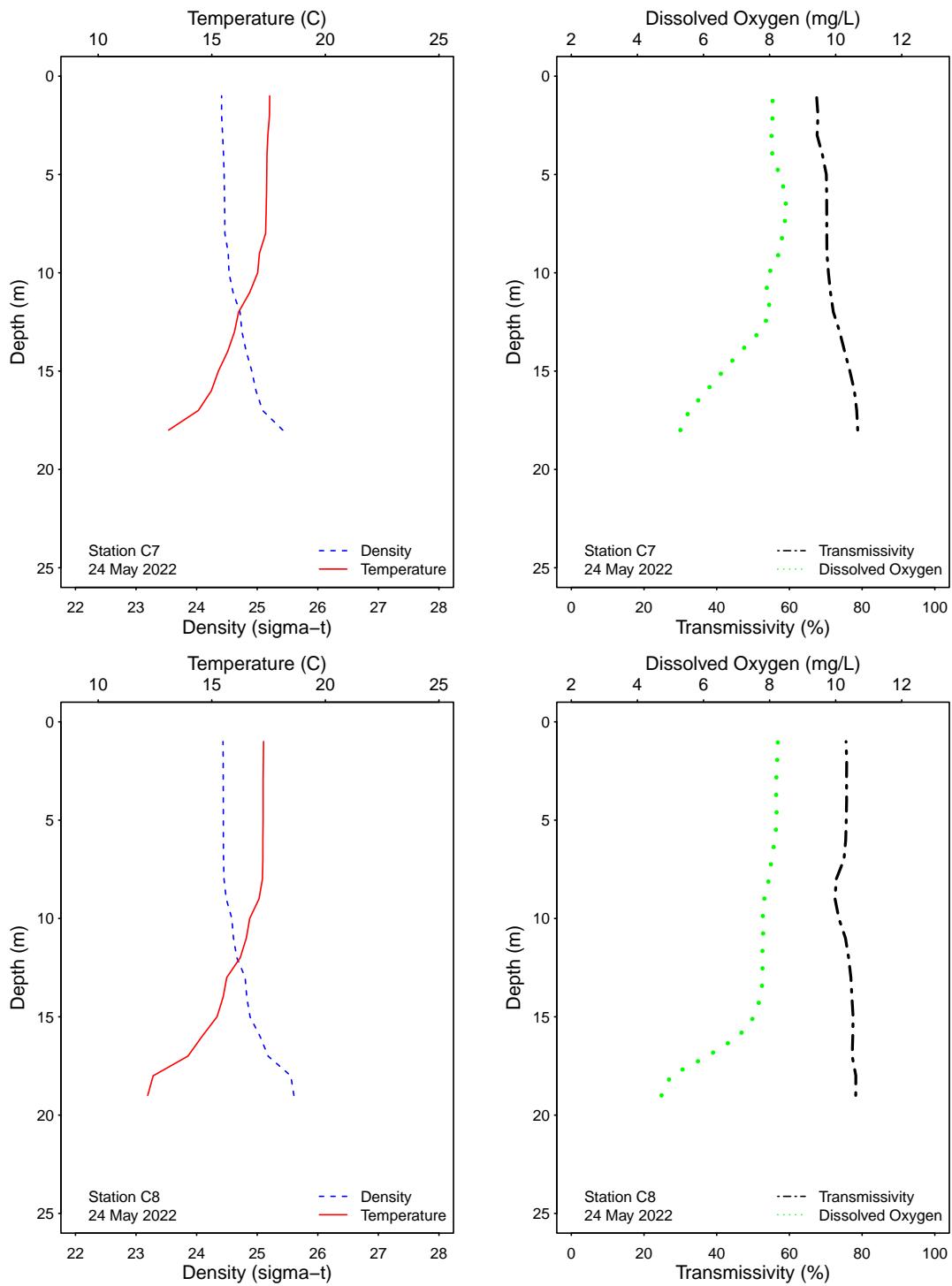


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.



# 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
19 May 2022	IC	ns	ns	ns											
20 May 2022	ns	IC	IC	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	19 May 2022	1153	1	<2	15.98	52.37	10.1	33.74	8.3
F01	19 May 2022	1153	12	2e	13.03	67.40	6.4	33.75	8.0
F01	19 May 2022	1153	18	<2	11.51	73.57	4.8	33.78	7.8
F02	19 May 2022	814	1	<2	17.64	66.76	8.4	33.74	8.2
F02	19 May 2022	814	12	2e	15.62	70.67	6.5	33.74	8.1
F02	19 May 2022	814	18	2e	12.01	71.74	4.4	33.80	7.8
F03	19 May 2022	830	1	<2	17.40	73.04	8.5	33.72	8.2
F03	19 May 2022	830	12	<2	16.42	70.73	7.0	33.76	8.2
F03	19 May 2022	830	18	2e	12.32	74.76	4.6	33.77	7.9
F04	19 May 2022	1119	1	<2	15.99	62.76	9.6	33.76	8.3
F04	19 May 2022	1119	25	8e	10.24	81.68	3.9	33.86	7.8
F04	19 May 2022	1119	60	2e	9.95	81.64	3.5	33.96	7.8
F05	19 May 2022	1107	1	<2	16.12	64.53	9.5	33.75	8.3
F05	19 May 2022	1107	25	2e	10.29	81.25	4.0	33.84	7.8
F05	19 May 2022	1107	60	10e	10.18	76.99	3.3	33.92	7.7
F06	19 May 2022	1049	1	<2	16.82	53.46	8.7	33.79	8.2
F06	19 May 2022	1049	25	2e	10.84	77.07	3.9	33.83	7.8
F06	19 May 2022	1049	60	<2	10.48	78.53	3.6	33.88	7.8
F07	19 May 2022	1036	1	<2	17.31	69.03	8.7	33.71	8.3
F07	19 May 2022	1036	25	2e	10.71	80.93	4.3	33.77	7.8
F07	19 May 2022	1036	60	4e	10.35	79.85	3.5	33.90	7.8
F08	19 May 2022	1020	1	<2	17.31	68.24	8.6	33.72	8.3
F08	19 May 2022	1020	25	<2	10.87	80.58	4.2	33.78	7.8
F08	19 May 2022	1020	60	8e	10.24	76.95	3.2	33.94	7.7
F09	19 May 2022	1007	1	<2	17.36	67.92	8.5	33.72	8.3
F09	19 May 2022	1007	25	<2	10.82	80.80	4.2	33.79	7.8
F09	19 May 2022	1007	60	18e	10.26	79.07	3.3	33.94	7.7
F10	19 May 2022	952	1	<2	17.18	75.85	8.2	33.68	8.2
F10	19 May 2022	952	25	4e	10.76	80.69	4.2	33.78	7.8
F10	19 May 2022	952	60	8e	10.23	80.32	3.3	33.95	7.7
F11	19 May 2022	936	1	<2	17.67	73.72	8.4	33.70	8.2
F11	19 May 2022	936	25	<2	10.80	80.52	4.1	33.80	7.8
F11	19 May 2022	936	60	18e	10.20	78.97	3.2	33.95	7.7
F12	19 May 2022	921	1	<2	17.80	72.02	8.6	33.71	8.3
F12	19 May 2022	921	25	<2	10.96	80.07	4.0	33.80	7.8
F12	19 May 2022	921	60	22e	10.16	78.51	3.2	33.97	7.7
F13	19 May 2022	907	1	2e	17.78	74.69	8.5	33.70	8.2
F13	19 May 2022	907	25	<2	11.15	79.74	4.1	33.80	7.8
F13	19 May 2022	907	60	38e	10.14	78.83	3.1	33.97	7.7

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F14	19 May 2022	845	1	<2	17.99	64.04	9.2	33.72	8.3
F14	19 May 2022	845	25	<2	11.65	79.01	4.4	33.79	7.8
F14	19 May 2022	845	60	20e	10.17	79.23	3.2	33.95	7.7
F15	20 May 2022	1133	1	<2	16.56	77.48	8.1	33.64	8.1
F15	20 May 2022	1133	25	<2	13.31	78.45	6.0	33.69	8.0
F15	20 May 2022	1133	60	<2	10.06	82.12	3.4	33.96	7.7
F15	20 May 2022	1133	80	2e	9.78	79.96	3.2	33.98	7.7
F16	20 May 2022	1118	1	<2	15.89	63.36	8.6	33.72	8.2
F16	20 May 2022	1118	25	<2	10.49	81.44	4.3	33.77	7.8
F16	20 May 2022	1118	60	2e	10.09	80.91	3.1	33.98	7.7
F16	20 May 2022	1118	80	6e	10.09	80.75	3.1	33.98	7.7
F17	20 May 2022	1101	1	2e	15.90	60.39	8.1	33.63	8.2
F17	20 May 2022	1101	25	<2	10.75	80.56	4.4	33.74	7.8
F17	20 May 2022	1101	60	<2	10.12	81.17	3.5	33.93	7.7
F17	20 May 2022	1101	80	2e	10.05	80.66	3.3	33.97	7.7
F18	20 May 2022	1043	1	2e	16.24	70.85	8.8	33.73	8.2
F18	20 May 2022	1043	25	<2	10.98	80.03	4.6	33.73	7.8
F18	20 May 2022	1043	60	<2	10.29	78.46	3.6	33.87	7.7
F18	20 May 2022	1043	80	4e	9.98	79.96	3.3	33.97	7.7
F19	20 May 2022	1026	1	<2	16.16	58.62	8.9	33.75	8.2
F19	20 May 2022	1026	25	2e	10.70	79.04	4.0	33.77	7.7
F19	20 May 2022	1026	60	2e	10.32	80.17	3.8	33.84	7.7
F19	20 May 2022	1026	80	16e	10.15	77.42	3.2	33.94	7.7
F20	20 May 2022	1010	1	8e	16.59	59.70	9.0	33.74	8.2
F20	20 May 2022	1010	25	<2	11.39	75.50	4.5	33.76	7.8
F20	20 May 2022	1010	60	280e	10.38	80.01	3.7	33.84	7.7
F20	20 May 2022	1010	80	14e	10.08	78.23	3.2	33.95	7.7
F21	20 May 2022	953	1	2e	15.78	65.30	8.7	33.73	8.2
F21	20 May 2022	953	25	<2	11.99	79.96	5.3	33.67	7.9
F21	20 May 2022	953	60	460	10.28	78.63	3.5	33.86	7.7
F21	20 May 2022	953	80	10e	10.12	77.82	3.2	33.95	7.7
F22	20 May 2022	937	1	<2	16.82	72.72	7.9	33.65	8.1
F22	20 May 2022	937	25	<2	11.65	80.10	5.3	33.67	7.8
F22	20 May 2022	937	60	160e	10.02	77.87	3.1	33.89	7.7
F22	20 May 2022	937	80	40	10.08	79.34	3.2	33.96	7.7
F23	20 May 2022	918	1	2e	16.80	77.95	8.0	33.66	8.1
F23	20 May 2022	918	25	2e	12.98	79.14	5.3	33.72	7.9
F23	20 May 2022	918	60	22e	9.99	78.68	3.1	33.90	7.7
F23	20 May 2022	918	80	110	10.05	78.27	3.1	33.96	7.7
F24	20 May 2022	902	1	<2	16.67	76.49	7.9	33.64	8.1
F24	20 May 2022	902	25	<2	12.27	79.40	5.0	33.72	7.9
F24	20 May 2022	902	60	<2	9.98	82.03	3.8	33.90	7.7
F24	20 May 2022	902	80	100	9.97	78.19	3.0	33.96	7.7
F25	20 May 2022	846	1	12e	16.55	78.18	8.1	33.64	8.1
F25	20 May 2022	846	25	<2	12.40	79.52	4.9	33.75	7.9
F25	20 May 2022	846	60	4e	10.11	81.78	3.5	33.93	7.7
F25	20 May 2022	846	80	74	9.84	78.79	3.0	33.97	7.7
F26	18 May 2022	1212	1	<2	17.08	75.28	8.2	33.67	8.2
F26	18 May 2022	1212	25	<2	10.96	77.34	4.3	33.80	7.8

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F26	18 May 2022	1212	60	46	9.88	81.97	3.5	33.98	7.7
F26	18 May 2022	1212	80	6e	9.84	81.55	3.1	34.06	7.7
F26	18 May 2022	1212	98	6e	9.79	80.11	2.7	34.11	7.7
F27	18 May 2022	1154	1	<2	17.23	78.12	8.0	33.62	8.2
F27	18 May 2022	1154	25	<2	11.91	79.73	5.5	33.65	7.9
F27	18 May 2022	1154	60	4e	10.07	81.18	3.5	33.95	7.7
F27	18 May 2022	1154	80	36e	9.89	80.49	3.1	34.02	7.7
F27	18 May 2022	1154	98	10e	9.79	80.00	2.9	34.08	7.7
F28	18 May 2022	1138	1	<2	17.14	77.56	8.1	33.62	8.2
F28	18 May 2022	1138	25	<2	12.36	79.45	6.3	33.64	8.0
F28	18 May 2022	1138	60	34e	10.10	81.49	3.5	33.94	7.7
F28	18 May 2022	1138	80	34e	9.91	81.16	3.2	33.99	7.7
F28	18 May 2022	1138	98	10e	9.73	80.87	2.8	34.12	7.7
F29	18 May 2022	1115	1	<2	16.92	77.85	8.1	33.60	8.2
F29	18 May 2022	1115	25	<2	12.39	78.80	6.6	33.63	8.0
F29	18 May 2022	1115	60	520	10.08	80.85	3.4	33.93	7.7
F29	18 May 2022	1115	80	30e	9.90	81.07	3.1	34.01	7.7
F29	18 May 2022	1115	98	<2	9.74	81.17	2.8	34.11	7.7
F30	18 May 2022	1024	1	<2	16.82	76.55	8.2	33.62	8.2
F30	18 May 2022	1024	25	<2	12.45	79.00	6.6	33.62	8.0
F30	18 May 2022	1024	60	300e	9.99	79.48	3.3	33.92	7.7
F30	18 May 2022	1024	80	280e	9.80	78.57	3.0	34.01	7.7
F30	18 May 2022	1024	98	2e	9.72	81.84	3.0	34.08	7.7
F31	18 May 2022	1010	1	<2	16.87	77.31	8.1	33.64	8.2
F31	18 May 2022	1010	25	<2	13.04	77.75	7.1	33.60	8.0
F31	18 May 2022	1010	60	<2	9.95	82.61	3.9	33.92	7.8
F31	18 May 2022	1010	80	48	9.74	82.50	3.6	33.98	7.7
F31	18 May 2022	1010	98	4e	9.70	81.49	2.6	34.17	7.7
F32	18 May 2022	951	1	<2	16.83	77.02	8.1	33.63	8.2
F32	18 May 2022	951	25	<2	12.73	79.18	6.7	33.62	8.0
F32	18 May 2022	951	60	2e	9.86	82.58	3.7	33.96	7.8
F32	18 May 2022	951	80	2e	9.68	82.60	3.5	34.01	7.7
F32	18 May 2022	951	98	4e	9.70	82.40	2.7	34.16	7.7
F33	18 May 2022	938	1	<2	16.79	77.73	8.1	33.63	8.2
F33	18 May 2022	938	25	<2	12.71	79.43	6.7	33.62	8.0
F33	18 May 2022	938	60	<2	10.09	81.87	3.5	33.95	7.7
F33	18 May 2022	938	80	<2	9.64	82.69	3.5	34.05	7.7
F33	18 May 2022	938	98	<2	9.71	82.54	2.7	34.16	7.7
F34	18 May 2022	922	1	<2	16.92	77.77	8.0	33.62	8.2
F34	18 May 2022	922	25	<2	12.90	79.31	6.9	33.62	8.0
F34	18 May 2022	922	60	2e	10.19	81.65	3.6	33.92	7.8
F34	18 May 2022	922	80	<2	9.58	82.74	3.4	34.06	7.7
F34	18 May 2022	922	98	<2	9.69	82.56	2.6	34.17	7.7
F35	18 May 2022	851	1	<2	16.77	78.16	8.0	33.61	8.1
F35	18 May 2022	851	25	<2	13.95	79.10	7.6	33.62	8.1
F35	18 May 2022	851	60	2e	10.28	81.84	3.8	33.89	7.8
F35	18 May 2022	851	80	<2	9.57	82.75	3.4	34.06	7.7
F35	18 May 2022	851	98	<2	9.67	82.16	2.8	34.15	7.7
F36	18 May 2022	825	1	<2	16.75	74.83	8.0	33.59	8.1
F36	18 May 2022	825	25	2e	14.13	79.00	7.6	33.62	8.1
F36	18 May 2022	825	60	14e	10.19	82.14	3.8	33.90	7.8

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F36	18 May 2022	825	80	<2	9.68	82.46	3.2	34.07	7.7
F36	18 May 2022	825	98	<2	9.66	81.97	2.7	34.14	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	19 May 2022	Depth (m)	20
F01	19 May 2022	Arrive Time	1153
F01	19 May 2022	Depart Time	1200
F01	19 May 2022	Air Temp (C)	15.1
F01	19 May 2022	Weather	Haze
F01	19 May 2022	Visibility (mi)	8
F01	19 May 2022	Wind Speed (kts)	4.2
F01	19 May 2022	Wind Dir	W
F01	19 May 2022	Water Color	Brown
F01	19 May 2022	Wave Ht Low (ft)	4
F01	19 May 2022	Wave Period (sec)	9
F01	19 May 2022	Sea State	Light Chop
F01	19 May 2022	High Tide (ft)	5.92
F01	19 May 2022	High Tide Time	706
F01	19 May 2022	Low Tide (ft)	-1.24
F01	19 May 2022	Low Tide Time	1348
F01	19 May 2022	Comments	none
F02	19 May 2022	Depth (m)	18
F02	19 May 2022	Arrive Time	814
F02	19 May 2022	Depart Time	823
F02	19 May 2022	Air Temp (C)	14.8
F02	19 May 2022	Weather	Haze
F02	19 May 2022	Visibility (mi)	8
F02	19 May 2022	Wind Speed (kts)	3.2
F02	19 May 2022	Wind Dir	SW
F02	19 May 2022	Water Color	Brownish-Green
F02	19 May 2022	Wave Ht Low (ft)	4
F02	19 May 2022	Wave Period (sec)	9
F02	19 May 2022	Sea State	Light Chop
F02	19 May 2022	High Tide (ft)	5.92
F02	19 May 2022	High Tide Time	706
F02	19 May 2022	Low Tide (ft)	-1.24
F02	19 May 2022	Low Tide Time	1348
F02	19 May 2022	Comments	none
F03	19 May 2022	Depth (m)	19
F03	19 May 2022	Arrive Time	830
F03	19 May 2022	Depart Time	835
F03	19 May 2022	Air Temp (C)	15
F03	19 May 2022	Weather	Haze
F03	19 May 2022	Visibility (mi)	8
F03	19 May 2022	Wind Speed (kts)	3.4
F03	19 May 2022	Wind Dir	E
F03	19 May 2022	Water Color	Brownish-Green
F03	19 May 2022	Wave Ht Low (ft)	4
F03	19 May 2022	Wave Period (sec)	9
F03	19 May 2022	Sea State	Light Chop
F03	19 May 2022	High Tide (ft)	5.92
F03	19 May 2022	High Tide Time	706
F03	19 May 2022	Low Tide (ft)	-1.24
F03	19 May 2022	Low Tide Time	1348
F03	19 May 2022	Comments	none
F04	19 May 2022	Depth (m)	62
F04	19 May 2022	Arrive Time	1119

Station	Date	Parameter	Value
F04	19 May 2022	Depart Time	1126
F04	19 May 2022	Air Temp (C)	14.9
F04	19 May 2022	Weather	Haze
F04	19 May 2022	Visibility (mi)	8
F04	19 May 2022	Wind Speed (kts)	11.5
F04	19 May 2022	Wind Dir	S
F04	19 May 2022	Water Color	Brown
F04	19 May 2022	Wave Ht Low (ft)	4
F04	19 May 2022	Wave Period (sec)	9
F04	19 May 2022	Sea State	Light Chop
F04	19 May 2022	High Tide (ft)	5.92
F04	19 May 2022	High Tide Time	706
F04	19 May 2022	Low Tide (ft)	-1.24
F04	19 May 2022	Low Tide Time	1348
F04	19 May 2022	Comments	none
F05	19 May 2022	Depth (m)	61
F05	19 May 2022	Arrive Time	1107
F05	19 May 2022	Depart Time	1115
F05	19 May 2022	Air Temp (C)	14.7
F05	19 May 2022	Weather	Haze
F05	19 May 2022	Visibility (mi)	8
F05	19 May 2022	Wind Speed (kts)	10.7
F05	19 May 2022	Wind Dir	SE
F05	19 May 2022	Water Color	Brown
F05	19 May 2022	Wave Ht Low (ft)	4
F05	19 May 2022	Wave Period (sec)	9
F05	19 May 2022	Sea State	Light Chop
F05	19 May 2022	High Tide (ft)	5.92
F05	19 May 2022	High Tide Time	706
F05	19 May 2022	Low Tide (ft)	-1.24
F05	19 May 2022	Low Tide Time	1348
F05	19 May 2022	Comments	none
F06	19 May 2022	Depth (m)	61
F06	19 May 2022	Arrive Time	1049
F06	19 May 2022	Depart Time	1059
F06	19 May 2022	Air Temp (C)	14.9
F06	19 May 2022	Weather	Haze
F06	19 May 2022	Visibility (mi)	8
F06	19 May 2022	Wind Speed (kts)	13.3
F06	19 May 2022	Wind Dir	SE
F06	19 May 2022	Water Color	Brown
F06	19 May 2022	Wave Ht Low (ft)	4
F06	19 May 2022	Wave Period (sec)	9
F06	19 May 2022	Sea State	Light Chop
F06	19 May 2022	High Tide (ft)	5.92
F06	19 May 2022	High Tide Time	706
F06	19 May 2022	Low Tide (ft)	-1.24
F06	19 May 2022	Low Tide Time	1348
F06	19 May 2022	Comments	none
F07	19 May 2022	Depth (m)	64
F07	19 May 2022	Arrive Time	1036
F07	19 May 2022	Depart Time	1044
F07	19 May 2022	Air Temp (C)	15
F07	19 May 2022	Weather	Haze
F07	19 May 2022	Visibility (mi)	8
F07	19 May 2022	Wind Speed (kts)	10.8
F07	19 May 2022	Wind Dir	SE
F07	19 May 2022	Water Color	Brownish-Green

Station	Date	Parameter	Value
F07	19 May 2022	Wave Ht Low (ft)	4
F07	19 May 2022	Wave Period (sec)	9
F07	19 May 2022	Sea State	Light Chop
F07	19 May 2022	High Tide (ft)	5.92
F07	19 May 2022	High Tide Time	706
F07	19 May 2022	Low Tide (ft)	-1.24
F07	19 May 2022	Low Tide Time	1348
F07	19 May 2022	Comments	none
F08	19 May 2022	Depth (m)	61
F08	19 May 2022	Arrive Time	1020
F08	19 May 2022	Depart Time	1030
F08	19 May 2022	Air Temp (C)	14.8
F08	19 May 2022	Weather	Haze
F08	19 May 2022	Visibility (mi)	8
F08	19 May 2022	Wind Speed (kts)	9.9
F08	19 May 2022	Wind Dir	E
F08	19 May 2022	Water Color	Brownish-Green
F08	19 May 2022	Wave Ht Low (ft)	4
F08	19 May 2022	Wave Period (sec)	9
F08	19 May 2022	Sea State	Light Chop
F08	19 May 2022	High Tide (ft)	5.92
F08	19 May 2022	High Tide Time	706
F08	19 May 2022	Low Tide (ft)	-1.24
F08	19 May 2022	Low Tide Time	1348
F08	19 May 2022	Comments	none
F09	19 May 2022	Depth (m)	61
F09	19 May 2022	Arrive Time	1007
F09	19 May 2022	Depart Time	1015
F09	19 May 2022	Air Temp (C)	14.9
F09	19 May 2022	Weather	Haze
F09	19 May 2022	Visibility (mi)	8
F09	19 May 2022	Wind Speed (kts)	15.8
F09	19 May 2022	Wind Dir	SE
F09	19 May 2022	Water Color	Brownish-Green
F09	19 May 2022	Wave Ht Low (ft)	4
F09	19 May 2022	Wave Period (sec)	9
F09	19 May 2022	Sea State	Light Chop
F09	19 May 2022	High Tide (ft)	5.92
F09	19 May 2022	High Tide Time	706
F09	19 May 2022	Low Tide (ft)	-1.24
F09	19 May 2022	Low Tide Time	1348
F09	19 May 2022	Comments	none
F10	19 May 2022	Depth (m)	61
F10	19 May 2022	Arrive Time	952
F10	19 May 2022	Depart Time	1002
F10	19 May 2022	Air Temp (C)	14.8
F10	19 May 2022	Weather	Haze
F10	19 May 2022	Visibility (mi)	8
F10	19 May 2022	Wind Speed (kts)	8.6
F10	19 May 2022	Wind Dir	S
F10	19 May 2022	Water Color	Brownish-Green
F10	19 May 2022	Wave Ht Low (ft)	4
F10	19 May 2022	Wave Period (sec)	9
F10	19 May 2022	Sea State	Light Chop
F10	19 May 2022	High Tide (ft)	5.92
F10	19 May 2022	High Tide Time	706
F10	19 May 2022	Low Tide (ft)	-1.24
F10	19 May 2022	Low Tide Time	1348

Station	Date	Parameter	Value
F10	19 May 2022	Comments	none
F11	19 May 2022	Depth (m)	60
F11	19 May 2022	Arrive Time	936
F11	19 May 2022	Depart Time	945
F11	19 May 2022	Air Temp (C)	14.8
F11	19 May 2022	Weather	Haze
F11	19 May 2022	Visibility (mi)	8
F11	19 May 2022	Wind Speed (kts)	7.5
F11	19 May 2022	Wind Dir	E
F11	19 May 2022	Water Color	Brownish-Green
F11	19 May 2022	Wave Ht Low (ft)	4
F11	19 May 2022	Wave Period (sec)	9
F11	19 May 2022	Sea State	Light Chop
F11	19 May 2022	High Tide (ft)	5.92
F11	19 May 2022	High Tide Time	706
F11	19 May 2022	Low Tide (ft)	-1.24
F11	19 May 2022	Low Tide Time	1348
F11	19 May 2022	Comments	none
F12	19 May 2022	Depth (m)	61
F12	19 May 2022	Arrive Time	921
F12	19 May 2022	Depart Time	929
F12	19 May 2022	Air Temp (C)	14.8
F12	19 May 2022	Weather	Haze
F12	19 May 2022	Visibility (mi)	8
F12	19 May 2022	Wind Speed (kts)	10.3
F12	19 May 2022	Wind Dir	SE
F12	19 May 2022	Water Color	Brownish-Green
F12	19 May 2022	Wave Ht Low (ft)	4
F12	19 May 2022	Wave Period (sec)	9
F12	19 May 2022	Sea State	Light Chop
F12	19 May 2022	High Tide (ft)	5.92
F12	19 May 2022	High Tide Time	706
F12	19 May 2022	Low Tide (ft)	-1.24
F12	19 May 2022	Low Tide Time	1348
F12	19 May 2022	Comments	none
F13	19 May 2022	Depth (m)	60
F13	19 May 2022	Arrive Time	907
F13	19 May 2022	Depart Time	916
F13	19 May 2022	Air Temp (C)	15.1
F13	19 May 2022	Weather	Haze
F13	19 May 2022	Visibility (mi)	8
F13	19 May 2022	Wind Speed (kts)	0.3
F13	19 May 2022	Wind Dir	SW
F13	19 May 2022	Water Color	Brownish-Green
F13	19 May 2022	Wave Ht Low (ft)	4
F13	19 May 2022	Wave Period (sec)	9
F13	19 May 2022	Sea State	Light Chop
F13	19 May 2022	High Tide (ft)	5.92
F13	19 May 2022	High Tide Time	706
F13	19 May 2022	Low Tide (ft)	-1.24
F13	19 May 2022	Low Tide Time	1348
F13	19 May 2022	Comments	OA 1m Btl# 19387 Nsk# 5;OA 60m Btl# 19388 Nsk# 4
F14	19 May 2022	Depth (m)	59
F14	19 May 2022	Arrive Time	845
F14	19 May 2022	Depart Time	855
F14	19 May 2022	Air Temp (C)	14.9
F14	19 May 2022	Weather	Haze

Station	Date	Parameter	Value
F14	19 May 2022	Visibility (mi)	8
F14	19 May 2022	Wind Speed (kts)	8.8
F14	19 May 2022	Wind Dir	SE
F14	19 May 2022	Water Color	Brownish-Green
F14	19 May 2022	Wave Ht Low (ft)	4
F14	19 May 2022	Wave Period (sec)	9
F14	19 May 2022	Sea State	Light Chop
F14	19 May 2022	High Tide (ft)	5.92
F14	19 May 2022	High Tide Time	706
F14	19 May 2022	Low Tide (ft)	-1.24
F14	19 May 2022	Low Tide Time	1348
F14	19 May 2022	Comments	none
F15	20 May 2022	Depth (m)	80
F15	20 May 2022	Arrive Time	1133
F15	20 May 2022	Depart Time	1141
F15	20 May 2022	Air Temp (C)	15.7
F15	20 May 2022	Weather	Overcast
F15	20 May 2022	Visibility (mi)	9
F15	20 May 2022	Wind Speed (kts)	12.7
F15	20 May 2022	Wind Dir	SE
F15	20 May 2022	Water Color	Green
F15	20 May 2022	Wave Ht Low (ft)	5
F15	20 May 2022	Wave Period (sec)	18
F15	20 May 2022	Sea State	Heavy Chop
F15	20 May 2022	High Tide (ft)	5.68
F15	20 May 2022	High Tide Time	706
F15	20 May 2022	Low Tide (ft)	-0.93
F15	20 May 2022	Low Tide Time	1500
F15	20 May 2022	Comments	Extra OA at 80m 19391 niskin #5; OA 1m Btl# 19389 Nsk#6;OA 80m Btl# 19390 Nsk#5
F16	20 May 2022	Depth (m)	82
F16	20 May 2022	Arrive Time	1118
F16	20 May 2022	Depart Time	1123
F16	20 May 2022	Air Temp (C)	15.5
F16	20 May 2022	Weather	Overcast
F16	20 May 2022	Visibility (mi)	9
F16	20 May 2022	Wind Speed (kts)	14.8
F16	20 May 2022	Wind Dir	SE
F16	20 May 2022	Water Color	Green
F16	20 May 2022	Wave Ht Low (ft)	5
F16	20 May 2022	Wave Period (sec)	18
F16	20 May 2022	Sea State	Heavy Chop
F16	20 May 2022	High Tide (ft)	5.68
F16	20 May 2022	High Tide Time	706
F16	20 May 2022	Low Tide (ft)	-0.93
F16	20 May 2022	Low Tide Time	1500
F16	20 May 2022	Comments	none
F17	20 May 2022	Depth (m)	81
F17	20 May 2022	Arrive Time	1101
F17	20 May 2022	Depart Time	1108
F17	20 May 2022	Air Temp (C)	15.4
F17	20 May 2022	Weather	Overcast
F17	20 May 2022	Visibility (mi)	9
F17	20 May 2022	Wind Speed (kts)	11.8
F17	20 May 2022	Wind Dir	E
F17	20 May 2022	Water Color	Green
F17	20 May 2022	Wave Ht Low (ft)	5
F17	20 May 2022	Wave Period (sec)	18

Station	Date	Parameter	Value
F17	20 May 2022	Sea State	Heavy Chop
F17	20 May 2022	High Tide (ft)	5.68
F17	20 May 2022	High Tide Time	706
F17	20 May 2022	Low Tide (ft)	-0.93
F17	20 May 2022	Low Tide Time	1500
F17	20 May 2022	Comments	none
F18	20 May 2022	Depth (m)	80
F18	20 May 2022	Arrive Time	1043
F18	20 May 2022	Depart Time	1049
F18	20 May 2022	Air Temp (C)	15.3
F18	20 May 2022	Weather	Overcast
F18	20 May 2022	Visibility (mi)	9
F18	20 May 2022	Wind Speed (kts)	11.9
F18	20 May 2022	Wind Dir	SE
F18	20 May 2022	Water Color	Green
F18	20 May 2022	Wave Ht Low (ft)	5
F18	20 May 2022	Wave Period (sec)	18
F18	20 May 2022	Sea State	Heavy Chop
F18	20 May 2022	High Tide (ft)	5.68
F18	20 May 2022	High Tide Time	706
F18	20 May 2022	Low Tide (ft)	-0.93
F18	20 May 2022	Low Tide Time	1500
F18	20 May 2022	Comments	none
F19	20 May 2022	Depth (m)	82
F19	20 May 2022	Arrive Time	1026
F19	20 May 2022	Depart Time	1032
F19	20 May 2022	Air Temp (C)	15.5
F19	20 May 2022	Weather	Overcast
F19	20 May 2022	Visibility (mi)	9
F19	20 May 2022	Wind Speed (kts)	12.5
F19	20 May 2022	Wind Dir	E
F19	20 May 2022	Water Color	Brownish-Green
F19	20 May 2022	Wave Ht Low (ft)	5
F19	20 May 2022	Wave Period (sec)	18
F19	20 May 2022	Sea State	Heavy Chop
F19	20 May 2022	High Tide (ft)	5.68
F19	20 May 2022	High Tide Time	706
F19	20 May 2022	Low Tide (ft)	-0.93
F19	20 May 2022	Low Tide Time	1500
F19	20 May 2022	Comments	Possibly red tide
F20	20 May 2022	Depth (m)	81
F20	20 May 2022	Arrive Time	1010
F20	20 May 2022	Depart Time	1016
F20	20 May 2022	Air Temp (C)	15.4
F20	20 May 2022	Weather	Overcast
F20	20 May 2022	Visibility (mi)	9
F20	20 May 2022	Wind Speed (kts)	12.5
F20	20 May 2022	Wind Dir	E
F20	20 May 2022	Water Color	Green
F20	20 May 2022	Wave Ht Low (ft)	5
F20	20 May 2022	Wave Period (sec)	18
F20	20 May 2022	Sea State	Heavy Chop
F20	20 May 2022	High Tide (ft)	5.68
F20	20 May 2022	High Tide Time	706
F20	20 May 2022	Low Tide (ft)	-0.93
F20	20 May 2022	Low Tide Time	1500
F20	20 May 2022	Comments	none

Station	Date	Parameter	Value
F21	20 May 2022	Depth (m)	84
F21	20 May 2022	Arrive Time	953
F21	20 May 2022	Depart Time	959
F21	20 May 2022	Air Temp (C)	15.4
F21	20 May 2022	Weather	Drizzle
F21	20 May 2022	Visibility (mi)	5
F21	20 May 2022	Wind Speed (kts)	12.9
F21	20 May 2022	Wind Dir	E
F21	20 May 2022	Water Color	Blue
F21	20 May 2022	Wave Ht Low (ft)	5
F21	20 May 2022	Wave Period (sec)	18
F21	20 May 2022	Sea State	Heavy Chop
F21	20 May 2022	High Tide (ft)	5.68
F21	20 May 2022	High Tide Time	706
F21	20 May 2022	Low Tide (ft)	-0.93
F21	20 May 2022	Low Tide Time	1500
F21	20 May 2022	Comments	none
F22	20 May 2022	Depth (m)	80
F22	20 May 2022	Arrive Time	937
F22	20 May 2022	Depart Time	943
F22	20 May 2022	Air Temp (C)	15.3
F22	20 May 2022	Weather	Drizzle
F22	20 May 2022	Visibility (mi)	5
F22	20 May 2022	Wind Speed (kts)	13.5
F22	20 May 2022	Wind Dir	E
F22	20 May 2022	Water Color	Blue
F22	20 May 2022	Wave Ht Low (ft)	5
F22	20 May 2022	Wave Period (sec)	18
F22	20 May 2022	Sea State	Heavy Chop
F22	20 May 2022	High Tide (ft)	5.68
F22	20 May 2022	High Tide Time	706
F22	20 May 2022	Low Tide (ft)	-0.93
F22	20 May 2022	Low Tide Time	1500
F22	20 May 2022	Comments	none
F24	20 May 2022	Depth (m)	81
F24	20 May 2022	Arrive Time	902
F24	20 May 2022	Depart Time	908
F24	20 May 2022	Air Temp (C)	15.5
F24	20 May 2022	Weather	Drizzle
F24	20 May 2022	Visibility (mi)	5
F24	20 May 2022	Wind Speed (kts)	13.6
F24	20 May 2022	Wind Dir	SE
F24	20 May 2022	Water Color	Blue
F24	20 May 2022	Wave Ht Low (ft)	5
F24	20 May 2022	Wave Period (sec)	18
F24	20 May 2022	Sea State	Heavy Chop
F24	20 May 2022	High Tide (ft)	5.68
F24	20 May 2022	High Tide Time	706
F24	20 May 2022	Low Tide (ft)	-0.93
F24	20 May 2022	Low Tide Time	1500
F24	20 May 2022	Comments	none
F25	20 May 2022	Depth (m)	82
F25	20 May 2022	Arrive Time	846
F25	20 May 2022	Depart Time	852
F25	20 May 2022	Air Temp (C)	15.6
F25	20 May 2022	Weather	Drizzle
F25	20 May 2022	Visibility (mi)	5
F25	20 May 2022	Wind Speed (kts)	13.2

Station	Date	Parameter	Value
F25	20 May 2022	Wind Dir	E
F25	20 May 2022	Water Color	Blue
F25	20 May 2022	Wave Ht Low (ft)	5
F25	20 May 2022	Wave Period (sec)	18
F25	20 May 2022	Sea State	Heavy Chop
F25	20 May 2022	High Tide (ft)	5.68
F25	20 May 2022	High Tide Time	706
F25	20 May 2022	Low Tide (ft)	-0.93
F25	20 May 2022	Low Tide Time	1500
F25	20 May 2022	Comments	none
F26	18 May 2022	Depth (m)	100
F26	18 May 2022	Arrive Time	1212
F26	18 May 2022	Depart Time	1310
F26	18 May 2022	Air Temp (C)	15
F26	18 May 2022	Weather	Overcast
F26	18 May 2022	Visibility (mi)	10
F26	18 May 2022	Wind Speed (kts)	8.1
F26	18 May 2022	Wind Dir	S
F26	18 May 2022	Water Color	Blue
F26	18 May 2022	Wave Ht Low (ft)	6
F26	18 May 2022	Wave Period (sec)	9
F26	18 May 2022	Sea State	Confused Swell
F26	18 May 2022	High Tide (ft)	6.14
F26	18 May 2022	High Tide Time	612
F26	18 May 2022	Low Tide (ft)	-1.47
F26	18 May 2022	Low Tide Time	1254
F26	18 May 2022	Comments	none
F27	18 May 2022	Depth (m)	100
F27	18 May 2022	Arrive Time	1154
F27	18 May 2022	Depart Time	1205
F27	18 May 2022	Air Temp (C)	15.1
F27	18 May 2022	Weather	Overcast
F27	18 May 2022	Visibility (mi)	10
F27	18 May 2022	Wind Speed (kts)	13.6
F27	18 May 2022	Wind Dir	SE
F27	18 May 2022	Water Color	Blue
F27	18 May 2022	Wave Ht Low (ft)	6
F27	18 May 2022	Wave Period (sec)	9
F27	18 May 2022	Sea State	Confused Swell
F27	18 May 2022	High Tide (ft)	6.14
F27	18 May 2022	High Tide Time	612
F27	18 May 2022	Low Tide (ft)	-1.47
F27	18 May 2022	Low Tide Time	1254
F27	18 May 2022	Comments	none
F28	18 May 2022	Depth (m)	101
F28	18 May 2022	Arrive Time	1138
F28	18 May 2022	Depart Time	1147
F28	18 May 2022	Air Temp (C)	15.2
F28	18 May 2022	Weather	Overcast
F28	18 May 2022	Visibility (mi)	10
F28	18 May 2022	Wind Speed (kts)	8.7
F28	18 May 2022	Wind Dir	SE
F28	18 May 2022	Water Color	Blue
F28	18 May 2022	Wave Ht Low (ft)	6
F28	18 May 2022	Wave Period (sec)	9
F28	18 May 2022	Sea State	Confused Swell
F28	18 May 2022	High Tide (ft)	6.14
F28	18 May 2022	High Tide Time	612

Station	Date	Parameter	Value
F28	18 May 2022	Low Tide (ft)	-1.47
F28	18 May 2022	Low Tide Time	1254
F28	18 May 2022	Comments	none
F29	18 May 2022	Depth (m)	99
F29	18 May 2022	Arrive Time	1115
F29	18 May 2022	Depart Time	1131
F29	18 May 2022	Air Temp (C)	15.2
F29	18 May 2022	Weather	Overcast
F29	18 May 2022	Visibility (mi)	10
F29	18 May 2022	Wind Speed (kts)	6
F29	18 May 2022	Wind Dir	S
F29	18 May 2022	Water Color	Blue
F29	18 May 2022	Wave Ht Low (ft)	6
F29	18 May 2022	Wave Period (sec)	9
F29	18 May 2022	Sea State	Confused Swell
F29	18 May 2022	High Tide (ft)	6.14
F29	18 May 2022	High Tide Time	612
F29	18 May 2022	Low Tide (ft)	-1.47
F29	18 May 2022	Low Tide Time	1254
F29	18 May 2022	Comments	none
F30	18 May 2022	Depth (m)	
F30	18 May 2022	Arrive Time	1024
F30	18 May 2022	Depart Time	1035
F30	18 May 2022	Air Temp (C)	15.1
F30	18 May 2022	Weather	Overcast
F30	18 May 2022	Visibility (mi)	10
F30	18 May 2022	Wind Speed (kts)	7.6
F30	18 May 2022	Wind Dir	SW
F30	18 May 2022	Water Color	Blue
F30	18 May 2022	Wave Ht Low (ft)	6
F30	18 May 2022	Wave Period (sec)	9
F30	18 May 2022	Sea State	Confused Swell
F30	18 May 2022	High Tide (ft)	6.14
F30	18 May 2022	High Tide Time	612
F30	18 May 2022	Low Tide (ft)	-1.47
F30	18 May 2022	Low Tide Time	1254
F30	18 May 2022	Comments	OA bottle numbers not provided
F31	18 May 2022	Depth (m)	97
F31	18 May 2022	Arrive Time	1010
F31	18 May 2022	Depart Time	1015
F31	18 May 2022	Air Temp (C)	15.2
F31	18 May 2022	Weather	Overcast
F31	18 May 2022	Visibility (mi)	10
F31	18 May 2022	Wind Speed (kts)	8.1
F31	18 May 2022	Wind Dir	NE
F31	18 May 2022	Water Color	Blue
F31	18 May 2022	Wave Ht Low (ft)	6
F31	18 May 2022	Wave Period (sec)	9
F31	18 May 2022	Sea State	Confused Swell
F31	18 May 2022	High Tide (ft)	6.14
F31	18 May 2022	High Tide Time	612
F31	18 May 2022	Low Tide (ft)	-1.47
F31	18 May 2022	Low Tide Time	1254
F31	18 May 2022	Comments	none
F32	18 May 2022	Depth (m)	101
F32	18 May 2022	Arrive Time	951
F32	18 May 2022	Depart Time	1001

Station	Date	Parameter	Value
F32	18 May 2022	Air Temp (C)	15.2
F32	18 May 2022	Weather	Overcast
F32	18 May 2022	Visibility (mi)	10
F32	18 May 2022	Wind Speed (kts)	11.6
F32	18 May 2022	Wind Dir	SE
F32	18 May 2022	Water Color	Blue
F32	18 May 2022	Wave Ht Low (ft)	6
F32	18 May 2022	Wave Period (sec)	9
F32	18 May 2022	Sea State	Confused Swell
F32	18 May 2022	High Tide (ft)	6.14
F32	18 May 2022	High Tide Time	612
F32	18 May 2022	Low Tide (ft)	-1.47
F32	18 May 2022	Low Tide Time	1254
F32	18 May 2022	Comments	none
F33	18 May 2022	Depth (m)	102
F33	18 May 2022	Arrive Time	938
F33	18 May 2022	Depart Time	945
F33	18 May 2022	Air Temp (C)	15.3
F33	18 May 2022	Weather	Overcast
F33	18 May 2022	Visibility (mi)	10
F33	18 May 2022	Wind Speed (kts)	11.7
F33	18 May 2022	Wind Dir	SE
F33	18 May 2022	Water Color	Blue
F33	18 May 2022	Wave Ht Low (ft)	6
F33	18 May 2022	Wave Period (sec)	9
F33	18 May 2022	Sea State	Confused Swell
F33	18 May 2022	High Tide (ft)	6.14
F33	18 May 2022	High Tide Time	612
F33	18 May 2022	Low Tide (ft)	-1.47
F33	18 May 2022	Low Tide Time	1254
F33	18 May 2022	Comments	none
F34	18 May 2022	Depth (m)	100
F34	18 May 2022	Arrive Time	922
F34	18 May 2022	Depart Time	933
F34	18 May 2022	Air Temp (C)	15.5
F34	18 May 2022	Weather	Overcast
F34	18 May 2022	Visibility (mi)	10
F34	18 May 2022	Wind Speed (kts)	8.8
F34	18 May 2022	Wind Dir	S
F34	18 May 2022	Water Color	Blue
F34	18 May 2022	Wave Ht Low (ft)	6
F34	18 May 2022	Wave Period (sec)	9
F34	18 May 2022	Sea State	Confused Swell
F34	18 May 2022	High Tide (ft)	6.14
F34	18 May 2022	High Tide Time	612
F34	18 May 2022	Low Tide (ft)	-1.47
F34	18 May 2022	Low Tide Time	1254
F34	18 May 2022	Comments	none
F35	18 May 2022	Depth (m)	99
F35	18 May 2022	Arrive Time	851
F35	18 May 2022	Depart Time	912
F35	18 May 2022	Air Temp (C)	15.3
F35	18 May 2022	Weather	Overcast
F35	18 May 2022	Visibility (mi)	10
F35	18 May 2022	Wind Speed (kts)	14
F35	18 May 2022	Wind Dir	SE
F35	18 May 2022	Water Color	Blue
F35	18 May 2022	Wave Ht Low (ft)	6

