



# **POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT**

## **POINT LOMA WASTEWATER TREATMENT PLANT**

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

## **NOVEMBER 2022**

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

December 31, 2022

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

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

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

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

Sincerely,

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

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

PV/rk

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



## INTRODUCTION

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

## MATERIALS AND METHODS

### ***Shore Stations***

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

- Station D8 was replaced by alternate station D8-A during July 2016, which was subsequently replaced by station D8-B in March 2018, after which sampling at station D8-A resumed in December 2020. Due to recent access issues at D8-A, sampling resumed at D8-B during February 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 November 2, 9, 16, 21, and 30.
- During November, five of the eight shore stations were out of compliance with 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
  - The Single Sample Maximum (SSM) standard for fecal coliforms was exceeded at station D8-B.
  - The 30-day Geometric Mean standard for *Enterococcus* was exceeded at station D8-B.
  - The SSM standard for *Enterococcus* was exceeded at stations D5, D7, D8-B, D10, and D11.
  - The SSM standard for the fecal:total ratio was exceeded at station D8-B.
- 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*

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

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 November 1, 7, 14, and 21.
- During November, each of the eight kelp bed stations was in compliance with the various 2015 Ocean Plan water contact standards.
- Water column temperatures ranged from 12.68 to 19.00°C. The difference between surface and bottom waters ranged from 0.42 to 4.91°C.
- Chlorophyll *a* concentrations ranged from 0.54 to 11.48 µg/L.
- Nothing of sewage origin was observed at any of the kelp stations.

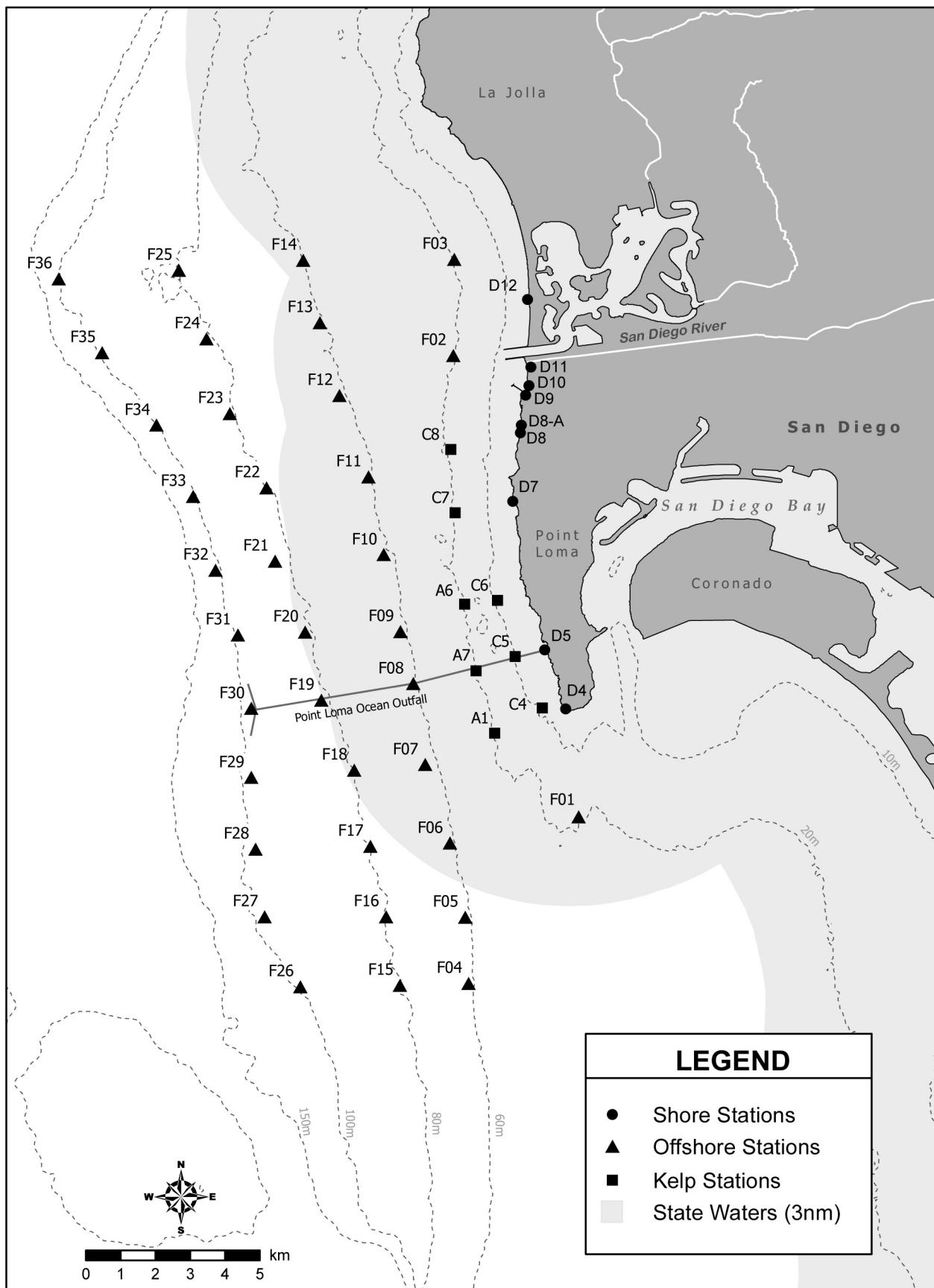
### **Offshore Stations**

- Quarterly offshore water quality sampling was conducted on November 15, 17, and 18.
- During November, 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 various 2015 Ocean Plan water contact standards on one or more days as follows:
  - The SSM standard for *Enterococcus* was exceeded at station F19.
- Of the remaining 21 offshore stations elevated densities of *Enterococcus* bacteria (i.e., <104 CFU/100 mL) were detected at stations F21, F22, F23, F28, F29, and F30 at depths ≥60 meters.
- During November, water column temperatures ranged from 10.67 to 17.56°C. The difference between surface and bottom waters ranged from 2.03 to 6.80°C.
- Chlorophyll *a* concentrations ranged from 0.31 to 5.23 µg/L at the offshore stations during the month.
- CDOM data are available upon request.
- Salinity, density, dissolved oxygen, and CDOM data for depth bins 1-7 m at station F06 were flagged and removed from the reportable dataset due to suspect readings most likely caused by a bubble in the flow path.
- 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 Nov 2022	112	36	112	148	31	176	83	36
02 Nov 2022	80	58	204	318	29	150	63	20
03 Nov 2022	80	58	204	225	29	150	63	20
04 Nov 2022	63	42	205	366	31	140	83	11
05 Nov 2022	63	42	205	366	31	140	83	11
06 Nov 2022	63	42	205	366	31	140	83	11
07 Nov 2022	63	42	205	366	31	140	83	11
08 Nov 2022	63	42	205	366	31	140	83	11
09 Nov 2022	50	58	129	446	60	173	157	13
10 Nov 2022	50	58	129	484	60	173	157	13
11 Nov 2022	63	75	205	468	50	