Station	Date	Parameter	Value
F35	18 May 2022	Wave Period (sec)	9
F35	18 May 2022	Sea State	Confused Swell
F35	18 May 2022	High Tide (ft)	6.14
F35	18 May 2022	High Tide Time	612
F35	18 May 2022	Low Tide (ft)	-1.47
F35	18 May 2022	Low Tide Time	1254
F35	18 May 2022	Comments	OA 1m Btl# 19383 Nsk# 4;OA 50m Btl# 19384 Nsk# 3;OA 100m Btl# 19385 Nsk# 2;OA 100m-dup Btl# 19386 Nsk# 1
F36	18 May 2022	Depth (m)	98
F36	18 May 2022	Arrive Time	825
F36	18 May 2022	Depart Time	845
F36	18 May 2022	Air Temp (C)	15
F36	18 May 2022	Weather	Overcast
F36	18 May 2022	Visibility (mi)	10
F36	18 May 2022	Wind Speed (kts)	1.4
F36	18 May 2022	Wind Dir	N
F36	18 May 2022	Water Color	Blue
F36	18 May 2022	Wave Ht Low (ft)	6
F36	18 May 2022	Wave Period (sec)	9
F36	18 May 2022	Sea State	Confused Swell
F36	18 May 2022	High Tide (ft)	6.14
F36	18 May 2022	High Tide Time	612
F36	18 May 2022	Low Tide (ft)	-1.47
F36	18 May 2022	Low Tide Time	1254
F36	18 May 2022	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	19 May 2022	1	15.98	52.37	10.1	33.74	8.3	24.8	12.36
F01	19 May 2022	2	15.95	54.12	9.6	33.73	8.3	24.8	11.97
F01	19 May 2022	3	15.94	55.53	9.3	33.74	8.3	24.8	11.88
F01	19 May 2022	4	15.81	57.30	8.8	33.74	8.2	24.8	11.16
F01	19 May 2022	5	15.54	60.56	8.3	33.74	8.2	24.9	9.08
F01	19 May 2022	6	15.42	63.35	8.3	33.73	8.2	24.9	7.69
F01	19 May 2022	7	15.38	64.66	8.5	33.73	8.2	24.9	7.10
F01	19 May 2022	8	15.32	65.96	8.4	33.73	8.2	24.9	7.02
F01	19 May 2022	9	14.56	66.83	7.9	33.75	8.1	25.1	7.08
F01	19 May 2022	10	14.00	67.48	7.5	33.74	8.1	25.2	7.19
F01	19 May 2022	11	13.67	67.19	7.1	33.74	8.1	25.3	6.87
F01	19 May 2022	12	13.03	67.40	6.4	33.75	8.0	25.4	6.19
F01	19 May 2022	13	12.32	70.02	5.8	33.76	7.9	25.6	5.66
F01	19 May 2022	14	12.06	72.16	5.4	33.76	7.9	25.6	5.48
F01	19 May 2022	15	11.69	73.04	5.0	33.77	7.8	25.7	5.01
F01	19 May 2022	16	11.68	74.55	4.8	33.77	7.8	25.7	4.48
F01	19 May 2022	17	11.55	74.61	4.7	33.78	7.8	25.7	4.13
F01	19 May 2022	18	11.51	73.57	4.8	33.78	7.8	25.7	4.07
F01	19 May 2022	19	11.50	72.93	4.5	33.78	7.8	25.7	3.96
F01	19 May 2022	20	11.53	69.70	4.5	33.79	7.8	25.7	3.39
F02	19 May 2022	1	17.64	66.76	8.4	33.74	8.2	24.4	6.41
F02	19 May 2022	2	17.61	66.99	8.5	33.73	8.2	24.4	6.74
F02	19 May 2022	3	17.57	67.17	8.5	33.73	8.2	24.4	7.29
F02	19 May 2022	4	17.51	67.42	8.4	33.73	8.2	24.4	7.95
F02	19 May 2022	5	17.42	65.31	8.3	33.73	8.2	24.4	9.91
F02	19 May 2022	6	17.27	61.00	7.8	33.73	8.2	24.5	12.93
F02	19 May 2022	7	17.13	58.98	7.5	33.73	8.2	24.5	12.92
F02	19 May 2022	8	16.87	62.77	7.5	33.73	8.2	24.6	9.51
F02	19 May 2022	9	16.75	66.31	7.4	33.73	8.2	24.6	7.53
F02	19 May 2022	10	16.54	67.24	7.2	33.73	8.1	24.6	6.50
F02	19 May 2022	11	16.14	68.33	6.8	33.74	8.1	24.7	5.27
F02	19 May 2022	12	15.62	70.67	6.5	33.74	8.1	24.9	4.66
F02	19 May 2022	13	14.84	73.28	6.1	33.74	8.0	25.0	3.87
F02	19 May 2022	14	14.29	74.86	5.5	33.74	8.0	25.2	3.19
F02	19 May 2022	15	13.22	74.67	5.0	33.77	8.0	25.4	2.56
F02	19 May 2022	16	12.78	73.31	4.8	33.77	7.9	25.5	2.36
F02	19 May 2022	17	12.63	71.71	4.7	33.79	7.9	25.5	2.27
F02	19 May 2022	18	12.01	71.74	4.4	33.80	7.8	25.7	2.35
F02	19 May 2022	19	11.94	64.79	4.3	33.80	7.8	25.7	3.04
F03	19 May 2022	1	17.40	73.04	8.5	33.72	8.2	24.4	3.39
F03	19 May 2022	2	17.40	73.10	8.5	33.72	8.2	24.4	3.61
F03	19 May 2022	3	17.39	73.12	8.5	33.72	8.2	24.4	3.78
F03	19 May 2022	4	17.37	73.23	8.4	33.72	8.2	24.4	3.83
F03	19 May 2022	5	17.34	73.01	8.4	33.72	8.2	24.4	4.03
F03	19 May 2022	6	17.30	72.89	8.3	33.71	8.2	24.5	4.25
F03	19 May 2022	7	17.27	72.73	8.3	33.71	8.2	24.5	4.28
F03	19 May 2022	8	17.26	72.77	8.2	33.71	8.2	24.5	4.32
F03	19 May 2022	9	17.18	72.53	8.1	33.72	8.2	24.5	4.36
F03	19 May 2022	10	17.16	72.24	8.0	33.72	8.2	24.5	4.20
F03	19 May 2022	11	17.11	71.96	7.7	33.73	8.2	24.5	4.03
F03	19 May 2022	12	16.42	70.73	7.0	33.76	8.2	24.7	4.60
F03	19 May 2022	13	15.69	67.93	6.3	33.77	8.1	24.9	5.28
F03	19 May 2022	14	14.14	67.48	5.4	33.80	8.1	25.2	4.63
F03	19 May 2022	15	12.91	69.80	4.9	33.79	8.0	25.5	3.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F03	19 May 2022	16	12.52	74.15	4.8	33.77	7.9	25.5	2.55
F03	19 May 2022	17	12.33	76.77	4.7	33.77	7.9	25.6	2.30
F03	19 May 2022	18	12.32	74.76	4.6	33.77	7.9	25.6	2.23
F04	19 May 2022	1	15.99	62.76	9.6	33.76	8.3	24.8	4.34
F04	19 May 2022	2	15.99	63.87	9.6	33.76	8.3	24.8	4.56
F04	19 May 2022	3	15.96	64.23	9.6	33.76	8.3	24.8	5.41
F04	19 May 2022	4	15.93	64.09	9.6	33.76	8.3	24.8	6.78
F04	19 May 2022	5	15.86	63.72	9.4	33.76	8.3	24.8	7.39
F04	19 May 2022	6	15.44	62.06	9.2	33.76	8.3	24.9	10.50
F04	19 May 2022	7	15.29	60.97	8.5	33.75	8.2	24.9	13.19
F04	19 May 2022	8	13.24	55.30	7.4	33.80	8.2	25.4	20.79
F04	19 May 2022	9	12.64	58.12	6.4	33.78	8.1	25.5	19.00
F04	19 May 2022	10	11.92	68.08	5.4	33.78	8.0	25.7	12.26
F04	19 May 2022	11	11.40	76.05	4.9	33.78	7.9	25.8	7.31
F04	19 May 2022	12	11.22	77.64	4.7	33.77	7.9	25.8	5.17
F04	19 May 2022	13	11.11	77.89	4.6	33.78	7.8	25.8	4.49
F04	19 May 2022	14	11.02	78.12	4.6	33.78	7.8	25.8	3.91
F04	19 May 2022	15	10.90	78.99	4.5	33.79	7.8	25.8	3.59
F04	19 May 2022	16	10.90	79.81	4.4	33.79	7.8	25.9	3.23
F04	19 May 2022	17	10.51	80.44	4.2	33.82	7.8	25.9	2.60
F04	19 May 2022	18	10.49	81.01	4.1	33.82	7.8	25.9	2.25
F04	19 May 2022	19	10.42	81.29	4.0	33.83	7.8	26.0	2.11
F04	19 May 2022	20	10.39	81.27	4.0	33.83	7.8	26.0	2.03
F04	19 May 2022	21	10.38	81.29	4.0	33.83	7.8	26.0	1.96
F04	19 May 2022	22	10.38	81.31	4.0	33.84	7.8	26.0	2.04
F04	19 May 2022	23	10.35	81.45	4.0	33.84	7.8	26.0	1.97
F04	19 May 2022	24	10.30	81.50	4.0	33.84	7.8	26.0	1.95
F04	19 May 2022	25	10.24	81.68	3.9	33.86	7.8	26.0	1.88
F04	19 May 2022	26	10.21	81.87	3.9	33.86	7.8	26.0	1.80
F04	19 May 2022	27	10.18	81.98	3.9	33.87	7.8	26.0	1.77
F04	19 May 2022	28	10.17	82.02	3.9	33.87	7.8	26.0	1.75
F04	19 May 2022	29	10.16	82.03	3.9	33.88	7.8	26.0	1.78
F04	19 May 2022	30	10.16	82.04	3.9	33.88	7.8	26.0	1.75
F04	19 May 2022	31	10.16	82.04	3.9	33.88	7.8	26.0	1.71
F04	19 May 2022	32	10.15	81.99	3.9	33.88	7.8	26.1	1.72
F04	19 May 2022	33	10.14	82.08	3.9	33.88	7.8	26.1	1.72
F04	19 May 2022	34	10.13	82.14	3.9	33.89	7.8	26.1	1.70
F04	19 May 2022	35	10.10	82.09	3.8	33.89	7.8	26.1	1.69
F04	19 May 2022	36	10.08	81.74	3.8	33.90	7.8	26.1	1.76
F04	19 May 2022	37	10.08	81.89	3.8	33.91	7.8	26.1	1.69
F04	19 May 2022	38	10.08	81.82	3.8	33.91	7.8	26.1	1.70
F04	19 May 2022	39	10.08	81.69	3.8	33.91	7.8	26.1	1.70
F04	19 May 2022	40	10.07	81.58	3.7	33.91	7.8	26.1	1.69
F04	19 May 2022	41	10.07	81.59	3.7	33.91	7.8	26.1	1.71
F04	19 May 2022	42	10.07	81.54	3.7	33.91	7.8	26.1	1.70
F04	19 May 2022	43	10.07	81.55	3.7	33.91	7.8	26.1	1.70
F04	19 May 2022	44	10.06	81.63	3.7	33.91	7.8	26.1	1.69
F04	19 May 2022	45	10.06	81.57	3.7	33.91	7.8	26.1	1.68
F04	19 May 2022	46	10.06	81.67	3.7	33.91	7.8	26.1	1.69
F04	19 May 2022	47	10.04	81.74	3.7	33.91	7.8	26.1	1.65
F04	19 May 2022	48	10.02	81.96	3.7	33.92	7.8	26.1	1.64
F04	19 May 2022	49	9.99	82.09	3.7	33.93	7.8	26.1	1.63
F04	19 May 2022	50	9.98	82.08	3.7	33.94	7.8	26.1	1.63
F04	19 May 2022	51	9.97	82.10	3.7	33.94	7.8	26.1	1.62
F04	19 May 2022	52	9.97	82.01	3.7	33.95	7.8	26.1	1.61
F04	19 May 2022	53	9.97	82.01	3.6	33.95	7.8	26.1	1.63
F04	19 May 2022	54	9.97	81.96	3.6	33.95	7.8	26.1	1.65
F04	19 May 2022	55	9.96	81.87	3.6	33.95	7.8	26.1	1.62
F04	19 May 2022	56	9.95	81.77	3.6	33.96	7.8	26.1	1.65
F04	19 May 2022	57	9.96	81.78	3.6	33.95	7.8	26.1	1.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F04	19 May 2022	58	9.95	81.71	3.6	33.96	7.8	26.1	1.54
F04	19 May 2022	59	9.95	81.71	3.5	33.96	7.8	26.1	1.56
F04	19 May 2022	60	9.95	81.64	3.5	33.96	7.8	26.1	1.58
F04	19 May 2022	61	9.94	81.50	3.5	33.97	7.8	26.2	1.54
F04	19 May 2022	62	9.94	81.16	3.4	33.97	7.8	26.2	1.55
F05	19 May 2022	1	16.12	64.53	9.5	33.75	8.3	24.8	4.80
F05	19 May 2022	2	16.05	64.60	9.4	33.75	8.3	24.8	6.03
F05	19 May 2022	3	15.56	64.01	9.4	33.74	8.3	24.9	8.00
F05	19 May 2022	4	14.92	61.90	9.1	33.73	8.2	25.0	9.78
F05	19 May 2022	5	14.41	61.66	8.5	33.72	8.2	25.1	11.18
F05	19 May 2022	6	13.20	61.49	7.6	33.73	8.2	25.4	13.76
F05	19 May 2022	7	11.89	60.36	6.0	33.74	8.0	25.6	12.11
F05	19 May 2022	8	11.29	65.34	4.8	33.72	7.9	25.7	6.80
F05	19 May 2022	9	11.04	74.44	4.5	33.73	7.8	25.8	4.62
F05	19 May 2022	10	10.92	77.87	4.4	33.74	7.8	25.8	3.54
F05	19 May 2022	11	10.74	79.09	4.3	33.75	7.8	25.8	3.24
F05	19 May 2022	12	10.63	80.11	4.3	33.75	7.8	25.9	2.71
F05	19 May 2022	13	10.55	80.52	4.3	33.77	7.8	25.9	2.46
F05	19 May 2022	14	10.65	79.98	4.3	33.77	7.8	25.9	2.57
F05	19 May 2022	15	10.51	80.59	4.2	33.78	7.8	25.9	2.46
F05	19 May 2022	16	10.46	80.91	4.2	33.79	7.8	25.9	2.31
F05	19 May 2022	17	10.42	80.97	4.2	33.80	7.8	25.9	2.24
F05	19 May 2022	18	10.37	81.23	4.1	33.81	7.8	26.0	2.14
F05	19 May 2022	19	10.36	81.48	4.1	33.82	7.8	26.0	2.08
F05	19 May 2022	20	10.36	81.54	4.0	33.82	7.8	26.0	2.07
F05	19 May 2022	21	10.36	81.54	4.0	33.82	7.8	26.0	2.13
F05	19 May 2022	22	10.35	81.47	4.0	33.82	7.8	26.0	2.13
F05	19 May 2022	23	10.32	81.54	4.0	33.83	7.8	26.0	2.15
F05	19 May 2022	24	10.31	81.35	4.0	33.84	7.8	26.0	2.11
F05	19 May 2022	25	10.29	81.25	4.0	33.84	7.8	26.0	2.11
F05	19 May 2022	26	10.27	81.30	4.0	33.85	7.8	26.0	2.28
F05	19 May 2022	27	10.27	81.26	4.0	33.85	7.8	26.0	2.24
F05	19 May 2022	28	10.26	81.00	3.9	33.85	7.8	26.0	2.23
F05	19 May 2022	29	10.27	80.72	3.9	33.86	7.8	26.0	2.24
F05	19 May 2022	30	10.27	80.84	3.9	33.86	7.8	26.0	2.21
F05	19 May 2022	31	10.26	80.40	3.9	33.86	7.8	26.0	2.23
F05	19 May 2022	32	10.27	80.37	3.9	33.86	7.8	26.0	2.24
F05	19 May 2022	33	10.27	80.23	3.9	33.86	7.8	26.0	2.19
F05	19 May 2022	34	10.27	80.15	3.9	33.86	7.8	26.0	2.22
F05	19 May 2022	35	10.27	80.17	3.9	33.86	7.8	26.0	2.22
F05	19 May 2022	36	10.26	80.19	3.9	33.86	7.8	26.0	2.21
F05	19 May 2022	37	10.26	80.33	3.9	33.86	7.8	26.0	2.21
F05	19 May 2022	38	10.26	80.49	3.9	33.86	7.8	26.0	2.22
F05	19 May 2022	39	10.26	80.42	3.9	33.85	7.8	26.0	2.21
F05	19 May 2022	40	10.26	80.56	3.9	33.85	7.8	26.0	2.25
F05	19 May 2022	41	10.26	80.40	3.9	33.86	7.8	26.0	2.21
F05	19 May 2022	42	10.27	80.44	3.9	33.86	7.8	26.0	2.23
F05	19 May 2022	43	10.28	80.15	3.8	33.86	7.8	26.0	2.23
F05	19 May 2022	44	10.27	80.00	3.8	33.86	7.8	26.0	2.24
F05	19 May 2022	45	10.27	80.02	3.8	33.86	7.8	26.0	2.23
F05	19 May 2022	46	10.28	80.10	3.8	33.86	7.8	26.0	2.28
F05	19 May 2022	47	10.28	80.06	3.8	33.86	7.8	26.0	2.27
F05	19 May 2022	48	10.27	80.07	3.8	33.86	7.8	26.0	2.23
F05	19 May 2022	49	10.28	80.12	3.8	33.86	7.8	26.0	2.23
F05	19 May 2022	50	10.28	80.06	3.8	33.86	7.8	26.0	2.22
F05	19 May 2022	51	10.29	79.86	3.8	33.86	7.8	26.0	2.17
F05	19 May 2022	52	10.31	79.57	3.7	33.87	7.8	26.0	2.19
F05	19 May 2022	53	10.31	79.62	3.7	33.87	7.8	26.0	2.17
F05	19 May 2022	54	10.30	78.84	3.6	33.89	7.8	26.0	2.13
F05	19 May 2022	55	10.30	78.65	3.5	33.89	7.7	26.0	2.08

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F05	19 May 2022	56	10.29	78.48	3.5	33.89	7.7	26.0	2.04
F05	19 May 2022	57	10.23	77.87	3.4	33.91	7.7	26.1	2.04
F05	19 May 2022	58	10.19	77.97	3.4	33.92	7.7	26.1	1.89
F05	19 May 2022	59	10.18	77.48	3.3	33.93	7.7	26.1	1.86
F05	19 May 2022	60	10.18	76.99	3.3	33.92	7.7	26.1	1.87
F05	19 May 2022	61	10.17	76.99	3.3	33.93	7.7	26.1	1.81
F05	19 May 2022	62	10.16	76.95	3.3	33.94	7.7	26.1	1.81
F06	19 May 2022	1	16.82	53.46	8.7	33.79	8.2	24.6	11.37
F06	19 May 2022	2	16.78	53.53	8.6	33.79	8.2	24.6	12.75
F06	19 May 2022	3	16.72	53.52	8.5	33.79	8.2	24.6	13.81
F06	19 May 2022	4	16.55	53.64	8.3	33.78	8.2	24.7	13.74
F06	19 May 2022	5	16.32	55.72	8.2	33.78	8.2	24.7	12.39
F06	19 May 2022	6	16.11	59.01	8.1	33.77	8.2	24.8	11.11
F06	19 May 2022	7	15.81	61.96	8.0	33.76	8.2	24.8	9.64
F06	19 May 2022	8	15.46	64.11	7.7	33.75	8.2	24.9	8.51
F06	19 May 2022	9	14.78	66.15	7.5	33.76	8.1	25.1	8.08
F06	19 May 2022	10	14.51	67.30	7.2	33.74	8.1	25.1	7.49
F06	19 May 2022	11	14.11	68.17	6.7	33.74	8.1	25.2	6.84
F06	19 May 2022	12	12.58	70.71	5.8	33.77	8.0	25.5	6.22
F06	19 May 2022	13	11.79	73.02	5.0	33.78	7.9	25.7	5.17
F06	19 May 2022	14	11.38	74.88	4.5	33.78	7.8	25.8	4.23
F06	19 May 2022	15	11.23	75.25	4.3	33.78	7.8	25.8	4.09
F06	19 May 2022	16	11.21	75.85	4.3	33.79	7.8	25.8	3.76
F06	19 May 2022	17	11.17	75.92	4.2	33.79	7.8	25.8	3.39
F06	19 May 2022	18	11.11	75.77	4.2	33.80	7.8	25.8	3.59
F06	19 May 2022	19	11.05	76.11	4.2	33.81	7.8	25.8	3.49
F06	19 May 2022	20	10.96	76.60	4.1	33.81	7.8	25.9	3.26
F06	19 May 2022	21	10.90	76.58	4.0	33.82	7.8	25.9	3.19
F06	19 May 2022	22	10.88	76.77	4.0	33.82	7.8	25.9	3.41
F06	19 May 2022	23	10.87	77.14	3.9	33.83	7.8	25.9	3.40
F06	19 May 2022	24	10.86	77.21	3.9	33.83	7.8	25.9	3.18
F06	19 May 2022	25	10.84	77.07	3.9	33.83	7.8	25.9	3.17
F06	19 May 2022	26	10.84	77.34	3.9	33.83	7.8	25.9	3.32
F06	19 May 2022	27	10.83	77.37	3.9	33.83	7.8	25.9	3.42
F06	19 May 2022	28	10.83	77.33	3.9	33.84	7.8	25.9	3.19
F06	19 May 2022	29	10.82	77.30	3.9	33.83	7.8	25.9	3.35
F06	19 May 2022	30	10.82	77.26	3.9	33.84	7.8	25.9	3.28
F06	19 May 2022	31	10.82	77.19	3.9	33.84	7.8	25.9	3.20
F06	19 May 2022	32	10.82	77.55	3.9	33.84	7.8	25.9	3.25
F06	19 May 2022	33	10.81	77.26	3.9	33.84	7.8	25.9	3.13
F06	19 May 2022	34	10.79	77.04	3.9	33.84	7.8	25.9	3.27
F06	19 May 2022	35	10.80	77.04	3.9	33.84	7.8	25.9	3.33
F06	19 May 2022	36	10.80	76.85	3.9	33.84	7.8	25.9	3.32
F06	19 May 2022	37	10.80	76.74	3.8	33.84	7.8	25.9	3.75
F06	19 May 2022	38	10.80	76.95	3.8	33.84	7.8	25.9	3.49
F06	19 May 2022	39	10.78	77.22	3.8	33.84	7.8	25.9	3.39
F06	19 May 2022	40	10.75	77.55	3.8	33.84	7.8	25.9	3.28
F06	19 May 2022	41	10.71	78.07	3.8	33.84	7.8	25.9	3.02
F06	19 May 2022	42	10.70	77.71	3.7	33.85	7.8	25.9	2.96
F06	19 May 2022	43	10.70	77.31	3.7	33.85	7.8	25.9	3.03
F06	19 May 2022	44	10.69	77.51	3.7	33.85	7.8	25.9	2.98
F06	19 May 2022	45	10.69	77.66	3.7	33.86	7.8	25.9	2.89
F06	19 May 2022	46	10.68	78.12	3.7	33.86	7.8	25.9	3.08
F06	19 May 2022	47	10.67	77.97	3.7	33.86	7.8	25.9	3.02
F06	19 May 2022	48	10.67	77.95	3.7	33.86	7.8	25.9	3.05
F06	19 May 2022	49	10.65	77.79	3.6	33.86	7.8	25.9	2.83
F06	19 May 2022	50	10.63	77.76	3.6	33.86	7.8	26.0	2.78
F06	19 May 2022	51	10.63	78.11	3.6	33.86	7.8	26.0	2.94
F06	19 May 2022	52	10.63	77.72	3.6	33.86	7.8	26.0	2.83
F06	19 May 2022	53	10.63	77.55	3.6	33.86	7.8	26.0	3.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F06	19 May 2022	54	10.63	76.64	3.7	33.86	7.8	26.0	3.03
F06	19 May 2022	55	10.61	77.72	3.7	33.87	7.8	26.0	2.96
F06	19 May 2022	56	10.56	72.07	3.7	33.87	7.8	26.0	3.25
F06	19 May 2022	57	10.56	75.18	3.7	33.87	7.8	26.0	3.17
F06	19 May 2022	58	10.54	78.25	3.6	33.87	7.8	26.0	2.87
F06	19 May 2022	59	10.52	78.00	3.6	33.87	7.8	26.0	2.70
F06	19 May 2022	60	10.48	78.53	3.6	33.88	7.8	26.0	2.65
F06	19 May 2022	61	10.37	78.14	3.6	33.89	7.8	26.0	2.48
F06	19 May 2022	62	10.35	76.92	3.5	33.89	7.8	26.0	2.36
F07	19 May 2022	1	17.31	69.03	8.7	33.71	8.3	24.5	5.73
F07	19 May 2022	2	17.30	68.34	8.6	33.72	8.3	24.5	6.54
F07	19 May 2022	3	17.09	68.31	8.5	33.72	8.3	24.5	7.59
F07	19 May 2022	4	16.70	68.44	8.4	33.72	8.2	24.6	8.10
F07	19 May 2022	5	16.41	67.84	8.6	33.73	8.2	24.7	8.59
F07	19 May 2022	6	16.39	66.56	8.8	33.73	8.2	24.7	8.82
F07	19 May 2022	7	16.27	65.66	8.9	33.73	8.2	24.7	8.98
F07	19 May 2022	8	16.24	65.62	8.8	33.73	8.2	24.7	8.10
F07	19 May 2022	9	15.95	66.21	8.7	33.74	8.2	24.8	7.60
F07	19 May 2022	10	15.74	66.94	8.4	33.74	8.2	24.8	7.38
F07	19 May 2022	11	15.26	67.08	7.9	33.74	8.2	24.9	7.26
F07	19 May 2022	12	14.25	67.25	7.3	33.75	8.1	25.2	6.76
F07	19 May 2022	13	13.97	69.11	6.6	33.73	8.1	25.2	6.50
F07	19 May 2022	14	13.03	72.12	5.5	33.74	8.0	25.4	4.92
F07	19 May 2022	15	12.01	76.91	4.9	33.74	7.9	25.6	3.91
F07	19 May 2022	16	11.61	78.63	4.7	33.72	7.9	25.7	3.45
F07	19 May 2022	17	11.46	79.52	4.6	33.73	7.8	25.7	2.90
F07	19 May 2022	18	11.03	80.12	4.6	33.73	7.8	25.8	2.78
F07	19 May 2022	19	10.86	80.50	4.6	33.74	7.8	25.8	2.68
F07	19 May 2022	20	10.83	80.72	4.5	33.74	7.8	25.8	2.64
F07	19 May 2022	21	10.78	80.84	4.5	33.75	7.8	25.8	2.59
F07	19 May 2022	22	10.77	80.98	4.5	33.76	7.8	25.8	2.60
F07	19 May 2022	23	10.77	81.05	4.4	33.76	7.8	25.9	2.54
F07	19 May 2022	24	10.72	81.09	4.4	33.77	7.8	25.9	2.51
F07	19 May 2022	25	10.71	80.93	4.3	33.77	7.8	25.9	2.47
F07	19 May 2022	26	10.64	80.88	4.3	33.78	7.8	25.9	2.42
F07	19 May 2022	27	10.59	81.18	4.2	33.79	7.8	25.9	2.34
F07	19 May 2022	28	10.57	81.35	4.2	33.80	7.8	25.9	2.29
F07	19 May 2022	29	10.55	81.50	4.1	33.80	7.8	25.9	2.27
F07	19 May 2022	30	10.52	81.48	4.1	33.80	7.8	25.9	2.24
F07	19 May 2022	31	10.50	81.47	4.1	33.81	7.8	25.9	2.23
F07	19 May 2022	32	10.48	81.44	4.0	33.81	7.8	25.9	2.25
F07	19 May 2022	33	10.47	81.18	4.0	33.83	7.8	26.0	2.35
F07	19 May 2022	34	10.42	80.90	3.9	33.84	7.8	26.0	2.39
F07	19 May 2022	35	10.44	80.59	3.8	33.86	7.8	26.0	2.42
F07	19 May 2022	36	10.47	80.28	3.7	33.88	7.8	26.0	2.49
F07	19 May 2022	37	10.45	79.75	3.7	33.88	7.8	26.0	2.56
F07	19 May 2022	38	10.42	80.08	3.7	33.88	7.8	26.0	2.46
F07	19 May 2022	39	10.36	80.60	3.7	33.88	7.8	26.0	2.40
F07	19 May 2022	40	10.42	79.94	3.6	33.89	7.8	26.0	2.49
F07	19 May 2022	41	10.40	79.75	3.6	33.90	7.8	26.0	2.54
F07	19 May 2022	42	10.38	79.72	3.6	33.89	7.8	26.0	2.51
F07	19 May 2022	43	10.35	79.89	3.6	33.90	7.8	26.0	2.47
F07	19 May 2022	44	10.35	80.22	3.6	33.90	7.8	26.0	2.43
F07	19 May 2022	45	10.35	80.07	3.6	33.90	7.8	26.0	2.40
F07	19 May 2022	46	10.35	80.05	3.6	33.90	7.8	26.0	2.42
F07	19 May 2022	47	10.35	80.00	3.5	33.90	7.8	26.0	2.46
F07	19 May 2022	48	10.35	79.99	3.5	33.90	7.8	26.0	2.62
F07	19 May 2022	49	10.35	79.92	3.5	33.90	7.8	26.0	2.50
F07	19 May 2022	50	10.35	79.89	3.5	33.90	7.8	26.0	2.43
F07	19 May 2022	51	10.35	79.75	3.5	33.90	7.8	26.0	2.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F07	19 May 2022	52	10.35	79.76	3.5	33.90	7.8	26.0	2.37
F07	19 May 2022	53	10.35	79.78	3.5	33.90	7.8	26.0	2.51
F07	19 May 2022	54	10.35	79.78	3.5	33.90	7.8	26.0	2.39
F07	19 May 2022	55	10.35	79.86	3.5	33.90	7.8	26.0	2.40
F07	19 May 2022	56	10.35	79.79	3.5	33.90	7.8	26.0	2.38
F07	19 May 2022	57	10.35	79.79	3.5	33.90	7.8	26.0	2.38
F07	19 May 2022	58	10.34	79.67	3.5	33.90	7.8	26.0	2.43
F07	19 May 2022	59	10.35	79.59	3.5	33.90	7.8	26.0	2.36
F07	19 May 2022	60	10.35	79.85	3.5	33.90	7.8	26.0	2.34
F07	19 May 2022	61	10.34	79.68	3.5	33.90	7.8	26.0	2.35
F07	19 May 2022	62	10.34	79.52	3.5	33.90	7.8	26.0	2.39
F07	19 May 2022	63	10.34	79.64	3.5	33.90	7.8	26.0	2.39
F07	19 May 2022	64	10.33	79.00	3.5	33.90	7.8	26.0	2.33
F07	19 May 2022	65	10.34	77.78	3.5	33.90	7.8	26.0	2.36
F08	19 May 2022	1	17.31	68.24	8.6	33.72	8.3	24.5	6.86
F08	19 May 2022	2	17.31	68.40	8.6	33.72	8.3	24.5	7.05
F08	19 May 2022	3	17.31	68.43	8.6	33.72	8.3	24.5	7.71
F08	19 May 2022	4	17.31	68.27	8.6	33.72	8.3	24.5	8.59
F08	19 May 2022	5	17.25	67.15	8.5	33.72	8.3	24.5	9.70
F08	19 May 2022	6	17.19	66.60	8.4	33.72	8.3	24.5	9.97
F08	19 May 2022	7	17.19	66.75	8.3	33.72	8.3	24.5	10.19
F08	19 May 2022	8	16.91	68.58	7.9	33.72	8.2	24.6	8.89
F08	19 May 2022	9	16.53	71.81	7.5	33.73	8.2	24.6	7.04
F08	19 May 2022	10	15.81	73.04	6.9	33.74	8.2	24.8	6.25
F08	19 May 2022	11	15.04	73.10	6.4	33.73	8.1	25.0	5.63
F08	19 May 2022	12	14.36	74.33	6.1	33.72	8.1	25.1	4.88
F08	19 May 2022	13	14.13	75.28	5.9	33.72	8.0	25.2	4.49
F08	19 May 2022	14	13.41	76.47	5.5	33.73	8.0	25.3	3.95
F08	19 May 2022	15	12.77	76.82	5.3	33.73	8.0	25.5	3.81
F08	19 May 2022	16	12.61	77.29	5.2	33.73	7.9	25.5	3.71
F08	19 May 2022	17	12.34	77.58	5.0	33.74	7.9	25.5	3.57
F08	19 May 2022	18	12.11	77.68	4.9	33.74	7.9	25.6	3.51
F08	19 May 2022	19	11.66	78.27	4.6	33.75	7.9	25.7	3.19
F08	19 May 2022	20	11.45	79.09	4.5	33.75	7.8	25.7	2.89
F08	19 May 2022	21	11.41	79.68	4.4	33.75	7.8	25.7	2.82
F08	19 May 2022	22	11.17	79.90	4.4	33.76	7.8	25.8	2.72
F08	19 May 2022	23	11.01	80.20	4.3	33.77	7.8	25.8	2.65
F08	19 May 2022	24	10.92	80.56	4.2	33.78	7.8	25.8	2.63
F08	19 May 2022	25	10.87	80.58	4.2	33.78	7.8	25.9	2.62
F08	19 May 2022	26	10.79	80.62	4.2	33.79	7.8	25.9	2.54
F08	19 May 2022	27	10.72	80.95	4.2	33.79	7.8	25.9	2.47
F08	19 May 2022	28	10.68	81.01	4.2	33.79	7.8	25.9	2.45
F08	19 May 2022	29	10.66	81.06	4.1	33.80	7.8	25.9	2.39
F08	19 May 2022	30	10.61	81.21	4.1	33.81	7.8	25.9	2.43
F08	19 May 2022	31	10.59	81.19	4.1	33.81	7.8	25.9	2.36
F08	19 May 2022	32	10.56	81.35	4.0	33.81	7.8	25.9	2.43
F08	19 May 2022	33	10.52	81.39	4.0	33.82	7.8	25.9	2.23
F08	19 May 2022	34	10.52	81.47	4.0	33.82	7.8	25.9	2.22
F08	19 May 2022	35	10.40	81.62	4.0	33.83	7.8	26.0	2.15
F08	19 May 2022	36	10.32	81.74	4.0	33.84	7.8	26.0	2.10
F08	19 May 2022	37	10.29	81.77	4.0	33.84	7.8	26.0	2.06
F08	19 May 2022	38	10.24	81.87	3.9	33.85	7.8	26.0	2.02
F08	19 May 2022	39	10.22	81.83	3.9	33.85	7.8	26.0	2.00
F08	19 May 2022	40	10.22	81.72	3.8	33.86	7.8	26.0	2.00
F08	19 May 2022	41	10.23	81.56	3.8	33.87	7.8	26.0	2.03
F08	19 May 2022	42	10.26	81.47	3.7	33.88	7.8	26.0	2.10
F08	19 May 2022	43	10.31	80.95	3.6	33.91	7.8	26.0	2.18
F08	19 May 2022	44	10.29	80.84	3.6	33.91	7.8	26.1	2.23
F08	19 May 2022	45	10.29	80.92	3.6	33.91	7.8	26.1	2.24
F08	19 May 2022	46	10.27	80.88	3.6	33.91	7.8	26.1	2.25

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F08	19 May 2022	47	10.27	80.90	3.6	33.91	7.8	26.1	2.20
F08	19 May 2022	48	10.27	80.88	3.6	33.91	7.8	26.1	2.19
F08	19 May 2022	49	10.27	80.68	3.6	33.91	7.8	26.1	2.22
F08	19 May 2022	50	10.28	80.73	3.5	33.91	7.8	26.1	2.23
F08	19 May 2022	51	10.28	80.78	3.5	33.91	7.8	26.1	2.23
F08	19 May 2022	52	10.29	80.66	3.5	33.91	7.8	26.1	2.24
F08	19 May 2022	53	10.29	80.61	3.5	33.91	7.8	26.1	2.24
F08	19 May 2022	54	10.31	80.18	3.4	33.92	7.8	26.1	2.24
F08	19 May 2022	55	10.29	78.75	3.4	33.93	7.7	26.1	2.24
F08	19 May 2022	56	10.28	77.90	3.3	33.93	7.7	26.1	2.21
F08	19 May 2022	57	10.26	77.37	3.3	33.94	7.7	26.1	2.19
F08	19 May 2022	58	10.25	77.25	3.3	33.94	7.7	26.1	2.16
F08	19 May 2022	59	10.23	76.98	3.2	33.94	7.7	26.1	2.10
F08	19 May 2022	60	10.24	76.95	3.2	33.94	7.7	26.1	2.16
F08	19 May 2022	61	10.23	76.82	3.3	33.94	7.7	26.1	2.12
F08	19 May 2022	62	10.23	76.44	3.2	33.94	7.7	26.1	2.10
F09	19 May 2022	1	17.36	67.92	8.5	33.72	8.3	24.4	7.91
F09	19 May 2022	2	17.36	67.81	8.5	33.72	8.3	24.4	8.35
F09	19 May 2022	3	17.35	68.04	8.5	33.72	8.3	24.4	8.94
F09	19 May 2022	4	17.35	67.96	8.4	33.72	8.3	24.4	9.37
F09	19 May 2022	5	17.33	68.19	8.3	33.72	8.3	24.4	9.68
F09	19 May 2022	6	16.97	67.59	8.0	33.72	8.2	24.5	9.30
F09	19 May 2022	7	16.90	68.38	7.9	33.72	8.2	24.6	9.02
F09	19 May 2022	8	16.56	69.23	7.3	33.73	8.2	24.6	8.65
F09	19 May 2022	9	15.58	70.51	6.8	33.75	8.1	24.9	7.59
F09	19 May 2022	10	15.37	72.45	6.6	33.73	8.1	24.9	6.42
F09	19 May 2022	11	14.93	74.80	6.4	33.75	8.1	25.0	4.73
F09	19 May 2022	12	14.34	75.18	6.1	33.76	8.1	25.2	4.12
F09	19 May 2022	13	13.82	76.17	5.8	33.75	8.0	25.3	3.75
F09	19 May 2022	14	13.58	76.99	5.5	33.73	8.0	25.3	3.58
F09	19 May 2022	15	12.82	77.97	5.2	33.75	8.0	25.5	3.32
F09	19 May 2022	16	12.11	77.87	5.1	33.76	7.9	25.6	3.27
F09	19 May 2022	17	12.45	78.68	4.9	33.73	7.9	25.5	3.15
F09	19 May 2022	18	11.51	79.24	4.5	33.77	7.9	25.7	2.80
F09	19 May 2022	19	11.43	79.71	4.4	33.76	7.8	25.7	2.67
F09	19 May 2022	20	11.25	79.55	4.3	33.76	7.8	25.8	2.60
F09	19 May 2022	21	11.21	79.83	4.3	33.76	7.8	25.8	2.57
F09	19 May 2022	22	10.98	80.38	4.3	33.78	7.8	25.8	2.50
F09	19 May 2022	23	10.91	80.52	4.2	33.78	7.8	25.8	2.45
F09	19 May 2022	24	10.79	80.54	4.2	33.80	7.8	25.9	2.41
F09	19 May 2022	25	10.82	80.80	4.2	33.79	7.8	25.9	2.41
F09	19 May 2022	26	10.66	80.99	4.1	33.80	7.8	25.9	2.33
F09	19 May 2022	27	10.61	81.04	4.1	33.81	7.8	25.9	2.27
F09	19 May 2022	28	10.60	81.27	4.0	33.81	7.8	25.9	2.22
F09	19 May 2022	29	10.53	81.33	4.0	33.82	7.8	25.9	2.13
F09	19 May 2022	30	10.47	81.27	4.0	33.83	7.8	26.0	2.12
F09	19 May 2022	31	10.44	81.35	4.0	33.83	7.8	26.0	2.09
F09	19 May 2022	32	10.46	81.51	4.0	33.83	7.8	26.0	2.08
F09	19 May 2022	33	10.43	81.52	4.0	33.83	7.8	26.0	2.09
F09	19 May 2022	34	10.42	81.53	4.0	33.83	7.8	26.0	2.05
F09	19 May 2022	35	10.38	81.50	3.9	33.84	7.8	26.0	2.02
F09	19 May 2022	36	10.32	81.65	3.9	33.84	7.8	26.0	1.99
F09	19 May 2022	37	10.30	81.67	3.9	33.85	7.8	26.0	1.98
F09	19 May 2022	38	10.31	81.56	3.9	33.85	7.8	26.0	1.97
F09	19 May 2022	39	10.28	81.37	3.8	33.86	7.8	26.0	1.98
F09	19 May 2022	40	10.30	81.46	3.8	33.87	7.8	26.0	2.08
F09	19 May 2022	41	10.32	81.39	3.7	33.88	7.8	26.0	2.07
F09	19 May 2022	42	10.35	81.04	3.7	33.90	7.8	26.0	2.17
F09	19 May 2022	43	10.34	80.77	3.6	33.89	7.8	26.0	2.20
F09	19 May 2022	44	10.30	80.66	3.6	33.91	7.8	26.1	2.15

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F09	19 May 2022	45	10.29	80.62	3.5	33.91	7.8	26.1	2.12
F09	19 May 2022	46	10.29	80.59	3.5	33.91	7.8	26.1	2.13
F09	19 May 2022	47	10.29	80.52	3.5	33.91	7.8	26.1	2.11
F09	19 May 2022	48	10.29	80.43	3.5	33.92	7.8	26.1	2.10
F09	19 May 2022	49	10.29	80.44	3.5	33.92	7.8	26.1	2.12
F09	19 May 2022	50	10.30	80.56	3.5	33.92	7.8	26.1	2.13
F09	19 May 2022	51	10.29	80.60	3.5	33.92	7.8	26.1	2.11
F09	19 May 2022	52	10.30	80.66	3.5	33.92	7.8	26.1	2.11
F09	19 May 2022	53	10.31	80.15	3.4	33.93	7.8	26.1	2.14
F09	19 May 2022	54	10.30	79.58	3.4	33.93	7.7	26.1	2.15
F09	19 May 2022	55	10.30	79.43	3.4	33.94	7.7	26.1	2.10
F09	19 May 2022	56	10.30	79.45	3.4	33.93	7.7	26.1	2.11
F09	19 May 2022	57	10.29	79.42	3.3	33.94	7.7	26.1	2.10
F09	19 May 2022	58	10.28	79.25	3.3	33.94	7.7	26.1	2.04
F09	19 May 2022	59	10.28	79.16	3.3	33.94	7.7	26.1	2.01
F09	19 May 2022	60	10.26	79.07	3.3	33.94	7.7	26.1	2.05
F09	19 May 2022	61	10.22	77.81	3.2	33.95	7.7	26.1	2.05
F09	19 May 2022	62	10.23	76.82	3.2	33.95	7.7	26.1	2.04
F10	19 May 2022	1	17.18	75.85	8.2	33.68	8.2	24.5	2.80
F10	19 May 2022	2	17.18	75.82	8.2	33.68	8.2	24.5	2.85
F10	19 May 2022	3	17.18	75.65	8.2	33.68	8.2	24.5	2.91
F10	19 May 2022	4	17.17	75.90	8.2	33.68	8.2	24.5	3.09
F10	19 May 2022	5	17.17	75.78	8.2	33.68	8.2	24.5	3.11
F10	19 May 2022	6	17.17	75.76	8.1	33.68	8.2	24.5	3.04
F10	19 May 2022	7	17.12	75.90	8.0	33.67	8.2	24.5	3.20
F10	19 May 2022	8	16.82	75.70	7.8	33.68	8.2	24.5	4.09
F10	19 May 2022	9	16.29	74.63	7.3	33.69	8.2	24.7	4.51
F10	19 May 2022	10	15.71	75.11	6.9	33.70	8.1	24.8	4.31
F10	19 May 2022	11	15.14	75.35	6.3	33.72	8.1	25.0	3.95
F10	19 May 2022	12	14.18	76.17	5.7	33.73	8.1	25.2	3.60
F10	19 May 2022	13	13.39	76.68	5.4	33.74	8.0	25.3	3.32
F10	19 May 2022	14	12.97	77.35	5.2	33.74	8.0	25.4	2.96
F10	19 May 2022	15	12.73	77.34	5.1	33.74	7.9	25.5	2.66
F10	19 May 2022	16	12.28	78.42	4.9	33.74	7.9	25.6	2.53
F10	19 May 2022	17	11.96	78.77	4.7	33.74	7.9	25.6	2.37
F10	19 May 2022	18	11.64	79.23	4.5	33.74	7.9	25.7	2.33
F10	19 May 2022	19	11.48	79.49	4.4	33.75	7.8	25.7	2.21
F10	19 May 2022	20	11.34	79.69	4.3	33.75	7.8	25.7	2.19
F10	19 May 2022	21	11.22	79.80	4.2	33.76	7.8	25.8	2.15
F10	19 May 2022	22	11.07	80.00	4.2	33.77	7.8	25.8	2.09
F10	19 May 2022	23	10.90	80.44	4.2	33.78	7.8	25.8	1.98
F10	19 May 2022	24	10.87	80.59	4.2	33.78	7.8	25.9	1.92
F10	19 May 2022	25	10.76	80.69	4.2	33.78	7.8	25.9	1.87
F10	19 May 2022	26	10.70	80.77	4.2	33.79	7.8	25.9	1.88
F10	19 May 2022	27	10.66	81.00	4.1	33.79	7.8	25.9	1.79
F10	19 May 2022	28	10.51	81.12	4.0	33.82	7.8	25.9	1.72
F10	19 May 2022	29	10.45	81.25	4.0	33.83	7.8	26.0	1.65
F10	19 May 2022	30	10.45	81.28	4.0	33.83	7.8	26.0	1.58
F10	19 May 2022	31	10.43	81.41	3.9	33.84	7.8	26.0	1.55
F10	19 May 2022	32	10.41	81.54	3.9	33.84	7.8	26.0	1.53
F10	19 May 2022	33	10.39	81.48	3.9	33.85	7.8	26.0	1.50
F10	19 May 2022	34	10.37	81.52	3.9	33.85	7.8	26.0	1.48
F10	19 May 2022	35	10.32	81.71	3.9	33.85	7.8	26.0	1.47
F10	19 May 2022	36	10.22	81.82	3.9	33.86	7.8	26.0	1.41
F10	19 May 2022	37	10.19	81.92	3.9	33.87	7.8	26.0	1.37
F10	19 May 2022	38	10.17	82.03	3.9	33.87	7.8	26.0	1.34
F10	19 May 2022	39	10.14	82.15	3.9	33.87	7.8	26.0	1.39
F10	19 May 2022	40	10.14	82.04	3.9	33.88	7.8	26.1	1.33
F10	19 May 2022	41	10.15	81.99	3.8	33.88	7.8	26.1	1.33
F10	19 May 2022	42	10.16	81.88	3.7	33.89	7.8	26.1	1.35

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F10	19 May 2022	43	10.20	81.66	3.6	33.91	7.8	26.1	1.43
F10	19 May 2022	44	10.22	81.46	3.5	33.92	7.8	26.1	1.48
F10	19 May 2022	45	10.21	81.20	3.5	33.92	7.8	26.1	1.56
F10	19 May 2022	46	10.21	81.08	3.5	33.93	7.8	26.1	1.60
F10	19 May 2022	47	10.23	81.20	3.4	33.94	7.8	26.1	1.58
F10	19 May 2022	48	10.24	80.92	3.4	33.94	7.8	26.1	1.58
F10	19 May 2022	49	10.24	80.86	3.4	33.94	7.8	26.1	1.60
F10	19 May 2022	50	10.24	80.72	3.4	33.94	7.8	26.1	1.59
F10	19 May 2022	51	10.24	80.85	3.4	33.94	7.8	26.1	1.57
F10	19 May 2022	52	10.24	80.86	3.4	33.94	7.8	26.1	1.56
F10	19 May 2022	53	10.24	80.86	3.4	33.94	7.8	26.1	1.58
F10	19 May 2022	54	10.25	80.84	3.4	33.95	7.8	26.1	1.56
F10	19 May 2022	55	10.25	80.71	3.3	33.95	7.8	26.1	1.54
F10	19 May 2022	56	10.25	80.69	3.4	33.95	7.8	26.1	1.58
F10	19 May 2022	57	10.24	80.76	3.4	33.94	7.8	26.1	1.60
F10	19 May 2022	58	10.24	80.67	3.3	33.95	7.8	26.1	1.62
F10	19 May 2022	59	10.24	80.52	3.3	33.95	7.7	26.1	1.58
F10	19 May 2022	60	10.23	80.32	3.3	33.95	7.7	26.1	1.59
F10	19 May 2022	61	10.22	79.50	3.3	33.95	7.7	26.1	1.59
F10	19 May 2022	62	10.22	76.24	3.3	33.95	7.7	26.1	1.57
F11	19 May 2022	1	17.67	73.72	8.4	33.70	8.2	24.4	4.34
F11	19 May 2022	2	17.66	73.48	8.4	33.70	8.2	24.4	4.61
F11	19 May 2022	3	17.58	73.29	8.4	33.71	8.3	24.4	5.52
F11	19 May 2022	4	17.47	72.43	8.4	33.72	8.3	24.4	6.45
F11	19 May 2022	5	17.43	70.93	8.4	33.72	8.3	24.4	6.46
F11	19 May 2022	6	17.33	71.04	8.3	33.71	8.3	24.4	5.92
F11	19 May 2022	7	17.24	71.94	8.1	33.71	8.2	24.5	5.33
F11	19 May 2022	8	17.15	73.04	8.0	33.70	8.2	24.5	4.59
F11	19 May 2022	9	16.96	74.21	7.6	33.70	8.2	24.5	4.22
F11	19 May 2022	10	16.25	74.60	7.2	33.72	8.2	24.7	3.75
F11	19 May 2022	11	15.37	75.23	6.6	33.71	8.1	24.9	3.40
F11	19 May 2022	12	14.36	76.51	6.0	33.71	8.1	25.1	3.08
F11	19 May 2022	13	13.55	76.87	5.7	33.72	8.0	25.3	2.86
F11	19 May 2022	14	13.38	77.53	5.4	33.71	8.0	25.3	2.72
F11	19 May 2022	15	12.89	78.22	5.2	33.72	8.0	25.4	2.53
F11	19 May 2022	16	12.49	78.58	5.0	33.73	7.9	25.5	2.43
F11	19 May 2022	17	12.44	78.65	4.8	33.73	7.9	25.5	2.36
F11	19 May 2022	18	11.64	79.25	4.5	33.76	7.9	25.7	2.21
F11	19 May 2022	19	11.36	79.70	4.3	33.77	7.8	25.7	2.14
F11	19 May 2022	20	11.31	79.81	4.3	33.77	7.8	25.8	2.15
F11	19 May 2022	21	11.27	79.82	4.2	33.78	7.8	25.8	2.23
F11	19 May 2022	22	11.12	80.03	4.1	33.79	7.8	25.8	2.11
F11	19 May 2022	23	10.99	80.16	4.1	33.80	7.8	25.8	2.05
F11	19 May 2022	24	10.89	80.46	4.0	33.80	7.8	25.9	1.98
F11	19 May 2022	25	10.80	80.52	4.1	33.80	7.8	25.9	1.93
F11	19 May 2022	26	10.73	80.78	4.1	33.80	7.8	25.9	1.90
F11	19 May 2022	27	10.66	80.93	4.0	33.81	7.8	25.9	1.88
F11	19 May 2022	28	10.49	81.11	4.0	33.84	7.8	26.0	1.73
F11	19 May 2022	29	10.51	81.47	3.9	33.84	7.8	26.0	1.66
F11	19 May 2022	30	10.40	81.45	3.8	33.86	7.8	26.0	1.62
F11	19 May 2022	31	10.32	81.45	3.8	33.87	7.8	26.0	1.53
F11	19 May 2022	32	10.25	81.69	3.8	33.88	7.8	26.0	1.47
F11	19 May 2022	33	10.22	81.80	3.8	33.88	7.8	26.0	1.42
F11	19 May 2022	34	10.19	81.87	3.8	33.88	7.8	26.0	1.40
F11	19 May 2022	35	10.26	81.83	3.8	33.88	7.8	26.0	1.40
F11	19 May 2022	36	10.17	81.93	3.8	33.89	7.8	26.1	1.37
F11	19 May 2022	37	10.16	81.92	3.8	33.89	7.8	26.1	1.38
F11	19 May 2022	38	10.16	82.00	3.8	33.89	7.8	26.1	1.36
F11	19 May 2022	39	10.15	82.03	3.8	33.89	7.8	26.1	1.32
F11	19 May 2022	40	10.15	82.05	3.8	33.89	7.8	26.1	1.36

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F11	19 May 2022	41	10.14	82.03	3.7	33.89	7.8	26.1	1.33
F11	19 May 2022	42	10.13	81.95	3.6	33.90	7.8	26.1	1.32
F11	19 May 2022	43	10.13	81.78	3.6	33.90	7.8	26.1	1.34
F11	19 May 2022	44	10.13	81.56	3.5	33.91	7.8	26.1	1.32
F11	19 May 2022	45	10.13	81.68	3.5	33.91	7.8	26.1	1.32
F11	19 May 2022	46	10.14	81.52	3.5	33.92	7.8	26.1	1.35
F11	19 May 2022	47	10.16	81.42	3.4	33.94	7.8	26.1	1.40
F11	19 May 2022	48	10.18	81.01	3.4	33.94	7.8	26.1	1.44
F11	19 May 2022	49	10.18	80.85	3.4	33.94	7.8	26.1	1.46
F11	19 May 2022	50	10.18	80.69	3.4	33.95	7.7	26.1	1.47
F11	19 May 2022	51	10.20	80.35	3.3	33.95	7.7	26.1	1.47
F11	19 May 2022	52	10.20	80.23	3.3	33.95	7.7	26.1	1.52
F11	19 May 2022	53	10.20	80.11	3.3	33.95	7.7	26.1	1.52
F11	19 May 2022	54	10.20	80.04	3.3	33.95	7.7	26.1	1.52
F11	19 May 2022	55	10.20	80.09	3.3	33.95	7.7	26.1	1.49
F11	19 May 2022	56	10.20	80.08	3.3	33.95	7.7	26.1	1.50
F11	19 May 2022	57	10.20	80.10	3.3	33.95	7.7	26.1	1.52
F11	19 May 2022	58	10.20	79.92	3.3	33.95	7.7	26.1	1.54
F11	19 May 2022	59	10.20	79.49	3.3	33.95	7.7	26.1	1.53
F11	19 May 2022	60	10.20	78.97	3.2	33.95	7.7	26.1	1.52
F11	19 May 2022	61	10.20	78.65	3.2	33.95	7.7	26.1	1.55
F12	19 May 2022	1	17.80	72.02	8.6	33.71	8.3	24.3	3.95
F12	19 May 2022	2	17.79	71.86	8.6	33.72	8.3	24.3	4.36
F12	19 May 2022	3	17.71	70.03	8.8	33.73	8.3	24.4	5.37
F12	19 May 2022	4	17.61	64.69	8.7	33.73	8.3	24.4	6.36
F12	19 May 2022	5	17.59	69.00	8.6	33.72	8.3	24.4	6.46
F12	19 May 2022	6	17.45	69.61	8.3	33.71	8.3	24.4	5.71
F12	19 May 2022	7	17.18	71.60	8.1	33.72	8.2	24.5	5.12
F12	19 May 2022	8	17.03	72.84	7.7	33.71	8.2	24.5	4.62
F12	19 May 2022	9	16.60	73.57	7.0	33.70	8.2	24.6	4.06
F12	19 May 2022	10	14.98	75.21	6.6	33.72	8.1	25.0	3.52
F12	19 May 2022	11	15.47	74.76	6.4	33.68	8.1	24.9	3.40
F12	19 May 2022	12	14.34	76.52	5.9	33.72	8.1	25.1	3.04
F12	19 May 2022	13	13.83	77.11	5.7	33.72	8.0	25.2	2.79
F12	19 May 2022	14	13.58	77.43	5.6	33.73	8.0	25.3	2.65
F12	19 May 2022	15	13.56	77.79	5.5	33.73	8.0	25.3	2.54
F12	19 May 2022	16	13.27	77.80	5.3	33.72	8.0	25.4	2.48
F12	19 May 2022	17	12.94	77.93	5.2	33.74	8.0	25.4	2.39
F12	19 May 2022	18	12.87	78.14	5.0	33.74	7.9	25.4	2.35
F12	19 May 2022	19	12.31	78.62	4.8	33.75	7.9	25.6	2.30
F12	19 May 2022	20	12.04	78.72	4.6	33.76	7.9	25.6	2.28
F12	19 May 2022	21	11.81	79.08	4.5	33.76	7.9	25.7	2.27
F12	19 May 2022	22	11.54	79.21	4.3	33.77	7.8	25.7	2.24
F12	19 May 2022	23	11.32	79.60	4.2	33.78	7.8	25.8	2.14
F12	19 May 2022	24	11.14	79.74	4.1	33.79	7.8	25.8	2.07
F12	19 May 2022	25	10.96	80.07	4.0	33.80	7.8	25.9	1.96
F12	19 May 2022	26	10.86	80.43	4.0	33.82	7.8	25.9	1.88
F12	19 May 2022	27	10.77	80.44	3.9	33.83	7.8	25.9	1.81
F12	19 May 2022	28	10.69	80.71	3.9	33.83	7.8	25.9	1.77
F12	19 May 2022	29	10.55	80.93	3.9	33.84	7.8	26.0	1.68
F12	19 May 2022	30	10.48	81.13	3.9	33.85	7.8	26.0	1.66
F12	19 May 2022	31	10.43	81.28	3.8	33.86	7.8	26.0	1.61
F12	19 May 2022	32	10.37	81.27	3.8	33.88	7.8	26.0	1.61
F12	19 May 2022	33	10.33	81.35	3.7	33.88	7.8	26.0	1.52
F12	19 May 2022	34	10.20	81.49	3.7	33.90	7.8	26.1	1.42
F12	19 May 2022	35	10.16	81.78	3.7	33.90	7.8	26.1	1.37
F12	19 May 2022	36	10.14	81.90	3.7	33.90	7.8	26.1	1.38
F12	19 May 2022	37	10.13	81.94	3.7	33.90	7.8	26.1	1.33
F12	19 May 2022	38	10.12	81.89	3.7	33.91	7.8	26.1	1.30
F12	19 May 2022	39	10.13	81.96	3.6	33.91	7.8	26.1	1.32

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F12	19 May 2022	40	10.07	81.94	3.6	33.93	7.8	26.1	1.33
F12	19 May 2022	41	10.04	81.85	3.5	33.93	7.8	26.1	1.28
F12	19 May 2022	42	10.03	81.41	3.4	33.93	7.8	26.1	1.29
F12	19 May 2022	43	10.03	81.15	3.4	33.93	7.8	26.1	1.28
F12	19 May 2022	44	10.04	81.12	3.4	33.94	7.8	26.1	1.28
F12	19 May 2022	45	10.04	80.96	3.3	33.94	7.7	26.1	1.28
F12	19 May 2022	46	10.04	80.93	3.3	33.94	7.7	26.1	1.31
F12	19 May 2022	47	10.05	80.85	3.3	33.94	7.7	26.1	1.30
F12	19 May 2022	48	10.11	80.41	3.3	33.96	7.7	26.1	1.36
F12	19 May 2022	49	10.14	79.81	3.2	33.97	7.7	26.1	1.42
F12	19 May 2022	50	10.13	79.66	3.2	33.96	7.7	26.1	1.42
F12	19 May 2022	51	10.13	79.81	3.2	33.96	7.7	26.1	1.41
F12	19 May 2022	52	10.13	79.63	3.2	33.96	7.7	26.1	1.43
F12	19 May 2022	53	10.14	79.60	3.2	33.97	7.7	26.1	1.43
F12	19 May 2022	54	10.15	79.26	3.2	33.97	7.7	26.1	1.44
F12	19 May 2022	55	10.15	79.37	3.2	33.97	7.7	26.1	1.45
F12	19 May 2022	56	10.15	79.18	3.2	33.97	7.7	26.1	1.46
F12	19 May 2022	57	10.15	79.06	3.2	33.97	7.7	26.1	1.46
F12	19 May 2022	58	10.16	78.87	3.2	33.97	7.7	26.1	1.49
F12	19 May 2022	59	10.16	78.71	3.2	33.97	7.7	26.1	1.47
F12	19 May 2022	60	10.16	78.51	3.2	33.97	7.7	26.1	1.51
F12	19 May 2022	61	10.16	78.72	3.2	33.97	7.7	26.1	1.48
F12	19 May 2022	62	10.16	78.56	3.1	33.97	7.7	26.1	1.48
F13	19 May 2022	1	17.78	74.69	8.5	33.70	8.2	24.3	3.23
F13	19 May 2022	2	17.78	74.78	8.5	33.70	8.2	24.3	3.35
F13	19 May 2022	3	17.78	74.76	8.5	33.70	8.2	24.3	3.41
F13	19 May 2022	4	17.78	74.62	8.4	33.70	8.2	24.3	3.32
F13	19 May 2022	5	17.77	74.76	8.4	33.70	8.2	24.3	3.30
F13	19 May 2022	6	17.77	75.06	8.3	33.70	8.2	24.3	3.24
F13	19 May 2022	7	17.50	74.92	7.9	33.71	8.2	24.4	3.70
F13	19 May 2022	8	16.79	73.63	7.5	33.72	8.2	24.6	4.55
F13	19 May 2022	9	16.35	72.39	7.2	33.73	8.2	24.7	4.75
F13	19 May 2022	10	16.10	72.36	7.0	33.72	8.2	24.7	5.03
F13	19 May 2022	11	15.85	71.97	6.7	33.72	8.1	24.8	5.01
F13	19 May 2022	12	15.65	72.19	6.4	33.72	8.1	24.8	5.05
F13	19 May 2022	13	15.50	72.60	6.3	33.72	8.1	24.9	4.86
F13	19 May 2022	14	15.43	72.69	6.3	33.72	8.1	24.9	4.91
F13	19 May 2022	15	15.18	72.72	6.2	33.74	8.1	25.0	4.66
F13	19 May 2022	16	14.45	73.51	5.7	33.75	8.1	25.1	4.23
F13	19 May 2022	17	13.61	75.53	5.4	33.75	8.0	25.3	3.60
F13	19 May 2022	18	13.10	76.84	5.2	33.74	8.0	25.4	3.23
F13	19 May 2022	19	12.92	77.29	5.0	33.73	8.0	25.4	2.85
F13	19 May 2022	20	12.44	77.92	4.9	33.75	7.9	25.5	2.57
F13	19 May 2022	21	12.15	78.62	4.7	33.76	7.9	25.6	2.41
F13	19 May 2022	22	11.91	79.19	4.5	33.76	7.9	25.6	2.41
F13	19 May 2022	23	11.61	79.39	4.4	33.77	7.9	25.7	2.28
F13	19 May 2022	24	11.35	79.47	4.2	33.78	7.8	25.8	2.29
F13	19 May 2022	25	11.15	79.74	4.1	33.80	7.8	25.8	2.21
F13	19 May 2022	26	10.97	79.87	4.0	33.82	7.8	25.9	2.12
F13	19 May 2022	27	10.88	79.97	4.0	33.82	7.8	25.9	2.03
F13	19 May 2022	28	10.79	80.34	3.9	33.83	7.8	25.9	1.95
F13	19 May 2022	29	10.71	80.50	3.9	33.84	7.8	25.9	1.91
F13	19 May 2022	30	10.67	80.67	3.8	33.85	7.8	25.9	1.87
F13	19 May 2022	31	10.54	80.76	3.8	33.87	7.8	26.0	1.80
F13	19 May 2022	32	10.46	80.98	3.8	33.87	7.8	26.0	1.72
F13	19 May 2022	33	10.43	80.83	3.8	33.87	7.8	26.0	1.71
F13	19 May 2022	34	10.41	81.26	3.8	33.88	7.8	26.0	1.65
F13	19 May 2022	35	10.35	81.26	3.7	33.89	7.8	26.0	1.62
F13	19 May 2022	36	10.32	80.67	3.7	33.89	7.8	26.0	1.58
F13	19 May 2022	37	10.26	81.42	3.7	33.90	7.8	26.0	1.54

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F13	19 May 2022	38	10.16	81.56	3.7	33.91	7.8	26.1	1.50
F13	19 May 2022	39	10.13	81.60	3.6	33.92	7.8	26.1	1.44
F13	19 May 2022	40	10.10	81.78	3.6	33.92	7.8	26.1	1.41
F13	19 May 2022	41	10.07	81.90	3.5	33.93	7.8	26.1	1.39
F13	19 May 2022	42	10.05	81.54	3.3	33.93	7.8	26.1	1.38
F13	19 May 2022	43	10.05	80.90	3.3	33.93	7.7	26.1	1.39
F13	19 May 2022	44	10.05	80.74	3.3	33.94	7.7	26.1	1.39
F13	19 May 2022	45	10.05	80.64	3.3	33.94	7.7	26.1	1.39
F13	19 May 2022	46	10.05	80.55	3.3	33.94	7.7	26.1	1.38
F13	19 May 2022	47	10.05	80.61	3.3	33.94	7.7	26.1	1.43
F13	19 May 2022	48	10.07	80.54	3.2	33.94	7.7	26.1	1.41
F13	19 May 2022	49	10.08	80.28	3.2	33.95	7.7	26.1	1.42
F13	19 May 2022	50	10.09	80.22	3.2	33.95	7.7	26.1	1.44
F13	19 May 2022	51	10.12	80.15	3.2	33.96	7.7	26.1	1.47
F13	19 May 2022	52	10.13	79.94	3.2	33.96	7.7	26.1	1.50
F13	19 May 2022	53	10.15	79.82	3.2	33.97	7.7	26.1	1.54
F13	19 May 2022	54	10.16	79.49	3.2	33.97	7.7	26.1	1.56
F13	19 May 2022	55	10.16	79.27	3.2	33.97	7.7	26.1	1.55
F13	19 May 2022	56	10.16	79.10	3.2	33.97	7.7	26.1	1.57
F13	19 May 2022	57	10.16	79.06	3.2	33.97	7.7	26.1	1.58
F13	19 May 2022	58	10.15	79.03	3.2	33.97	7.7	26.1	1.62
F13	19 May 2022	59	10.14	79.03	3.2	33.97	7.7	26.1	1.61
F13	19 May 2022	60	10.14	78.83	3.1	33.97	7.7	26.1	1.59
F13	19 May 2022	61	10.14	78.75	3.1	33.97	7.7	26.1	1.57
F14	19 May 2022	1	17.99	64.04	9.2	33.72	8.3	24.3	7.83
F14	19 May 2022	2	18.00	64.14	9.2	33.72	8.3	24.3	8.43
F14	19 May 2022	3	18.00	64.33	9.2	33.72	8.3	24.3	8.74
F14	19 May 2022	4	18.00	64.44	9.1	33.72	8.3	24.3	8.83
F14	19 May 2022	5	17.99	64.76	9.0	33.72	8.3	24.3	8.00
F14	19 May 2022	6	17.90	66.67	8.8	33.72	8.3	24.3	5.91
F14	19 May 2022	7	17.67	69.47	8.2	33.72	8.3	24.4	4.64
F14	19 May 2022	8	16.91	71.60	7.3	33.71	8.3	24.5	3.83
F14	19 May 2022	9	15.85	73.73	7.0	33.72	8.2	24.8	3.31
F14	19 May 2022	10	16.16	74.12	7.0	33.69	8.1	24.7	3.38
F14	19 May 2022	11	14.91	75.06	6.7	33.71	8.1	25.0	3.52
F14	19 May 2022	12	14.36	75.88	6.5	33.71	8.1	25.1	3.73
F14	19 May 2022	13	13.99	76.42	6.1	33.70	8.0	25.2	3.52
F14	19 May 2022	14	13.78	77.35	5.9	33.69	8.0	25.2	3.27
F14	19 May 2022	15	13.47	77.62	5.6	33.70	8.0	25.3	3.00
F14	19 May 2022	16	13.23	77.83	5.3	33.70	8.0	25.3	2.87
F14	19 May 2022	17	12.93	78.18	5.1	33.72	7.9	25.4	2.57
F14	19 May 2022	18	12.80	78.20	5.0	33.72	7.9	25.4	2.40
F14	19 May 2022	19	12.82	78.15	4.9	33.72	7.9	25.4	2.32
F14	19 May 2022	20	12.46	78.27	4.8	33.74	7.9	25.5	2.21
F14	19 May 2022	21	12.31	78.64	4.8	33.75	7.9	25.6	2.18
F14	19 May 2022	22	12.28	78.24	4.8	33.75	7.9	25.6	2.18
F14	19 May 2022	23	12.17	78.53	4.6	33.77	7.9	25.6	2.17
F14	19 May 2022	24	11.89	78.62	4.5	33.78	7.9	25.7	2.12
F14	19 May 2022	25	11.65	79.01	4.4	33.79	7.8	25.7	2.02
F14	19 May 2022	26	11.51	79.20	4.3	33.79	7.8	25.7	1.99
F14	19 May 2022	27	11.36	79.56	4.2	33.80	7.8	25.8	1.92
F14	19 May 2022	28	11.14	79.83	4.1	33.80	7.8	25.8	1.88
F14	19 May 2022	29	11.05	80.14	4.0	33.80	7.8	25.8	1.85
F14	19 May 2022	30	10.92	80.26	4.0	33.82	7.8	25.9	1.77
F14	19 May 2022	31	10.78	80.41	3.9	33.83	7.8	25.9	1.73
F14	19 May 2022	32	10.63	80.45	3.9	33.84	7.8	25.9	1.65
F14	19 May 2022	33	10.57	80.75	3.8	33.85	7.8	26.0	1.60
F14	19 May 2022	34	10.54	80.76	3.8	33.86	7.8	26.0	1.57
F14	19 May 2022	35	10.53	80.95	3.8	33.86	7.8	26.0	1.55
F14	19 May 2022	36	10.52	81.06	3.7	33.87	7.8	26.0	1.55

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F14	19 May 2022	37	10.50	81.04	3.7	33.87	7.8	26.0	1.54
F14	19 May 2022	38	10.44	81.07	3.7	33.88	7.8	26.0	1.50
F14	19 May 2022	39	10.36	81.20	3.7	33.89	7.8	26.0	1.44
F14	19 May 2022	40	10.33	81.29	3.7	33.89	7.8	26.0	1.38
F14	19 May 2022	41	10.28	81.36	3.7	33.89	7.8	26.0	1.36
F14	19 May 2022	42	10.24	81.43	3.7	33.89	7.8	26.0	1.36
F14	19 May 2022	43	10.21	81.64	3.7	33.90	7.8	26.1	1.28
F14	19 May 2022	44	10.19	81.73	3.6	33.90	7.8	26.1	1.26
F14	19 May 2022	45	10.13	81.68	3.5	33.90	7.8	26.1	1.23
F14	19 May 2022	46	10.09	81.54	3.4	33.92	7.8	26.1	1.21
F14	19 May 2022	47	10.06	81.29	3.3	33.92	7.7	26.1	1.17
F14	19 May 2022	48	10.09	80.87	3.3	33.93	7.7	26.1	1.19
F14	19 May 2022	49	10.13	80.79	3.3	33.94	7.7	26.1	1.25
F14	19 May 2022	50	10.15	80.65	3.3	33.95	7.7	26.1	1.30
F14	19 May 2022	51	10.16	80.54	3.3	33.95	7.7	26.1	1.35
F14	19 May 2022	52	10.17	80.23	3.3	33.95	7.7	26.1	1.37
F14	19 May 2022	53	10.17	79.98	3.3	33.95	7.7	26.1	1.37
F14	19 May 2022	54	10.17	79.79	3.3	33.95	7.7	26.1	1.36
F14	19 May 2022	55	10.17	79.82	3.2	33.95	7.7	26.1	1.37
F14	19 May 2022	56	10.17	79.67	3.2	33.95	7.7	26.1	1.35
F14	19 May 2022	57	10.17	79.59	3.2	33.95	7.7	26.1	1.30
F14	19 May 2022	58	10.17	79.40	3.2	33.95	7.7	26.1	1.33
F14	19 May 2022	59	10.17	79.30	3.2	33.95	7.7	26.1	1.34
F14	19 May 2022	60	10.17	79.23	3.2	33.95	7.7	26.1	1.37
F15	20 May 2022	1	16.56	77.48	8.1	33.64	8.1	24.6	2.06
F15	20 May 2022	2	16.56	78.17	8.1	33.64	8.1	24.6	2.02
F15	20 May 2022	3	16.56	78.29	8.1	33.64	8.1	24.6	2.12
F15	20 May 2022	4	16.56	78.37	8.1	33.64	8.1	24.6	2.31
F15	20 May 2022	5	16.56	78.49	8.1	33.64	8.1	24.6	2.35
F15	20 May 2022	6	16.56	78.50	8.1	33.64	8.1	24.6	2.44
F15	20 May 2022	7	16.56	78.62	8.1	33.64	8.1	24.6	2.38
F15	20 May 2022	8	16.56	78.57	8.1	33.64	8.1	24.6	2.41
F15	20 May 2022	9	16.56	78.55	8.1	33.64	8.1	24.6	2.48
F15	20 May 2022	10	16.51	78.66	8.1	33.64	8.1	24.6	2.60
F15	20 May 2022	11	16.50	78.71	8.1	33.64	8.1	24.6	2.54
F15	20 May 2022	12	16.47	78.67	8.1	33.64	8.1	24.6	2.48
F15	20 May 2022	13	16.41	78.76	8.2	33.64	8.1	24.6	2.62
F15	20 May 2022	14	16.28	78.69	8.1	33.64	8.1	24.6	2.58
F15	20 May 2022	15	15.64	78.18	8.2	33.66	8.1	24.8	2.49
F15	20 May 2022	16	15.51	77.54	8.2	33.66	8.1	24.8	2.63
F15	20 May 2022	17	15.03	77.33	8.1	33.66	8.1	24.9	2.75
F15	20 May 2022	18	14.90	76.68	8.0	33.67	8.1	25.0	2.87
F15	20 May 2022	19	14.89	76.47	8.0	33.67	8.1	25.0	3.01
F15	20 May 2022	20	14.86	76.20	7.8	33.68	8.1	25.0	3.12
F15	20 May 2022	21	14.81	76.17	7.7	33.68	8.1	25.0	3.21
F15	20 May 2022	22	14.45	76.12	7.3	33.67	8.1	25.1	3.25
F15	20 May 2022	23	13.73	77.26	6.7	33.70	8.0	25.2	3.05
F15	20 May 2022	24	13.80	77.17	6.6	33.68	8.0	25.2	3.00
F15	20 May 2022	25	13.31	78.45	6.0	33.69	8.0	25.3	2.67
F15	20 May 2022	26	13.03	78.38	5.7	33.71	7.9	25.4	2.49
F15	20 May 2022	27	13.01	79.06	5.6	33.71	7.9	25.4	2.36
F15	20 May 2022	28	12.59	79.63	5.0	33.75	7.9	25.5	2.09
F15	20 May 2022	29	12.13	79.86	4.8	33.76	7.8	25.6	2.05
F15	20 May 2022	30	12.05	79.74	4.7	33.76	7.8	25.6	1.97
F15	20 May 2022	31	11.81	79.93	4.5	33.77	7.8	25.7	1.91
F15	20 May 2022	32	11.72	79.34	4.4	33.78	7.8	25.7	1.88
F15	20 May 2022	33	11.55	80.03	4.3	33.79	7.8	25.7	1.87
F15	20 May 2022	34	11.18	80.28	4.1	33.81	7.8	25.8	1.78
F15	20 May 2022	35	11.14	80.36	4.0	33.81	7.7	25.8	1.72
F15	20 May 2022	36	10.94	80.56	4.0	33.83	7.7	25.9	1.66

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F15	20 May 2022	37	10.84	80.75	3.9	33.84	7.7	25.9	1.62
F15	20 May 2022	38	10.66	80.91	3.8	33.85	7.7	25.9	1.56
F15	20 May 2022	39	10.53	81.11	3.8	33.86	7.7	26.0	1.47
F15	20 May 2022	40	10.56	81.30	3.8	33.86	7.7	26.0	1.44
F15	20 May 2022	41	10.38	81.36	3.7	33.88	7.7	26.0	1.37
F15	20 May 2022	42	10.35	81.48	3.6	33.89	7.7	26.0	1.38
F15	20 May 2022	43	10.33	81.57	3.6	33.89	7.7	26.0	1.29
F15	20 May 2022	44	10.30	81.77	3.6	33.89	7.7	26.0	1.26
F15	20 May 2022	45	10.25	81.80	3.6	33.90	7.7	26.0	1.23
F15	20 May 2022	46	10.25	81.87	3.6	33.90	7.7	26.0	1.21
F15	20 May 2022	47	10.24	81.86	3.6	33.90	7.7	26.1	1.21
F15	20 May 2022	48	10.23	81.87	3.6	33.91	7.7	26.1	1.19
F15	20 May 2022	49	10.17	81.85	3.6	33.92	7.7	26.1	1.16
F15	20 May 2022	50	10.17	81.92	3.5	33.92	7.7	26.1	1.14
F15	20 May 2022	51	10.16	81.91	3.5	33.92	7.7	26.1	1.14
F15	20 May 2022	52	10.16	81.92	3.5	33.93	7.7	26.1	1.14
F15	20 May 2022	53	10.15	81.77	3.5	33.93	7.7	26.1	1.13
F15	20 May 2022	54	10.14	81.93	3.5	33.94	7.7	26.1	1.12
F15	20 May 2022	55	10.14	81.94	3.5	33.94	7.7	26.1	1.16
F15	20 May 2022	56	10.13	81.87	3.5	33.94	7.7	26.1	1.12
F15	20 May 2022	57	10.12	81.90	3.5	33.94	7.7	26.1	1.12
F15	20 May 2022	58	10.12	81.94	3.4	33.94	7.7	26.1	1.12
F15	20 May 2022	59	10.12	82.01	3.4	33.94	7.7	26.1	1.09
F15	20 May 2022	60	10.06	82.12	3.4	33.96	7.7	26.1	1.06
F15	20 May 2022	61	10.04	82.22	3.4	33.95	7.7	26.1	1.05
F15	20 May 2022	62	9.96	82.19	3.4	33.96	7.7	26.1	1.03
F15	20 May 2022	63	9.96	82.09	3.5	33.95	7.7	26.1	1.01
F15	20 May 2022	64	9.95	81.68	3.4	33.95	7.7	26.1	1.02
F15	20 May 2022	65	9.91	81.34	3.2	33.96	7.7	26.2	1.02
F15	20 May 2022	66	9.91	80.96	3.2	33.96	7.7	26.2	1.02
F15	20 May 2022	67	9.87	80.12	3.1	33.97	7.7	26.2	1.02
F15	20 May 2022	68	9.88	80.50	3.1	33.97	7.7	26.2	1.02
F15	20 May 2022	69	9.85	79.58	3.1	33.97	7.7	26.2	1.02
F15	20 May 2022	70	9.85	79.43	3.1	33.97	7.7	26.2	1.02
F15	20 May 2022	71	9.84	79.71	3.1	33.97	7.7	26.2	1.02
F15	20 May 2022	72	9.84	79.89	3.1	33.98	7.7	26.2	1.01
F15	20 May 2022	73	9.82	79.70	3.1	33.98	7.7	26.2	1.02
F15	20 May 2022	74	9.80	79.98	3.2	33.98	7.7	26.2	1.00
F15	20 May 2022	75	9.78	80.00	3.2	33.98	7.7	26.2	1.01
F15	20 May 2022	76	9.79	80.06	3.2	33.98	7.7	26.2	1.00
F15	20 May 2022	77	9.78	80.08	3.2	33.98	7.7	26.2	1.02
F15	20 May 2022	78	9.78	80.03	3.2	33.98	7.7	26.2	1.08
F15	20 May 2022	79	9.77	80.04	3.2	33.98	7.7	26.2	1.09
F15	20 May 2022	80	9.78	79.96	3.2	33.98	7.7	26.2	1.08
F16	20 May 2022	1	15.89	63.36	8.6	33.72	8.2	24.8	4.39
F16	20 May 2022	2	15.89	67.09	8.6	33.72	8.2	24.8	5.05
F16	20 May 2022	3	15.86	67.56	8.6	33.72	8.2	24.8	5.98
F16	20 May 2022	4	15.71	67.58	8.5	33.72	8.2	24.8	7.11
F16	20 May 2022	5	15.69	67.59	8.3	33.71	8.2	24.8	7.84
F16	20 May 2022	6	15.40	69.02	8.1	33.72	8.2	24.9	7.83
F16	20 May 2022	7	15.34	69.44	8.0	33.72	8.1	24.9	7.98
F16	20 May 2022	8	15.30	69.71	7.9	33.72	8.1	24.9	7.74
F16	20 May 2022	9	15.01	69.68	7.4	33.71	8.1	25.0	7.50
F16	20 May 2022	10	14.36	70.83	7.1	33.72	8.1	25.1	6.88
F16	20 May 2022	11	14.45	70.90	6.6	33.69	8.1	25.1	6.65
F16	20 May 2022	12	12.69	74.21	6.0	33.70	8.0	25.4	5.96
F16	20 May 2022	13	12.48	74.36	5.8	33.73	7.9	25.5	5.09
F16	20 May 2022	14	12.08	77.24	5.5	33.67	7.9	25.5	4.17
F16	20 May 2022	15	11.40	78.49	5.2	33.69	7.8	25.7	3.32
F16	20 May 2022	16	11.21	79.67	5.0	33.70	7.8	25.7	2.95

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F16	20 May 2022	17	11.20	79.94	5.0	33.70	7.8	25.7	2.70
F16	20 May 2022	18	10.99	80.09	4.8	33.71	7.8	25.8	2.36
F16	20 May 2022	19	10.87	80.36	4.8	33.71	7.8	25.8	2.27
F16	20 May 2022	20	10.85	80.46	4.7	33.71	7.8	25.8	2.23
F16	20 May 2022	21	10.77	80.83	4.7	33.71	7.8	25.8	2.28
F16	20 May 2022	22	10.72	80.95	4.6	33.72	7.8	25.8	2.15
F16	20 May 2022	23	10.66	81.09	4.4	33.74	7.8	25.9	2.02
F16	20 May 2022	24	10.59	81.22	4.4	33.76	7.8	25.9	1.83
F16	20 May 2022	25	10.49	81.44	4.3	33.77	7.8	25.9	1.77
F16	20 May 2022	26	10.50	81.35	4.3	33.77	7.8	25.9	1.70
F16	20 May 2022	27	10.44	81.58	4.2	33.79	7.8	25.9	1.72
F16	20 May 2022	28	10.46	81.60	4.2	33.79	7.8	25.9	1.69
F16	20 May 2022	29	10.37	81.34	4.1	33.81	7.7	26.0	1.62
F16	20 May 2022	30	10.31	81.72	4.1	33.82	7.7	26.0	1.57
F16	20 May 2022	31	10.30	81.81	4.0	33.83	7.7	26.0	1.57
F16	20 May 2022	32	10.29	81.78	3.9	33.85	7.7	26.0	1.53
F16	20 May 2022	33	10.30	81.71	3.9	33.86	7.7	26.0	1.53
F16	20 May 2022	34	10.30	81.62	3.8	33.87	7.7	26.0	1.47
F16	20 May 2022	35	10.27	81.54	3.7	33.89	7.7	26.0	1.46
F16	20 May 2022	36	10.28	81.61	3.7	33.88	7.7	26.0	1.46
F16	20 May 2022	37	10.24	81.66	3.6	33.90	7.7	26.1	1.42
F16	20 May 2022	38	10.22	81.46	3.5	33.91	7.7	26.1	1.42
F16	20 May 2022	39	10.23	81.47	3.5	33.91	7.7	26.1	1.40
F16	20 May 2022	40	10.22	81.37	3.5	33.91	7.7	26.1	1.38
F16	20 May 2022	41	10.21	81.25	3.5	33.92	7.7	26.1	1.41
F16	20 May 2022	42	10.21	81.31	3.4	33.92	7.7	26.1	1.45
F16	20 May 2022	43	10.19	81.14	3.4	33.93	7.7	26.1	1.43
F16	20 May 2022	44	10.19	81.14	3.4	33.93	7.7	26.1	1.46
F16	20 May 2022	45	10.17	80.94	3.4	33.93	7.7	26.1	1.43
F16	20 May 2022	46	10.15	81.10	3.4	33.94	7.7	26.1	1.40
F16	20 May 2022	47	10.13	81.12	3.4	33.94	7.7	26.1	1.38
F16	20 May 2022	48	10.11	81.08	3.4	33.95	7.7	26.1	1.36
F16	20 May 2022	49	10.10	80.95	3.4	33.95	7.7	26.1	1.34
F16	20 May 2022	50	10.10	81.20	3.4	33.95	7.7	26.1	1.34
F16	20 May 2022	51	10.09	81.16	3.3	33.96	7.7	26.1	1.39
F16	20 May 2022	52	10.09	81.07	3.3	33.97	7.7	26.1	1.36
F16	20 May 2022	53	10.09	81.09	3.2	33.97	7.7	26.1	1.33
F16	20 May 2022	54	10.09	81.07	3.2	33.97	7.7	26.1	1.34
F16	20 May 2022	55	10.09	80.72	3.2	33.97	7.7	26.1	1.32
F16	20 May 2022	56	10.09	80.99	3.2	33.97	7.7	26.1	1.33
F16	20 May 2022	57	10.09	80.87	3.2	33.97	7.7	26.1	1.31
F16	20 May 2022	58	10.09	80.95	3.2	33.98	7.7	26.1	1.35
F16	20 May 2022	59	10.09	80.92	3.1	33.98	7.7	26.1	1.32
F16	20 May 2022	60	10.09	80.91	3.1	33.98	7.7	26.1	1.32
F16	20 May 2022	61	10.09	80.66	3.1	33.98	7.7	26.1	1.34
F16	20 May 2022	62	10.09	80.83	3.1	33.98	7.7	26.1	1.31
F16	20 May 2022	63	10.09	80.83	3.1	33.98	7.7	26.1	1.36
F16	20 May 2022	64	10.09	80.83	3.1	33.98	7.7	26.1	1.33
F16	20 May 2022	65	10.09	80.83	3.1	33.98	7.7	26.1	1.31
F16	20 May 2022	66	10.09	80.86	3.1	33.98	7.7	26.1	1.32
F16	20 May 2022	67	10.09	80.87	3.1	33.98	7.7	26.1	1.34
F16	20 May 2022	68	10.09	80.87	3.1	33.98	7.7	26.1	1.31
F16	20 May 2022	69	10.09	80.90	3.1	33.98	7.7	26.1	1.31
F16	20 May 2022	70	10.09	80.90	3.1	33.98	7.7	26.1	1.30
F16	20 May 2022	71	10.09	80.86	3.1	33.98	7.7	26.1	1.30
F16	20 May 2022	72	10.09	80.86	3.1	33.98	7.7	26.1	1.29
F16	20 May 2022	73	10.09	80.84	3.1	33.98	7.7	26.1	1.28
F16	20 May 2022	74	10.09	80.70	3.1	33.98	7.7	26.1	1.28
F16	20 May 2022	75	10.09	80.82	3.1	33.98	7.7	26.1	1.28
F16	20 May 2022	76	10.09	80.82	3.1	33.98	7.7	26.1	1.32
F16	20 May 2022	77	10.09	80.84	3.1	33.98	7.7	26.1	1.34

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F16	20 May 2022	78	10.09	80.80	3.1	33.98	7.7	26.1	1.35
F16	20 May 2022	79	10.09	80.77	3.1	33.98	7.7	26.1	1.37
F16	20 May 2022	80	10.09	80.75	3.1	33.98	7.7	26.1	1.32
F16	20 May 2022	81	10.09	80.73	3.1	33.98	7.7	26.1	1.30
F16	20 May 2022	82	10.09	80.72	2.0	33.60	7.7	25.8	0.38
F17	20 May 2022	1	15.90	60.39	8.1	33.63	8.2	24.7	4.75
F17	20 May 2022	2	15.89	69.00	8.1	33.71	8.2	24.8	4.89
F17	20 May 2022	3	15.89	70.76	8.1	33.72	8.2	24.8	5.41
F17	20 May 2022	4	15.88	70.69	8.1	33.72	8.2	24.8	5.99
F17	20 May 2022	5	15.89	70.28	8.1	33.72	8.2	24.8	6.22
F17	20 May 2022	6	15.88	71.07	8.1	33.72	8.2	24.8	6.28
F17	20 May 2022	7	15.85	70.98	8.1	33.72	8.2	24.8	6.92
F17	20 May 2022	8	15.81	70.41	8.1	33.72	8.2	24.8	6.90
F17	20 May 2022	9	15.82	70.41	8.1	33.72	8.2	24.8	7.08
F17	20 May 2022	10	15.64	70.00	8.1	33.72	8.2	24.8	7.40
F17	20 May 2022	11	15.68	69.82	8.1	33.72	8.2	24.8	7.64
F17	20 May 2022	12	15.17	68.56	7.9	33.71	8.2	24.9	10.14
F17	20 May 2022	13	13.54	62.70	7.8	33.71	8.1	25.3	18.09
F17	20 May 2022	14	13.61	53.73	7.2	33.67	8.1	25.2	18.83
F17	20 May 2022	15	12.23	57.45	6.4	33.73	8.0	25.6	14.04
F17	20 May 2022	16	12.20	66.36	6.2	33.73	7.9	25.6	12.23
F17	20 May 2022	17	12.01	70.53	5.8	33.72	7.9	25.6	9.99
F17	20 May 2022	18	11.44	73.15	5.4	33.70	7.9	25.7	8.00
F17	20 May 2022	19	11.30	76.84	5.1	33.70	7.8	25.7	5.67
F17	20 May 2022	20	10.94	78.18	4.9	33.70	7.8	25.8	3.57
F17	20 May 2022	21	10.91	79.65	4.8	33.71	7.8	25.8	3.20
F17	20 May 2022	22	10.85	79.62	4.6	33.71	7.8	25.8	2.65
F17	20 May 2022	23	10.82	80.24	4.6	33.73	7.8	25.8	2.48
F17	20 May 2022	24	10.78	80.61	4.5	33.73	7.8	25.8	2.26
F17	20 May 2022	25	10.75	80.56	4.4	33.74	7.8	25.8	2.10
F17	20 May 2022	26	10.73	80.66	4.4	33.74	7.8	25.8	2.14
F17	20 May 2022	27	10.68	80.59	4.3	33.75	7.8	25.9	2.11
F17	20 May 2022	28	10.69	81.03	4.3	33.75	7.8	25.9	1.99
F17	20 May 2022	29	10.59	80.98	4.2	33.77	7.8	25.9	1.88
F17	20 May 2022	30	10.60	81.09	4.2	33.77	7.8	25.9	1.86
F17	20 May 2022	31	10.51	81.09	4.2	33.78	7.8	25.9	1.88
F17	20 May 2022	32	10.53	81.32	4.1	33.78	7.8	25.9	1.82
F17	20 May 2022	33	10.43	81.48	4.1	33.80	7.7	25.9	1.69
F17	20 May 2022	34	10.44	81.44	4.1	33.80	7.7	25.9	1.67
F17	20 May 2022	35	10.41	81.41	4.0	33.81	7.7	26.0	1.65
F17	20 May 2022	36	10.40	81.32	4.0	33.81	7.7	26.0	1.67
F17	20 May 2022	37	10.41	81.32	4.0	33.82	7.7	26.0	1.71
F17	20 May 2022	38	10.41	81.35	4.0	33.82	7.7	26.0	1.67
F17	20 May 2022	39	10.39	81.30	3.9	33.83	7.7	26.0	1.70
F17	20 May 2022	40	10.40	81.31	3.9	33.83	7.7	26.0	1.69
F17	20 May 2022	41	10.35	81.15	3.9	33.84	7.7	26.0	1.73
F17	20 May 2022	42	10.34	81.00	3.9	33.84	7.7	26.0	1.72
F17	20 May 2022	43	10.32	81.10	3.9	33.84	7.7	26.0	1.68
F17	20 May 2022	44	10.31	81.29	3.9	33.84	7.7	26.0	1.65
F17	20 May 2022	45	10.28	81.27	3.8	33.85	7.7	26.0	1.64
F17	20 May 2022	46	10.23	81.41	3.8	33.85	7.7	26.0	1.55
F17	20 May 2022	47	10.21	81.47	3.8	33.86	7.7	26.0	1.50
F17	20 May 2022	48	10.21	81.39	3.8	33.86	7.7	26.0	1.49
F17	20 May 2022	49	10.18	81.54	3.8	33.87	7.7	26.0	1.45
F17	20 May 2022	50	10.17	81.59	3.8	33.87	7.7	26.0	1.44
F17	20 May 2022	51	10.16	81.62	3.8	33.87	7.7	26.0	1.43
F17	20 May 2022	52	10.14	81.51	3.8	33.88	7.7	26.1	1.42
F17	20 May 2022	53	10.14	81.58	3.8	33.88	7.7	26.1	1.39
F17	20 May 2022	54	10.14	81.62	3.8	33.88	7.7	26.1	1.41
F17	20 May 2022	55	10.16	81.65	3.6	33.90	7.7	26.1	1.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F17	20 May 2022	56	10.14	81.60	3.5	33.92	7.7	26.1	1.41
F17	20 May 2022	57	10.13	81.54	3.5	33.92	7.7	26.1	1.42
F17	20 May 2022	58	10.13	81.50	3.5	33.93	7.7	26.1	1.42
F17	20 May 2022	59	10.13	81.47	3.5	33.92	7.7	26.1	1.40
F17	20 May 2022	60	10.12	81.17	3.5	33.93	7.7	26.1	1.42
F17	20 May 2022	61	10.12	81.40	3.4	33.94	7.7	26.1	1.39
F17	20 May 2022	62	10.11	81.44	3.4	33.94	7.7	26.1	1.39
F17	20 May 2022	63	10.11	81.32	3.4	33.95	7.7	26.1	1.38
F17	20 May 2022	64	10.10	81.32	3.3	33.96	7.7	26.1	1.39
F17	20 May 2022	65	10.09	81.25	3.3	33.96	7.7	26.1	1.37
F17	20 May 2022	66	10.10	81.31	3.3	33.95	7.7	26.1	1.37
F17	20 May 2022	67	10.09	81.31	3.3	33.96	7.7	26.1	1.35
F17	20 May 2022	68	10.08	81.29	3.3	33.96	7.7	26.1	1.34
F17	20 May 2022	69	10.08	81.24	3.3	33.96	7.7	26.1	1.36
F17	20 May 2022	70	10.08	81.22	3.3	33.96	7.7	26.1	1.35
F17	20 May 2022	71	10.07	81.07	3.3	33.96	7.7	26.1	1.33
F17	20 May 2022	72	10.07	81.07	3.3	33.96	7.7	26.1	1.37
F17	20 May 2022	73	10.07	81.10	3.3	33.96	7.7	26.1	1.33
F17	20 May 2022	74	10.06	81.09	3.3	33.96	7.7	26.1	1.36
F17	20 May 2022	75	10.06	81.08	3.3	33.96	7.7	26.1	1.38
F17	20 May 2022	76	10.06	81.01	3.3	33.97	7.7	26.1	1.36
F17	20 May 2022	77	10.05	80.98	3.3	33.97	7.7	26.1	1.35
F17	20 May 2022	78	10.05	80.81	3.3	33.97	7.7	26.1	1.31
F17	20 May 2022	79	10.05	80.82	3.3	33.97	7.7	26.1	1.27
F17	20 May 2022	80	10.05	80.66	3.3	33.97	7.7	26.1	1.31
F17	20 May 2022	81	10.05	80.67	3.3	33.97	7.7	26.1	1.28
F17	20 May 2022	82	10.05	76.52	3.3	33.97	7.7	26.1	1.28
F18	20 May 2022	1	16.24	70.85	8.8	33.73	8.2	24.7	3.54
F18	20 May 2022	2	16.23	71.33	8.8	33.73	8.2	24.7	3.61
F18	20 May 2022	3	16.23	71.17	8.8	33.73	8.2	24.7	3.98
F18	20 May 2022	4	16.23	70.96	8.8	33.73	8.2	24.7	4.38
F18	20 May 2022	5	16.22	70.94	8.8	33.73	8.2	24.7	4.96
F18	20 May 2022	6	16.21	70.81	8.8	33.73	8.2	24.7	4.95
F18	20 May 2022	7	16.22	70.95	8.8	33.73	8.2	24.7	5.07
F18	20 May 2022	8	16.22	70.84	8.7	33.73	8.2	24.7	5.22
F18	20 May 2022	9	16.20	70.58	8.7	33.73	8.2	24.7	5.43
F18	20 May 2022	10	16.17	69.91	8.7	33.73	8.2	24.7	5.60
F18	20 May 2022	11	16.17	70.02	8.7	33.73	8.2	24.7	5.90
F18	20 May 2022	12	16.14	69.23	8.6	33.73	8.2	24.7	6.04
F18	20 May 2022	13	16.12	68.96	8.6	33.73	8.2	24.7	6.40
F18	20 May 2022	14	16.02	68.01	8.5	33.73	8.2	24.8	6.99
F18	20 May 2022	15	15.63	66.78	8.0	33.72	8.2	24.8	7.30
F18	20 May 2022	16	14.68	65.86	7.9	33.73	8.1	25.1	8.17
F18	20 May 2022	17	14.79	65.57	7.7	33.71	8.1	25.0	8.72
F18	20 May 2022	18	13.63	64.96	7.9	33.71	8.1	25.3	9.59
F18	20 May 2022	19	13.39	65.60	8.0	33.72	8.1	25.3	10.07
F18	20 May 2022	20	12.69	66.10	7.1	33.71	8.1	25.5	11.99
F18	20 May 2022	21	11.85	68.36	5.6	33.73	7.9	25.6	12.26
F18	20 May 2022	22	11.44	75.60	5.1	33.71	7.8	25.7	7.71
F18	20 May 2022	23	11.29	77.34	4.9	33.71	7.8	25.7	5.69
F18	20 May 2022	24	11.08	78.21	4.8	33.72	7.8	25.8	4.11
F18	20 May 2022	25	10.98	80.03	4.6	33.73	7.8	25.8	3.28
F18	20 May 2022	26	10.65	80.73	4.4	33.75	7.8	25.9	2.47
F18	20 May 2022	27	10.63	81.09	4.3	33.76	7.8	25.9	2.25
F18	20 May 2022	28	10.58	80.98	4.2	33.77	7.8	25.9	2.03
F18	20 May 2022	29	10.57	80.27	4.1	33.78	7.7	25.9	2.16
F18	20 May 2022	30	10.55	79.71	4.0	33.79	7.7	25.9	2.15
F18	20 May 2022	31	10.54	79.89	4.0	33.79	7.7	25.9	2.19
F18	20 May 2022	32	10.53	79.97	3.9	33.80	7.7	25.9	2.16
F18	20 May 2022	33	10.51	80.09	3.9	33.80	7.7	25.9	2.11

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F18	20 May 2022	34	10.44	80.38	3.9	33.81	7.7	25.9	2.08
F18	20 May 2022	35	10.42	80.35	3.9	33.82	7.7	26.0	2.04
F18	20 May 2022	36	10.41	80.53	3.9	33.82	7.7	26.0	2.07
F18	20 May 2022	37	10.37	80.34	3.9	33.83	7.7	26.0	1.97
F18	20 May 2022	38	10.38	80.47	3.9	33.83	7.7	26.0	1.97
F18	20 May 2022	39	10.36	80.49	3.8	33.83	7.7	26.0	1.95
F18	20 May 2022	40	10.35	80.54	3.9	33.83	7.7	26.0	1.94
F18	20 May 2022	41	10.36	80.61	3.9	33.83	7.7	26.0	1.96
F18	20 May 2022	42	10.34	80.55	3.9	33.83	7.7	26.0	1.95
F18	20 May 2022	43	10.34	80.58	3.9	33.83	7.7	26.0	1.91
F18	20 May 2022	44	10.32	80.62	3.8	33.84	7.7	26.0	1.90
F18	20 May 2022	45	10.33	80.66	3.9	33.84	7.7	26.0	1.88
F18	20 May 2022	46	10.32	80.65	3.8	33.84	7.7	26.0	1.86
F18	20 May 2022	47	10.32	80.58	3.8	33.84	7.7	26.0	1.87
F18	20 May 2022	48	10.32	80.50	3.8	33.84	7.7	26.0	1.90
F18	20 May 2022	49	10.32	80.48	3.8	33.84	7.7	26.0	1.88
F18	20 May 2022	50	10.32	80.24	3.8	33.84	7.7	26.0	1.89
F18	20 May 2022	51	10.32	80.27	3.8	33.84	7.7	26.0	1.86
F18	20 May 2022	52	10.34	79.45	3.7	33.85	7.7	26.0	1.88
F18	20 May 2022	53	10.34	78.74	3.7	33.86	7.7	26.0	1.89
F18	20 May 2022	54	10.35	78.54	3.6	33.86	7.7	26.0	1.87
F18	20 May 2022	55	10.35	78.60	3.6	33.86	7.7	26.0	1.84
F18	20 May 2022	56	10.34	78.54	3.6	33.86	7.7	26.0	1.84
F18	20 May 2022	57	10.34	78.40	3.6	33.86	7.7	26.0	1.83
F18	20 May 2022	58	10.34	78.35	3.6	33.87	7.7	26.0	1.82
F18	20 May 2022	59	10.32	78.32	3.6	33.87	7.7	26.0	1.86
F18	20 May 2022	60	10.29	78.46	3.6	33.87	7.7	26.0	1.79
F18	20 May 2022	61	10.25	78.47	3.6	33.88	7.7	26.0	1.75
F18	20 May 2022	62	10.23	78.65	3.6	33.89	7.7	26.0	1.73
F18	20 May 2022	63	10.22	78.65	3.6	33.89	7.7	26.0	1.68
F18	20 May 2022	64	10.21	78.81	3.5	33.89	7.7	26.1	1.67
F18	20 May 2022	65	10.19	78.95	3.5	33.90	7.7	26.1	1.66
F18	20 May 2022	66	10.16	79.12	3.6	33.90	7.7	26.1	1.57
F18	20 May 2022	67	10.12	79.49	3.6	33.90	7.7	26.1	1.55
F18	20 May 2022	68	10.10	80.01	3.6	33.91	7.7	26.1	1.51
F18	20 May 2022	69	10.07	80.35	3.5	33.92	7.7	26.1	1.43
F18	20 May 2022	70	10.04	80.57	3.4	33.93	7.7	26.1	1.39
F18	20 May 2022	71	10.02	80.53	3.4	33.94	7.7	26.1	1.35
F18	20 May 2022	72	10.01	80.45	3.4	33.95	7.7	26.1	1.33
F18	20 May 2022	73	10.01	80.49	3.4	33.95	7.7	26.1	1.32
F18	20 May 2022	74	10.01	80.50	3.4	33.95	7.7	26.1	1.33
F18	20 May 2022	75	10.01	80.47	3.4	33.95	7.7	26.1	1.32
F18	20 May 2022	76	10.01	80.25	3.4	33.95	7.7	26.1	1.33
F18	20 May 2022	77	10.00	80.41	3.4	33.95	7.7	26.1	1.32
F18	20 May 2022	78	9.99	80.13	3.4	33.96	7.7	26.1	1.34
F18	20 May 2022	79	9.98	79.78	3.3	33.97	7.7	26.1	1.35
F18	20 May 2022	80	9.98	79.96	3.3	33.97	7.7	26.1	1.34
F18	20 May 2022	81	9.96	79.72	3.3	33.97	7.7	26.2	1.36
F18	20 May 2022	82	9.95	79.52	3.3	33.98	7.7	26.2	1.37
F18	20 May 2022	83	9.96	76.56	3.3	33.98	7.7	26.2	1.36
F19	20 May 2022	1	16.16	58.62	8.9	33.75	8.2	24.7	8.69
F19	20 May 2022	2	16.16	59.70	8.9	33.75	8.2	24.7	9.03
F19	20 May 2022	3	16.17	60.52	8.9	33.75	8.2	24.7	10.25
F19	20 May 2022	4	16.13	60.29	8.8	33.75	8.2	24.8	10.52
F19	20 May 2022	5	16.11	61.12	8.7	33.75	8.2	24.8	10.56
F19	20 May 2022	6	16.11	60.91	8.7	33.75	8.2	24.8	10.67
F19	20 May 2022	7	16.08	61.88	8.6	33.75	8.2	24.8	10.27
F19	20 May 2022	8	15.76	63.25	8.1	33.74	8.2	24.8	9.25
F19	20 May 2022	9	15.09	66.12	7.4	33.73	8.1	25.0	7.71
F19	20 May 2022	10	13.18	71.23	6.3	33.77	8.0	25.4	6.29

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F19	20 May 2022	11	12.80	72.69	5.7	33.75	7.9	25.5	5.12
F19	20 May 2022	12	11.98	74.54	5.2	33.77	7.8	25.6	4.13
F19	20 May 2022	13	12.03	74.78	5.1	33.76	7.8	25.6	3.68
F19	20 May 2022	14	11.88	75.00	5.0	33.77	7.8	25.7	3.62
F19	20 May 2022	15	11.89	75.03	4.9	33.77	7.8	25.7	3.60
F19	20 May 2022	16	11.84	75.02	4.8	33.77	7.8	25.7	3.68
F19	20 May 2022	17	11.76	74.87	4.7	33.78	7.8	25.7	3.66
F19	20 May 2022	18	11.60	74.40	4.5	33.78	7.8	25.7	3.73
F19	20 May 2022	19	11.54	74.49	4.4	33.78	7.8	25.7	3.68
F19	20 May 2022	20	11.43	74.39	4.2	33.78	7.8	25.7	3.65
F19	20 May 2022	21	10.98	75.65	4.1	33.77	7.7	25.8	3.12
F19	20 May 2022	22	11.04	77.16	4.1	33.77	7.7	25.8	3.13
F19	20 May 2022	23	10.79	77.67	4.1	33.76	7.7	25.9	2.85
F19	20 May 2022	24	10.74	78.52	4.0	33.77	7.7	25.9	2.62
F19	20 May 2022	25	10.70	79.04	4.0	33.77	7.7	25.9	2.47
F19	20 May 2022	26	10.65	79.50	3.9	33.78	7.7	25.9	2.34
F19	20 May 2022	27	10.63	79.47	3.9	33.78	7.7	25.9	2.25
F19	20 May 2022	28	10.64	79.38	3.9	33.79	7.7	25.9	2.22
F19	20 May 2022	29	10.64	79.34	3.9	33.79	7.7	25.9	2.24
F19	20 May 2022	30	10.64	79.28	3.9	33.79	7.7	25.9	2.20
F19	20 May 2022	31	10.64	79.13	3.8	33.79	7.7	25.9	2.23
F19	20 May 2022	32	10.64	79.22	3.8	33.80	7.7	25.9	2.19
F19	20 May 2022	33	10.65	78.82	3.8	33.80	7.7	25.9	2.30
F19	20 May 2022	34	10.65	78.80	3.8	33.80	7.7	25.9	2.25
F19	20 May 2022	35	10.65	78.69	3.8	33.80	7.7	25.9	2.16
F19	20 May 2022	36	10.64	78.57	3.8	33.81	7.7	25.9	2.13
F19	20 May 2022	37	10.65	78.59	3.8	33.81	7.7	25.9	2.15
F19	20 May 2022	38	10.63	78.41	3.7	33.81	7.7	25.9	2.12
F19	20 May 2022	39	10.61	78.86	3.7	33.81	7.7	25.9	2.37
F19	20 May 2022	40	10.61	78.83	3.7	33.81	7.7	25.9	2.07
F19	20 May 2022	41	10.60	78.78	3.7	33.81	7.7	25.9	2.19
F19	20 May 2022	42	10.57	79.07	3.7	33.81	7.7	25.9	2.10
F19	20 May 2022	43	10.56	79.17	3.7	33.81	7.7	25.9	2.06
F19	20 May 2022	44	10.55	79.13	3.8	33.81	7.7	25.9	2.17
F19	20 May 2022	45	10.54	79.37	3.7	33.81	7.7	25.9	2.08
F19	20 May 2022	46	10.54	79.47	3.8	33.81	7.7	25.9	2.09
F19	20 May 2022	47	10.52	79.31	3.8	33.81	7.7	25.9	2.04
F19	20 May 2022	48	10.52	79.33	3.8	33.81	7.7	25.9	2.06
F19	20 May 2022	49	10.51	79.33	3.8	33.81	7.7	25.9	2.09
F19	20 May 2022	50	10.51	79.46	3.8	33.82	7.7	25.9	2.10
F19	20 May 2022	51	10.49	79.52	3.8	33.82	7.7	25.9	2.06
F19	20 May 2022	52	10.47	79.58	3.8	33.82	7.7	26.0	2.04
F19	20 May 2022	53	10.44	79.52	3.8	33.83	7.7	26.0	2.00
F19	20 May 2022	54	10.42	79.55	3.8	33.83	7.7	26.0	2.01
F19	20 May 2022	55	10.41	79.78	3.8	33.83	7.7	26.0	1.98
F19	20 May 2022	56	10.38	79.91	3.8	33.83	7.7	26.0	1.94
F19	20 May 2022	57	10.34	79.98	3.8	33.84	7.7	26.0	1.90
F19	20 May 2022	58	10.32	80.18	3.8	33.84	7.7	26.0	1.86
F19	20 May 2022	59	10.32	80.27	3.8	33.84	7.7	26.0	1.86
F19	20 May 2022	60	10.32	80.17	3.8	33.84	7.7	26.0	1.86
F19	20 May 2022	61	10.31	80.27	3.8	33.84	7.7	26.0	1.84
F19	20 May 2022	62	10.31	80.39	3.8	33.84	7.7	26.0	1.88
F19	20 May 2022	63	10.31	80.34	3.8	33.84	7.7	26.0	1.85
F19	20 May 2022	64	10.30	80.15	3.8	33.85	7.7	26.0	1.85
F19	20 May 2022	65	10.30	79.95	3.7	33.85	7.7	26.0	1.83
F19	20 May 2022	66	10.30	79.57	3.7	33.86	7.7	26.0	1.82
F19	20 May 2022	67	10.30	79.67	3.7	33.86	7.7	26.0	1.83
F19	20 May 2022	68	10.31	79.56	3.6	33.86	7.7	26.0	1.82
F19	20 May 2022	69	10.31	79.33	3.6	33.87	7.7	26.0	1.82
F19	20 May 2022	70	10.31	79.48	3.6	33.87	7.7	26.0	1.82
F19	20 May 2022	71	10.31	79.45	3.6	33.86	7.7	26.0	1.83

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F19	20 May 2022	72	10.31	79.12	3.6	33.87	7.7	26.0	1.81
F19	20 May 2022	73	10.31	79.07	3.6	33.87	7.7	26.0	1.80
F19	20 May 2022	74	10.30	79.07	3.6	33.87	7.7	26.0	1.81
F19	20 May 2022	75	10.29	79.11	3.6	33.88	7.7	26.0	1.79
F19	20 May 2022	76	10.28	79.02	3.5	33.88	7.7	26.0	1.79
F19	20 May 2022	77	10.27	78.59	3.5	33.89	7.7	26.0	1.73
F19	20 May 2022	78	10.21	78.26	3.4	33.92	7.7	26.1	1.62
F19	20 May 2022	79	10.14	77.57	3.2	33.95	7.7	26.1	1.58
F19	20 May 2022	80	10.15	77.42	3.2	33.94	7.7	26.1	1.53
F19	20 May 2022	81	10.10	76.74	3.2	33.96	7.7	26.1	1.50
F19	20 May 2022	82	10.08	76.56	3.1	33.96	7.7	26.1	1.49
F19	20 May 2022	83	10.08	76.11	3.1	33.96	7.7	26.1	1.46
F20	20 May 2022	1	16.59	59.70	9.0	33.74	8.2	24.6	9.90
F20	20 May 2022	2	16.56	61.18	8.9	33.74	8.2	24.7	11.18
F20	20 May 2022	3	16.56	61.28	8.9	33.74	8.2	24.7	12.69
F20	20 May 2022	4	16.51	61.45	8.8	33.74	8.2	24.7	12.54
F20	20 May 2022	5	16.49	62.94	8.8	33.74	8.2	24.7	12.52
F20	20 May 2022	6	16.25	64.64	8.5	33.75	8.2	24.7	10.53
F20	20 May 2022	7	16.08	66.75	8.5	33.74	8.2	24.8	8.82
F20	20 May 2022	8	15.84	66.84	8.4	33.74	8.2	24.8	7.75
F20	20 May 2022	9	15.70	66.27	8.3	33.74	8.2	24.8	7.56
F20	20 May 2022	10	15.09	66.04	7.9	33.74	8.2	25.0	7.29
F20	20 May 2022	11	15.00	67.49	7.9	33.73	8.1	25.0	7.30
F20	20 May 2022	12	14.76	68.01	7.7	33.74	8.1	25.1	7.08
F20	20 May 2022	13	14.55	68.83	7.5	33.74	8.1	25.1	6.69
F20	20 May 2022	14	14.36	70.31	7.3	33.73	8.1	25.1	5.97
F20	20 May 2022	15	14.29	71.60	7.2	33.73	8.1	25.1	5.84
F20	20 May 2022	16	14.02	72.86	6.6	33.72	8.1	25.2	4.92
F20	20 May 2022	17	13.45	75.60	6.2	33.70	8.0	25.3	4.12
F20	20 May 2022	18	12.14	77.13	5.4	33.75	7.9	25.6	3.67
F20	20 May 2022	19	12.10	76.43	5.1	33.74	7.8	25.6	3.45
F20	20 May 2022	20	11.77	75.96	5.0	33.75	7.8	25.7	3.57
F20	20 May 2022	21	11.65	75.61	4.8	33.76	7.8	25.7	3.63
F20	20 May 2022	22	11.54	75.89	4.7	33.77	7.8	25.7	3.53
F20	20 May 2022	23	11.50	75.76	4.6	33.77	7.8	25.7	3.47
F20	20 May 2022	24	11.49	75.66	4.6	33.77	7.8	25.7	3.61
F20	20 May 2022	25	11.39	75.50	4.5	33.76	7.8	25.7	3.54
F20	20 May 2022	26	11.18	76.12	4.4	33.75	7.8	25.8	3.56
F20	20 May 2022	27	11.23	77.13	4.4	33.76	7.8	25.8	3.37
F20	20 May 2022	28	10.95	77.64	4.3	33.75	7.8	25.8	3.03
F20	20 May 2022	29	10.95	77.87	4.3	33.75	7.8	25.8	3.03
F20	20 May 2022	30	10.78	79.16	4.2	33.76	7.8	25.8	2.69
F20	20 May 2022	31	10.76	79.79	4.2	33.76	7.8	25.9	2.48
F20	20 May 2022	32	10.67	80.36	4.1	33.77	7.8	25.9	2.30
F20	20 May 2022	33	10.61	80.49	4.0	33.78	7.7	25.9	2.07
F20	20 May 2022	34	10.60	80.58	4.0	33.78	7.7	25.9	2.03
F20	20 May 2022	35	10.57	80.36	4.0	33.79	7.7	25.9	2.05
F20	20 May 2022	36	10.56	80.32	4.0	33.79	7.7	25.9	2.03
F20	20 May 2022	37	10.55	80.40	3.9	33.79	7.7	25.9	2.11
F20	20 May 2022	38	10.55	80.31	3.9	33.79	7.7	25.9	2.06
F20	20 May 2022	39	10.55	80.22	3.9	33.79	7.7	25.9	2.09
F20	20 May 2022	40	10.54	80.23	3.9	33.80	7.7	25.9	2.08
F20	20 May 2022	41	10.54	80.12	3.9	33.80	7.7	25.9	2.07
F20	20 May 2022	42	10.53	80.10	3.9	33.80	7.7	25.9	2.06
F20	20 May 2022	43	10.49	80.02	3.8	33.81	7.7	25.9	2.05
F20	20 May 2022	44	10.48	80.07	3.8	33.81	7.7	25.9	2.02
F20	20 May 2022	45	10.41	80.39	3.8	33.82	7.7	26.0	1.96
F20	20 May 2022	46	10.39	80.42	3.9	33.82	7.7	26.0	1.95
F20	20 May 2022	47	10.38	80.50	3.8	33.83	7.7	26.0	1.91
F20	20 May 2022	48	10.39	80.40	3.9	33.82	7.7	26.0	1.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F20	20 May 2022	49	10.38	80.33	3.8	33.83	7.7	26.0	1.92
F20	20 May 2022	50	10.38	80.28	3.8	33.83	7.7	26.0	1.96
F20	20 May 2022	51	10.38	80.32	3.8	33.83	7.7	26.0	2.03
F20	20 May 2022	52	10.38	80.23	3.8	33.83	7.7	26.0	1.94
F20	20 May 2022	53	10.39	80.17	3.8	33.83	7.7	26.0	1.93
F20	20 May 2022	54	10.39	80.12	3.8	33.83	7.7	26.0	1.95
F20	20 May 2022	55	10.38	80.19	3.8	33.83	7.7	26.0	1.95
F20	20 May 2022	56	10.37	80.19	3.8	33.84	7.7	26.0	1.98
F20	20 May 2022	57	10.37	80.20	3.8	33.84	7.7	26.0	1.97
F20	20 May 2022	58	10.37	80.18	3.8	33.84	7.7	26.0	1.97
F20	20 May 2022	59	10.37	80.07	3.8	33.84	7.7	26.0	1.92
F20	20 May 2022	60	10.38	80.01	3.7	33.84	7.7	26.0	1.91
F20	20 May 2022	61	10.39	80.04	3.7	33.84	7.7	26.0	1.90
F20	20 May 2022	62	10.38	79.89	3.7	33.85	7.7	26.0	1.87
F20	20 May 2022	63	10.37	79.84	3.7	33.86	7.7	26.0	1.85
F20	20 May 2022	64	10.37	79.95	3.7	33.86	7.7	26.0	1.84
F20	20 May 2022	65	10.34	79.94	3.6	33.87	7.7	26.0	1.81
F20	20 May 2022	66	10.34	80.01	3.6	33.87	7.7	26.0	1.80
F20	20 May 2022	67	10.33	80.13	3.6	33.88	7.7	26.0	1.79
F20	20 May 2022	68	10.33	80.04	3.6	33.88	7.7	26.0	1.77
F20	20 May 2022	69	10.32	80.14	3.6	33.89	7.7	26.0	1.75
F20	20 May 2022	70	10.30	80.00	3.5	33.90	7.7	26.0	1.71
F20	20 May 2022	71	10.26	79.58	3.4	33.91	7.7	26.1	1.67
F20	20 May 2022	72	10.24	79.46	3.4	33.91	7.7	26.1	1.63
F20	20 May 2022	73	10.22	79.25	3.4	33.92	7.7	26.1	1.58
F20	20 May 2022	74	10.18	79.06	3.4	33.93	7.7	26.1	1.55
F20	20 May 2022	75	10.18	79.12	3.4	33.92	7.7	26.1	1.55
F20	20 May 2022	76	10.16	79.00	3.3	33.93	7.7	26.1	1.52
F20	20 May 2022	77	10.14	78.45	3.3	33.93	7.7	26.1	1.53
F20	20 May 2022	78	10.11	78.34	3.3	33.94	7.7	26.1	1.48
F20	20 May 2022	79	10.07	78.31	3.2	33.95	7.7	26.1	1.45
F20	20 May 2022	80	10.08	78.23	3.2	33.95	7.7	26.1	1.41
F20	20 May 2022	81	10.04	78.28	3.2	33.96	7.7	26.1	1.40
F20	20 May 2022	82	10.04	78.46	3.1	33.96	7.7	26.1	1.38
F20	20 May 2022	83	10.03	77.75	3.1	33.96	7.7	26.1	1.43
F21	20 May 2022	1	15.78	65.30	8.7	33.73	8.2	24.8	5.26
F21	20 May 2022	2	15.78	65.71	8.7	33.73	8.2	24.8	5.45
F21	20 May 2022	3	15.78	65.58	8.7	33.74	8.2	24.8	6.11
F21	20 May 2022	4	15.72	65.92	8.6	33.74	8.2	24.8	6.76
F21	20 May 2022	5	15.73	66.60	8.5	33.73	8.2	24.8	7.16
F21	20 May 2022	6	15.71	66.82	8.5	33.73	8.2	24.8	7.48
F21	20 May 2022	7	15.71	66.76	8.4	33.73	8.2	24.8	7.67
F21	20 May 2022	8	15.70	66.88	8.4	33.73	8.2	24.8	7.78
F21	20 May 2022	9	15.67	67.95	8.3	33.73	8.2	24.8	7.65
F21	20 May 2022	10	15.66	68.52	8.3	33.73	8.2	24.8	7.41
F21	20 May 2022	11	15.63	68.97	8.2	33.73	8.2	24.9	7.19
F21	20 May 2022	12	15.60	69.73	8.2	33.73	8.2	24.9	6.71
F21	20 May 2022	13	15.50	71.40	8.0	33.72	8.2	24.9	6.08
F21	20 May 2022	14	15.40	73.21	7.9	33.71	8.2	24.9	5.61
F21	20 May 2022	15	15.37	73.59	7.8	33.71	8.1	24.9	5.27
F21	20 May 2022	16	15.31	73.69	7.7	33.71	8.1	24.9	4.94
F21	20 May 2022	17	15.22	75.40	7.6	33.70	8.1	24.9	4.59
F21	20 May 2022	18	14.97	76.99	7.4	33.69	8.1	25.0	3.97
F21	20 May 2022	19	14.46	78.36	7.0	33.69	8.1	25.1	3.33
F21	20 May 2022	20	13.87	78.94	6.5	33.68	8.0	25.2	3.24
F21	20 May 2022	21	13.56	79.58	6.2	33.68	8.0	25.3	2.91
F21	20 May 2022	22	13.42	79.55	5.9	33.69	8.0	25.3	2.69
F21	20 May 2022	23	12.95	79.76	5.7	33.68	7.9	25.4	2.61
F21	20 May 2022	24	12.14	79.78	5.6	33.66	7.9	25.5	2.63
F21	20 May 2022	25	11.99	79.96	5.3	33.67	7.9	25.6	2.84

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F21	20 May 2022	26	11.30	79.74	4.8	33.73	7.8	25.7	2.60
F21	20 May 2022	27	11.08	78.77	4.3	33.77	7.8	25.8	2.69
F21	20 May 2022	28	11.02	78.50	4.1	33.78	7.7	25.8	2.74
F21	20 May 2022	29	11.01	78.37	4.1	33.78	7.7	25.8	2.74
F21	20 May 2022	30	11.01	78.25	4.1	33.78	7.7	25.8	2.72
F21	20 May 2022	31	11.01	78.39	4.1	33.79	7.7	25.8	2.77
F21	20 May 2022	32	11.00	78.30	4.0	33.79	7.7	25.8	2.81
F21	20 May 2022	33	10.98	78.36	4.0	33.79	7.7	25.8	2.80
F21	20 May 2022	34	10.84	79.51	4.0	33.79	7.7	25.9	2.74
F21	20 May 2022	35	10.76	79.83	4.0	33.78	7.7	25.9	2.51
F21	20 May 2022	36	10.76	80.00	4.0	33.78	7.7	25.9	2.35
F21	20 May 2022	37	10.71	80.10	4.0	33.78	7.7	25.9	2.31
F21	20 May 2022	38	10.71	80.40	4.0	33.78	7.7	25.9	2.24
F21	20 May 2022	39	10.61	80.23	3.9	33.80	7.7	25.9	2.28
F21	20 May 2022	40	10.60	80.37	3.9	33.80	7.7	25.9	2.19
F21	20 May 2022	41	10.51	80.44	3.9	33.81	7.7	25.9	2.16
F21	20 May 2022	42	10.43	80.57	3.8	33.83	7.7	26.0	2.12
F21	20 May 2022	43	10.42	80.19	3.8	33.84	7.7	26.0	2.13
F21	20 May 2022	44	10.41	79.99	3.8	33.85	7.7	26.0	2.17
F21	20 May 2022	45	10.40	80.10	3.7	33.85	7.7	26.0	2.15
F21	20 May 2022	46	10.40	80.04	3.7	33.86	7.7	26.0	2.10
F21	20 May 2022	47	10.40	80.06	3.7	33.86	7.7	26.0	2.07
F21	20 May 2022	48	10.40	80.06	3.7	33.86	7.7	26.0	2.09
F21	20 May 2022	49	10.40	80.09	3.7	33.86	7.7	26.0	2.05
F21	20 May 2022	50	10.40	79.92	3.7	33.86	7.7	26.0	2.07
F21	20 May 2022	51	10.40	79.66	3.6	33.87	7.7	26.0	2.08
F21	20 May 2022	52	10.40	79.93	3.7	33.87	7.7	26.0	2.09
F21	20 May 2022	53	10.40	80.02	3.6	33.87	7.7	26.0	2.09
F21	20 May 2022	54	10.39	79.96	3.6	33.87	7.7	26.0	2.05
F21	20 May 2022	55	10.39	80.05	3.6	33.87	7.7	26.0	2.03
F21	20 May 2022	56	10.38	80.02	3.6	33.87	7.7	26.0	2.06
F21	20 May 2022	57	10.37	80.08	3.7	33.87	7.7	26.0	2.05
F21	20 May 2022	58	10.34	79.87	3.6	33.87	7.7	26.0	2.04
F21	20 May 2022	59	10.31	79.50	3.6	33.86	7.7	26.0	2.00
F21	20 May 2022	60	10.28	78.63	3.5	33.86	7.7	26.0	1.94
F21	20 May 2022	61	10.17	77.67	3.4	33.86	7.7	26.0	1.81
F21	20 May 2022	62	10.17	78.46	3.4	33.86	7.7	26.0	1.75
F21	20 May 2022	63	10.15	78.83	3.4	33.87	7.7	26.0	1.73
F21	20 May 2022	64	10.16	79.18	3.4	33.87	7.7	26.0	1.74
F21	20 May 2022	65	10.16	79.81	3.4	33.88	7.7	26.0	1.71
F21	20 May 2022	66	10.17	79.88	3.4	33.88	7.7	26.0	1.74
F21	20 May 2022	67	10.17	80.01	3.4	33.88	7.7	26.0	1.73
F21	20 May 2022	68	10.17	79.97	3.4	33.88	7.7	26.0	1.72
F21	20 May 2022	69	10.17	80.19	3.4	33.88	7.7	26.0	1.69
F21	20 May 2022	70	10.18	80.50	3.5	33.88	7.7	26.0	1.69
F21	20 May 2022	71	10.18	80.44	3.5	33.88	7.7	26.0	1.73
F21	20 May 2022	72	10.18	80.54	3.5	33.88	7.7	26.0	1.69
F21	20 May 2022	73	10.19	80.76	3.5	33.89	7.7	26.1	1.72
F21	20 May 2022	74	10.19	80.21	3.4	33.91	7.7	26.1	1.72
F21	20 May 2022	75	10.17	79.62	3.3	33.93	7.7	26.1	1.72
F21	20 May 2022	76	10.16	79.37	3.3	33.94	7.7	26.1	1.71
F21	20 May 2022	77	10.13	78.64	3.3	33.94	7.7	26.1	1.68
F21	20 May 2022	78	10.12	78.83	3.2	33.94	7.7	26.1	1.69
F21	20 May 2022	79	10.12	78.38	3.2	33.95	7.7	26.1	1.68
F21	20 May 2022	80	10.12	77.82	3.2	33.95	7.7	26.1	1.73
F21	20 May 2022	81	10.11	77.46	3.2	33.95	7.7	26.1	1.72
F21	20 May 2022	82	10.11	72.57	3.2	33.95	7.7	26.1	1.73
F22	20 May 2022	1	16.82	72.72	7.9	33.65	8.1	24.5	2.30
F22	20 May 2022	2	16.80	77.56	7.9	33.65	8.1	24.5	2.41
F22	20 May 2022	3	16.80	78.53	7.9	33.65	8.1	24.5	2.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F22	20 May 2022	4	16.79	78.53	7.9	33.65	8.1	24.5	2.47
F22	20 May 2022	5	16.78	78.41	7.9	33.65	8.1	24.5	2.88
F22	20 May 2022	6	16.77	78.26	7.9	33.65	8.1	24.5	2.71
F22	20 May 2022	7	16.75	78.43	7.9	33.65	8.1	24.5	2.88
F22	20 May 2022	8	16.74	78.48	7.9	33.65	8.1	24.5	2.98
F22	20 May 2022	9	16.69	78.28	7.9	33.65	8.1	24.6	2.91
F22	20 May 2022	10	16.62	77.95	7.9	33.66	8.1	24.6	2.98
F22	20 May 2022	11	16.60	78.06	7.8	33.66	8.1	24.6	2.89
F22	20 May 2022	12	16.53	77.80	7.8	33.66	8.1	24.6	3.08
F22	20 May 2022	13	16.41	77.74	7.6	33.67	8.1	24.6	2.99
F22	20 May 2022	14	16.14	77.06	7.2	33.69	8.1	24.7	3.02
F22	20 May 2022	15	15.16	76.94	7.0	33.71	8.1	24.9	3.20
F22	20 May 2022	16	14.90	76.99	6.8	33.71	8.1	25.0	3.11
F22	20 May 2022	17	14.33	77.84	6.6	33.70	8.1	25.1	2.97
F22	20 May 2022	18	13.95	78.18	6.3	33.70	8.0	25.2	2.95
F22	20 May 2022	19	13.76	78.54	6.1	33.69	8.0	25.2	2.85
F22	20 May 2022	20	12.65	79.06	6.0	33.66	8.0	25.4	2.83
F22	20 May 2022	21	12.66	78.99	6.0	33.65	7.9	25.4	2.86
F22	20 May 2022	22	12.02	79.63	5.8	33.65	7.9	25.5	2.87
F22	20 May 2022	23	11.92	79.68	5.7	33.65	7.9	25.6	2.91
F22	20 May 2022	24	11.78	79.87	5.6	33.66	7.9	25.6	2.81
F22	20 May 2022	25	11.65	80.10	5.3	33.67	7.8	25.6	2.78
F22	20 May 2022	26	11.45	80.18	5.2	33.69	7.8	25.7	2.68
F22	20 May 2022	27	11.43	80.43	5.0	33.69	7.8	25.7	2.60
F22	20 May 2022	28	10.96	80.72	4.8	33.73	7.8	25.8	2.45
F22	20 May 2022	29	10.92	80.92	4.6	33.73	7.8	25.8	2.35
F22	20 May 2022	30	10.88	81.13	4.6	33.73	7.8	25.8	2.24
F22	20 May 2022	31	10.68	81.37	4.4	33.77	7.8	25.9	2.13
F22	20 May 2022	32	10.60	81.47	4.3	33.78	7.8	25.9	2.06
F22	20 May 2022	33	10.58	81.49	4.3	33.78	7.8	25.9	2.00
F22	20 May 2022	34	10.54	81.59	4.2	33.79	7.8	25.9	1.95
F22	20 May 2022	35	10.48	81.67	4.2	33.80	7.8	25.9	1.89
F22	20 May 2022	36	10.43	81.76	4.1	33.81	7.8	25.9	1.82
F22	20 May 2022	37	10.41	81.79	4.1	33.81	7.8	26.0	1.80
F22	20 May 2022	38	10.39	81.86	4.1	33.82	7.8	26.0	1.78
F22	20 May 2022	39	10.35	81.82	4.1	33.82	7.8	26.0	1.74
F22	20 May 2022	40	10.27	81.73	4.0	33.84	7.7	26.0	1.70
F22	20 May 2022	41	10.25	81.60	3.9	33.84	7.7	26.0	1.67
F22	20 May 2022	42	10.25	81.53	3.9	33.84	7.7	26.0	1.68
F22	20 May 2022	43	10.25	81.52	3.9	33.84	7.7	26.0	1.66
F22	20 May 2022	44	10.25	81.52	3.9	33.85	7.7	26.0	1.67
F22	20 May 2022	45	10.24	81.43	3.9	33.85	7.7	26.0	1.66
F22	20 May 2022	46	10.25	81.38	3.9	33.85	7.7	26.0	1.66
F22	20 May 2022	47	10.23	81.39	3.8	33.85	7.7	26.0	1.66
F22	20 May 2022	48	10.22	81.20	3.8	33.85	7.7	26.0	1.66
F22	20 May 2022	49	10.21	80.92	3.7	33.86	7.7	26.0	1.65
F22	20 May 2022	50	10.20	80.85	3.7	33.86	7.7	26.0	1.66
F22	20 May 2022	51	10.16	80.69	3.6	33.87	7.7	26.0	1.62
F22	20 May 2022	52	10.16	80.63	3.6	33.87	7.7	26.0	1.62
F22	20 May 2022	53	10.11	80.31	3.5	33.88	7.7	26.1	1.61
F22	20 May 2022	54	10.10	80.03	3.4	33.88	7.7	26.1	1.61
F22	20 May 2022	55	10.08	79.51	3.4	33.88	7.7	26.1	1.60
F22	20 May 2022	56	10.07	79.06	3.3	33.88	7.7	26.1	1.59
F22	20 May 2022	57	10.06	78.40	3.2	33.88	7.7	26.1	1.56
F22	20 May 2022	58	10.03	77.86	3.1	33.88	7.7	26.1	1.53
F22	20 May 2022	59	10.03	78.04	3.1	33.89	7.7	26.1	1.52
F22	20 May 2022	60	10.02	77.87	3.1	33.89	7.7	26.1	1.55
F22	20 May 2022	61	10.01	77.66	3.1	33.89	7.7	26.1	1.54
F22	20 May 2022	62	10.01	77.36	3.0	33.89	7.7	26.1	1.52
F22	20 May 2022	63	10.00	77.00	3.0	33.89	7.7	26.1	1.51
F22	20 May 2022	64	10.00	77.10	3.0	33.89	7.7	26.1	1.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F22	20 May 2022	65	10.01	77.87	3.1	33.90	7.7	26.1	1.51
F22	20 May 2022	66	10.01	78.42	3.1	33.91	7.7	26.1	1.51
F22	20 May 2022	67	10.02	79.17	3.1	33.91	7.7	26.1	1.51
F22	20 May 2022	68	10.03	78.99	3.1	33.91	7.7	26.1	1.51
F22	20 May 2022	69	10.03	79.42	3.2	33.92	7.7	26.1	1.51
F22	20 May 2022	70	10.05	80.10	3.2	33.93	7.7	26.1	1.54
F22	20 May 2022	71	10.05	80.16	3.2	33.93	7.7	26.1	1.54
F22	20 May 2022	72	10.06	80.35	3.2	33.93	7.7	26.1	1.55
F22	20 May 2022	73	10.06	80.56	3.2	33.93	7.7	26.1	1.55
F22	20 May 2022	74	10.07	80.83	3.2	33.94	7.7	26.1	1.54
F22	20 May 2022	75	10.08	80.92	3.2	33.96	7.7	26.1	1.58
F22	20 May 2022	76	10.09	80.81	3.2	33.96	7.7	26.1	1.60
F22	20 May 2022	77	10.09	80.03	3.2	33.96	7.7	26.1	1.60
F22	20 May 2022	78	10.09	79.95	3.2	33.96	7.7	26.1	1.65
F22	20 May 2022	79	10.09	79.84	3.2	33.96	7.7	26.1	1.65
F22	20 May 2022	80	10.08	79.34	3.2	33.96	7.7	26.1	1.64
F22	20 May 2022	81	10.08	79.19	3.2	33.96	7.7	26.1	1.63
F22	20 May 2022	82	10.08	78.95	3.1	33.96	7.7	26.1	1.62
F22	20 May 2022	83	10.08	78.43	3.2	33.96	7.7	26.1	1.63
F23	20 May 2022	1	16.80	77.95	8.0	33.66	8.1	24.5	2.20
F23	20 May 2022	2	16.79	77.64	8.0	33.66	8.1	24.5	2.16
F23	20 May 2022	3	16.79	77.92	8.0	33.66	8.1	24.5	2.39
F23	20 May 2022	4	16.79	78.31	7.9	33.66	8.1	24.5	2.41
F23	20 May 2022	5	16.79	78.23	7.9	33.66	8.1	24.5	2.68
F23	20 May 2022	6	16.79	78.35	8.0	33.66	8.1	24.5	2.75
F23	20 May 2022	7	16.79	78.09	8.0	33.66	8.1	24.5	2.72
F23	20 May 2022	8	16.79	78.17	7.9	33.66	8.1	24.5	2.82
F23	20 May 2022	9	16.78	78.02	8.0	33.66	8.1	24.5	2.86
F23	20 May 2022	10	16.78	78.00	8.0	33.66	8.1	24.5	3.03
F23	20 May 2022	11	16.78	78.16	7.9	33.66	8.1	24.5	2.79
F23	20 May 2022	12	16.77	78.04	7.9	33.66	8.1	24.5	2.74
F23	20 May 2022	13	16.77	78.09	7.9	33.66	8.1	24.5	2.86
F23	20 May 2022	14	16.75	77.99	7.8	33.66	8.1	24.5	2.75
F23	20 May 2022	15	16.74	78.08	7.8	33.66	8.1	24.5	2.95
F23	20 May 2022	16	16.72	77.81	7.8	33.67	8.1	24.6	3.12
F23	20 May 2022	17	16.67	77.13	7.6	33.68	8.1	24.6	3.09
F23	20 May 2022	18	16.55	75.69	7.4	33.71	8.1	24.6	3.00
F23	20 May 2022	19	16.43	75.56	7.2	33.72	8.1	24.7	2.97
F23	20 May 2022	20	16.25	76.00	7.0	33.73	8.1	24.7	2.82
F23	20 May 2022	21	16.18	76.45	6.9	33.72	8.1	24.7	2.87
F23	20 May 2022	22	15.41	77.08	6.3	33.73	8.1	24.9	2.66
F23	20 May 2022	23	14.53	77.73	5.8	33.73	8.0	25.1	2.47
F23	20 May 2022	24	13.37	78.99	5.5	33.74	7.9	25.3	2.34
F23	20 May 2022	25	12.98	79.14	5.3	33.72	7.9	25.4	2.31
F23	20 May 2022	26	12.53	79.37	5.1	33.72	7.9	25.5	2.27
F23	20 May 2022	27	11.85	79.96	5.0	33.69	7.8	25.6	2.47
F23	20 May 2022	28	11.54	80.38	5.0	33.68	7.8	25.7	2.31
F23	20 May 2022	29	11.44	80.62	5.0	33.68	7.8	25.7	2.28
F23	20 May 2022	30	11.28	80.62	5.0	33.69	7.8	25.7	2.25
F23	20 May 2022	31	11.29	80.69	4.8	33.69	7.8	25.7	2.18
F23	20 May 2022	32	10.90	80.96	4.6	33.73	7.8	25.8	2.03
F23	20 May 2022	33	10.79	81.35	4.5	33.74	7.8	25.8	1.95
F23	20 May 2022	34	10.74	81.32	4.4	33.74	7.8	25.8	1.83
F23	20 May 2022	35	10.64	81.35	4.3	33.77	7.8	25.9	1.84
F23	20 May 2022	36	10.57	81.46	4.2	33.79	7.8	25.9	1.73
F23	20 May 2022	37	10.56	81.35	4.2	33.80	7.8	25.9	1.69
F23	20 May 2022	38	10.49	81.64	4.1	33.82	7.8	25.9	1.65
F23	20 May 2022	39	10.45	81.63	4.0	33.83	7.8	26.0	1.63
F23	20 May 2022	40	10.40	81.70	4.0	33.84	7.7	26.0	1.53
F23	20 May 2022	41	10.38	81.76	4.0	33.84	7.7	26.0	1.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F23	20 May 2022	42	10.37	81.78	4.0	33.84	7.7	26.0	1.46
F23	20 May 2022	43	10.36	81.79	4.0	33.84	7.7	26.0	1.46
F23	20 May 2022	44	10.36	81.70	4.0	33.84	7.7	26.0	1.44
F23	20 May 2022	45	10.35	81.72	4.0	33.84	7.7	26.0	1.43
F23	20 May 2022	46	10.26	81.81	3.9	33.85	7.7	26.0	1.37
F23	20 May 2022	47	10.15	81.97	3.9	33.87	7.7	26.0	1.31
F23	20 May 2022	48	10.13	81.96	3.8	33.87	7.7	26.1	1.29
F23	20 May 2022	49	10.12	81.36	3.8	33.88	7.7	26.1	1.26
F23	20 May 2022	50	10.12	81.30	3.7	33.88	7.7	26.1	1.29
F23	20 May 2022	51	10.12	81.15	3.7	33.88	7.7	26.1	1.27
F23	20 May 2022	52	10.11	80.61	3.6	33.88	7.7	26.1	1.28
F23	20 May 2022	53	10.10	80.91	3.6	33.88	7.7	26.1	1.28
F23	20 May 2022	54	10.09	80.82	3.6	33.88	7.7	26.1	1.27
F23	20 May 2022	55	10.07	80.87	3.6	33.89	7.7	26.1	1.25
F23	20 May 2022	56	10.07	80.63	3.5	33.89	7.7	26.1	1.25
F23	20 May 2022	57	10.05	80.13	3.4	33.90	7.7	26.1	1.25
F23	20 May 2022	58	10.03	79.39	3.3	33.90	7.7	26.1	1.26
F23	20 May 2022	59	10.03	79.03	3.3	33.90	7.7	26.1	1.27
F23	20 May 2022	60	9.99	78.68	3.1	33.90	7.7	26.1	1.26
F23	20 May 2022	61	9.98	78.39	3.1	33.91	7.7	26.1	1.26
F23	20 May 2022	62	9.98	78.33	3.0	33.91	7.7	26.1	1.25
F23	20 May 2022	63	9.98	78.44	3.0	33.91	7.7	26.1	1.25
F23	20 May 2022	64	9.98	78.65	3.1	33.91	7.7	26.1	1.26
F23	20 May 2022	65	9.99	78.96	3.1	33.91	7.7	26.1	1.24
F23	20 May 2022	66	9.99	79.16	3.1	33.91	7.7	26.1	1.25
F23	20 May 2022	67	10.00	79.23	3.1	33.91	7.7	26.1	1.24
F23	20 May 2022	68	10.00	79.48	3.2	33.92	7.7	26.1	1.26
F23	20 May 2022	69	10.01	79.79	3.2	33.92	7.7	26.1	1.25
F23	20 May 2022	70	10.04	80.10	3.2	33.93	7.7	26.1	1.31
F23	20 May 2022	71	10.08	80.49	3.2	33.94	7.7	26.1	1.32
F23	20 May 2022	72	10.08	80.64	3.3	33.94	7.7	26.1	1.33
F23	20 May 2022	73	10.08	80.61	3.2	33.95	7.7	26.1	1.33
F23	20 May 2022	74	10.08	80.61	3.2	33.95	7.7	26.1	1.33
F23	20 May 2022	75	10.07	80.51	3.2	33.95	7.7	26.1	1.34
F23	20 May 2022	76	10.07	80.10	3.2	33.96	7.7	26.1	1.33
F23	20 May 2022	77	10.06	79.50	3.1	33.96	7.7	26.1	1.36
F23	20 May 2022	78	10.06	78.96	3.1	33.96	7.7	26.1	1.33
F23	20 May 2022	79	10.05	78.59	3.1	33.96	7.7	26.1	1.32
F23	20 May 2022	80	10.05	78.27	3.1	33.96	7.7	26.1	1.34
F23	20 May 2022	81	10.05	77.34	3.1	33.96	7.7	26.1	1.34
F24	20 May 2022	1	16.67	76.49	7.9	33.64	8.1	24.6	2.41
F24	20 May 2022	2	16.66	76.85	8.0	33.65	8.1	24.6	2.59
F24	20 May 2022	3	16.66	76.58	8.0	33.65	8.1	24.6	2.65
F24	20 May 2022	4	16.66	78.11	8.0	33.65	8.1	24.6	2.45
F24	20 May 2022	5	16.64	78.28	7.9	33.65	8.1	24.6	2.71
F24	20 May 2022	6	16.64	78.16	8.0	33.65	8.1	24.6	2.81
F24	20 May 2022	7	16.62	78.18	8.0	33.65	8.1	24.6	2.94
F24	20 May 2022	8	16.62	78.14	8.0	33.65	8.1	24.6	3.01
F24	20 May 2022	9	16.62	78.08	8.0	33.65	8.1	24.6	2.83
F24	20 May 2022	10	16.58	78.14	8.0	33.65	8.1	24.6	2.77
F24	20 May 2022	11	16.59	78.12	8.0	33.65	8.1	24.6	2.78
F24	20 May 2022	12	16.51	77.99	8.0	33.65	8.1	24.6	2.73
F24	20 May 2022	13	16.49	77.82	8.0	33.65	8.1	24.6	2.95
F24	20 May 2022	14	16.44	77.51	7.8	33.66	8.1	24.6	2.79
F24	20 May 2022	15	15.95	77.09	7.9	33.68	8.1	24.7	2.78
F24	20 May 2022	16	15.88	77.08	7.7	33.67	8.1	24.8	2.88
F24	20 May 2022	17	15.21	77.12	7.1	33.71	8.1	24.9	2.80
F24	20 May 2022	18	15.10	77.23	6.7	33.71	8.1	25.0	2.70
F24	20 May 2022	19	14.88	77.25	6.3	33.72	8.0	25.0	2.62
F24	20 May 2022	20	14.76	77.58	6.1	33.72	8.0	25.0	2.58

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F24	20 May 2022	21	13.86	78.16	5.7	33.73	8.0	25.2	2.46
F24	20 May 2022	22	13.00	78.99	5.5	33.73	7.9	25.4	2.40
F24	20 May 2022	23	12.91	79.25	5.3	33.73	7.9	25.4	2.35
F24	20 May 2022	24	12.41	79.34	5.1	33.73	7.9	25.5	2.27
F24	20 May 2022	25	12.27	79.40	5.0	33.72	7.9	25.5	2.25
F24	20 May 2022	26	11.94	79.55	4.7	33.74	7.8	25.6	2.17
F24	20 May 2022	27	11.71	79.71	4.5	33.74	7.8	25.7	2.12
F24	20 May 2022	28	11.47	79.88	4.4	33.74	7.8	25.7	2.04
F24	20 May 2022	29	11.03	80.30	4.4	33.74	7.8	25.8	1.98
F24	20 May 2022	30	10.84	81.04	4.4	33.75	7.8	25.8	1.95
F24	20 May 2022	31	10.70	81.34	4.3	33.76	7.8	25.9	1.81
F24	20 May 2022	32	10.61	81.40	4.3	33.76	7.8	25.9	1.71
F24	20 May 2022	33	10.52	81.47	4.2	33.78	7.8	25.9	1.73
F24	20 May 2022	34	10.48	81.55	4.2	33.80	7.8	25.9	1.61
F24	20 May 2022	35	10.46	81.59	4.1	33.81	7.8	25.9	1.58
F24	20 May 2022	36	10.45	81.60	4.1	33.81	7.8	25.9	1.59
F24	20 May 2022	37	10.45	81.56	4.1	33.81	7.8	25.9	1.55
F24	20 May 2022	38	10.45	81.60	4.0	33.82	7.8	26.0	1.53
F24	20 May 2022	39	10.42	81.61	4.0	33.82	7.8	26.0	1.50
F24	20 May 2022	40	10.43	81.54	4.0	33.82	7.7	26.0	1.52
F24	20 May 2022	41	10.41	81.64	4.0	33.83	7.7	26.0	1.56
F24	20 May 2022	42	10.40	81.64	4.0	33.83	7.7	26.0	1.51
F24	20 May 2022	43	10.38	81.61	4.0	33.84	7.7	26.0	1.52
F24	20 May 2022	44	10.29	81.75	3.9	33.86	7.7	26.0	1.44
F24	20 May 2022	45	10.28	81.78	3.9	33.86	7.7	26.0	1.42
F24	20 May 2022	46	10.26	81.78	3.9	33.87	7.7	26.0	1.38
F24	20 May 2022	47	10.25	81.81	3.8	33.87	7.7	26.0	1.40
F24	20 May 2022	48	10.26	81.67	3.8	33.87	7.7	26.0	1.38
F24	20 May 2022	49	10.21	81.78	3.8	33.88	7.7	26.0	1.37
F24	20 May 2022	50	10.20	81.79	3.7	33.88	7.7	26.0	1.34
F24	20 May 2022	51	10.18	81.92	3.7	33.89	7.7	26.1	1.33
F24	20 May 2022	52	10.16	81.75	3.7	33.89	7.7	26.1	1.32
F24	20 May 2022	53	10.15	81.69	3.7	33.89	7.7	26.1	1.29
F24	20 May 2022	54	10.15	81.95	3.8	33.89	7.7	26.1	1.30
F24	20 May 2022	55	10.14	81.95	3.8	33.89	7.7	26.1	1.30
F24	20 May 2022	56	10.12	81.71	3.8	33.89	7.7	26.1	1.38
F24	20 May 2022	57	10.12	81.78	3.8	33.89	7.7	26.1	1.29
F24	20 May 2022	58	10.09	82.03	3.8	33.90	7.7	26.1	1.27
F24	20 May 2022	59	10.06	82.09	3.8	33.90	7.7	26.1	1.26
F24	20 May 2022	60	9.98	82.03	3.8	33.90	7.7	26.1	1.23
F24	20 May 2022	61	9.99	82.10	3.8	33.90	7.7	26.1	1.21
F24	20 May 2022	62	9.99	82.12	3.8	33.90	7.7	26.1	1.23
F24	20 May 2022	63	9.97	82.04	3.8	33.91	7.7	26.1	1.31
F24	20 May 2022	64	9.97	81.87	3.8	33.91	7.7	26.1	1.28
F24	20 May 2022	65	9.97	81.87	3.7	33.91	7.7	26.1	1.22
F24	20 May 2022	66	9.97	81.30	3.6	33.91	7.7	26.1	1.24
F24	20 May 2022	67	9.97	80.51	3.3	33.92	7.7	26.1	1.27
F24	20 May 2022	68	9.95	78.75	3.1	33.92	7.7	26.1	1.27
F24	20 May 2022	69	9.95	78.85	3.1	33.92	7.7	26.1	1.25
F24	20 May 2022	70	9.94	78.59	3.0	33.93	7.7	26.1	1.26
F24	20 May 2022	71	9.94	78.29	3.0	33.93	7.6	26.1	1.24
F24	20 May 2022	72	9.94	78.35	2.9	33.94	7.6	26.1	1.24
F24	20 May 2022	73	9.96	78.62	3.0	33.94	7.6	26.1	1.25
F24	20 May 2022	74	9.98	79.10	3.0	33.95	7.7	26.1	1.26
F24	20 May 2022	75	10.00	79.20	3.1	33.96	7.7	26.1	1.28
F24	20 May 2022	76	10.00	79.29	3.1	33.97	7.7	26.1	1.27
F24	20 May 2022	77	10.00	79.08	3.0	33.96	7.7	26.1	1.29
F24	20 May 2022	78	9.99	78.81	3.0	33.96	7.7	26.1	1.28
F24	20 May 2022	79	9.99	78.82	3.0	33.96	7.7	26.1	1.27
F24	20 May 2022	80	9.97	78.19	3.0	33.96	7.7	26.1	1.27
F24	20 May 2022	81	9.94	77.58	2.9	33.96	7.6	26.2	1.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F24	20 May 2022	82	9.93	77.20	2.9	33.96	7.6	26.2	1.26
F25	20 May 2022	1	16.55	78.18	8.1	33.64	8.1	24.6	2.27
F25	20 May 2022	2	16.54	78.26	8.1	33.64	8.1	24.6	2.26
F25	20 May 2022	3	16.54	78.49	8.1	33.64	8.1	24.6	2.35
F25	20 May 2022	4	16.52	78.49	8.0	33.64	8.1	24.6	2.62
F25	20 May 2022	5	16.52	78.48	8.1	33.64	8.1	24.6	2.56
F25	20 May 2022	6	16.52	78.36	8.1	33.64	8.1	24.6	2.42
F25	20 May 2022	7	16.51	78.49	8.1	33.64	8.1	24.6	2.48
F25	20 May 2022	8	16.51	78.48	8.1	33.64	8.1	24.6	2.53
F25	20 May 2022	9	16.50	78.38	8.1	33.64	8.1	24.6	2.56
F25	20 May 2022	10	16.46	78.51	8.1	33.64	8.1	24.6	2.58
F25	20 May 2022	11	16.45	78.32	8.1	33.64	8.1	24.6	2.58
F25	20 May 2022	12	16.40	78.24	8.2	33.64	8.1	24.6	2.74
F25	20 May 2022	13	16.40	78.32	8.1	33.64	8.1	24.6	2.66
F25	20 May 2022	14	16.12	77.70	8.0	33.67	8.1	24.7	2.63
F25	20 May 2022	15	15.50	76.51	7.9	33.70	8.1	24.9	2.66
F25	20 May 2022	16	15.34	76.20	7.6	33.70	8.1	24.9	2.85
F25	20 May 2022	17	14.77	76.55	7.1	33.71	8.1	25.0	2.92
F25	20 May 2022	18	14.24	77.63	6.3	33.71	8.0	25.1	2.61
F25	20 May 2022	19	14.21	77.93	6.0	33.72	8.0	25.2	2.32
F25	20 May 2022	20	13.81	77.98	5.6	33.74	8.0	25.3	2.21
F25	20 May 2022	21	13.64	78.39	5.4	33.74	7.9	25.3	2.05
F25	20 May 2022	22	13.51	78.66	5.4	33.73	7.9	25.3	2.10
F25	20 May 2022	23	12.87	78.93	5.1	33.74	7.9	25.4	2.00
F25	20 May 2022	24	12.68	79.15	5.0	33.73	7.9	25.5	1.99
F25	20 May 2022	25	12.40	79.52	4.9	33.75	7.9	25.5	1.96
F25	20 May 2022	26	12.04	79.49	4.7	33.76	7.8	25.6	1.91
F25	20 May 2022	27	11.78	79.66	4.5	33.77	7.8	25.7	1.85
F25	20 May 2022	28	11.60	79.82	4.3	33.77	7.8	25.7	1.78
F25	20 May 2022	29	11.24	79.88	4.2	33.79	7.8	25.8	1.75
F25	20 May 2022	30	11.21	80.29	4.1	33.78	7.8	25.8	1.74
F25	20 May 2022	31	10.84	80.66	4.1	33.80	7.8	25.9	1.66
F25	20 May 2022	32	10.84	80.81	4.1	33.79	7.8	25.9	1.65
F25	20 May 2022	33	10.76	80.89	4.0	33.80	7.8	25.9	1.80
F25	20 May 2022	34	10.65	80.94	4.1	33.81	7.8	25.9	1.58
F25	20 May 2022	35	10.62	80.98	4.0	33.81	7.7	25.9	1.46
F25	20 May 2022	36	10.47	81.53	4.0	33.83	7.7	26.0	1.36
F25	20 May 2022	37	10.41	81.74	3.9	33.84	7.7	26.0	1.34
F25	20 May 2022	38	10.31	81.79	3.9	33.85	7.7	26.0	1.55
F25	20 May 2022	39	10.32	81.83	3.9	33.85	7.7	26.0	1.41
F25	20 May 2022	40	10.29	81.84	3.9	33.86	7.7	26.0	1.25
F25	20 May 2022	41	10.29	81.80	3.8	33.86	7.7	26.0	1.20
F25	20 May 2022	42	10.29	81.81	3.8	33.86	7.7	26.0	1.18
F25	20 May 2022	43	10.28	81.81	3.8	33.87	7.7	26.0	1.19
F25	20 May 2022	44	10.27	81.84	3.8	33.87	7.7	26.0	1.19
F25	20 May 2022	45	10.27	81.85	3.8	33.87	7.7	26.0	1.19
F25	20 May 2022	46	10.27	81.79	3.8	33.87	7.7	26.0	1.18
F25	20 May 2022	47	10.27	81.80	3.8	33.87	7.7	26.0	1.22
F25	20 May 2022	48	10.25	81.73	3.8	33.88	7.7	26.0	1.17
F25	20 May 2022	49	10.25	81.79	3.8	33.88	7.7	26.0	1.16
F25	20 May 2022	50	10.21	81.82	3.7	33.89	7.7	26.1	1.15
F25	20 May 2022	51	10.21	81.72	3.7	33.89	7.7	26.1	1.13
F25	20 May 2022	52	10.21	81.82	3.7	33.90	7.7	26.1	1.14
F25	20 May 2022	53	10.20	81.81	3.6	33.90	7.7	26.1	1.15
F25	20 May 2022	54	10.20	81.82	3.6	33.90	7.7	26.1	1.13
F25	20 May 2022	55	10.18	81.81	3.6	33.90	7.7	26.1	1.12
F25	20 May 2022	56	10.18	81.83	3.6	33.91	7.7	26.1	1.11
F25	20 May 2022	57	10.18	81.79	3.6	33.91	7.7	26.1	1.15
F25	20 May 2022	58	10.18	81.80	3.6	33.91	7.7	26.1	1.13
F25	20 May 2022	59	10.16	81.79	3.6	33.92	7.7	26.1	1.10

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F25	20 May 2022	60	10.11	81.78	3.5	33.93	7.7	26.1	1.09
F25	20 May 2022	61	10.07	81.99	3.5	33.93	7.7	26.1	1.45
F25	20 May 2022	62	10.03	82.09	3.6	33.93	7.7	26.1	1.19
F25	20 May 2022	63	10.01	82.20	3.6	33.93	7.7	26.1	1.04
F25	20 May 2022	64	10.00	82.20	3.7	33.93	7.7	26.1	1.01
F25	20 May 2022	65	9.97	82.22	3.7	33.93	7.7	26.1	0.98
F25	20 May 2022	66	9.88	82.06	3.8	33.92	7.7	26.1	0.98
F25	20 May 2022	67	9.87	82.19	3.8	33.92	7.7	26.1	0.96
F25	20 May 2022	68	9.83	82.29	3.7	33.93	7.7	26.1	0.96
F25	20 May 2022	69	9.82	81.99	3.5	33.94	7.7	26.2	1.04
F25	20 May 2022	70	9.82	81.58	3.3	33.94	7.7	26.2	1.06
F25	20 May 2022	71	9.87	79.87	3.1	33.96	7.7	26.2	0.98
F25	20 May 2022	72	9.87	79.30	3.0	33.97	7.7	26.2	0.98
F25	20 May 2022	73	9.87	79.26	3.0	33.96	7.7	26.2	0.96
F25	20 May 2022	74	9.86	79.30	3.0	33.97	7.7	26.2	0.97
F25	20 May 2022	75	9.85	79.08	3.0	33.97	7.7	26.2	0.97
F25	20 May 2022	76	9.85	79.04	3.0	33.97	7.7	26.2	0.97
F25	20 May 2022	77	9.85	78.99	3.0	33.97	7.7	26.2	0.98
F25	20 May 2022	78	9.85	78.99	3.0	33.97	7.7	26.2	0.99
F25	20 May 2022	79	9.85	78.97	3.0	33.97	7.7	26.2	0.98
F25	20 May 2022	80	9.84	78.79	3.0	33.97	7.7	26.2	0.98
F25	20 May 2022	81	9.84	78.72	3.0	33.97	7.7	26.2	0.98
F26	18 May 2022	1	17.08	75.28	8.2	33.67	8.2	24.5	1.54
F26	18 May 2022	2	17.04	76.90	8.2	33.67	8.2	24.5	1.57
F26	18 May 2022	3	16.91	77.21	8.2	33.67	8.2	24.5	1.60
F26	18 May 2022	4	16.76	76.93	8.3	33.66	8.2	24.5	1.67
F26	18 May 2022	5	16.67	76.77	8.3	33.66	8.2	24.6	1.72
F26	18 May 2022	6	16.67	76.87	8.3	33.66	8.2	24.6	1.80
F26	18 May 2022	7	16.57	76.77	8.3	33.66	8.2	24.6	1.82
F26	18 May 2022	8	16.14	76.09	8.4	33.66	8.2	24.7	2.01
F26	18 May 2022	9	16.19	74.43	8.6	33.66	8.2	24.7	2.41
F26	18 May 2022	10	15.97	68.39	8.8	33.71	8.2	24.8	4.27
F26	18 May 2022	11	15.47	68.70	8.6	33.69	8.2	24.9	4.86
F26	18 May 2022	12	15.42	71.56	8.5	33.69	8.2	24.9	4.93
F26	18 May 2022	13	15.31	71.71	8.4	33.68	8.2	24.9	4.95
F26	18 May 2022	14	15.30	71.93	8.4	33.68	8.2	24.9	5.07
F26	18 May 2022	15	15.23	72.09	8.2	33.68	8.2	24.9	5.24
F26	18 May 2022	16	15.12	72.11	8.2	33.68	8.2	24.9	5.23
F26	18 May 2022	17	15.00	72.43	7.9	33.69	8.2	25.0	5.34
F26	18 May 2022	18	14.51	72.69	7.2	33.69	8.1	25.1	5.01
F26	18 May 2022	19	14.05	73.82	6.8	33.71	8.1	25.2	5.06
F26	18 May 2022	20	13.98	73.71	6.7	33.72	8.1	25.2	5.45
F26	18 May 2022	21	13.93	72.06	6.5	33.75	8.0	25.2	5.85
F26	18 May 2022	22	12.75	70.65	6.0	33.80	8.0	25.5	5.55
F26	18 May 2022	23	12.69	75.52	5.4	33.75	7.9	25.5	5.22
F26	18 May 2022	24	11.06	76.84	4.6	33.82	7.9	25.8	4.10
F26	18 May 2022	25	10.96	77.34	4.3	33.80	7.8	25.9	3.39
F26	18 May 2022	26	11.04	77.29	4.3	33.80	7.8	25.8	3.10
F26	18 May 2022	27	10.85	78.52	4.3	33.81	7.8	25.9	2.81
F26	18 May 2022	28	10.68	78.91	4.2	33.82	7.8	25.9	2.54
F26	18 May 2022	29	10.63	79.32	4.1	33.83	7.8	25.9	2.44
F26	18 May 2022	30	10.58	79.73	4.0	33.84	7.8	25.9	2.27
F26	18 May 2022	31	10.42	80.21	3.9	33.86	7.8	26.0	2.06
F26	18 May 2022	32	10.31	80.88	3.8	33.88	7.8	26.0	1.84
F26	18 May 2022	33	10.29	81.31	3.8	33.88	7.8	26.0	1.74
F26	18 May 2022	34	10.14	81.37	3.8	33.90	7.8	26.1	1.62
F26	18 May 2022	35	10.13	81.41	3.7	33.91	7.8	26.1	1.57
F26	18 May 2022	36	10.13	81.12	3.7	33.91	7.8	26.1	1.57
F26	18 May 2022	37	10.09	81.30	3.7	33.91	7.8	26.1	1.54
F26	18 May 2022	38	10.10	81.67	3.7	33.92	7.8	26.1	1.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F26	18 May 2022	39	10.07	81.63	3.7	33.92	7.8	26.1	1.45
F26	18 May 2022	40	10.06	81.57	3.7	33.92	7.8	26.1	1.45
F26	18 May 2022	41	10.06	81.57	3.7	33.93	7.8	26.1	1.44
F26	18 May 2022	42	10.07	81.51	3.7	33.93	7.8	26.1	1.45
F26	18 May 2022	43	10.06	81.47	3.7	33.93	7.8	26.1	1.46
F26	18 May 2022	44	10.07	81.39	3.6	33.93	7.8	26.1	1.47
F26	18 May 2022	45	10.08	81.21	3.6	33.94	7.8	26.1	1.49
F26	18 May 2022	46	10.09	80.85	3.5	33.95	7.7	26.1	1.51
F26	18 May 2022	47	10.11	80.48	3.4	33.96	7.7	26.1	1.54
F26	18 May 2022	48	10.09	80.37	3.3	33.97	7.7	26.1	1.51
F26	18 May 2022	49	10.05	80.74	3.4	33.97	7.7	26.1	1.50
F26	18 May 2022	50	10.03	81.04	3.4	33.97	7.7	26.1	1.61
F26	18 May 2022	51	10.02	81.13	3.4	33.97	7.7	26.1	1.56
F26	18 May 2022	52	10.01	81.10	3.4	33.96	7.7	26.1	1.49
F26	18 May 2022	53	9.98	81.31	3.4	33.97	7.7	26.1	1.48
F26	18 May 2022	54	9.97	81.42	3.5	33.97	7.7	26.2	1.44
F26	18 May 2022	55	9.95	81.40	3.5	33.97	7.7	26.2	1.43
F26	18 May 2022	56	9.94	81.64	3.5	33.97	7.7	26.2	1.44
F26	18 May 2022	57	9.93	81.75	3.5	33.97	7.7	26.2	1.36
F26	18 May 2022	58	9.91	81.78	3.5	33.97	7.7	26.2	1.35
F26	18 May 2022	59	9.91	81.93	3.5	33.98	7.7	26.2	1.33
F26	18 May 2022	60	9.88	81.97	3.5	33.98	7.7	26.2	1.32
F26	18 May 2022	61	9.84	82.01	3.5	34.00	7.7	26.2	1.30
F26	18 May 2022	62	9.84	81.94	3.5	34.00	7.7	26.2	1.29
F26	18 May 2022	63	9.83	82.01	3.5	34.00	7.7	26.2	1.29
F26	18 May 2022	64	9.83	82.13	3.5	34.00	7.7	26.2	1.29
F26	18 May 2022	65	9.82	82.16	3.4	34.01	7.7	26.2	1.28
F26	18 May 2022	66	9.82	82.06	3.4	34.02	7.7	26.2	1.29
F26	18 May 2022	67	9.83	82.01	3.3	34.03	7.7	26.2	1.27
F26	18 May 2022	68	9.83	81.86	3.3	34.03	7.7	26.2	1.27
F26	18 May 2022	69	9.83	81.82	3.3	34.03	7.7	26.2	1.29
F26	18 May 2022	70	9.84	81.70	3.2	34.04	7.7	26.2	1.31
F26	18 May 2022	71	9.84	81.58	3.2	34.05	7.7	26.2	1.33
F26	18 May 2022	72	9.84	81.59	3.2	34.05	7.7	26.2	1.29
F26	18 May 2022	73	9.84	81.51	3.2	34.05	7.7	26.2	1.30
F26	18 May 2022	74	9.84	81.51	3.2	34.05	7.7	26.2	1.32
F26	18 May 2022	75	9.84	81.50	3.2	34.05	7.7	26.2	1.32
F26	18 May 2022	76	9.84	81.46	3.1	34.05	7.7	26.2	1.32
F26	18 May 2022	77	9.84	81.49	3.1	34.05	7.7	26.2	1.31
F26	18 May 2022	78	9.84	81.44	3.1	34.06	7.7	26.2	1.32
F26	18 May 2022	79	9.84	81.48	3.1	34.06	7.7	26.2	1.31
F26	18 May 2022	80	9.84	81.55	3.1	34.06	7.7	26.2	1.33
F26	18 May 2022	81	9.84	81.47	3.0	34.07	7.7	26.3	1.31
F26	18 May 2022	82	9.84	81.45	3.0	34.07	7.7	26.3	1.31
F26	18 May 2022	83	9.84	81.41	3.0	34.07	7.7	26.3	1.32
F26	18 May 2022	84	9.84	81.45	3.0	34.07	7.7	26.3	1.31
F26	18 May 2022	85	9.83	81.60	3.0	34.08	7.7	26.3	1.31
F26	18 May 2022	86	9.83	81.56	3.0	34.08	7.7	26.3	1.31
F26	18 May 2022	87	9.83	81.43	2.9	34.09	7.7	26.3	1.31
F26	18 May 2022	88	9.83	81.26	2.8	34.09	7.7	26.3	1.32
F26	18 May 2022	89	9.81	80.84	2.8	34.10	7.7	26.3	1.33
F26	18 May 2022	90	9.81	80.76	2.8	34.10	7.7	26.3	1.32
F26	18 May 2022	91	9.80	80.76	2.8	34.11	7.7	26.3	1.34
F26	18 May 2022	92	9.80	80.64	2.7	34.11	7.7	26.3	1.34
F26	18 May 2022	93	9.80	80.58	2.7	34.11	7.7	26.3	1.34
F26	18 May 2022	94	9.80	80.49	2.7	34.11	7.7	26.3	1.34
F26	18 May 2022	95	9.79	80.47	2.7	34.11	7.7	26.3	1.35
F26	18 May 2022	96	9.79	80.27	2.7	34.11	7.7	26.3	1.38
F26	18 May 2022	97	9.79	80.08	2.7	34.11	7.7	26.3	1.35
F26	18 May 2022	98	9.79	80.11	2.7	34.11	7.7	26.3	1.34
F26	18 May 2022	99	9.79	79.54	2.7	34.11	7.7	26.3	1.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F26	18 May 2022	100	9.78	79.18	2.7	34.11	7.7	26.3	1.35
F27	18 May 2022	1	17.23	78.12	8.0	33.62	8.2	24.4	1.56
F27	18 May 2022	2	17.22	78.43	8.0	33.62	8.2	24.4	1.58
F27	18 May 2022	3	17.23	78.30	8.0	33.62	8.2	24.4	1.61
F27	18 May 2022	4	17.17	78.32	8.0	33.62	8.2	24.4	1.65
F27	18 May 2022	5	17.09	78.10	8.1	33.62	8.2	24.4	1.70
F27	18 May 2022	6	16.85	77.89	8.1	33.63	8.2	24.5	1.81
F27	18 May 2022	7	16.54	77.86	8.2	33.63	8.2	24.6	1.90
F27	18 May 2022	8	16.54	77.53	8.2	33.62	8.2	24.6	1.95
F27	18 May 2022	9	16.21	77.49	8.2	33.63	8.2	24.6	2.03
F27	18 May 2022	10	16.15	77.77	8.1	33.62	8.2	24.7	2.10
F27	18 May 2022	11	15.66	77.96	8.0	33.62	8.2	24.8	2.24
F27	18 May 2022	12	15.24	78.22	8.0	33.61	8.1	24.9	2.27
F27	18 May 2022	13	15.05	77.58	8.1	33.61	8.1	24.9	2.62
F27	18 May 2022	14	14.49	75.91	8.1	33.63	8.2	25.0	2.81
F27	18 May 2022	15	14.00	75.92	7.8	33.60	8.1	25.1	3.10
F27	18 May 2022	16	13.64	77.00	7.6	33.60	8.1	25.2	3.38
F27	18 May 2022	17	13.52	77.06	7.5	33.60	8.1	25.2	3.19
F27	18 May 2022	18	13.37	77.22	7.4	33.61	8.1	25.2	3.29
F27	18 May 2022	19	13.23	77.10	7.2	33.62	8.0	25.3	3.49
F27	18 May 2022	20	13.17	76.96	6.9	33.62	8.0	25.3	3.65
F27	18 May 2022	21	13.09	77.06	6.5	33.63	8.0	25.3	3.60
F27	18 May 2022	22	12.72	77.94	6.3	33.64	8.0	25.4	3.48
F27	18 May 2022	23	12.63	78.77	5.9	33.64	7.9	25.4	3.24
F27	18 May 2022	24	12.17	79.28	5.6	33.65	7.9	25.5	3.05
F27	18 May 2022	25	11.91	79.73	5.5	33.65	7.9	25.6	3.02
F27	18 May 2022	26	11.81	80.02	5.2	33.65	7.9	25.6	3.01
F27	18 May 2022	27	11.50	80.38	5.1	33.67	7.8	25.7	2.82
F27	18 May 2022	28	11.16	80.81	4.9	33.70	7.8	25.7	2.52
F27	18 May 2022	29	10.84	81.11	4.7	33.73	7.8	25.8	2.21
F27	18 May 2022	30	10.74	81.21	4.5	33.75	7.8	25.9	2.11
F27	18 May 2022	31	10.70	80.90	4.4	33.77	7.8	25.9	2.03
F27	18 May 2022	32	10.70	80.68	4.3	33.78	7.8	25.9	2.06
F27	18 May 2022	33	10.70	80.71	4.3	33.79	7.8	25.9	2.07
F27	18 May 2022	34	10.68	80.55	4.2	33.80	7.8	25.9	2.18
F27	18 May 2022	35	10.60	79.55	4.0	33.84	7.8	25.9	2.34
F27	18 May 2022	36	10.59	78.68	3.9	33.86	7.8	26.0	2.52
F27	18 May 2022	37	10.58	78.63	3.8	33.87	7.8	26.0	2.45
F27	18 May 2022	38	10.55	78.54	3.8	33.87	7.8	26.0	2.36
F27	18 May 2022	39	10.48	79.20	3.8	33.88	7.8	26.0	2.38
F27	18 May 2022	40	10.42	79.81	3.8	33.88	7.8	26.0	2.18
F27	18 May 2022	41	10.37	80.11	3.8	33.88	7.8	26.0	2.07
F27	18 May 2022	42	10.33	80.24	3.8	33.89	7.8	26.0	1.98
F27	18 May 2022	43	10.32	80.08	3.7	33.90	7.8	26.0	1.95
F27	18 May 2022	44	10.31	79.93	3.6	33.91	7.7	26.0	1.95
F27	18 May 2022	45	10.30	79.79	3.6	33.92	7.7	26.1	1.85
F27	18 May 2022	46	10.27	79.69	3.5	33.92	7.7	26.1	1.86
F27	18 May 2022	47	10.27	79.58	3.5	33.93	7.7	26.1	1.83
F27	18 May 2022	48	10.28	79.56	3.5	33.93	7.7	26.1	1.86
F27	18 May 2022	49	10.21	78.02	3.5	33.93	7.7	26.1	1.78
F27	18 May 2022	50	10.16	80.31	3.5	33.93	7.7	26.1	1.71
F27	18 May 2022	51	10.14	80.83	3.6	33.94	7.7	26.1	1.67
F27	18 May 2022	52	10.14	80.87	3.5	33.94	7.7	26.1	1.62
F27	18 May 2022	53	10.13	80.78	3.5	33.94	7.7	26.1	1.61
F27	18 May 2022	54	10.12	80.92	3.5	33.94	7.7	26.1	1.62
F27	18 May 2022	55	10.13	80.79	3.5	33.95	7.7	26.1	1.58
F27	18 May 2022	56	10.11	80.94	3.5	33.95	7.7	26.1	1.57
F27	18 May 2022	57	10.09	81.03	3.5	33.95	7.7	26.1	1.55
F27	18 May 2022	58	10.08	81.12	3.5	33.95	7.7	26.1	1.54
F27	18 May 2022	59	10.08	81.16	3.5	33.95	7.7	26.1	1.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F27	18 May 2022	60	10.07	81.18	3.5	33.95	7.7	26.1	1.52
F27	18 May 2022	61	10.07	81.21	3.5	33.95	7.7	26.1	1.53
F27	18 May 2022	62	10.02	81.24	3.5	33.95	7.7	26.1	1.49
F27	18 May 2022	63	10.04	81.31	3.4	33.96	7.7	26.1	1.47
F27	18 May 2022	64	10.04	81.25	3.4	33.96	7.7	26.1	1.46
F27	18 May 2022	65	10.04	81.11	3.4	33.96	7.7	26.1	1.46
F27	18 May 2022	66	10.04	81.19	3.4	33.96	7.7	26.1	1.47
F27	18 May 2022	67	9.99	81.34	3.4	33.97	7.7	26.1	1.44
F27	18 May 2022	68	9.95	81.16	3.4	33.97	7.7	26.2	1.42
F27	18 May 2022	69	9.93	81.40	3.4	33.98	7.7	26.2	1.39
F27	18 May 2022	70	9.92	81.25	3.3	33.99	7.7	26.2	1.39
F27	18 May 2022	71	9.92	80.84	3.2	34.00	7.7	26.2	1.37
F27	18 May 2022	72	9.93	80.55	3.2	34.00	7.7	26.2	1.36
F27	18 May 2022	73	9.92	80.51	3.2	34.00	7.7	26.2	1.37
F27	18 May 2022	74	9.92	80.45	3.1	34.00	7.7	26.2	1.36
F27	18 May 2022	75	9.91	80.35	3.1	34.01	7.7	26.2	1.37
F27	18 May 2022	76	9.90	80.04	3.1	34.01	7.7	26.2	1.38
F27	18 May 2022	77	9.90	80.06	3.0	34.02	7.7	26.2	1.37
F27	18 May 2022	78	9.89	80.05	3.0	34.02	7.7	26.2	1.37
F27	18 May 2022	79	9.89	80.41	3.1	34.02	7.7	26.2	1.37
F27	18 May 2022	80	9.89	80.49	3.1	34.02	7.7	26.2	1.37
F27	18 May 2022	81	9.89	80.30	3.0	34.02	7.7	26.2	1.37
F27	18 May 2022	82	9.88	80.37	3.0	34.03	7.7	26.2	1.36
F27	18 May 2022	83	9.88	80.49	3.0	34.03	7.7	26.2	1.37
F27	18 May 2022	84	9.87	80.69	3.1	34.03	7.7	26.2	1.37
F27	18 May 2022	85	9.87	80.76	3.1	34.03	7.7	26.2	1.37
F27	18 May 2022	86	9.86	80.62	3.0	34.04	7.7	26.2	1.37
F27	18 May 2022	87	9.85	80.58	3.0	34.05	7.7	26.2	1.40
F27	18 May 2022	88	9.85	80.73	3.0	34.05	7.7	26.2	1.37
F27	18 May 2022	89	9.85	80.76	3.0	34.05	7.7	26.2	1.36
F27	18 May 2022	90	9.84	80.85	3.0	34.05	7.7	26.2	1.36
F27	18 May 2022	91	9.84	80.77	3.0	34.06	7.7	26.2	1.36
F27	18 May 2022	92	9.84	80.75	3.0	34.06	7.7	26.2	1.38
F27	18 May 2022	93	9.83	80.49	2.9	34.07	7.7	26.3	1.38
F27	18 May 2022	94	9.83	80.42	2.9	34.07	7.7	26.3	1.38
F27	18 May 2022	95	9.83	80.45	2.9	34.07	7.7	26.3	1.39
F27	18 May 2022	96	9.82	80.32	2.9	34.07	7.7	26.3	1.33
F27	18 May 2022	97	9.81	80.12	2.9	34.08	7.7	26.3	1.35
F27	18 May 2022	98	9.79	80.00	2.9	34.08	7.7	26.3	1.36
F27	18 May 2022	99	9.77	79.83	2.9	34.09	7.7	26.3	1.35
F27	18 May 2022	100	9.77	79.37	2.9	34.09	7.7	26.3	1.36
F28	18 May 2022	1	17.14	77.56	8.1	33.62	8.2	24.4	1.51
F28	18 May 2022	2	17.10	78.08	8.0	33.62	8.2	24.4	1.55
F28	18 May 2022	3	17.08	78.18	8.0	33.62	8.2	24.4	1.59
F28	18 May 2022	4	16.95	78.13	8.0	33.62	8.2	24.5	1.64
F28	18 May 2022	5	16.89	78.08	8.1	33.62	8.2	24.5	1.69
F28	18 May 2022	6	16.82	77.89	8.1	33.62	8.2	24.5	1.77
F28	18 May 2022	7	16.63	77.91	8.1	33.62	8.2	24.5	1.88
F28	18 May 2022	8	16.41	77.93	8.1	33.62	8.2	24.6	1.86
F28	18 May 2022	9	16.19	78.13	8.2	33.62	8.2	24.6	1.94
F28	18 May 2022	10	15.90	78.32	8.1	33.62	8.2	24.7	2.02
F28	18 May 2022	11	15.67	78.33	8.1	33.62	8.1	24.8	2.11
F28	18 May 2022	12	15.57	78.46	8.1	33.62	8.1	24.8	2.13
F28	18 May 2022	13	15.24	78.45	8.0	33.62	8.1	24.9	2.16
F28	18 May 2022	14	14.72	78.00	8.0	33.61	8.1	25.0	2.26
F28	18 May 2022	15	14.44	78.45	7.8	33.60	8.1	25.0	2.47
F28	18 May 2022	16	14.21	78.38	7.7	33.60	8.1	25.1	2.61
F28	18 May 2022	17	14.18	78.46	7.7	33.60	8.1	25.1	2.63
F28	18 May 2022	18	14.10	78.30	7.5	33.60	8.1	25.1	2.88
F28	18 May 2022	19	13.64	78.13	7.3	33.62	8.1	25.2	3.14

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F28	18 May 2022	20	13.11	78.30	7.1	33.62	8.0	25.3	3.11
F28	18 May 2022	21	12.97	78.06	7.0	33.61	8.0	25.3	3.14
F28	18 May 2022	22	12.93	78.03	6.9	33.62	8.0	25.3	3.87
F28	18 May 2022	23	12.79	78.30	6.9	33.63	8.0	25.4	3.40
F28	18 May 2022	24	12.66	78.89	6.7	33.63	8.0	25.4	3.29
F28	18 May 2022	25	12.36	79.45	6.3	33.64	8.0	25.5	3.14
F28	18 May 2022	26	11.95	79.78	5.8	33.66	7.9	25.6	3.02
F28	18 May 2022	27	11.85	79.96	5.4	33.66	7.9	25.6	2.92
F28	18 May 2022	28	11.77	80.05	5.3	33.66	7.9	25.6	2.74
F28	18 May 2022	29	11.47	80.44	5.1	33.68	7.9	25.7	2.75
F28	18 May 2022	30	11.40	80.80	5.1	33.68	7.8	25.7	2.43
F28	18 May 2022	31	11.08	81.05	5.0	33.71	7.8	25.8	2.24
F28	18 May 2022	32	10.96	81.34	4.8	33.72	7.8	25.8	2.07
F28	18 May 2022	33	10.79	80.46	4.7	33.73	7.8	25.8	1.96
F28	18 May 2022	34	10.75	80.76	4.6	33.73	7.8	25.8	1.92
F28	18 May 2022	35	10.71	81.43	4.6	33.74	7.8	25.8	1.88
F28	18 May 2022	36	10.60	81.70	4.5	33.75	7.8	25.9	1.80
F28	18 May 2022	37	10.56	81.94	4.4	33.76	7.8	25.9	1.68
F28	18 May 2022	38	10.41	82.14	4.3	33.79	7.8	25.9	1.62
F28	18 May 2022	39	10.36	82.06	4.2	33.80	7.8	26.0	1.55
F28	18 May 2022	40	10.32	82.10	4.2	33.81	7.8	26.0	1.67
F28	18 May 2022	41	10.26	81.53	4.0	33.84	7.8	26.0	1.50
F28	18 May 2022	42	10.25	81.39	3.9	33.86	7.8	26.0	1.51
F28	18 May 2022	43	10.25	81.61	3.9	33.86	7.8	26.0	1.54
F28	18 May 2022	44	10.25	81.56	3.9	33.87	7.8	26.0	1.52
F28	18 May 2022	45	10.26	81.57	3.9	33.87	7.8	26.0	1.58
F28	18 May 2022	46	10.30	81.23	3.8	33.89	7.8	26.0	1.65
F28	18 May 2022	47	10.34	80.50	3.7	33.91	7.8	26.0	1.81
F28	18 May 2022	48	10.29	80.59	3.6	33.91	7.8	26.1	1.78
F28	18 May 2022	49	10.21	81.01	3.6	33.92	7.8	26.1	1.72
F28	18 May 2022	50	10.18	81.22	3.6	33.92	7.8	26.1	1.65
F28	18 May 2022	51	10.14	81.41	3.6	33.92	7.8	26.1	1.58
F28	18 May 2022	52	10.14	81.43	3.6	33.93	7.7	26.1	1.55
F28	18 May 2022	53	10.14	81.36	3.6	33.93	7.7	26.1	1.53
F28	18 May 2022	54	10.14	81.41	3.6	33.93	7.7	26.1	1.53
F28	18 May 2022	55	10.13	81.37	3.6	33.93	7.7	26.1	1.55
F28	18 May 2022	56	10.13	81.44	3.6	33.93	7.7	26.1	1.54
F28	18 May 2022	57	10.10	81.46	3.5	33.94	7.7	26.1	1.52
F28	18 May 2022	58	10.10	81.45	3.5	33.94	7.7	26.1	1.51
F28	18 May 2022	59	10.10	81.50	3.5	33.94	7.7	26.1	1.48
F28	18 May 2022	60	10.10	81.49	3.5	33.94	7.7	26.1	1.47
F28	18 May 2022	61	10.08	81.44	3.5	33.94	7.7	26.1	1.46
F28	18 May 2022	62	10.04	81.57	3.5	33.95	7.7	26.1	1.43
F28	18 May 2022	63	10.03	81.55	3.5	33.95	7.7	26.1	1.41
F28	18 May 2022	64	10.03	81.45	3.4	33.96	7.7	26.1	1.41
F28	18 May 2022	65	10.04	81.42	3.4	33.96	7.7	26.1	1.41
F28	18 May 2022	66	10.05	81.42	3.4	33.96	7.7	26.1	1.39
F28	18 May 2022	67	10.05	81.32	3.4	33.96	7.7	26.1	1.42
F28	18 May 2022	68	10.06	81.17	3.3	33.97	7.7	26.1	1.42
F28	18 May 2022	69	10.05	80.95	3.3	33.97	7.7	26.1	1.40
F28	18 May 2022	70	10.03	80.78	3.3	33.97	7.7	26.1	1.40
F28	18 May 2022	71	10.00	80.03	3.2	33.98	7.7	26.2	1.37
F28	18 May 2022	72	9.99	80.78	3.2	33.98	7.7	26.2	1.37
F28	18 May 2022	73	9.99	80.89	3.2	33.98	7.7	26.2	1.35
F28	18 May 2022	74	9.97	81.17	3.2	33.98	7.7	26.2	1.33
F28	18 May 2022	75	9.95	81.27	3.3	33.98	7.7	26.2	1.32
F28	18 May 2022	76	9.94	81.34	3.3	33.98	7.7	26.2	1.30
F28	18 May 2022	77	9.93	81.31	3.3	33.98	7.7	26.2	1.29
F28	18 May 2022	78	9.92	81.15	3.2	33.99	7.7	26.2	1.30
F28	18 May 2022	79	9.92	81.25	3.2	33.99	7.7	26.2	1.30
F28	18 May 2022	80	9.91	81.16	3.2	33.99	7.7	26.2	1.30

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F28	18 May 2022	81	9.91	81.08	3.1	33.99	7.7	26.2	1.30
F28	18 May 2022	82	9.92	80.99	3.1	33.99	7.7	26.2	1.28
F28	18 May 2022	83	9.91	80.79	3.1	34.00	7.7	26.2	1.29
F28	18 May 2022	84	9.92	81.05	3.1	34.00	7.7	26.2	1.30
F28	18 May 2022	85	9.89	80.80	3.1	34.02	7.7	26.2	1.31
F28	18 May 2022	86	9.86	80.48	3.0	34.03	7.7	26.2	1.31
F28	18 May 2022	87	9.84	80.35	3.0	34.04	7.7	26.2	1.32
F28	18 May 2022	88	9.82	80.32	3.0	34.05	7.7	26.2	1.35
F28	18 May 2022	89	9.80	80.25	3.0	34.06	7.7	26.2	1.36
F28	18 May 2022	90	9.78	80.37	3.0	34.06	7.7	26.3	1.41
F28	18 May 2022	91	9.78	80.40	3.0	34.06	7.7	26.3	1.39
F28	18 May 2022	92	9.76	80.39	3.0	34.07	7.7	26.3	1.36
F28	18 May 2022	93	9.75	80.57	3.0	34.07	7.7	26.3	1.36
F28	18 May 2022	94	9.75	80.54	3.0	34.08	7.7	26.3	1.38
F28	18 May 2022	95	9.75	80.80	3.0	34.09	7.7	26.3	1.41
F28	18 May 2022	96	9.76	80.91	2.9	34.09	7.7	26.3	1.36
F28	18 May 2022	97	9.74	81.19	2.8	34.12	7.7	26.3	1.35
F28	18 May 2022	98	9.73	80.87	2.8	34.12	7.7	26.3	1.38
F28	18 May 2022	99	9.73	80.87	2.8	34.12	7.7	26.3	1.32
F28	18 May 2022	100	9.73	80.68	2.7	34.12	7.7	26.3	1.36
F28	18 May 2022	101	9.73	80.63	2.7	34.12	7.7	26.3	1.35
F29	18 May 2022	1	16.92	77.85	8.1	33.60	8.2	24.5	1.60
F29	18 May 2022	2	16.88	78.11	8.1	33.60	8.2	24.5	1.60
F29	18 May 2022	3	16.86	78.03	8.1	33.60	8.2	24.5	1.64
F29	18 May 2022	4	16.81	77.94	8.1	33.60	8.2	24.5	1.71
F29	18 May 2022	5	16.75	77.87	8.1	33.61	8.2	24.5	1.75
F29	18 May 2022	6	16.70	77.81	8.1	33.61	8.2	24.5	1.81
F29	18 May 2022	7	16.65	77.82	8.1	33.61	8.2	24.5	1.89
F29	18 May 2022	8	16.57	77.90	8.1	33.62	8.2	24.6	1.93
F29	18 May 2022	9	16.45	77.94	8.1	33.62	8.2	24.6	1.99
F29	18 May 2022	10	16.30	77.93	8.1	33.62	8.2	24.6	2.14
F29	18 May 2022	11	16.07	78.03	8.2	33.62	8.2	24.7	2.13
F29	18 May 2022	12	15.75	78.13	8.1	33.62	8.2	24.7	2.25
F29	18 May 2022	13	15.51	78.46	7.9	33.62	8.1	24.8	2.23
F29	18 May 2022	14	14.95	78.46	8.1	33.60	8.1	24.9	2.35
F29	18 May 2022	15	14.77	77.69	8.2	33.60	8.1	24.9	2.45
F29	18 May 2022	16	14.50	76.96	8.1	33.60	8.1	25.0	2.67
F29	18 May 2022	17	14.05	76.37	7.9	33.59	8.1	25.1	2.77
F29	18 May 2022	18	13.91	77.96	7.8	33.59	8.1	25.1	2.74
F29	18 May 2022	19	13.91	78.17	7.7	33.59	8.1	25.1	2.84
F29	18 May 2022	20	13.90	78.32	7.6	33.59	8.1	25.1	2.99
F29	18 May 2022	21	13.76	78.36	7.4	33.59	8.1	25.1	3.23
F29	18 May 2022	22	13.37	77.89	7.3	33.59	8.1	25.2	3.58
F29	18 May 2022	23	13.20	77.84	7.0	33.60	8.0	25.3	3.64
F29	18 May 2022	24	12.71	78.15	6.8	33.61	8.0	25.4	3.57
F29	18 May 2022	25	12.39	78.80	6.6	33.63	8.0	25.5	3.39
F29	18 May 2022	26	12.31	79.14	6.3	33.63	8.0	25.5	3.27
F29	18 May 2022	27	11.83	79.72	6.1	33.65	7.9	25.6	3.10
F29	18 May 2022	28	11.74	80.11	5.8	33.65	7.9	25.6	2.99
F29	18 May 2022	29	11.60	80.33	5.5	33.66	7.9	25.6	2.67
F29	18 May 2022	30	11.50	80.40	5.1	33.67	7.9	25.6	2.54
F29	18 May 2022	31	11.27	80.77	5.0	33.69	7.8	25.7	2.88
F29	18 May 2022	32	11.30	80.74	5.0	33.69	7.8	25.7	2.31
F29	18 May 2022	33	11.10	81.06	4.9	33.71	7.8	25.7	2.21
F29	18 May 2022	34	10.85	81.26	4.7	33.73	7.8	25.8	2.41
F29	18 May 2022	35	10.70	81.51	4.6	33.75	7.8	25.9	2.13
F29	18 May 2022	36	10.61	81.64	4.5	33.76	7.8	25.9	1.90
F29	18 May 2022	37	10.56	81.67	4.4	33.76	7.8	25.9	1.75
F29	18 May 2022	38	10.52	81.82	4.4	33.77	7.8	25.9	1.70
F29	18 May 2022	39	10.49	82.02	4.4	33.77	7.8	25.9	1.67

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F29	18 May 2022	40	10.40	82.13	4.3	33.79	7.8	25.9	1.56
F29	18 May 2022	41	10.36	82.14	4.3	33.80	7.8	26.0	1.53
F29	18 May 2022	42	10.36	82.17	4.3	33.80	7.8	26.0	1.55
F29	18 May 2022	43	10.32	82.16	4.2	33.81	7.8	26.0	1.51
F29	18 May 2022	44	10.31	82.12	4.2	33.81	7.8	26.0	1.50
F29	18 May 2022	45	10.28	82.03	4.2	33.82	7.8	26.0	1.48
F29	18 May 2022	46	10.26	81.98	4.1	33.82	7.8	26.0	1.58
F29	18 May 2022	47	10.23	81.84	4.0	33.84	7.8	26.0	1.45
F29	18 May 2022	48	10.19	81.72	3.9	33.86	7.8	26.0	1.43
F29	18 May 2022	49	10.17	81.62	3.8	33.87	7.8	26.0	1.41
F29	18 May 2022	50	10.16	81.55	3.8	33.88	7.8	26.1	1.38
F29	18 May 2022	51	10.15	81.53	3.7	33.88	7.8	26.1	1.40
F29	18 May 2022	52	10.14	81.47	3.7	33.89	7.8	26.1	1.39
F29	18 May 2022	53	10.14	81.36	3.7	33.89	7.8	26.1	1.41
F29	18 May 2022	54	10.14	81.41	3.6	33.90	7.8	26.1	1.37
F29	18 May 2022	55	10.13	81.29	3.6	33.90	7.7	26.1	1.37
F29	18 May 2022	56	10.13	81.24	3.6	33.91	7.7	26.1	1.38
F29	18 May 2022	57	10.12	80.74	3.5	33.91	7.7	26.1	1.40
F29	18 May 2022	58	10.10	80.47	3.5	33.92	7.7	26.1	1.42
F29	18 May 2022	59	10.09	80.62	3.4	33.92	7.7	26.1	1.41
F29	18 May 2022	60	10.08	80.85	3.4	33.93	7.7	26.1	1.44
F29	18 May 2022	61	10.08	80.78	3.4	33.94	7.7	26.1	1.44
F29	18 May 2022	62	10.07	80.95	3.4	33.94	7.7	26.1	1.41
F29	18 May 2022	63	10.07	81.17	3.4	33.94	7.7	26.1	1.41
F29	18 May 2022	64	10.07	81.29	3.4	33.95	7.7	26.1	1.40
F29	18 May 2022	65	10.06	81.34	3.4	33.95	7.7	26.1	1.41
F29	18 May 2022	66	10.05	81.29	3.4	33.95	7.7	26.1	1.41
F29	18 May 2022	67	10.05	81.41	3.4	33.96	7.7	26.1	1.40
F29	18 May 2022	68	10.03	81.47	3.4	33.96	7.7	26.1	1.40
F29	18 May 2022	69	10.03	81.48	3.3	33.97	7.7	26.1	1.38
F29	18 May 2022	70	10.01	81.47	3.3	33.97	7.7	26.1	1.37
F29	18 May 2022	71	10.00	81.45	3.3	33.98	7.7	26.2	1.37
F29	18 May 2022	72	9.99	81.48	3.3	33.98	7.7	26.2	1.36
F29	18 May 2022	73	9.99	81.48	3.3	33.98	7.7	26.2	1.35
F29	18 May 2022	74	9.98	81.50	3.2	33.98	7.7	26.2	1.34
F29	18 May 2022	75	9.94	81.58	3.3	33.99	7.7	26.2	1.34
F29	18 May 2022	76	9.92	81.66	3.3	33.99	7.7	26.2	1.33
F29	18 May 2022	77	9.91	81.64	3.2	34.00	7.7	26.2	1.35
F29	18 May 2022	78	9.91	81.51	3.2	34.01	7.7	26.2	1.33
F29	18 May 2022	79	9.90	81.24	3.2	34.01	7.7	26.2	1.35
F29	18 May 2022	80	9.90	81.07	3.1	34.01	7.7	26.2	1.33
F29	18 May 2022	81	9.89	80.95	3.1	34.02	7.7	26.2	1.32
F29	18 May 2022	82	9.89	80.69	3.1	34.02	7.7	26.2	1.34
F29	18 May 2022	83	9.89	81.02	3.1	34.02	7.7	26.2	1.34
F29	18 May 2022	84	9.88	81.04	3.1	34.02	7.7	26.2	1.33
F29	18 May 2022	85	9.88	81.11	3.1	34.02	7.7	26.2	1.34
F29	18 May 2022	86	9.86	81.19	3.1	34.03	7.7	26.2	1.34
F29	18 May 2022	87	9.85	81.17	3.1	34.03	7.7	26.2	1.38
F29	18 May 2022	88	9.85	81.09	3.1	34.03	7.7	26.2	1.36
F29	18 May 2022	89	9.82	81.17	3.1	34.04	7.7	26.2	1.35
F29	18 May 2022	90	9.79	81.19	3.1	34.05	7.7	26.2	1.33
F29	18 May 2022	91	9.78	81.17	3.0	34.06	7.7	26.3	1.35
F29	18 May 2022	92	9.76	81.05	3.0	34.07	7.7	26.3	1.36
F29	18 May 2022	93	9.75	81.06	3.0	34.08	7.7	26.3	1.40
F29	18 May 2022	94	9.75	80.91	2.9	34.09	7.7	26.3	1.47
F29	18 May 2022	95	9.74	81.10	2.8	34.11	7.7	26.3	1.44
F29	18 May 2022	96	9.74	81.09	2.8	34.11	7.7	26.3	1.43
F29	18 May 2022	97	9.74	81.19	2.8	34.11	7.7	26.3	1.41
F29	18 May 2022	98	9.74	81.17	2.8	34.11	7.7	26.3	1.41
F29	18 May 2022	99	9.73	81.12	2.8	34.11	7.7	26.3	1.44
F29	18 May 2022	100	9.73	80.06	2.8	34.12	7.7	26.3	1.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F29	18 May 2022	101	9.74	80.37	2.8	34.11	7.7	26.3	1.45
F30	18 May 2022	1	16.82	76.55	8.2	33.62	8.2	24.5	2.15
F30	18 May 2022	2	16.82	77.46	8.2	33.62	8.2	24.5	2.18
F30	18 May 2022	3	16.82	78.10	8.1	33.62	8.2	24.5	2.32
F30	18 May 2022	4	16.80	78.26	8.1	33.62	8.2	24.5	2.39
F30	18 May 2022	5	16.78	78.17	8.1	33.62	8.2	24.5	2.42
F30	18 May 2022	6	16.75	78.13	8.1	33.62	8.2	24.5	2.46
F30	18 May 2022	7	16.70	78.12	8.1	33.62	8.2	24.5	2.62
F30	18 May 2022	8	16.57	78.02	8.1	33.63	8.2	24.6	2.66
F30	18 May 2022	9	16.27	78.14	8.2	33.63	8.2	24.6	2.63
F30	18 May 2022	10	15.94	78.25	8.2	33.63	8.2	24.7	2.75
F30	18 May 2022	11	15.71	78.29	8.3	33.62	8.2	24.8	2.79
F30	18 May 2022	12	15.70	78.54	8.2	33.62	8.2	24.8	2.86
F30	18 May 2022	13	15.18	78.46	8.1	33.61	8.2	24.9	3.10
F30	18 May 2022	14	14.76	78.03	8.2	33.61	8.1	24.9	3.27
F30	18 May 2022	15	14.45	77.24	8.2	33.61	8.1	25.0	3.64
F30	18 May 2022	16	14.27	75.89	8.1	33.61	8.1	25.1	4.08
F30	18 May 2022	17	14.18	76.47	8.0	33.60	8.1	25.1	4.15
F30	18 May 2022	18	13.81	77.72	7.6	33.59	8.1	25.1	3.84
F30	18 May 2022	19	13.34	78.02	7.3	33.59	8.1	25.2	4.06
F30	18 May 2022	20	13.05	78.02	7.0	33.59	8.0	25.3	3.91
F30	18 May 2022	21	12.81	78.06	6.8	33.60	8.0	25.3	3.84
F30	18 May 2022	22	12.72	78.39	6.7	33.60	8.0	25.4	3.86
F30	18 May 2022	23	12.57	78.55	6.7	33.61	8.0	25.4	3.58
F30	18 May 2022	24	12.50	78.81	6.7	33.62	8.0	25.4	3.49
F30	18 May 2022	25	12.45	79.00	6.6	33.62	8.0	25.4	3.50
F30	18 May 2022	26	12.12	79.43	6.4	33.63	8.0	25.5	3.58
F30	18 May 2022	27	11.86	79.79	6.1	33.64	7.9	25.6	3.17
F30	18 May 2022	28	11.67	80.16	5.9	33.65	7.9	25.6	2.96
F30	18 May 2022	29	11.53	80.32	5.7	33.65	7.9	25.6	2.89
F30	18 May 2022	30	11.38	80.88	5.4	33.67	7.9	25.7	2.65
F30	18 May 2022	31	11.36	80.93	5.2	33.67	7.9	25.7	2.52
F30	18 May 2022	32	11.12	80.98	4.9	33.71	7.8	25.7	2.34
F30	18 May 2022	33	10.98	81.13	4.7	33.73	7.8	25.8	2.23
F30	18 May 2022	34	10.90	81.31	4.7	33.73	7.8	25.8	2.13
F30	18 May 2022	35	10.81	81.40	4.6	33.74	7.8	25.8	2.07
F30	18 May 2022	36	10.74	81.50	4.6	33.75	7.8	25.8	1.93
F30	18 May 2022	37	10.70	81.43	4.5	33.75	7.8	25.9	1.89
F30	18 May 2022	38	10.69	81.61	4.5	33.75	7.8	25.9	1.86
F30	18 May 2022	39	10.69	81.60	4.5	33.75	7.8	25.9	2.05
F30	18 May 2022	40	10.68	81.66	4.5	33.75	7.8	25.9	1.96
F30	18 May 2022	41	10.66	81.68	4.4	33.76	7.8	25.9	1.90
F30	18 May 2022	42	10.59	81.76	4.3	33.77	7.8	25.9	1.84
F30	18 May 2022	43	10.56	81.85	4.3	33.78	7.8	25.9	1.75
F30	18 May 2022	44	10.46	82.00	4.2	33.80	7.8	25.9	1.68
F30	18 May 2022	45	10.30	82.20	4.2	33.81	7.8	26.0	1.61
F30	18 May 2022	46	10.26	82.31	4.2	33.82	7.8	26.0	1.58
F30	18 May 2022	47	10.24	82.37	4.1	33.83	7.8	26.0	1.55
F30	18 May 2022	48	10.24	82.38	4.1	33.83	7.8	26.0	1.52
F30	18 May 2022	49	10.23	82.43	4.1	33.83	7.8	26.0	1.50
F30	18 May 2022	50	10.21	82.40	4.0	33.85	7.8	26.0	1.48
F30	18 May 2022	51	10.18	82.39	3.9	33.87	7.8	26.0	1.47
F30	18 May 2022	52	10.17	82.35	3.8	33.88	7.8	26.1	1.46
F30	18 May 2022	53	10.16	82.31	3.8	33.90	7.8	26.1	1.46
F30	18 May 2022	54	10.14	82.33	3.8	33.90	7.8	26.1	1.44
F30	18 May 2022	55	10.10	82.31	3.7	33.91	7.8	26.1	1.44
F30	18 May 2022	56	10.08	82.20	3.7	33.91	7.8	26.1	1.42
F30	18 May 2022	57	10.07	81.66	3.6	33.91	7.8	26.1	1.42
F30	18 May 2022	58	10.05	80.63	3.6	33.92	7.7	26.1	1.42
F30	18 May 2022	59	10.04	80.42	3.5	33.92	7.7	26.1	1.41

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F30	18 May 2022	60	9.99	79.48	3.3	33.92	7.7	26.1	1.41
F30	18 May 2022	61	9.95	77.39	3.2	33.93	7.7	26.1	1.40
F30	18 May 2022	62	9.93	76.53	3.1	33.93	7.7	26.1	1.43
F30	18 May 2022	63	9.91	76.57	3.0	33.95	7.7	26.1	1.42
F30	18 May 2022	64	9.90	77.10	3.0	33.96	7.7	26.2	1.41
F30	18 May 2022	65	9.90	77.22	3.0	33.96	7.7	26.2	1.40
F30	18 May 2022	66	9.89	76.97	3.0	33.96	7.7	26.2	1.41
F30	18 May 2022	67	9.85	76.31	3.0	33.96	7.7	26.2	1.44
F30	18 May 2022	68	9.86	76.47	3.0	33.96	7.7	26.2	1.45
F30	18 May 2022	69	9.85	76.37	3.0	33.96	7.7	26.2	1.43
F30	18 May 2022	70	9.83	75.89	3.0	33.97	7.7	26.2	1.42
F30	18 May 2022	71	9.83	75.90	3.0	33.97	7.7	26.2	1.41
F30	18 May 2022	72	9.82	75.99	3.0	33.97	7.7	26.2	1.44
F30	18 May 2022	73	9.82	75.79	3.0	33.98	7.7	26.2	1.41
F30	18 May 2022	74	9.81	75.93	3.0	33.98	7.7	26.2	1.42
F30	18 May 2022	75	9.80	75.82	3.0	33.98	7.7	26.2	1.42
F30	18 May 2022	76	9.79	76.30	3.0	33.99	7.7	26.2	1.42
F30	18 May 2022	77	9.79	76.53	3.0	33.99	7.7	26.2	1.42
F30	18 May 2022	78	9.79	76.48	3.0	33.99	7.7	26.2	1.42
F30	18 May 2022	79	9.80	77.78	3.0	34.00	7.7	26.2	1.42
F30	18 May 2022	80	9.80	78.57	3.0	34.01	7.7	26.2	1.40
F30	18 May 2022	81	9.80	78.78	3.1	34.01	7.7	26.2	1.40
F30	18 May 2022	82	9.80	78.58	3.1	34.01	7.7	26.2	1.38
F30	18 May 2022	83	9.81	79.45	3.0	34.01	7.7	26.2	1.39
F30	18 May 2022	84	9.83	80.62	3.1	34.02	7.7	26.2	1.40
F30	18 May 2022	85	9.83	81.42	3.1	34.02	7.7	26.2	1.39
F30	18 May 2022	86	9.82	81.69	3.1	34.03	7.7	26.2	1.39
F30	18 May 2022	87	9.79	81.98	3.2	34.03	7.7	26.2	1.39
F30	18 May 2022	88	9.76	82.09	3.2	34.03	7.7	26.2	1.43
F30	18 May 2022	89	9.71	82.21	3.2	34.04	7.7	26.3	1.38
F30	18 May 2022	90	9.70	82.24	3.2	34.05	7.7	26.3	1.38
F30	18 May 2022	91	9.71	82.13	3.2	34.05	7.7	26.3	1.39
F30	18 May 2022	92	9.71	81.98	3.1	34.06	7.7	26.3	1.40
F30	18 May 2022	93	9.71	81.90	3.1	34.07	7.7	26.3	1.44
F30	18 May 2022	94	9.71	81.90	3.1	34.07	7.7	26.3	1.45
F30	18 May 2022	95	9.71	81.90	3.1	34.07	7.7	26.3	1.46
F30	18 May 2022	96	9.72	81.90	3.1	34.07	7.7	26.3	1.51
F30	18 May 2022	97	9.72	81.91	3.1	34.08	7.7	26.3	1.40
F30	18 May 2022	98	9.72	81.84	3.0	34.08	7.7	26.3	1.41
F30	18 May 2022	99	9.72	81.58	2.9	34.11	7.7	26.3	1.44
F30	18 May 2022	100	9.72	80.61	2.8	34.11	7.7	26.3	1.43
F31	18 May 2022	1	16.87	77.31	8.1	33.64	8.2	24.5	2.38
F31	18 May 2022	2	16.87	77.87	8.1	33.64	8.2	24.5	2.46
F31	18 May 2022	3	16.87	77.97	8.1	33.64	8.2	24.5	2.61
F31	18 May 2022	4	16.86	77.99	8.1	33.63	8.2	24.5	2.65
F31	18 May 2022	5	16.84	77.91	8.1	33.63	8.2	24.5	2.72
F31	18 May 2022	6	16.82	77.91	8.1	33.63	8.2	24.5	2.75
F31	18 May 2022	7	16.81	77.91	8.1	33.63	8.2	24.5	2.86
F31	18 May 2022	8	16.78	77.85	8.1	33.63	8.2	24.5	2.69
F31	18 May 2022	9	16.74	77.84	8.1	33.63	8.2	24.5	2.91
F31	18 May 2022	10	16.66	78.00	8.1	33.63	8.2	24.5	2.90
F31	18 May 2022	11	16.55	77.89	8.1	33.64	8.2	24.6	2.94
F31	18 May 2022	12	16.16	77.81	8.2	33.65	8.2	24.7	2.92
F31	18 May 2022	13	15.73	77.48	8.3	33.65	8.2	24.8	2.91
F31	18 May 2022	14	15.48	77.19	8.4	33.63	8.2	24.8	3.07
F31	18 May 2022	15	15.44	77.69	8.4	33.62	8.2	24.8	3.23
F31	18 May 2022	16	15.41	77.77	8.3	33.62	8.2	24.8	3.16
F31	18 May 2022	17	15.31	77.69	8.3	33.61	8.2	24.8	3.31
F31	18 May 2022	18	15.16	77.45	8.1	33.62	8.2	24.9	3.50
F31	18 May 2022	19	14.66	77.28	8.1	33.61	8.1	25.0	3.87

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F31	18 May 2022	20	14.47	76.12	8.2	33.61	8.1	25.0	4.08
F31	18 May 2022	21	14.17	75.26	8.1	33.62	8.1	25.1	4.50
F31	18 May 2022	22	13.85	75.66	7.9	33.61	8.1	25.1	4.58
F31	18 May 2022	23	13.72	76.14	7.7	33.61	8.1	25.2	4.57
F31	18 May 2022	24	13.39	76.84	7.4	33.60	8.1	25.2	4.22
F31	18 May 2022	25	13.04	77.75	7.1	33.60	8.0	25.3	4.03
F31	18 May 2022	26	12.96	78.21	7.0	33.60	8.0	25.3	3.97
F31	18 May 2022	27	12.65	78.28	6.8	33.62	8.0	25.4	3.79
F31	18 May 2022	28	12.58	78.25	6.6	33.62	8.0	25.4	4.09
F31	18 May 2022	29	12.46	78.35	6.5	33.62	8.0	25.4	3.65
F31	18 May 2022	30	12.23	78.96	6.3	33.63	8.0	25.5	3.42
F31	18 May 2022	31	12.06	79.38	5.9	33.64	7.9	25.5	3.36
F31	18 May 2022	32	11.91	80.10	5.5	33.65	7.9	25.6	3.10
F31	18 May 2022	33	11.50	80.58	5.3	33.68	7.9	25.7	2.80
F31	18 May 2022	34	11.37	80.82	5.3	33.69	7.9	25.7	2.77
F31	18 May 2022	35	11.34	80.89	5.2	33.69	7.9	25.7	2.68
F31	18 May 2022	36	11.23	80.21	5.1	33.70	7.8	25.7	2.65
F31	18 May 2022	37	11.12	80.87	5.0	33.72	7.8	25.8	2.49
F31	18 May 2022	38	11.05	81.11	4.9	33.73	7.8	25.8	2.42
F31	18 May 2022	39	10.99	81.13	4.7	33.73	7.8	25.8	2.36
F31	18 May 2022	40	10.83	81.34	4.6	33.75	7.8	25.8	2.23
F31	18 May 2022	41	10.74	81.45	4.5	33.76	7.8	25.9	2.24
F31	18 May 2022	42	10.67	81.51	4.4	33.77	7.8	25.9	2.15
F31	18 May 2022	43	10.64	81.55	4.4	33.77	7.8	25.9	2.07
F31	18 May 2022	44	10.59	81.61	4.3	33.78	7.8	25.9	1.98
F31	18 May 2022	45	10.53	81.65	4.2	33.79	7.8	25.9	1.94
F31	18 May 2022	46	10.48	81.75	4.1	33.81	7.8	25.9	1.89
F31	18 May 2022	47	10.43	81.84	4.1	33.82	7.8	26.0	1.83
F31	18 May 2022	48	10.41	81.89	4.1	33.82	7.8	26.0	1.83
F31	18 May 2022	49	10.40	81.93	4.0	33.83	7.8	26.0	1.79
F31	18 May 2022	50	10.37	81.92	4.0	33.83	7.8	26.0	1.75
F31	18 May 2022	51	10.23	82.20	4.1	33.85	7.8	26.0	1.73
F31	18 May 2022	52	10.17	82.38	4.1	33.85	7.8	26.0	1.65
F31	18 May 2022	53	10.15	82.33	4.0	33.86	7.8	26.0	1.63
F31	18 May 2022	54	10.16	82.31	3.9	33.87	7.8	26.0	1.63
F31	18 May 2022	55	10.17	82.31	3.9	33.87	7.8	26.0	1.62
F31	18 May 2022	56	10.18	82.26	3.8	33.88	7.8	26.0	1.61
F31	18 May 2022	57	10.18	82.29	3.7	33.92	7.8	26.1	1.60
F31	18 May 2022	58	10.15	82.37	3.6	33.93	7.7	26.1	1.58
F31	18 May 2022	59	9.98	82.54	3.8	33.93	7.8	26.1	1.54
F31	18 May 2022	60	9.95	82.61	3.9	33.92	7.8	26.1	1.52
F31	18 May 2022	61	9.93	82.59	3.9	33.92	7.8	26.1	1.51
F31	18 May 2022	62	9.92	82.59	3.9	33.92	7.8	26.1	1.51
F31	18 May 2022	63	9.91	82.64	3.9	33.93	7.8	26.1	1.51
F31	18 May 2022	64	9.89	82.67	3.9	33.93	7.8	26.1	1.50
F31	18 May 2022	65	9.84	82.58	3.8	33.94	7.8	26.2	1.49
F31	18 May 2022	66	9.84	82.61	3.8	33.94	7.8	26.2	1.50
F31	18 May 2022	67	9.83	82.67	3.8	33.94	7.8	26.2	1.50
F31	18 May 2022	68	9.81	82.68	3.7	33.94	7.8	26.2	1.49
F31	18 May 2022	69	9.79	82.68	3.7	33.95	7.8	26.2	1.49
F31	18 May 2022	70	9.77	82.69	3.7	33.95	7.8	26.2	1.49
F31	18 May 2022	71	9.76	82.69	3.7	33.95	7.8	26.2	1.52
F31	18 May 2022	72	9.75	82.61	3.7	33.95	7.8	26.2	1.48
F31	18 May 2022	73	9.74	82.69	3.7	33.95	7.8	26.2	1.48
F31	18 May 2022	74	9.73	82.69	3.6	33.95	7.8	26.2	1.49
F31	18 May 2022	75	9.73	82.69	3.6	33.96	7.8	26.2	1.48
F31	18 May 2022	76	9.73	82.72	3.6	33.96	7.8	26.2	1.48
F31	18 May 2022	77	9.73	82.70	3.7	33.96	7.7	26.2	1.48
F31	18 May 2022	78	9.72	82.72	3.6	33.96	7.7	26.2	1.48
F31	18 May 2022	79	9.72	82.69	3.6	33.97	7.7	26.2	1.48
F31	18 May 2022	80	9.74	82.50	3.6	33.98	7.7	26.2	1.48

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F31	18 May 2022	81	9.74	82.50	3.5	33.98	7.7	26.2	1.48
F31	18 May 2022	82	9.74	82.25	3.5	34.00	7.7	26.2	1.48
F31	18 May 2022	83	9.73	82.06	3.4	34.00	7.7	26.2	1.49
F31	18 May 2022	84	9.73	81.88	3.4	34.00	7.7	26.2	1.49
F31	18 May 2022	85	9.72	81.92	3.4	34.01	7.7	26.2	1.49
F31	18 May 2022	86	9.70	82.01	3.4	34.02	7.7	26.2	1.49
F31	18 May 2022	87	9.66	82.30	3.4	34.04	7.7	26.3	1.50
F31	18 May 2022	88	9.66	82.41	3.3	34.05	7.7	26.3	1.50
F31	18 May 2022	89	9.66	82.39	3.2	34.09	7.7	26.3	1.50
F31	18 May 2022	90	9.68	82.20	3.1	34.10	7.7	26.3	1.50
F31	18 May 2022	91	9.70	82.21	3.0	34.11	7.7	26.3	1.51
F31	18 May 2022	92	9.70	82.17	2.9	34.13	7.7	26.3	1.50
F31	18 May 2022	93	9.70	82.37	2.9	34.14	7.7	26.3	1.49
F31	18 May 2022	94	9.70	82.43	2.8	34.14	7.7	26.3	1.48
F31	18 May 2022	95	9.70	82.36	2.7	34.15	7.7	26.3	1.48
F31	18 May 2022	96	9.70	81.90	2.6	34.16	7.7	26.3	1.48
F31	18 May 2022	97	9.70	81.68	2.6	34.17	7.7	26.4	1.48
F31	18 May 2022	98	9.70	81.49	2.6	34.17	7.7	26.4	1.48
F31	18 May 2022	99	9.70	81.10	2.6	34.17	7.7	26.4	1.48
F31	18 May 2022	100	9.71	81.17	2.6	34.17	7.7	26.4	1.49
F32	18 May 2022	1	16.83	77.02	8.1	33.63	8.2	24.5	2.51
F32	18 May 2022	2	16.83	77.34	8.1	33.63	8.2	24.5	2.51
F32	18 May 2022	3	16.83	77.91	8.1	33.63	8.2	24.5	2.59
F32	18 May 2022	4	16.83	77.90	8.1	33.63	8.2	24.5	2.60
F32	18 May 2022	5	16.81	78.00	8.1	33.63	8.2	24.5	2.65
F32	18 May 2022	6	16.81	78.02	8.1	33.63	8.2	24.5	2.63
F32	18 May 2022	7	16.74	77.99	8.1	33.63	8.2	24.5	2.60
F32	18 May 2022	8	16.56	78.03	8.1	33.63	8.2	24.6	2.74
F32	18 May 2022	9	16.33	78.03	8.2	33.63	8.2	24.6	2.76
F32	18 May 2022	10	16.13	77.92	8.2	33.63	8.2	24.7	2.86
F32	18 May 2022	11	15.59	77.53	8.3	33.64	8.2	24.8	2.90
F32	18 May 2022	12	15.32	77.51	8.3	33.62	8.2	24.8	3.06
F32	18 May 2022	13	15.10	77.51	8.1	33.60	8.2	24.9	3.47
F32	18 May 2022	14	14.58	77.94	7.9	33.60	8.1	25.0	3.62
F32	18 May 2022	15	14.37	78.27	7.7	33.59	8.1	25.0	3.73
F32	18 May 2022	16	14.08	78.37	7.6	33.60	8.1	25.1	3.47
F32	18 May 2022	17	13.91	78.42	7.5	33.61	8.1	25.1	3.69
F32	18 May 2022	18	13.70	78.31	7.4	33.61	8.1	25.2	3.90
F32	18 May 2022	19	13.61	78.46	7.3	33.61	8.1	25.2	3.94
F32	18 May 2022	20	13.55	78.53	7.3	33.61	8.1	25.2	3.92
F32	18 May 2022	21	13.45	78.58	7.2	33.61	8.0	25.2	4.32
F32	18 May 2022	22	13.35	78.68	7.1	33.62	8.0	25.3	3.86
F32	18 May 2022	23	13.19	78.79	7.0	33.62	8.0	25.3	3.85
F32	18 May 2022	24	12.82	79.04	6.8	33.63	8.0	25.4	3.78
F32	18 May 2022	25	12.73	79.18	6.7	33.62	8.0	25.4	3.78
F32	18 May 2022	26	12.66	78.90	6.7	33.62	8.0	25.4	3.91
F32	18 May 2022	27	12.61	78.81	6.6	33.62	8.0	25.4	3.98
F32	18 May 2022	28	12.57	78.73	6.6	33.62	8.0	25.4	3.91
F32	18 May 2022	29	12.52	78.62	6.6	33.63	8.0	25.4	3.85
F32	18 May 2022	30	12.48	78.60	6.6	33.63	8.0	25.4	3.74
F32	18 May 2022	31	12.29	78.41	6.4	33.64	8.0	25.5	3.64
F32	18 May 2022	32	12.07	79.14	5.9	33.64	7.9	25.5	3.34
F32	18 May 2022	33	11.77	79.80	5.3	33.66	7.9	25.6	3.14
F32	18 May 2022	34	11.46	80.43	4.9	33.70	7.9	25.7	2.78
F32	18 May 2022	35	11.28	80.76	4.8	33.72	7.8	25.7	2.63
F32	18 May 2022	36	11.21	80.79	4.7	33.72	7.8	25.7	2.41
F32	18 May 2022	37	11.09	81.10	4.7	33.73	7.8	25.8	2.36
F32	18 May 2022	38	10.97	81.15	4.7	33.74	7.8	25.8	2.29
F32	18 May 2022	39	10.91	81.06	4.7	33.74	7.8	25.8	2.24
F32	18 May 2022	40	10.81	81.20	4.6	33.76	7.8	25.8	2.18

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F32	18 May 2022	41	10.72	81.43	4.5	33.77	7.8	25.9	2.08
F32	18 May 2022	42	10.63	81.50	4.4	33.78	7.8	25.9	2.00
F32	18 May 2022	43	10.56	81.58	4.3	33.79	7.8	25.9	1.96
F32	18 May 2022	44	10.54	81.49	4.2	33.79	7.8	25.9	1.89
F32	18 May 2022	45	10.52	81.65	4.2	33.80	7.8	25.9	1.83
F32	18 May 2022	46	10.48	81.66	4.1	33.81	7.8	25.9	1.82
F32	18 May 2022	47	10.46	81.67	4.0	33.82	7.8	26.0	1.77
F32	18 May 2022	48	10.39	81.68	4.0	33.83	7.8	26.0	1.73
F32	18 May 2022	49	10.35	81.85	4.0	33.84	7.8	26.0	1.69
F32	18 May 2022	50	10.25	82.03	4.0	33.86	7.8	26.0	1.69
F32	18 May 2022	51	10.15	82.10	3.9	33.87	7.8	26.0	1.61
F32	18 May 2022	52	10.14	82.28	3.8	33.89	7.8	26.1	1.56
F32	18 May 2022	53	10.14	82.20	3.8	33.90	7.8	26.1	1.54
F32	18 May 2022	54	10.14	82.23	3.7	33.90	7.8	26.1	1.53
F32	18 May 2022	55	10.13	82.18	3.7	33.91	7.8	26.1	1.72
F32	18 May 2022	56	10.13	82.17	3.6	33.93	7.8	26.1	1.53
F32	18 May 2022	57	10.10	82.35	3.5	33.96	7.7	26.1	1.51
F32	18 May 2022	58	10.06	82.43	3.5	33.97	7.7	26.1	1.49
F32	18 May 2022	59	10.00	82.51	3.6	33.97	7.8	26.1	1.44
F32	18 May 2022	60	9.86	82.58	3.7	33.96	7.8	26.2	1.44
F32	18 May 2022	61	9.77	82.67	3.7	33.95	7.8	26.2	1.43
F32	18 May 2022	62	9.75	82.70	3.7	33.95	7.8	26.2	1.41
F32	18 May 2022	63	9.74	82.70	3.7	33.95	7.8	26.2	1.41
F32	18 May 2022	64	9.72	82.72	3.7	33.96	7.8	26.2	1.41
F32	18 May 2022	65	9.72	82.73	3.7	33.96	7.8	26.2	1.42
F32	18 May 2022	66	9.72	82.69	3.7	33.96	7.8	26.2	1.42
F32	18 May 2022	67	9.72	82.73	3.6	33.96	7.8	26.2	1.41
F32	18 May 2022	68	9.72	82.74	3.7	33.96	7.8	26.2	1.41
F32	18 May 2022	69	9.72	82.75	3.6	33.96	7.8	26.2	1.41
F32	18 May 2022	70	9.72	82.69	3.6	33.97	7.8	26.2	1.41
F32	18 May 2022	71	9.72	82.62	3.6	33.97	7.8	26.2	1.40
F32	18 May 2022	72	9.72	82.72	3.6	33.97	7.8	26.2	1.40
F32	18 May 2022	73	9.72	82.71	3.6	33.97	7.8	26.2	1.40
F32	18 May 2022	74	9.72	82.73	3.6	33.97	7.8	26.2	1.41
F32	18 May 2022	75	9.71	82.74	3.6	33.99	7.7	26.2	1.40
F32	18 May 2022	76	9.70	82.56	3.6	33.99	7.7	26.2	1.41
F32	18 May 2022	77	9.69	82.66	3.5	34.00	7.7	26.2	1.43
F32	18 May 2022	78	9.69	82.58	3.5	34.00	7.7	26.2	1.40
F32	18 May 2022	79	9.68	82.69	3.5	34.00	7.7	26.2	1.41
F32	18 May 2022	80	9.68	82.60	3.5	34.01	7.7	26.2	1.39
F32	18 May 2022	81	9.68	82.69	3.5	34.01	7.7	26.2	1.40
F32	18 May 2022	82	9.68	82.65	3.5	34.01	7.7	26.2	1.41
F32	18 May 2022	83	9.68	82.63	3.5	34.01	7.7	26.2	1.41
F32	18 May 2022	84	9.66	82.63	3.5	34.02	7.7	26.2	1.41
F32	18 May 2022	85	9.65	82.60	3.5	34.02	7.7	26.2	1.40
F32	18 May 2022	86	9.63	82.68	3.4	34.02	7.7	26.3	1.41
F32	18 May 2022	87	9.61	82.66	3.4	34.04	7.7	26.3	1.41
F32	18 May 2022	88	9.60	82.67	3.4	34.05	7.7	26.3	1.39
F32	18 May 2022	89	9.60	82.65	3.4	34.05	7.7	26.3	1.41
F32	18 May 2022	90	9.60	82.64	3.3	34.06	7.7	26.3	1.42
F32	18 May 2022	91	9.64	82.56	3.2	34.08	7.7	26.3	1.42
F32	18 May 2022	92	9.66	82.43	3.1	34.09	7.7	26.3	1.44
F32	18 May 2022	93	9.66	82.45	3.1	34.10	7.7	26.3	1.41
F32	18 May 2022	94	9.66	82.45	3.1	34.10	7.7	26.3	1.42
F32	18 May 2022	95	9.67	82.39	3.0	34.11	7.7	26.3	1.43
F32	18 May 2022	96	9.67	82.38	2.9	34.12	7.7	26.3	1.42
F32	18 May 2022	97	9.69	82.46	2.8	34.15	7.7	26.3	1.42
F32	18 May 2022	98	9.70	82.40	2.7	34.16	7.7	26.3	1.43
F32	18 May 2022	99	9.70	82.16	2.6	34.17	7.7	26.4	1.44
F32	18 May 2022	100	9.70	81.90	2.6	34.17	7.7	26.4	1.43
F32	18 May 2022	101	9.70	81.60	2.6	34.17	7.7	26.4	1.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F32	18 May 2022	102	9.70	47.27	2.6	34.17	7.7	26.4	1.46
F33	18 May 2022	1	16.79	77.73	8.1	33.63	8.2	24.5	2.43
F33	18 May 2022	2	16.79	77.70	8.1	33.63	8.2	24.5	2.45
F33	18 May 2022	3	16.79	77.95	8.1	33.63	8.2	24.5	2.56
F33	18 May 2022	4	16.77	77.82	8.1	33.63	8.2	24.5	2.66
F33	18 May 2022	5	16.74	78.04	8.1	33.63	8.2	24.5	2.60
F33	18 May 2022	6	16.69	77.97	8.1	33.62	8.2	24.5	2.65
F33	18 May 2022	7	16.41	77.90	8.2	33.63	8.2	24.6	2.75
F33	18 May 2022	8	16.31	77.85	8.2	33.63	8.2	24.6	2.89
F33	18 May 2022	9	16.07	78.04	8.1	33.63	8.2	24.7	2.91
F33	18 May 2022	10	15.79	78.13	8.1	33.62	8.2	24.7	3.05
F33	18 May 2022	11	15.44	78.12	8.2	33.62	8.2	24.8	3.12
F33	18 May 2022	12	15.36	78.15	8.2	33.61	8.1	24.8	3.37
F33	18 May 2022	13	15.30	78.23	8.1	33.62	8.1	24.8	3.26
F33	18 May 2022	14	15.20	78.15	8.0	33.62	8.1	24.9	3.41
F33	18 May 2022	15	14.43	78.02	7.8	33.62	8.1	25.0	3.60
F33	18 May 2022	16	14.18	78.33	7.6	33.62	8.1	25.1	3.68
F33	18 May 2022	17	14.12	78.43	7.6	33.62	8.1	25.1	3.85
F33	18 May 2022	18	14.11	78.23	7.7	33.62	8.1	25.1	3.92
F33	18 May 2022	19	14.07	78.47	7.6	33.62	8.1	25.1	4.08
F33	18 May 2022	20	14.02	78.54	7.5	33.62	8.1	25.1	4.02
F33	18 May 2022	21	13.94	78.61	7.3	33.62	8.1	25.1	3.97
F33	18 May 2022	22	13.57	78.65	7.1	33.63	8.1	25.2	3.97
F33	18 May 2022	23	13.06	78.98	7.0	33.62	8.0	25.3	3.85
F33	18 May 2022	24	12.77	79.32	6.8	33.62	8.0	25.4	3.78
F33	18 May 2022	25	12.71	79.43	6.7	33.62	8.0	25.4	3.60
F33	18 May 2022	26	12.62	79.43	6.7	33.62	8.0	25.4	3.61
F33	18 May 2022	27	12.57	79.34	6.6	33.62	8.0	25.4	3.63
F33	18 May 2022	28	12.53	79.30	6.6	33.63	8.0	25.4	3.53
F33	18 May 2022	29	12.52	79.08	6.6	33.63	8.0	25.4	3.56
F33	18 May 2022	30	12.47	79.18	6.5	33.63	8.0	25.4	3.59
F33	18 May 2022	31	12.43	78.95	6.5	33.63	8.0	25.4	3.59
F33	18 May 2022	32	12.37	78.92	6.5	33.64	8.0	25.5	3.44
F33	18 May 2022	33	12.33	78.95	6.4	33.64	8.0	25.5	3.57
F33	18 May 2022	34	12.08	78.98	6.3	33.65	7.9	25.5	3.46
F33	18 May 2022	35	11.87	79.52	6.1	33.65	7.9	25.6	3.32
F33	18 May 2022	36	11.76	79.76	5.8	33.65	7.9	25.6	3.09
F33	18 May 2022	37	11.63	80.31	5.2	33.66	7.9	25.6	2.78
F33	18 May 2022	38	11.50	80.70	4.8	33.69	7.8	25.7	2.62
F33	18 May 2022	39	11.38	80.74	4.6	33.71	7.8	25.7	2.42
F33	18 May 2022	40	11.25	80.74	4.5	33.73	7.8	25.7	2.29
F33	18 May 2022	41	11.14	80.71	4.4	33.76	7.8	25.8	2.21
F33	18 May 2022	42	11.05	80.84	4.3	33.77	7.8	25.8	2.17
F33	18 May 2022	43	10.94	80.93	4.3	33.77	7.8	25.8	2.05
F33	18 May 2022	44	10.85	81.12	4.3	33.78	7.8	25.9	2.03
F33	18 May 2022	45	10.81	81.15	4.3	33.78	7.8	25.9	2.03
F33	18 May 2022	46	10.76	81.23	4.3	33.78	7.8	25.9	1.96
F33	18 May 2022	47	10.67	81.26	4.2	33.79	7.8	25.9	1.93
F33	18 May 2022	48	10.58	81.35	4.2	33.80	7.8	25.9	1.87
F33	18 May 2022	49	10.54	81.47	4.1	33.81	7.8	25.9	1.82
F33	18 May 2022	50	10.48	81.59	4.0	33.83	7.8	26.0	1.75
F33	18 May 2022	51	10.45	81.62	4.0	33.83	7.8	26.0	1.71
F33	18 May 2022	52	10.44	81.62	4.0	33.84	7.8	26.0	1.69
F33	18 May 2022	53	10.41	81.45	3.9	33.85	7.8	26.0	1.66
F33	18 May 2022	54	10.33	81.48	3.8	33.87	7.8	26.0	1.67
F33	18 May 2022	55	10.22	81.61	3.8	33.89	7.8	26.0	1.62
F33	18 May 2022	56	10.15	81.85	3.8	33.90	7.8	26.1	1.59
F33	18 May 2022	57	10.13	82.02	3.7	33.90	7.8	26.1	1.50
F33	18 May 2022	58	10.13	81.99	3.7	33.91	7.8	26.1	1.48
F33	18 May 2022	59	10.11	81.90	3.6	33.93	7.8	26.1	1.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F33	18 May 2022	60	10.09	81.87	3.5	33.95	7.7	26.1	1.46
F33	18 May 2022	61	10.08	81.89	3.4	33.97	7.7	26.1	1.47
F33	18 May 2022	62	10.06	81.86	3.4	33.98	7.7	26.1	1.45
F33	18 May 2022	63	10.05	81.70	3.3	33.98	7.7	26.1	1.44
F33	18 May 2022	64	10.04	81.96	3.3	33.99	7.7	26.2	1.41
F33	18 May 2022	65	10.04	82.27	3.3	34.00	7.7	26.2	1.41
F33	18 May 2022	66	10.01	82.42	3.3	34.00	7.7	26.2	1.38
F33	18 May 2022	67	9.95	82.53	3.4	33.99	7.7	26.2	1.37
F33	18 May 2022	68	9.79	82.65	3.5	33.98	7.7	26.2	1.35
F33	18 May 2022	69	9.71	82.66	3.6	33.97	7.8	26.2	1.34
F33	18 May 2022	70	9.71	82.71	3.6	33.98	7.8	26.2	1.34
F33	18 May 2022	71	9.67	82.73	3.6	33.99	7.8	26.2	1.34
F33	18 May 2022	72	9.67	82.70	3.6	34.00	7.8	26.2	1.38
F33	18 May 2022	73	9.68	82.67	3.6	34.01	7.8	26.2	1.34
F33	18 May 2022	74	9.68	82.72	3.6	34.01	7.8	26.2	1.33
F33	18 May 2022	75	9.67	82.72	3.5	34.02	7.8	26.2	1.36
F33	18 May 2022	76	9.67	82.74	3.5	34.02	7.8	26.2	1.33
F33	18 May 2022	77	9.67	82.71	3.5	34.02	7.8	26.2	1.34
F33	18 May 2022	78	9.67	82.72	3.6	34.02	7.8	26.2	1.32
F33	18 May 2022	79	9.65	82.73	3.5	34.03	7.7	26.3	1.33
F33	18 May 2022	80	9.64	82.69	3.5	34.05	7.7	26.3	1.35
F33	18 May 2022	81	9.63	82.70	3.4	34.05	7.7	26.3	1.32
F33	18 May 2022	82	9.63	82.71	3.4	34.05	7.7	26.3	1.36
F33	18 May 2022	83	9.62	82.73	3.4	34.05	7.7	26.3	1.36
F33	18 May 2022	84	9.61	82.71	3.5	34.06	7.7	26.3	1.33
F33	18 May 2022	85	9.61	82.70	3.5	34.06	7.7	26.3	1.33
F33	18 May 2022	86	9.61	82.66	3.4	34.06	7.7	26.3	1.33
F33	18 May 2022	87	9.62	82.71	3.4	34.07	7.7	26.3	1.33
F33	18 May 2022	88	9.64	82.71	3.3	34.08	7.7	26.3	1.32
F33	18 May 2022	89	9.66	82.67	3.2	34.10	7.7	26.3	1.34
F33	18 May 2022	90	9.64	82.64	3.1	34.11	7.7	26.3	1.34
F33	18 May 2022	91	9.65	82.61	3.0	34.11	7.7	26.3	1.33
F33	18 May 2022	92	9.68	82.56	3.0	34.12	7.7	26.3	1.33
F33	18 May 2022	93	9.69	82.57	3.0	34.13	7.7	26.3	1.34
F33	18 May 2022	94	9.71	82.61	2.9	34.14	7.7	26.3	1.33
F33	18 May 2022	95	9.74	82.62	2.8	34.15	7.7	26.3	1.32
F33	18 May 2022	96	9.73	82.63	2.8	34.16	7.7	26.3	1.31
F33	18 May 2022	97	9.74	82.65	2.7	34.16	7.7	26.3	1.32
F33	18 May 2022	98	9.71	82.54	2.7	34.16	7.7	26.3	1.33
F33	18 May 2022	99	9.70	82.39	2.7	34.17	7.7	26.4	1.34
F33	18 May 2022	100	9.70	82.33	2.6	34.17	7.7	26.4	1.34
F33	18 May 2022	101	9.69	82.13	2.5	34.17	7.7	26.4	1.34
F33	18 May 2022	102	9.69	81.88	2.5	34.18	7.7	26.4	1.38
F34	18 May 2022	1	16.92	77.77	8.0	33.62	8.2	24.5	2.51
F34	18 May 2022	2	16.92	76.93	8.0	33.62	8.2	24.5	2.53
F34	18 May 2022	3	16.92	78.10	8.0	33.62	8.2	24.5	2.50
F34	18 May 2022	4	16.89	78.11	8.0	33.62	8.2	24.5	2.56
F34	18 May 2022	5	16.87	78.00	8.0	33.62	8.2	24.5	2.61
F34	18 May 2022	6	16.67	78.13	8.1	33.63	8.2	24.5	2.86
F34	18 May 2022	7	16.38	78.13	8.2	33.63	8.2	24.6	2.83
F34	18 May 2022	8	16.17	78.22	8.2	33.63	8.2	24.7	2.82
F34	18 May 2022	9	16.11	78.37	8.1	33.62	8.2	24.7	3.07
F34	18 May 2022	10	15.77	78.36	8.1	33.62	8.2	24.7	3.00
F34	18 May 2022	11	15.58	78.35	8.1	33.62	8.1	24.8	3.08
F34	18 May 2022	12	15.54	78.59	8.1	33.62	8.1	24.8	3.31
F34	18 May 2022	13	15.33	78.63	8.1	33.63	8.1	24.8	3.55
F34	18 May 2022	14	15.06	78.38	8.0	33.62	8.1	24.9	3.58
F34	18 May 2022	15	14.93	78.50	8.0	33.62	8.1	24.9	3.53
F34	18 May 2022	16	14.93	78.45	8.0	33.62	8.1	24.9	3.69
F34	18 May 2022	17	14.87	78.39	8.0	33.63	8.1	24.9	3.83

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F34	18 May 2022	18	14.83	78.35	8.1	33.63	8.1	24.9	4.02
F34	18 May 2022	19	14.81	78.52	8.1	33.63	8.1	25.0	4.27
F34	18 May 2022	20	14.77	78.41	8.0	33.63	8.1	25.0	4.13
F34	18 May 2022	21	14.71	78.46	8.0	33.63	8.1	25.0	3.85
F34	18 May 2022	22	14.37	78.79	7.8	33.63	8.1	25.1	3.87
F34	18 May 2022	23	14.07	78.72	7.4	33.63	8.1	25.1	3.79
F34	18 May 2022	24	13.36	78.96	7.1	33.62	8.1	25.3	3.78
F34	18 May 2022	25	12.90	79.31	6.9	33.62	8.0	25.3	3.67
F34	18 May 2022	26	12.84	79.55	6.8	33.61	8.0	25.3	3.68
F34	18 May 2022	27	12.49	79.66	6.6	33.61	8.0	25.4	3.51
F34	18 May 2022	28	12.39	79.78	6.5	33.62	8.0	25.4	3.50
F34	18 May 2022	29	12.37	79.81	6.4	33.62	8.0	25.4	3.43
F34	18 May 2022	30	12.34	79.76	6.4	33.63	8.0	25.5	3.49
F34	18 May 2022	31	12.27	79.72	6.3	33.63	8.0	25.5	3.45
F34	18 May 2022	32	12.08	79.75	6.2	33.65	7.9	25.5	3.42
F34	18 May 2022	33	11.94	79.78	6.1	33.66	7.9	25.6	3.43
F34	18 May 2022	34	11.83	79.84	6.1	33.66	7.9	25.6	3.49
F34	18 May 2022	35	11.79	79.87	6.0	33.66	7.9	25.6	3.33
F34	18 May 2022	36	11.72	79.53	6.0	33.66	7.9	25.6	3.24
F34	18 May 2022	37	11.64	80.02	5.9	33.66	7.9	25.6	3.12
F34	18 May 2022	38	11.53	80.28	5.6	33.66	7.9	25.6	3.00
F34	18 May 2022	39	11.47	80.77	5.5	33.66	7.9	25.6	2.81
F34	18 May 2022	40	11.37	80.90	5.3	33.67	7.9	25.7	2.72
F34	18 May 2022	41	11.15	80.90	4.9	33.71	7.8	25.7	2.48
F34	18 May 2022	42	11.05	81.00	4.7	33.73	7.8	25.8	2.35
F34	18 May 2022	43	10.95	81.10	4.6	33.75	7.8	25.8	2.30
F34	18 May 2022	44	10.87	81.08	4.5	33.76	7.8	25.8	2.18
F34	18 May 2022	45	10.80	81.19	4.4	33.77	7.8	25.9	2.11
F34	18 May 2022	46	10.72	81.21	4.3	33.79	7.8	25.9	2.14
F34	18 May 2022	47	10.67	81.24	4.2	33.80	7.8	25.9	2.01
F34	18 May 2022	48	10.64	81.29	4.2	33.81	7.8	25.9	1.95
F34	18 May 2022	49	10.60	81.35	4.1	33.82	7.8	25.9	1.92
F34	18 May 2022	50	10.53	81.37	4.0	33.83	7.8	25.9	1.88
F34	18 May 2022	51	10.47	81.47	4.0	33.84	7.8	26.0	1.85
F34	18 May 2022	52	10.44	81.09	4.0	33.84	7.8	26.0	1.82
F34	18 May 2022	53	10.44	81.41	4.0	33.84	7.8	26.0	1.82
F34	18 May 2022	54	10.42	81.59	4.0	33.84	7.8	26.0	1.79
F34	18 May 2022	55	10.41	81.63	3.9	33.84	7.8	26.0	1.75
F34	18 May 2022	56	10.39	81.67	3.9	33.85	7.8	26.0	1.73
F34	18 May 2022	57	10.35	81.63	3.8	33.87	7.8	26.0	1.72
F34	18 May 2022	58	10.32	81.55	3.7	33.88	7.8	26.0	1.70
F34	18 May 2022	59	10.29	81.56	3.6	33.90	7.8	26.0	1.69
F34	18 May 2022	60	10.19	81.65	3.6	33.92	7.8	26.1	1.63
F34	18 May 2022	61	10.17	81.86	3.6	33.92	7.7	26.1	1.58
F34	18 May 2022	62	10.10	81.88	3.5	33.94	7.7	26.1	1.62
F34	18 May 2022	63	10.06	81.85	3.4	33.97	7.7	26.1	1.59
F34	18 May 2022	64	10.05	81.78	3.3	33.98	7.7	26.2	1.58
F34	18 May 2022	65	10.03	81.73	3.2	34.00	7.7	26.2	1.53
F34	18 May 2022	66	10.01	81.69	3.2	34.02	7.7	26.2	1.51
F34	18 May 2022	67	10.00	81.68	3.1	34.02	7.7	26.2	1.50
F34	18 May 2022	68	9.93	81.71	3.2	34.03	7.7	26.2	1.46
F34	18 May 2022	69	9.70	82.10	3.4	34.02	7.7	26.2	1.46
F34	18 May 2022	70	9.68	82.46	3.5	34.02	7.7	26.2	1.43
F34	18 May 2022	71	9.65	82.61	3.5	34.03	7.7	26.3	1.41
F34	18 May 2022	72	9.65	82.68	3.5	34.04	7.7	26.3	1.43
F34	18 May 2022	73	9.65	82.66	3.5	34.04	7.7	26.3	1.43
F34	18 May 2022	74	9.66	82.75	3.4	34.05	7.7	26.3	1.40
F34	18 May 2022	75	9.66	82.74	3.4	34.06	7.7	26.3	1.40
F34	18 May 2022	76	9.65	82.71	3.4	34.06	7.7	26.3	1.40
F34	18 May 2022	77	9.61	82.76	3.4	34.06	7.7	26.3	1.41
F34	18 May 2022	78	9.59	82.74	3.4	34.06	7.7	26.3	1.39

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F34	18 May 2022	79	9.58	82.75	3.4	34.06	7.7	26.3	1.39
F34	18 May 2022	80	9.58	82.74	3.4	34.06	7.7	26.3	1.39
F34	18 May 2022	81	9.59	82.75	3.4	34.06	7.7	26.3	1.39
F34	18 May 2022	82	9.60	82.75	3.4	34.07	7.7	26.3	1.39
F34	18 May 2022	83	9.64	82.74	3.3	34.09	7.7	26.3	1.38
F34	18 May 2022	84	9.68	82.75	3.2	34.11	7.7	26.3	1.39
F34	18 May 2022	85	9.69	82.75	3.1	34.12	7.7	26.3	1.38
F34	18 May 2022	86	9.71	82.75	3.0	34.13	7.7	26.3	1.37
F34	18 May 2022	87	9.71	82.68	3.0	34.13	7.7	26.3	1.38
F34	18 May 2022	88	9.71	82.72	2.9	34.14	7.7	26.3	1.38
F34	18 May 2022	89	9.72	82.71	2.9	34.15	7.7	26.3	1.37
F34	18 May 2022	90	9.72	82.67	2.8	34.15	7.7	26.3	1.37
F34	18 May 2022	91	9.73	82.65	2.8	34.16	7.7	26.3	1.38
F34	18 May 2022	92	9.73	82.65	2.8	34.16	7.7	26.3	1.39
F34	18 May 2022	93	9.73	82.64	2.8	34.16	7.7	26.3	1.37
F34	18 May 2022	94	9.73	82.66	2.7	34.16	7.7	26.3	1.38
F34	18 May 2022	95	9.72	82.64	2.7	34.16	7.7	26.3	1.38
F34	18 May 2022	96	9.71	82.61	2.7	34.16	7.7	26.3	1.40
F34	18 May 2022	97	9.70	82.59	2.7	34.17	7.7	26.4	1.40
F34	18 May 2022	98	9.69	82.56	2.6	34.17	7.7	26.4	1.41
F34	18 May 2022	99	9.69	82.44	2.6	34.17	7.7	26.4	1.41
F34	18 May 2022	100	9.69	82.23	2.5	34.17	7.7	26.4	1.41
F34	18 May 2022	101	9.69	82.11	2.5	34.17	7.7	26.4	1.41
F34	18 May 2022	102	9.68	81.90	2.5	34.18	7.7	26.4	1.36
F35	18 May 2022	1	16.77	78.16	8.0	33.61	8.1	24.5	2.53
F35	18 May 2022	2	16.77	78.16	8.0	33.61	8.1	24.5	2.62
F35	18 May 2022	3	16.77	78.09	8.0	33.61	8.1	24.5	2.51
F35	18 May 2022	4	16.76	78.22	8.0	33.61	8.1	24.5	2.56
F35	18 May 2022	5	16.60	78.28	8.1	33.62	8.1	24.5	2.66
F35	18 May 2022	6	16.49	78.20	8.1	33.62	8.1	24.6	2.67
F35	18 May 2022	7	16.31	78.25	8.1	33.62	8.2	24.6	2.85
F35	18 May 2022	8	16.18	78.25	8.1	33.62	8.2	24.6	2.92
F35	18 May 2022	9	15.98	78.50	8.1	33.62	8.1	24.7	2.84
F35	18 May 2022	10	15.93	78.65	8.1	33.62	8.1	24.7	2.80
F35	18 May 2022	11	15.54	78.63	8.1	33.63	8.1	24.8	2.95
F35	18 May 2022	12	15.44	78.64	8.2	33.62	8.1	24.8	3.09
F35	18 May 2022	13	15.39	78.50	8.2	33.62	8.1	24.8	3.28
F35	18 May 2022	14	15.36	78.51	8.2	33.62	8.1	24.8	3.36
F35	18 May 2022	15	15.19	78.38	8.1	33.63	8.1	24.9	3.55
F35	18 May 2022	16	15.14	78.29	8.2	33.63	8.1	24.9	3.82
F35	18 May 2022	17	15.02	78.42	8.2	33.63	8.1	24.9	3.63
F35	18 May 2022	18	15.00	78.55	8.2	33.62	8.1	24.9	3.64
F35	18 May 2022	19	14.92	78.57	8.2	33.62	8.1	24.9	3.51
F35	18 May 2022	20	14.81	78.63	8.1	33.63	8.1	25.0	3.52
F35	18 May 2022	21	14.58	78.58	7.9	33.63	8.1	25.0	3.66
F35	18 May 2022	22	14.54	78.79	7.9	33.62	8.1	25.0	3.59
F35	18 May 2022	23	14.07	78.90	7.6	33.62	8.1	25.1	3.61
F35	18 May 2022	24	14.01	78.88	7.6	33.62	8.1	25.1	3.86
F35	18 May 2022	25	13.95	79.10	7.6	33.62	8.1	25.1	3.90
F35	18 May 2022	26	13.89	79.13	7.5	33.61	8.1	25.1	3.80
F35	18 May 2022	27	13.70	79.02	7.3	33.61	8.1	25.2	3.67
F35	18 May 2022	28	13.08	79.54	7.0	33.60	8.0	25.3	3.52
F35	18 May 2022	29	12.83	79.85	6.7	33.60	8.0	25.3	3.33
F35	18 May 2022	30	12.42	79.92	6.5	33.61	8.0	25.4	3.18
F35	18 May 2022	31	12.29	80.22	6.4	33.60	8.0	25.4	2.98
F35	18 May 2022	32	12.11	80.42	6.3	33.60	8.0	25.5	3.11
F35	18 May 2022	33	11.91	80.60	6.2	33.61	7.9	25.5	2.83
F35	18 May 2022	34	11.89	80.55	6.1	33.62	7.9	25.5	2.76
F35	18 May 2022	35	11.79	80.25	6.0	33.65	7.9	25.6	2.79
F35	18 May 2022	36	11.69	80.46	5.9	33.67	7.9	25.6	2.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F35	18 May 2022	37	11.65	80.50	5.8	33.67	7.9	25.6	2.79
F35	18 May 2022	38	11.57	80.53	5.8	33.67	7.9	25.6	2.71
F35	18 May 2022	39	11.37	80.81	5.6	33.66	7.9	25.7	2.51
F35	18 May 2022	40	11.21	81.07	5.4	33.66	7.9	25.7	2.35
F35	18 May 2022	41	11.01	81.30	5.2	33.68	7.9	25.7	2.28
F35	18 May 2022	42	10.82	81.64	5.0	33.69	7.8	25.8	2.30
F35	18 May 2022	43	10.68	81.74	4.8	33.71	7.8	25.8	2.05
F35	18 May 2022	44	10.64	81.90	4.7	33.72	7.8	25.8	1.84
F35	18 May 2022	45	10.63	82.02	4.6	33.73	7.8	25.8	1.78
F35	18 May 2022	46	10.60	82.01	4.6	33.73	7.8	25.9	1.76
F35	18 May 2022	47	10.58	82.05	4.5	33.74	7.8	25.9	1.70
F35	18 May 2022	48	10.57	81.99	4.5	33.75	7.8	25.9	1.71
F35	18 May 2022	49	10.56	81.84	4.4	33.77	7.8	25.9	1.81
F35	18 May 2022	50	10.53	81.83	4.3	33.78	7.8	25.9	1.71
F35	18 May 2022	51	10.52	81.78	4.3	33.80	7.8	25.9	1.69
F35	18 May 2022	52	10.50	81.79	4.2	33.80	7.8	25.9	1.66
F35	18 May 2022	53	10.47	81.77	4.1	33.81	7.8	25.9	1.65
F35	18 May 2022	54	10.45	81.71	4.1	33.83	7.8	26.0	1.64
F35	18 May 2022	55	10.42	81.70	4.0	33.84	7.8	26.0	1.63
F35	18 May 2022	56	10.37	81.73	3.9	33.85	7.8	26.0	1.62
F35	18 May 2022	57	10.34	81.81	3.9	33.86	7.8	26.0	1.55
F35	18 May 2022	58	10.32	81.84	3.9	33.87	7.8	26.0	1.54
F35	18 May 2022	59	10.30	81.85	3.8	33.88	7.8	26.0	1.53
F35	18 May 2022	60	10.28	81.84	3.8	33.89	7.8	26.0	1.52
F35	18 May 2022	61	10.25	81.76	3.7	33.90	7.8	26.1	1.50
F35	18 May 2022	62	10.23	81.80	3.7	33.91	7.8	26.1	1.51
F35	18 May 2022	63	10.21	81.72	3.6	33.92	7.8	26.1	1.62
F35	18 May 2022	64	10.21	81.69	3.6	33.92	7.7	26.1	1.50
F35	18 May 2022	65	10.20	81.66	3.6	33.93	7.7	26.1	1.47
F35	18 May 2022	66	10.20	81.66	3.5	33.93	7.7	26.1	1.46
F35	18 May 2022	67	10.19	81.60	3.5	33.94	7.7	26.1	1.46
F35	18 May 2022	68	10.18	81.62	3.5	33.95	7.7	26.1	1.46
F35	18 May 2022	69	10.16	81.66	3.4	33.95	7.7	26.1	1.44
F35	18 May 2022	70	10.11	81.64	3.4	33.97	7.7	26.1	1.42
F35	18 May 2022	71	10.06	81.67	3.3	33.99	7.7	26.2	1.40
F35	18 May 2022	72	10.01	81.65	3.2	34.02	7.7	26.2	1.38
F35	18 May 2022	73	9.99	81.64	3.1	34.02	7.7	26.2	1.36
F35	18 May 2022	74	9.97	81.62	3.1	34.04	7.7	26.2	1.34
F35	18 May 2022	75	9.95	81.61	3.1	34.05	7.7	26.2	1.34
F35	18 May 2022	76	9.83	81.59	3.1	34.05	7.7	26.2	1.31
F35	18 May 2022	77	9.71	81.87	3.3	34.05	7.7	26.3	1.31
F35	18 May 2022	78	9.61	82.25	3.4	34.06	7.7	26.3	1.27
F35	18 May 2022	79	9.59	82.60	3.4	34.06	7.7	26.3	1.26
F35	18 May 2022	80	9.57	82.75	3.4	34.06	7.7	26.3	1.25
F35	18 May 2022	81	9.57	82.76	3.4	34.06	7.7	26.3	1.25
F35	18 May 2022	82	9.60	82.74	3.3	34.08	7.7	26.3	1.25
F35	18 May 2022	83	9.64	82.75	3.2	34.09	7.7	26.3	1.24
F35	18 May 2022	84	9.66	82.75	3.2	34.10	7.7	26.3	1.25
F35	18 May 2022	85	9.66	82.74	3.2	34.10	7.7	26.3	1.25
F35	18 May 2022	86	9.66	82.71	3.1	34.10	7.7	26.3	1.25
F35	18 May 2022	87	9.67	82.74	3.1	34.10	7.7	26.3	1.25
F35	18 May 2022	88	9.67	82.70	3.1	34.11	7.7	26.3	1.25
F35	18 May 2022	89	9.67	82.67	3.1	34.11	7.7	26.3	1.26
F35	18 May 2022	90	9.67	82.59	3.0	34.12	7.7	26.3	1.26
F35	18 May 2022	91	9.67	82.51	3.0	34.11	7.7	26.3	1.27
F35	18 May 2022	92	9.67	82.40	3.0	34.12	7.7	26.3	1.27
F35	18 May 2022	93	9.67	82.22	2.9	34.13	7.7	26.3	1.27
F35	18 May 2022	94	9.67	82.14	2.9	34.14	7.7	26.3	1.26
F35	18 May 2022	95	9.68	82.12	2.8	34.14	7.7	26.3	1.28
F35	18 May 2022	96	9.67	82.16	2.8	34.15	7.7	26.3	1.30
F35	18 May 2022	97	9.68	82.16	2.8	34.15	7.7	26.3	1.29

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F35	18 May 2022	98	9.67	82.16	2.8	34.15	7.7	26.3	1.28
F35	18 May 2022	99	9.66	82.07	2.7	34.16	7.7	26.4	1.28
F35	18 May 2022	100	9.66	82.03	2.7	34.16	7.7	26.4	1.27
F36	18 May 2022	1	16.75	74.83	8.0	33.59	8.1	24.5	2.73
F36	18 May 2022	2	16.74	73.15	8.0	33.59	8.1	24.5	2.81
F36	18 May 2022	3	16.73	78.01	8.0	33.59	8.1	24.5	2.84
F36	18 May 2022	4	16.71	78.22	8.0	33.59	8.1	24.5	2.76
F36	18 May 2022	5	16.66	78.22	8.0	33.60	8.1	24.5	2.89
F36	18 May 2022	6	16.63	78.18	8.0	33.60	8.1	24.5	2.98
F36	18 May 2022	7	16.58	78.33	8.0	33.60	8.1	24.5	2.94
F36	18 May 2022	8	16.52	78.07	8.0	33.60	8.1	24.6	2.88
F36	18 May 2022	9	16.46	78.41	8.0	33.61	8.1	24.6	2.84
F36	18 May 2022	10	15.92	78.48	8.0	33.62	8.1	24.7	2.87
F36	18 May 2022	11	15.51	78.35	8.1	33.62	8.1	24.8	3.22
F36	18 May 2022	12	15.27	78.46	8.2	33.62	8.1	24.9	3.35
F36	18 May 2022	13	15.18	78.59	8.2	33.62	8.1	24.9	3.29
F36	18 May 2022	14	14.94	78.59	8.2	33.62	8.1	24.9	3.38
F36	18 May 2022	15	14.89	78.70	8.2	33.62	8.1	24.9	3.58
F36	18 May 2022	16	14.87	78.72	8.1	33.62	8.1	24.9	3.58
F36	18 May 2022	17	14.80	78.66	8.1	33.62	8.1	25.0	3.68
F36	18 May 2022	18	14.74	78.75	8.1	33.63	8.1	25.0	3.60
F36	18 May 2022	19	14.64	78.79	8.0	33.63	8.1	25.0	3.39
F36	18 May 2022	20	14.56	78.86	7.9	33.62	8.1	25.0	3.51
F36	18 May 2022	21	14.53	78.85	7.9	33.62	8.1	25.0	3.49
F36	18 May 2022	22	14.37	79.02	7.8	33.62	8.1	25.0	3.75
F36	18 May 2022	23	14.28	78.96	7.7	33.62	8.1	25.1	3.78
F36	18 May 2022	24	14.25	79.06	7.7	33.62	8.1	25.1	3.71
F36	18 May 2022	25	14.13	79.00	7.6	33.62	8.1	25.1	3.65
F36	18 May 2022	26	14.07	79.15	7.6	33.61	8.1	25.1	3.86
F36	18 May 2022	27	14.00	79.18	7.5	33.61	8.1	25.1	4.02
F36	18 May 2022	28	13.93	79.22	7.4	33.61	8.1	25.1	3.81
F36	18 May 2022	29	13.61	79.38	7.3	33.60	8.1	25.2	3.69
F36	18 May 2022	30	13.31	79.59	7.1	33.58	8.0	25.2	3.67
F36	18 May 2022	31	13.06	79.92	6.9	33.57	8.0	25.3	3.37
F36	18 May 2022	32	12.75	80.15	6.7	33.56	8.0	25.3	3.33
F36	18 May 2022	33	12.55	80.19	6.6	33.58	8.0	25.4	3.19
F36	18 May 2022	34	12.42	80.35	6.5	33.60	8.0	25.4	3.10
F36	18 May 2022	35	12.24	80.51	6.4	33.60	8.0	25.5	3.05
F36	18 May 2022	36	12.03	80.81	6.2	33.60	7.9	25.5	2.73
F36	18 May 2022	37	11.79	81.00	6.0	33.59	7.9	25.5	2.54
F36	18 May 2022	38	11.52	81.37	5.9	33.59	7.9	25.6	2.43
F36	18 May 2022	39	11.52	81.30	5.7	33.64	7.9	25.6	2.37
F36	18 May 2022	40	11.45	81.14	5.6	33.68	7.9	25.7	2.36
F36	18 May 2022	41	11.38	81.17	5.5	33.69	7.9	25.7	2.32
F36	18 May 2022	42	11.34	81.09	5.4	33.70	7.9	25.7	2.36
F36	18 May 2022	43	11.30	81.42	5.4	33.70	7.9	25.7	2.30
F36	18 May 2022	44	11.19	81.47	5.2	33.71	7.8	25.7	2.22
F36	18 May 2022	45	11.07	81.60	5.0	33.72	7.8	25.8	2.28
F36	18 May 2022	46	10.86	81.89	4.9	33.73	7.8	25.8	2.07
F36	18 May 2022	47	10.67	82.13	4.7	33.74	7.8	25.9	1.88
F36	18 May 2022	48	10.50	82.31	4.5	33.75	7.8	25.9	1.72
F36	18 May 2022	49	10.45	82.22	4.4	33.77	7.8	25.9	1.64
F36	18 May 2022	50	10.43	82.33	4.4	33.77	7.8	25.9	1.60
F36	18 May 2022	51	10.40	82.31	4.3	33.79	7.8	25.9	1.60
F36	18 May 2022	52	10.38	82.24	4.2	33.80	7.8	26.0	1.57
F36	18 May 2022	53	10.36	82.03	4.2	33.82	7.8	26.0	1.56
F36	18 May 2022	54	10.35	82.12	4.1	33.83	7.8	26.0	1.53
F36	18 May 2022	55	10.34	82.10	4.0	33.84	7.8	26.0	1.58
F36	18 May 2022	56	10.33	82.07	4.0	33.85	7.8	26.0	1.53
F36	18 May 2022	57	10.30	82.01	3.9	33.86	7.8	26.0	1.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F36	18 May 2022	58	10.28	82.07	3.9	33.87	7.8	26.0	1.51
F36	18 May 2022	59	10.21	82.09	3.8	33.89	7.8	26.0	1.49
F36	18 May 2022	60	10.19	82.14	3.8	33.90	7.8	26.1	1.48
F36	18 May 2022	61	10.18	82.15	3.8	33.90	7.8	26.1	1.46
F36	18 May 2022	62	10.17	82.12	3.7	33.91	7.8	26.1	1.45
F36	18 May 2022	63	10.16	82.15	3.7	33.92	7.8	26.1	1.43
F36	18 May 2022	64	10.14	81.93	3.7	33.92	7.8	26.1	1.47
F36	18 May 2022	65	10.13	82.02	3.6	33.93	7.8	26.1	1.43
F36	18 May 2022	66	10.11	82.16	3.6	33.94	7.7	26.1	1.42
F36	18 May 2022	67	10.11	82.13	3.6	33.94	7.7	26.1	1.40
F36	18 May 2022	68	10.08	82.16	3.6	33.95	7.7	26.1	1.39
F36	18 May 2022	69	10.06	82.09	3.5	33.96	7.7	26.1	1.39
F36	18 May 2022	70	10.06	82.09	3.5	33.97	7.7	26.1	1.39
F36	18 May 2022	71	10.04	82.04	3.4	33.98	7.7	26.1	1.39
F36	18 May 2022	72	10.01	81.99	3.3	33.99	7.7	26.2	1.37
F36	18 May 2022	73	9.99	81.99	3.3	34.00	7.7	26.2	1.37
F36	18 May 2022	74	9.94	81.98	3.3	34.02	7.7	26.2	1.36
F36	18 May 2022	75	9.84	82.05	3.2	34.05	7.7	26.2	1.32
F36	18 May 2022	76	9.77	82.11	3.2	34.06	7.7	26.3	1.31
F36	18 May 2022	77	9.73	82.20	3.2	34.06	7.7	26.3	1.30
F36	18 May 2022	78	9.70	82.30	3.2	34.06	7.7	26.3	1.27
F36	18 May 2022	79	9.69	82.42	3.2	34.07	7.7	26.3	1.26
F36	18 May 2022	80	9.68	82.46	3.2	34.07	7.7	26.3	1.26
F36	18 May 2022	81	9.69	82.49	3.2	34.07	7.7	26.3	1.25
F36	18 May 2022	82	9.69	82.49	3.2	34.07	7.7	26.3	1.26
F36	18 May 2022	83	9.69	82.46	3.2	34.07	7.7	26.3	1.25
F36	18 May 2022	84	9.70	82.45	3.1	34.08	7.7	26.3	1.25
F36	18 May 2022	85	9.70	82.42	3.1	34.09	7.7	26.3	1.26
F36	18 May 2022	86	9.68	82.36	3.1	34.09	7.7	26.3	1.27
F36	18 May 2022	87	9.67	82.35	3.0	34.10	7.7	26.3	1.25
F36	18 May 2022	88	9.67	82.19	3.0	34.10	7.7	26.3	1.26
F36	18 May 2022	89	9.67	82.03	3.0	34.11	7.7	26.3	1.26
F36	18 May 2022	90	9.67	82.02	3.0	34.11	7.7	26.3	1.27
F36	18 May 2022	91	9.66	81.98	3.0	34.11	7.7	26.3	1.25
F36	18 May 2022	92	9.66	81.94	2.9	34.12	7.7	26.3	1.26
F36	18 May 2022	93	9.66	81.97	2.9	34.12	7.7	26.3	1.25
F36	18 May 2022	94	9.67	82.08	2.8	34.13	7.7	26.3	1.25
F36	18 May 2022	95	9.66	82.07	2.8	34.14	7.7	26.3	1.31
F36	18 May 2022	96	9.66	82.02	2.8	34.14	7.7	26.3	1.27
F36	18 May 2022	97	9.66	82.00	2.8	34.14	7.7	26.3	1.25
F36	18 May 2022	98	9.66	81.97	2.7	34.14	7.7	26.3	1.25
F36	18 May 2022	99	9.66	81.92	2.8	34.14	7.7	26.3	1.26

NA = not available

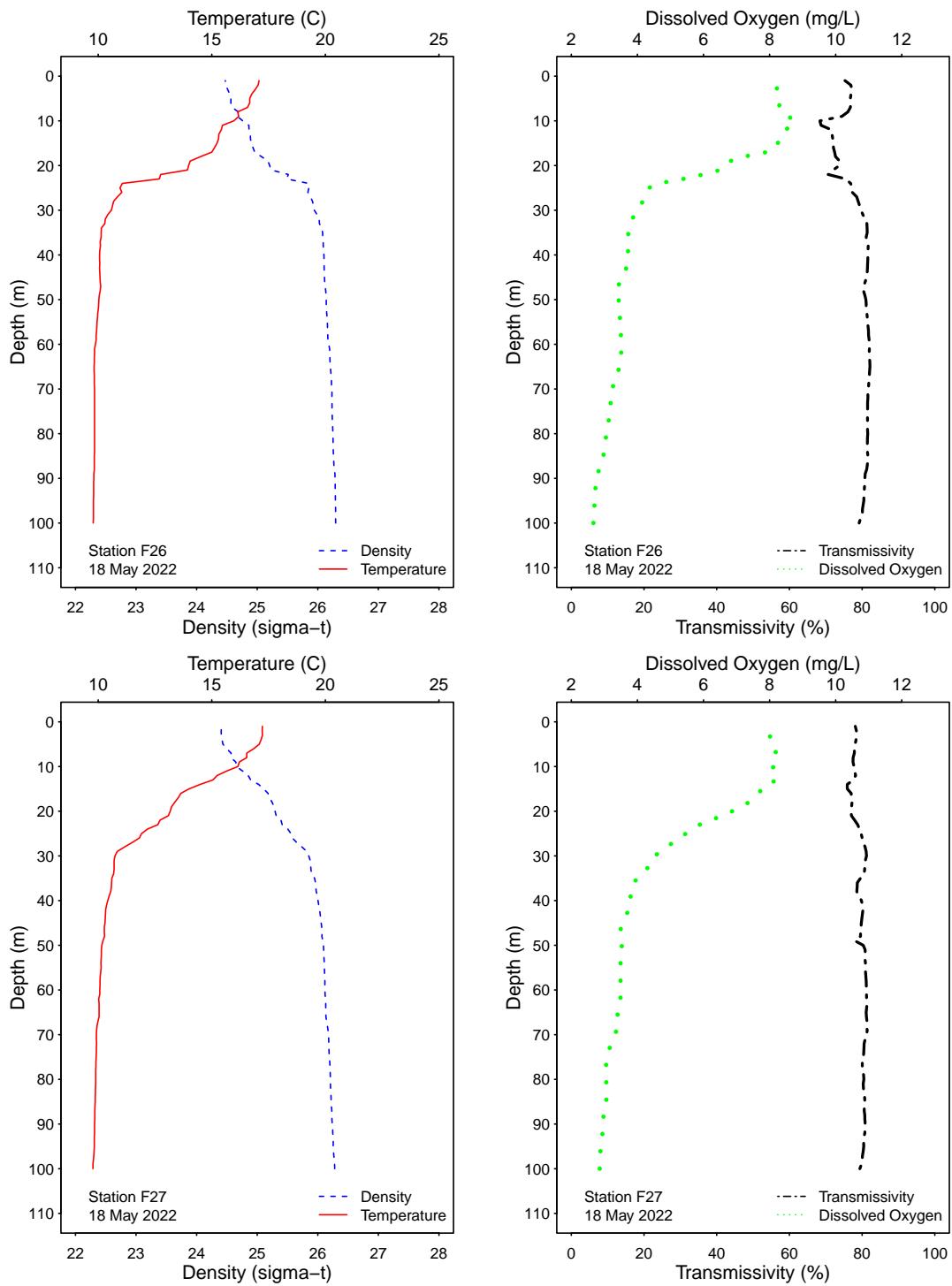


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

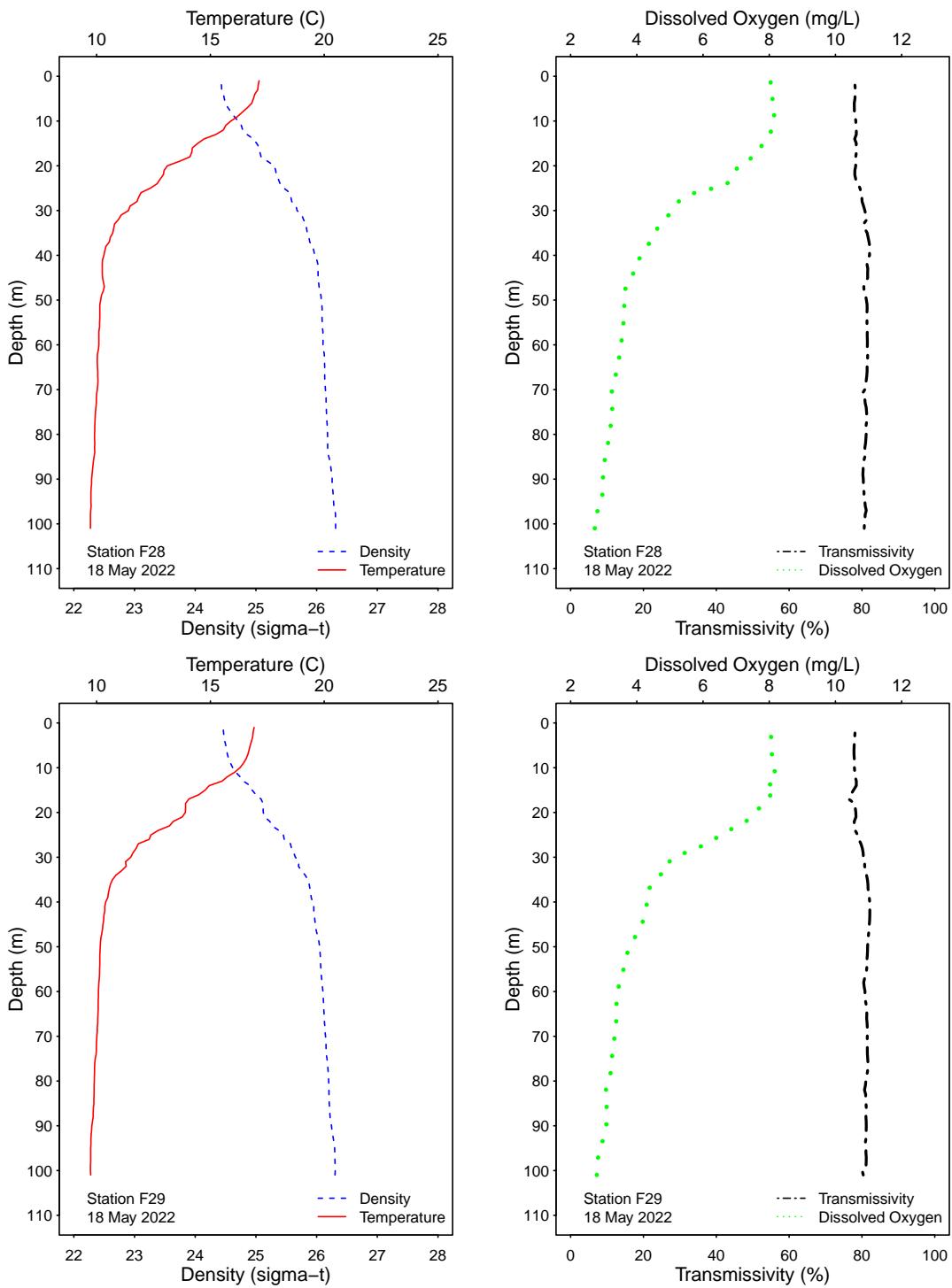


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

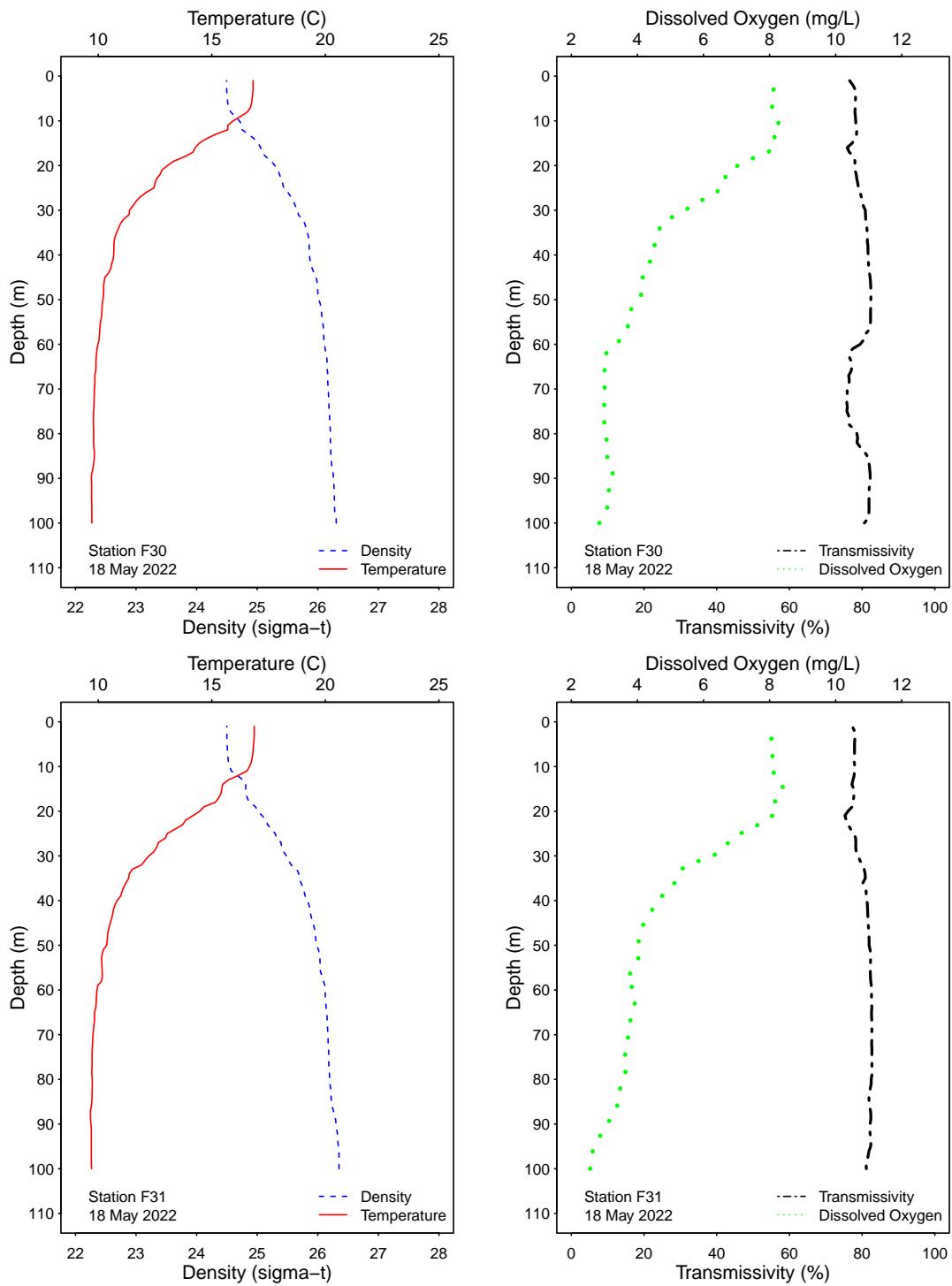


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

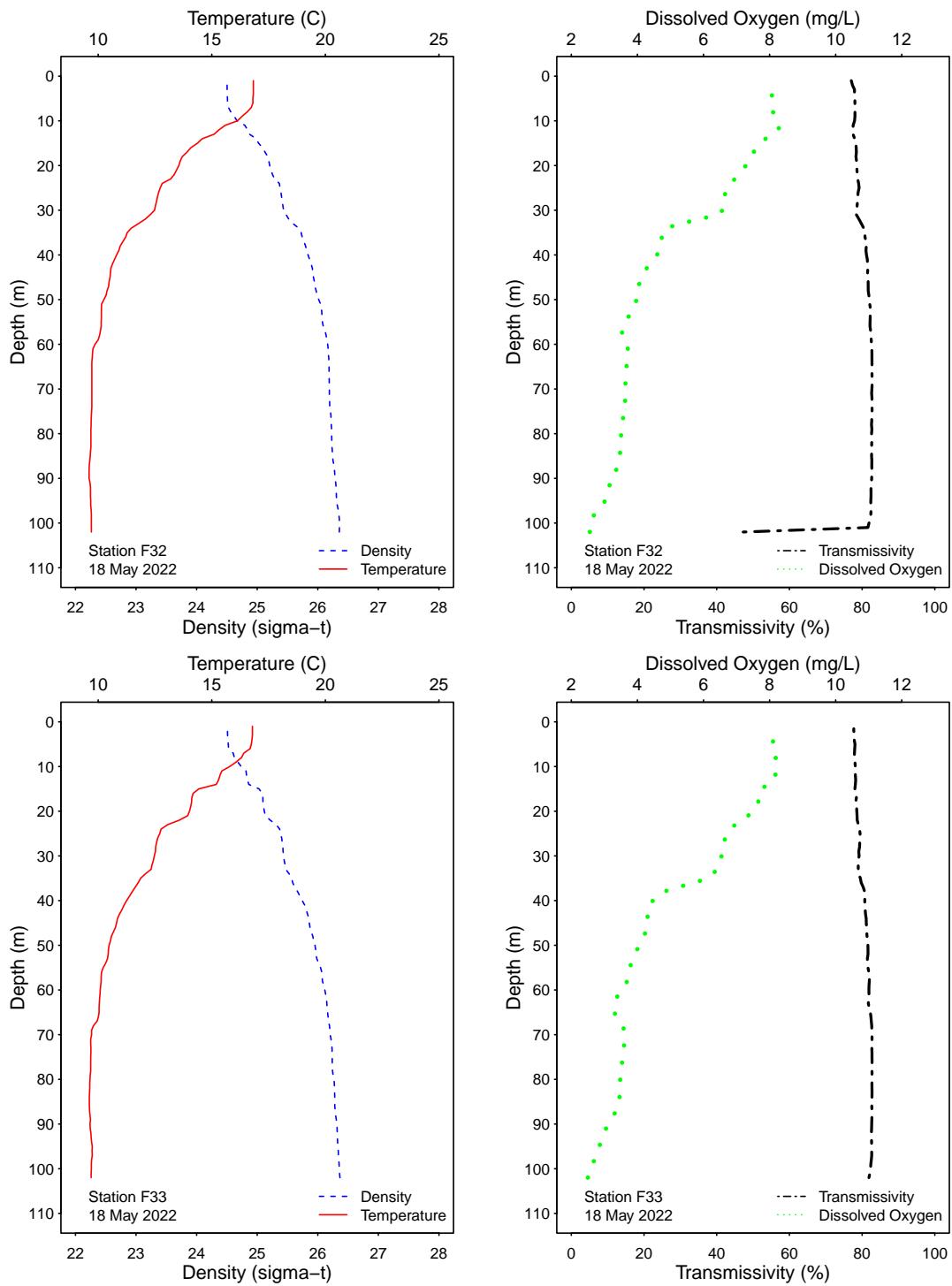


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

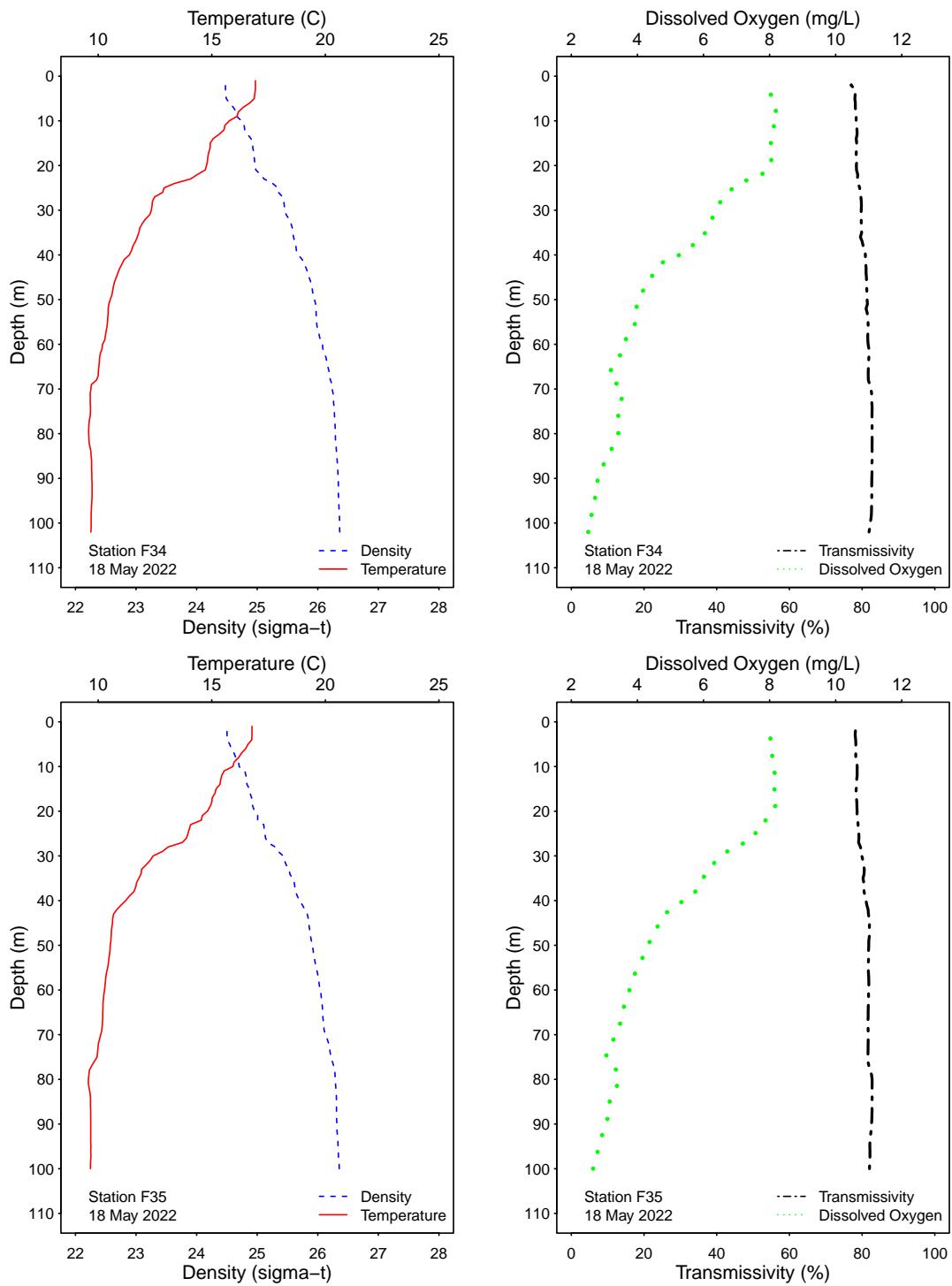


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

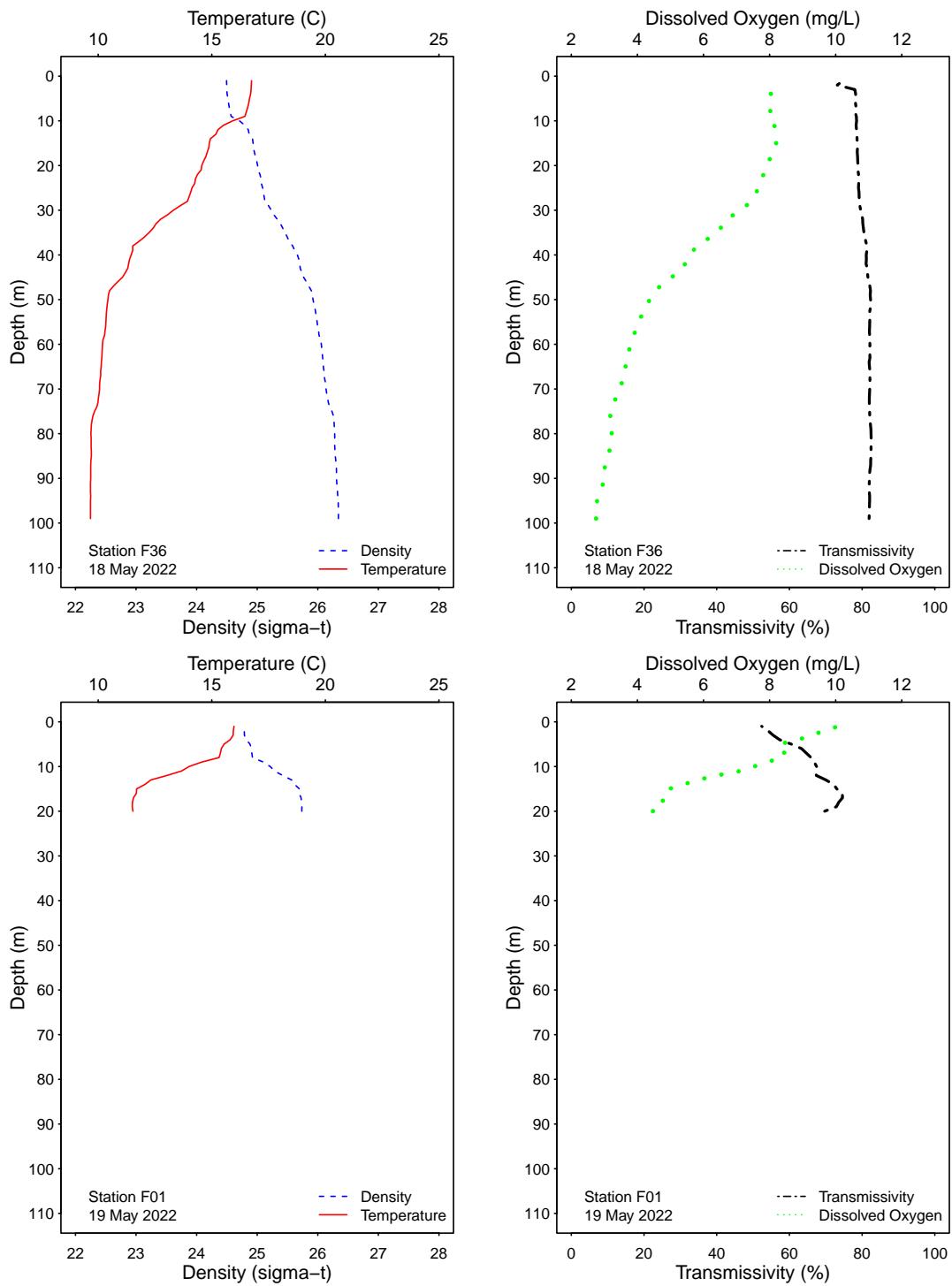


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

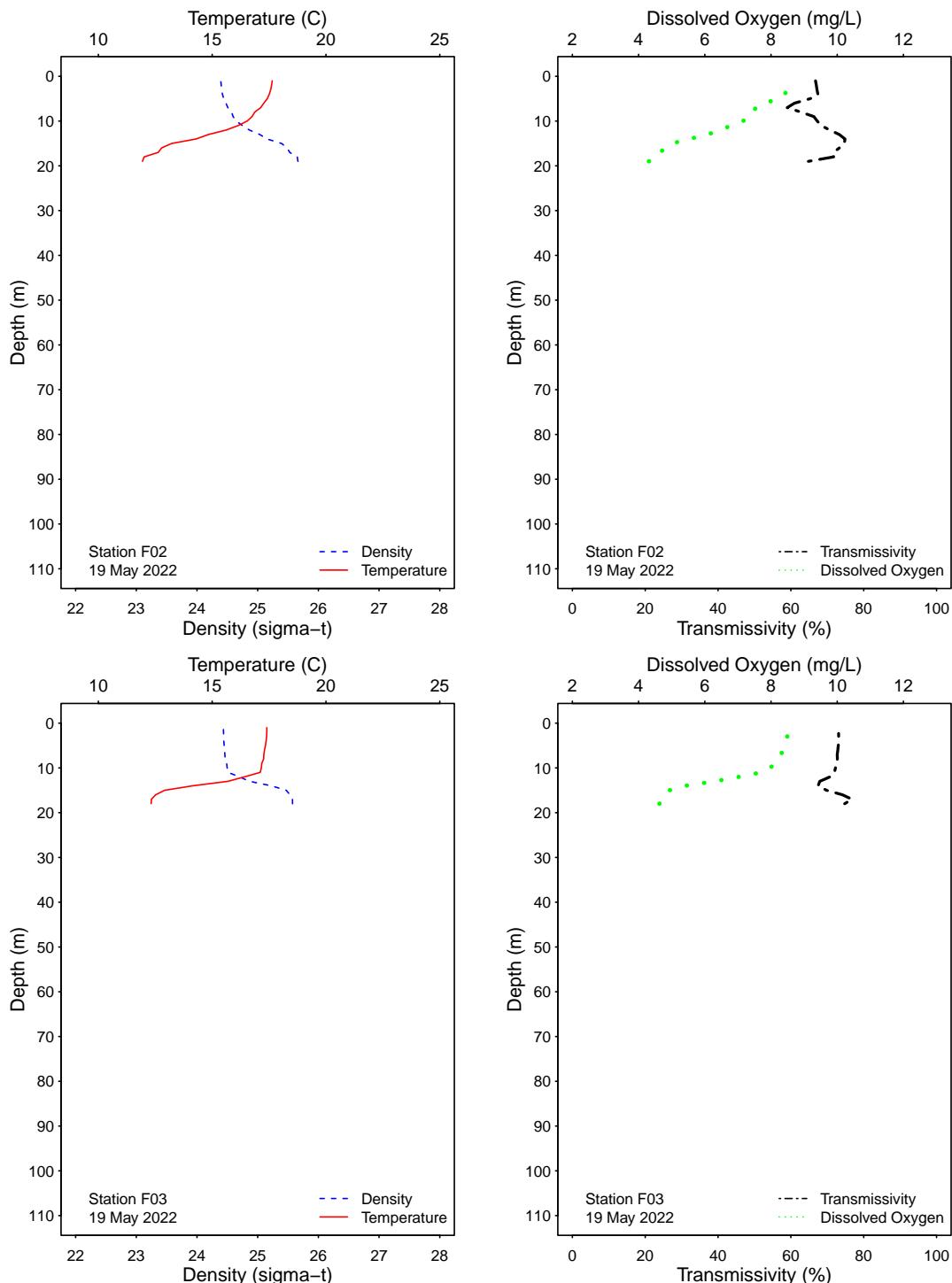


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

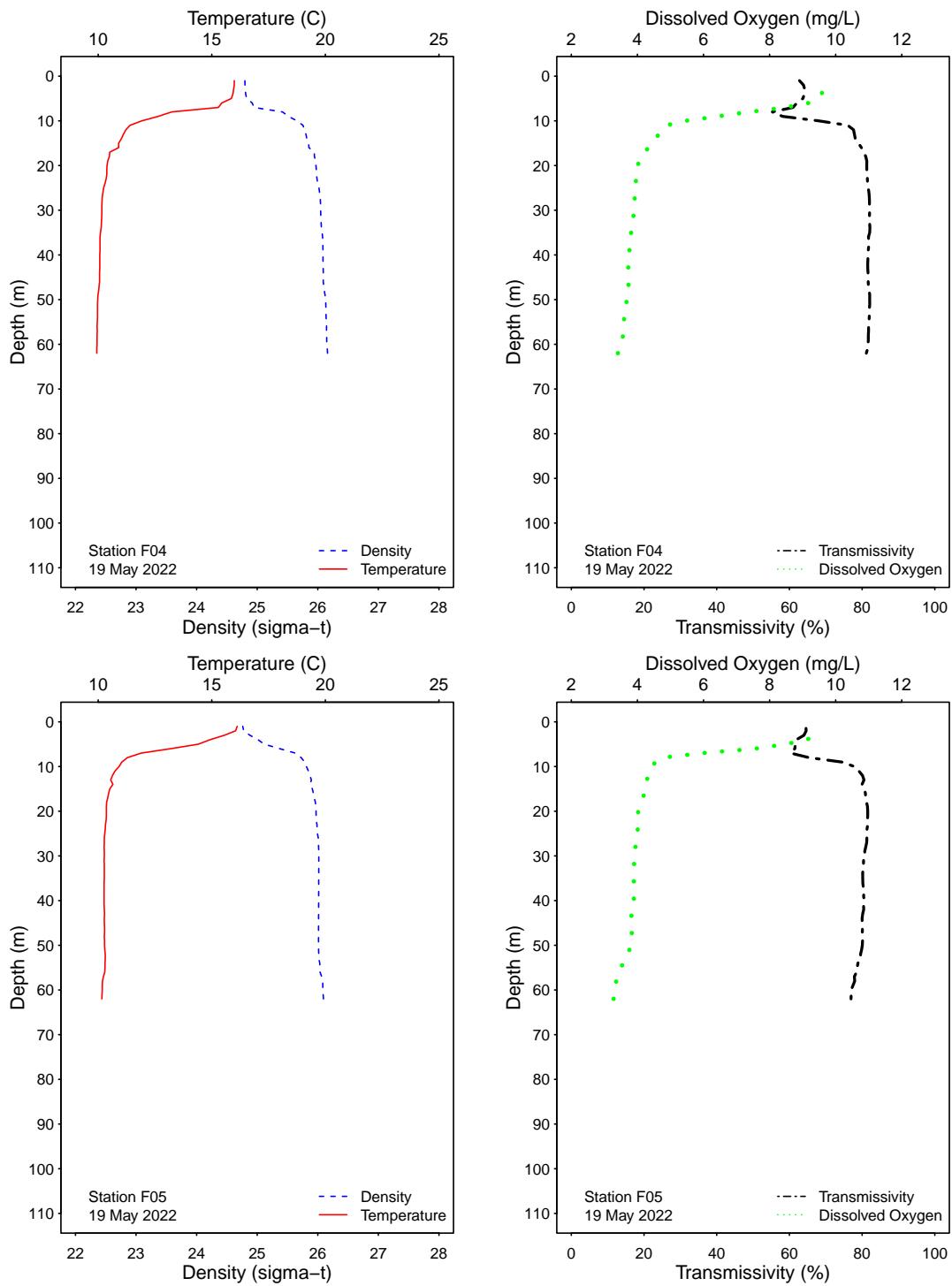


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

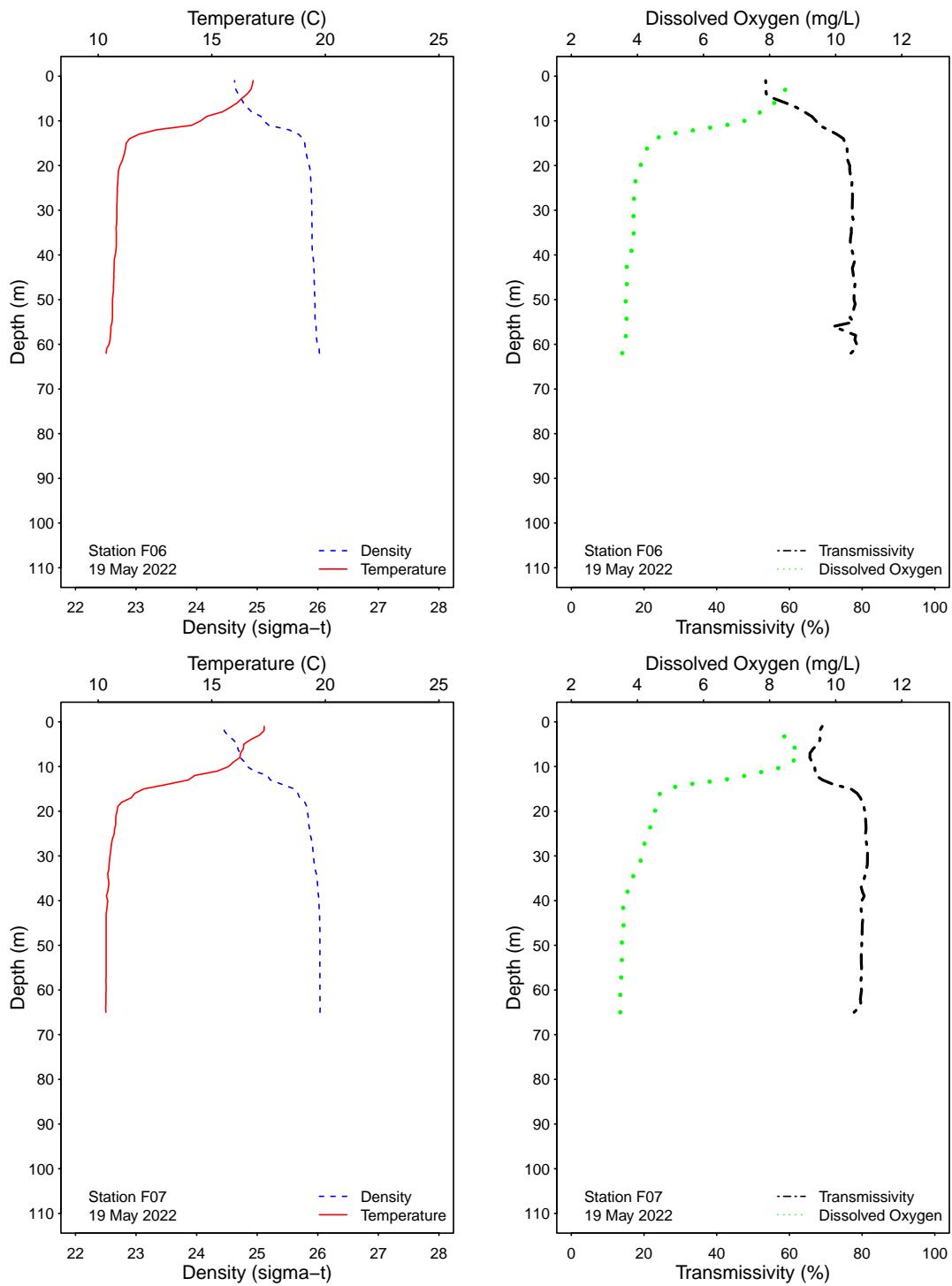


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

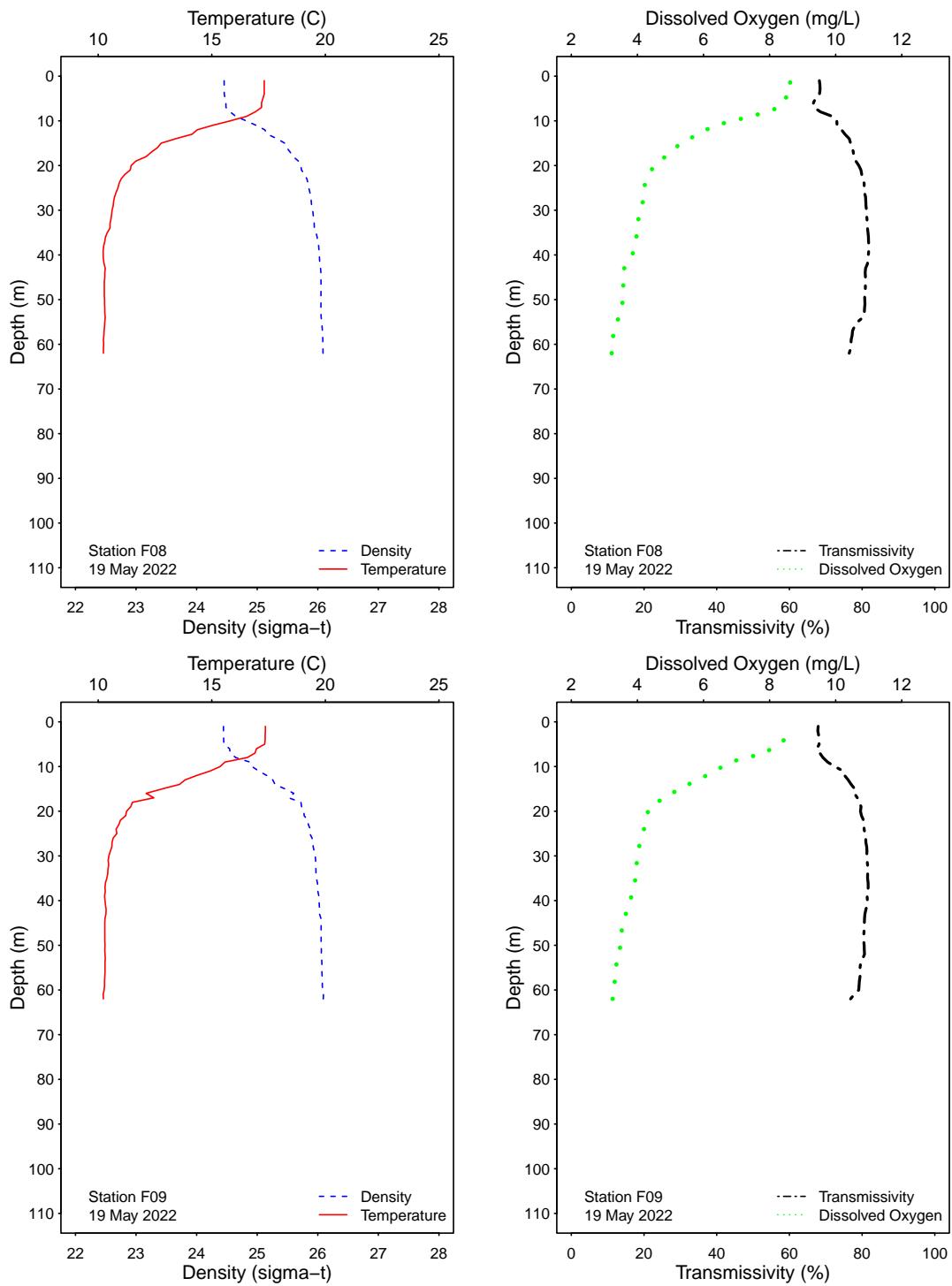


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

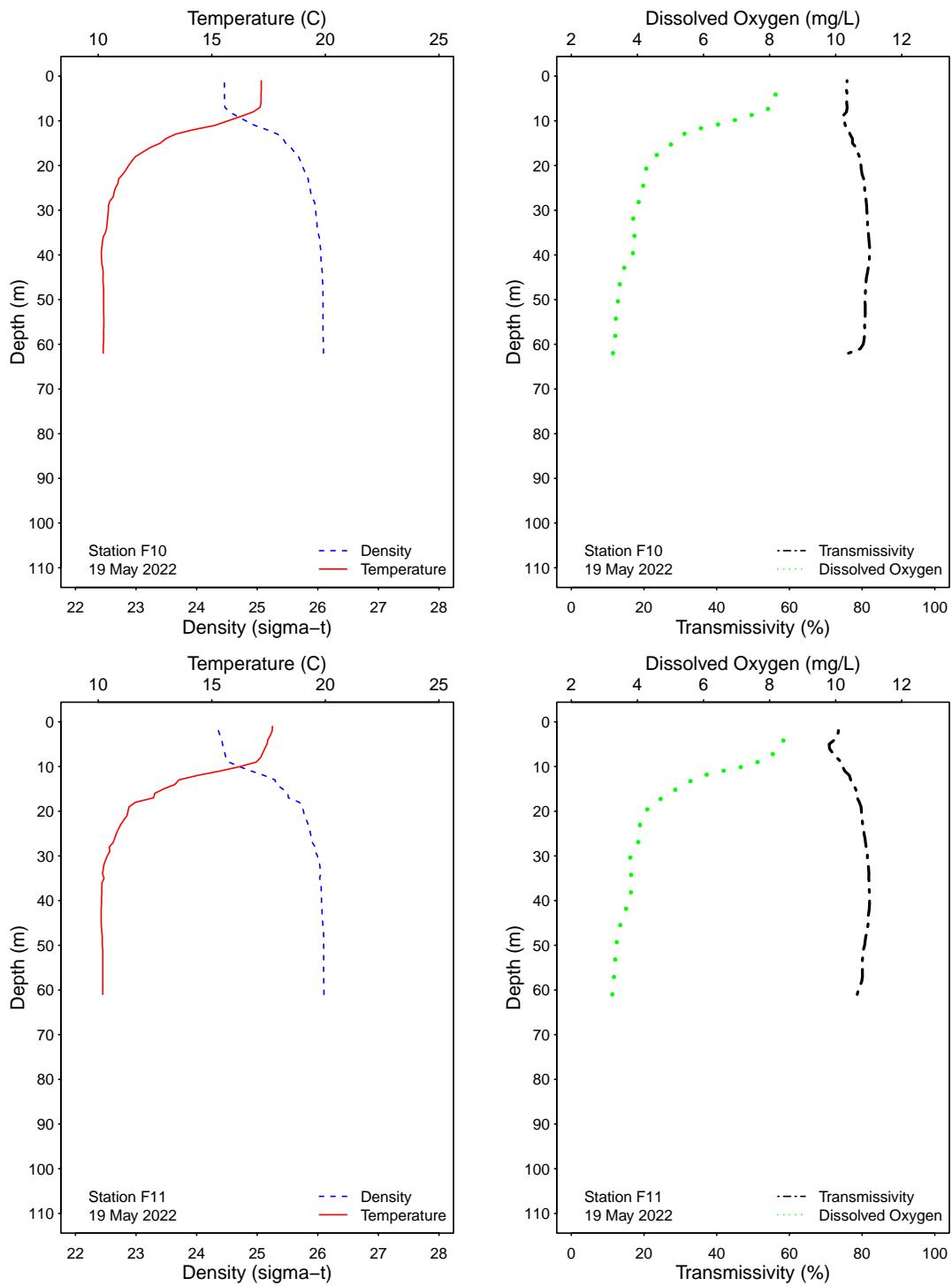


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

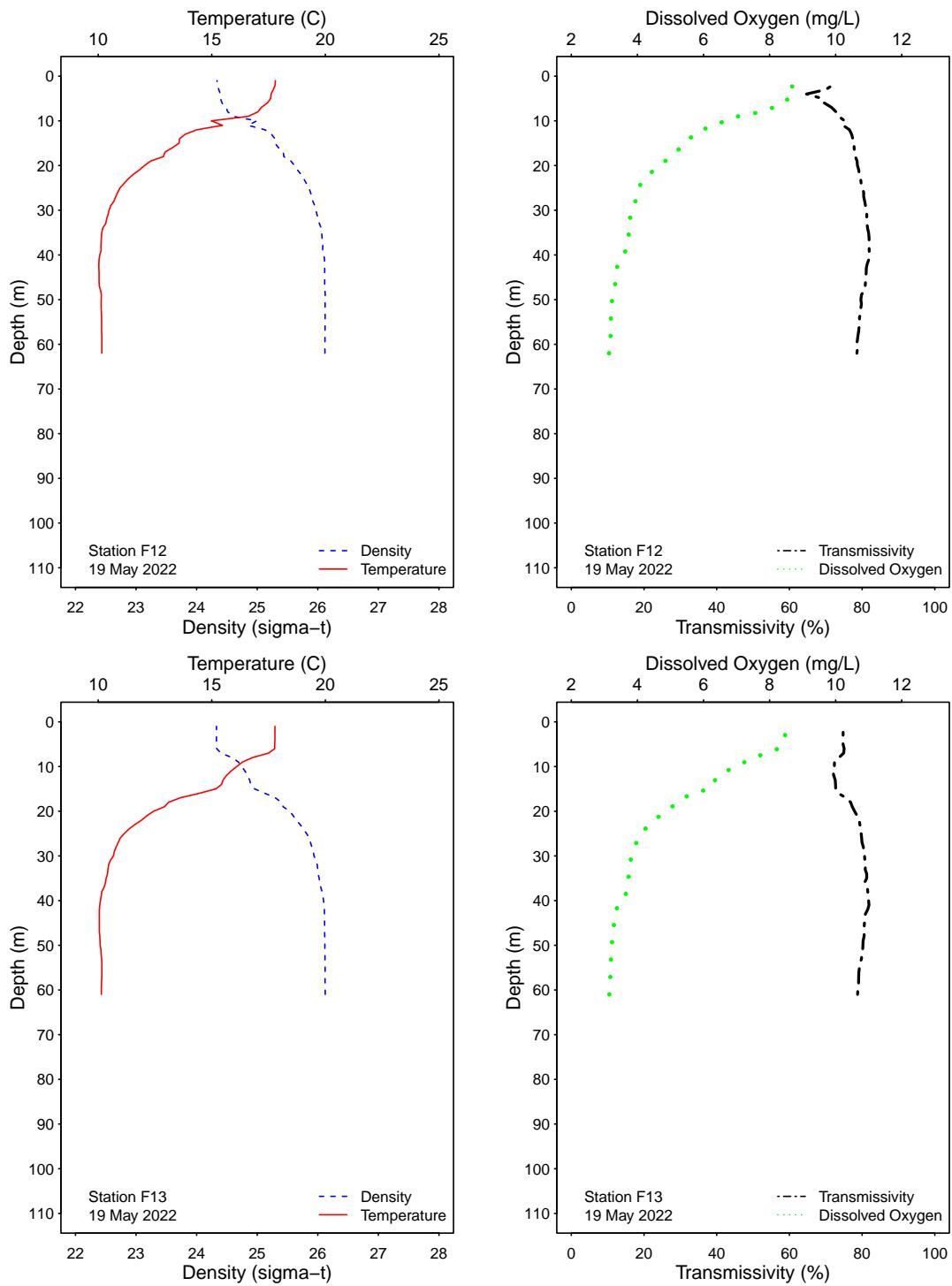


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

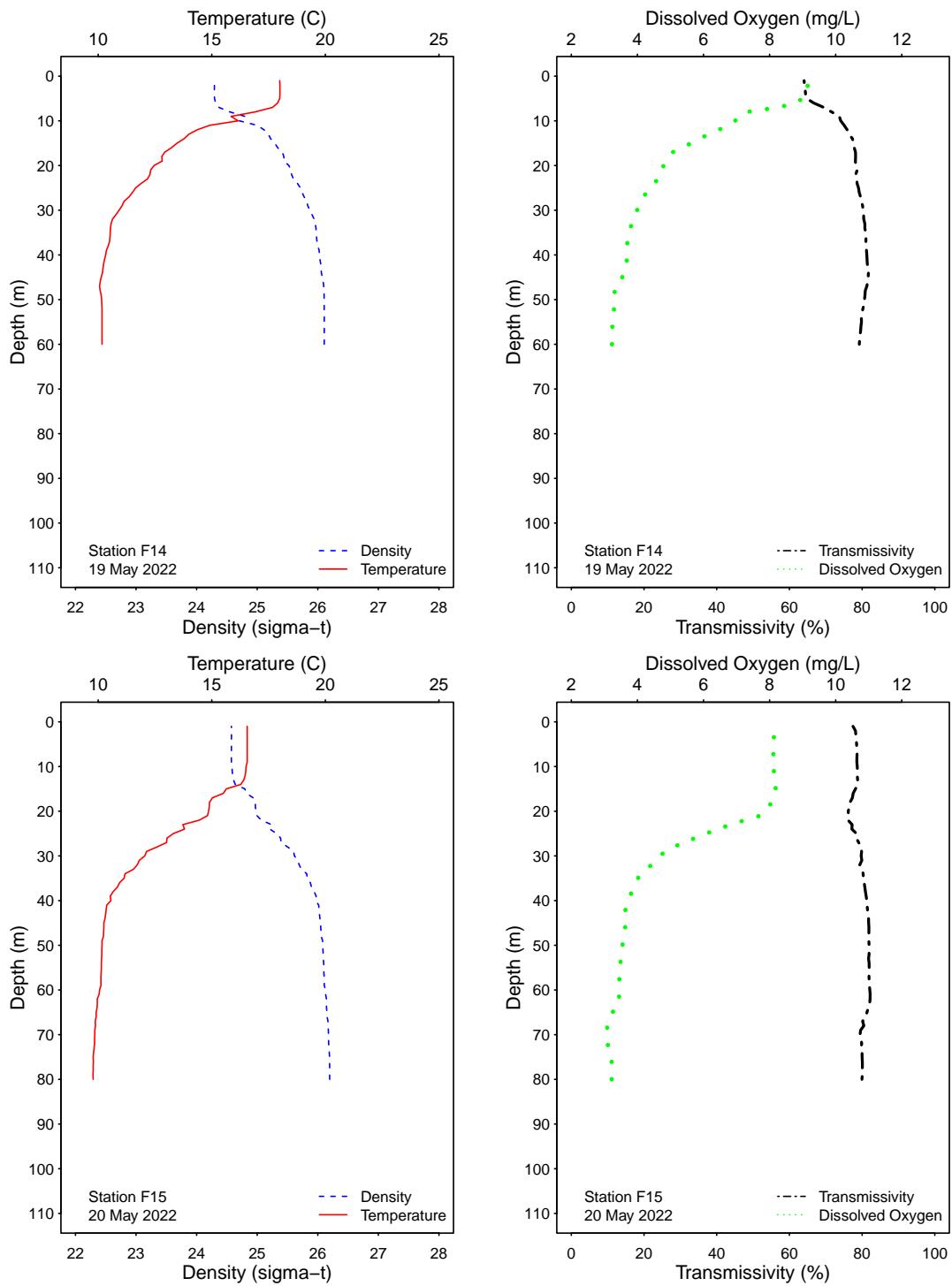


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

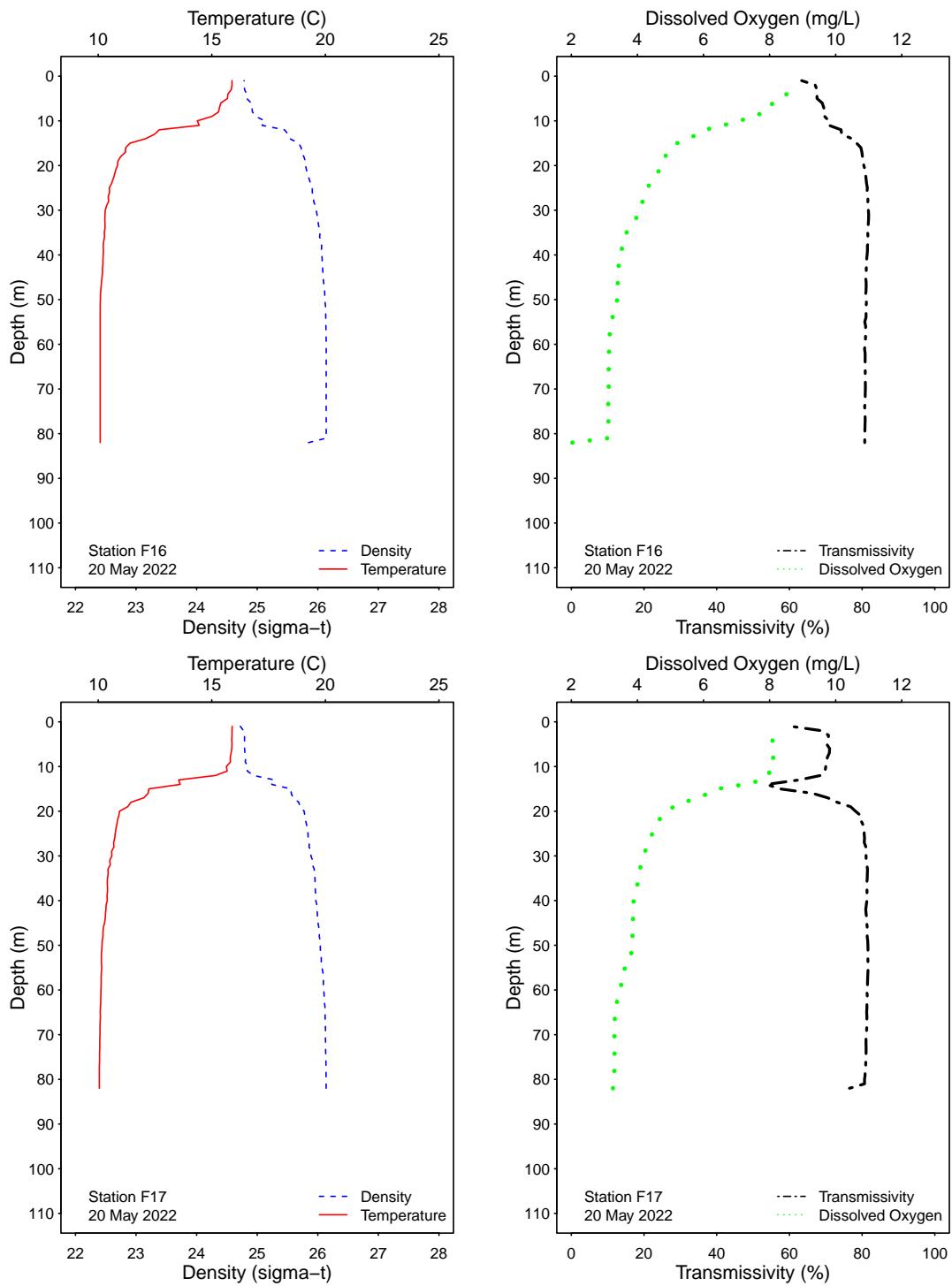


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

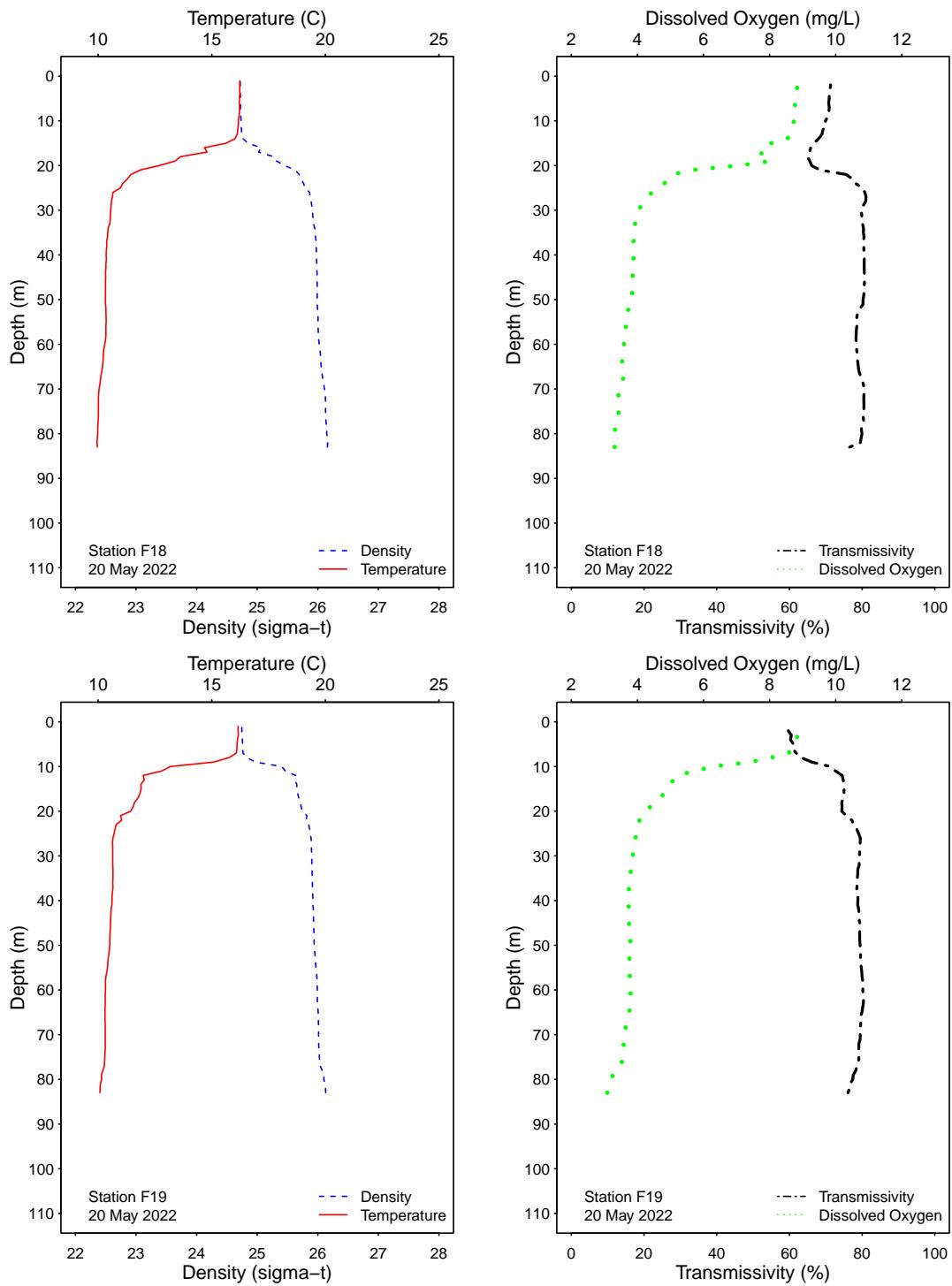


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

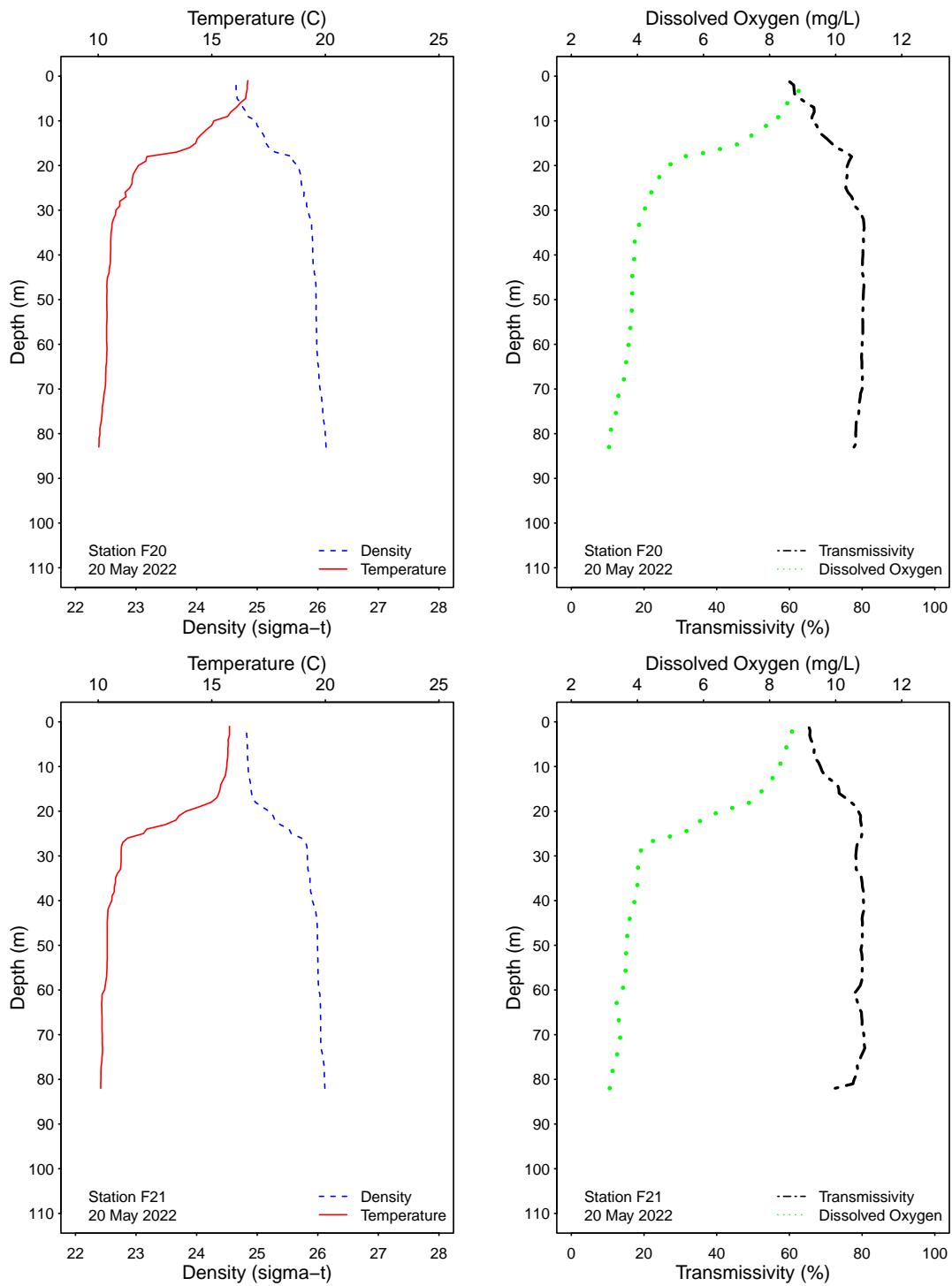


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

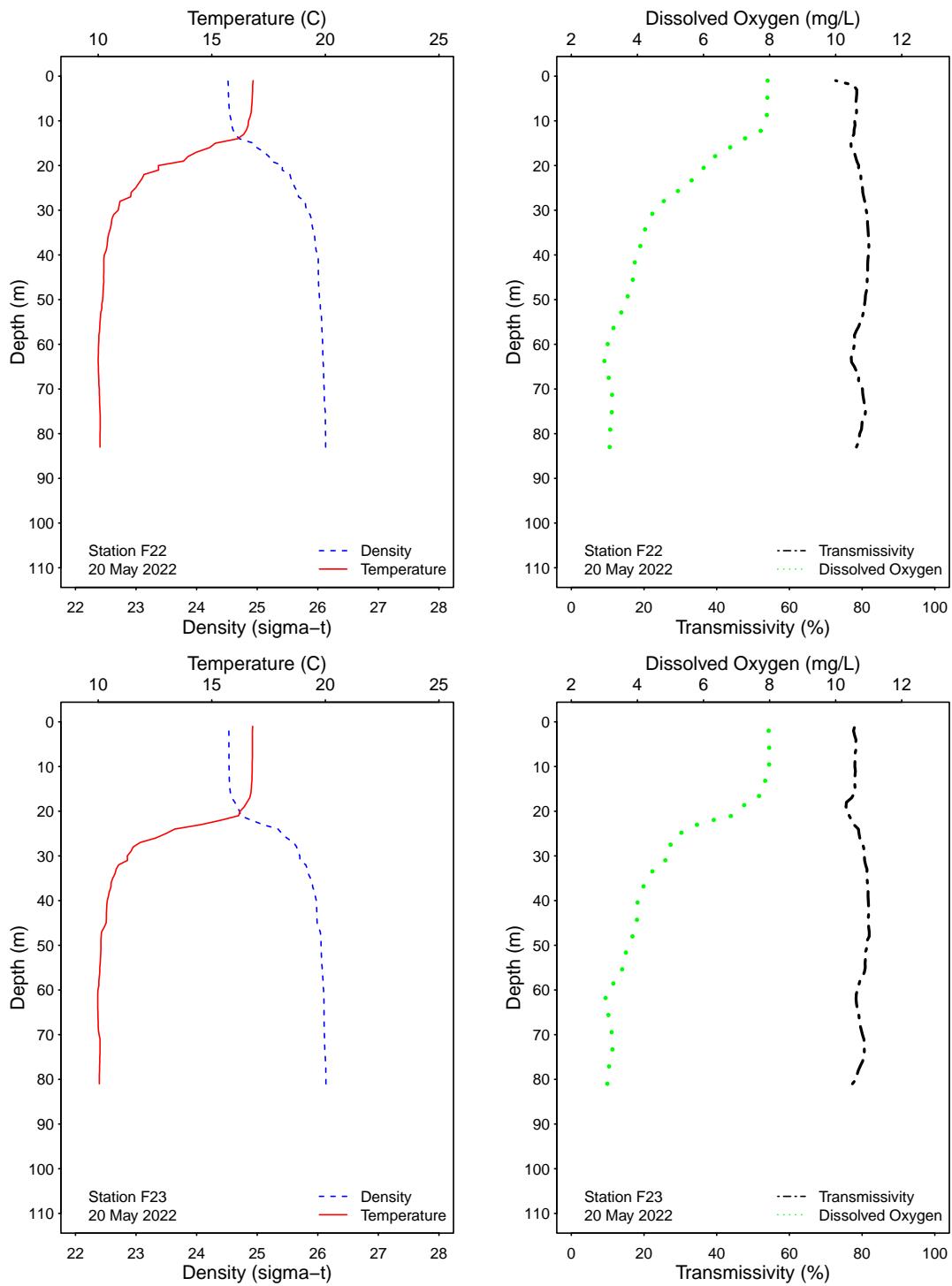


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

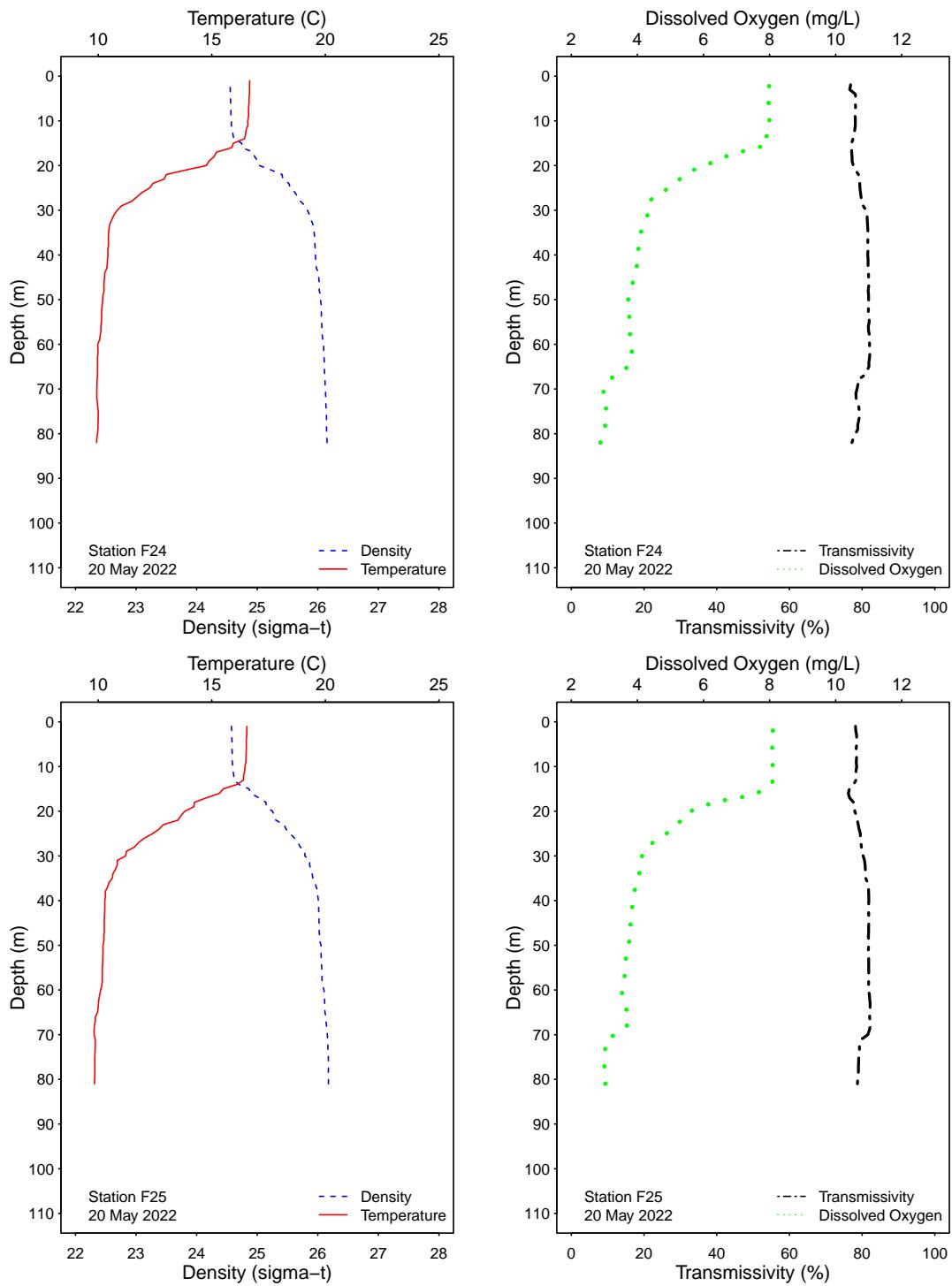


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

## 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 2022	18	HF	LAB DUPLICATE	<2	2e	<2
A7	12 May 2022	18	CRE	LAB DUPLICATE	48	18e	<2
A7	16 May 2022	18	BS	LAB DUPLICATE	20e	4e	<2
A7	24 May 2022	18	KA	LAB DUPLICATE	<2	<2	<2
C7	02 May 2022	18	HF	LAB DUPLICATE	<2	<2	<2
C7	12 May 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
C7	16 May 2022	18	BS	LAB DUPLICATE	48	4e	4e
C7	24 May 2022	18	KA	LAB DUPLICATE	<2	<2	<2
C8	02 May 2022	12	HF	LAB DUPLICATE	<2	<2	<2
C8	12 May 2022	12	CRE	LAB DUPLICATE	<2	<2	<2
C8	16 May 2022	12	BS	LAB DUPLICATE	38e	4e	<2
C8	24 May 2022	12	KA	LAB DUPLICATE	<2	<2	<2
D12	04 May 2022		CRE	FIELD DUPLICATE	<2	<2	<2
D12	04 May 2022		CRE	LAB DUPLICATE	4e	<2	<2
D12	11 May 2022		CRE	FIELD DUPLICATE	<20	<2	<2
D12	11 May 2022		CRE	LAB DUPLICATE	<20	<2	<2
D12	18 May 2022		HF	FIELD DUPLICATE	<20	<2	12e
D12	18 May 2022		HF	LAB DUPLICATE	40e	6e	2e
D12	25 May 2022		HF	FIELD DUPLICATE	<2	<2	<2
D12	25 May 2022		HF	LAB DUPLICATE	<2	<2	<2
F01	19 May 2022	12	HF	LAB DUPLICATE	ns	ns	2e
F02	19 May 2022	12	HF	LAB DUPLICATE	ns	ns	<2
F07	19 May 2022	60	CRE	LAB DUPLICATE	ns	ns	2e
F08	19 May 2022	60	CRE	LAB DUPLICATE	ns	ns	14e
F11	19 May 2022	60	CRE	LAB DUPLICATE	ns	ns	22e
F17	20 May 2022	80	BS	LAB DUPLICATE	ns	ns	4e
F18	20 May 2022	60	JF	LAB DUPLICATE	ns	ns	<2
F19	20 May 2022	60	JF	LAB DUPLICATE	ns	ns	<2
F20	20 May 2022	60	JF	LAB DUPLICATE	ns	ns	180e
F21	20 May 2022	80	CRE	LAB DUPLICATE	ns	ns	8e
F28	18 May 2022	60	CRE	LAB DUPLICATE	ns	ns	34e
F29	18 May 2022	60	CRE	LAB DUPLICATE	ns	ns	280e
F30	18 May 2022	60	BS	LAB DUPLICATE	ns	ns	180e
F31	18 May 2022	80	BS	LAB DUPLICATE	ns	ns	28e
F32	18 May 2022	80	BS	LAB DUPLICATE	ns	ns	6e
F34	18 May 2022	60	BS	LAB DUPLICATE	ns	ns	4e

ns = not sampled

ND = no data



## **APPENDIX B**

### **New 2019 Ocean Plan Water Quality Objectives**



# Shore Stations



**Table B.1**

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 May 2022	2	2	2	6	2	4	17	2
02 May 2022	2	2	2	6	2	4	17	2
03 May 2022	2	2	2	6	2	4	17	2
04 May 2022	2	2	2	6	2	4	17	2
05 May 2022	2	2	2	6	2	4	17	2
06 May 2022	2	2	2	6	2	4	17	2
07 May 2022	2	2	2	6	2	4	17	2
08 May 2022	2	2	2	6	2	4	17	2
09 May 2022	2	2	2	8	2	3	15	2
10 May 2022	2	2	2	8	2	3	15	2
11 May 2022	2	2	2	6	2	3	11	2
12 May 2022	2	2	2	6	2	3	11	2
13 May 2022	2	2	2	6	2	3	11	2
14 May 2022	2	2	2	6	2	3	11	2
15 May 2022	2	2	2	6	2	3	11	2
16 May 2022	2	2	2	6	2	3	11	2
17 May 2022	2	2	2	6	2	3	11	2
18 May 2022	2	2	2	9	3	3	12	2
19 May 2022	2	2	2	9	3	3	12	2
20 May 2022	2	2	2	9	3	3	12	2
21 May 2022	2	2	2	9	3	3	12	2
22 May 2022	2	2	2	9	3	3	12	2
23 May 2022	2	2	2	9	3	3	12	2
24 May 2022	2	2	2	9	3	3	12	2
25 May 2022	2	2	2	5	3	3	12	2
26 May 2022	2	2	2	5	3	3	12	2
27 May 2022	2	2	2	5	3	3	12	2
28 May 2022	2	2	2	5	3	3	12	2
29 May 2022	2	2	2	5	3	3	12	2
30 May 2022	2	2	2	5	3	3	12	2
31 May 2022	2	2	2	5	3	3	12	2

\* 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 2022	4	20	2	20	14	18	16	2
02 May 2022	4	20	2	20	14	18	16	2
03 May 2022	4	20	2	20	14	18	16	2
04 May 2022	4	20	2	20	12	16	12	2
05 May 2022	4	20	2	20	12	16	12	2
06 May 2022	3	20	2	20	11	15	11	2
07 May 2022	3	20	2	20	11	15	11	2
08 May 2022	3	20	2	20	11	15	11	2
09 May 2022	3	20	2	20	11	15	11	2
10 May 2022	3	20	2	20	11	15	11	2
11 May 2022	4	20	2	20	12	16	12	2
12 May 2022	4	20	2	20	12	16	12	2
13 May 2022	3	20	2	20	11	17	11	11
14 May 2022	3	20	2	20	11	17	11	11
15 May 2022	3	20	2	20	11	17	11	11
16 May 2022	3	20	2	20	11	17	11	11
17 May 2022	3	20	2	20	11	17	11	11
18 May 2022	4	20	2	20	12	20	12	20
19 May 2022	4	20	2	20	12	20	12	20
20 May 2022	9	20	3	30	15	20	16	20
21 May 2022	9	20	3	30	15	20	16	20
22 May 2022	9	20	3	30	15	20	16	20
23 May 2022	9	20	3	30	15	20	16	20
24 May 2022	9	20	3	30	15	20	16	20
25 May 2022	6	20	4	20	12	20	18	20
26 May 2022	6	20	4	20	12	20	18	20
27 May 2022	11	20	12	20	16	20	19	11
28 May 2022	11	20	12	20	16	20	19	11
29 May 2022	11	20	12	20	16	20	19	11
30 May 2022	11	20	12	20	16	20	19	11
31 May 2022	11	20	12	20	16	20	19	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	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

# Kelp Stations



**Table B.5**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 May 2022	2	2	2	2	2	2	2	2
02 May 2022	2	2	2	2	2	2	2	2
03 May 2022	2	2	2	2	2	2	2	2
04 May 2022	2	2	2	2	2	2	2	2
05 May 2022	2	2	2	2	2	2	2	2
06 May 2022	2	2	2	2	2	2	2	2
07 May 2022	2	2	2	2	2	2	2	2
08 May 2022	2	2	2	2	2	2	2	2
09 May 2022	2	2	2	2	2	2	2	2
10 May 2022	2	2	2	2	2	2	2	2
11 May 2022	2	2	2	2	2	2	2	2
12 May 2022	2	2	2	2	2	2	2	2
13 May 2022	2	2	2	2	2	2	2	2
14 May 2022	2	2	2	2	2	2	2	2
15 May 2022	2	2	2	2	2	2	2	2
16 May 2022	2	2	2	2	2	2	2	2
17 May 2022	2	2	2	2	2	2	2	2
18 May 2022	2	2	2	2	2	2	2	2
19 May 2022	2	2	2	2	2	2	2	2
20 May 2022	2	2	2	2	2	2	2	2
21 May 2022	2	2	2	2	2	2	2	2
22 May 2022	2	2	2	2	2	2	2	2
23 May 2022	2	2	2	2	2	2	2	2
24 May 2022	2	2	2	2	2	2	2	2
25 May 2022	2	2	2	2	2	2	2	2
26 May 2022	2	2	2	2	2	2	2	2
27 May 2022	2	2	2	2	2	2	2	2
28 May 2022	2	2	2	2	2	2	2	2
29 May 2022	2	2	2	2	2	2	2	2
30 May 2022	2	2	2	2	2	2	2	2
31 May 2022	2	2	2	2	2	2	2	2

\* Geometric mean calculated using n<5

**Table B.6**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
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 PL00 kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (\*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	A1			A6			A7			C4			C5			C6			C7			C8			
	1m	12m	18m	1m	12m	18m	1m	12m	18m	1m	3m	9m	1m	3m	9m	1m	3m	9m	1m	12m	18m	1m	12m	18m	
01 May 2022	11	18	21	2	5	16	2	12	2	2	2	2	2	2	3	2	2	2	2	2	2	7	2	2	9
02 May 2022	2	2	2	2	4	12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	6
03 May 2022	2	2	2	2	4	12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2
04 May 2022	2	2	2	2	5	16	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	6
05 May 2022	11	2	2	2	5	16	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	9
06 May 2022	11	2	2	2	5	16	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	9
07 May 2022	11	2	2	2	5	16	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	9
08 May 2022	11	2	2	5	16	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	9
09 May 2022	11	2	2	5	16	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	9
10 May 2022	11	2	2	5	16	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	9
11 May 2022	11	2	2	2	5	16	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	9
12 May 2022	2	2	2	4	12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6
13 May 2022	11	12	21	3	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5
14 May 2022	11	12	21	2	3	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5
15 May 2022	11	12	21	2	3	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5
16 May 2022	2	18	18	2	4	20	2	2	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6
17 May 2022	2	18	18	2	4	20	2	2	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6
18 May 2022	2	18	18	2	4	20	2	2	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6
19 May 2022	2	10	10	2	3	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13	2	5	13
20 May 2022	2	10	10	2	3	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13	2	5	13
21 May 2022	2	10	10	2	3	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13	2	5	13
22 May 2022	2	10	10	2	3	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13	2	5	13
23 May 2022	2	10	10	2	3	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13	2	5	13
24 May 2022	2	2	2	2	2	12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
25 May 2022	2	2	2	2	2	12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
26 May 2022	2	10	10	2	2	7	2	2	2	17	4	2	2	2	2	2	2	2	2	2	2	11	2	2	4
27 May 2022	2	10	10	2	2	7	2	2	17	4	2	2	2	2	2	2	2	2	2	2	2	11	2	2	4
28 May 2022	2	10	10	2	2	7	2	2	17	4	2	2	2	2	2	2	2	2	2	2	2	11	2	2	4
29 May 2022	2	10	10	2	2	7	2	2	17	4	2	2	2	2	2	2	2	2	2	2	2	11	2	2	4
30 May 2022	2	10	10	2	2	7	2	2	17	4	2	2	2	2	2	2	2	2	2	2	2	11	2	2	4
31 May 2022	2	10	10	2	2	7	2	2	17	4	2	2	2	2	2	2	2	2	2	2	2	11	2	2	4

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													

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

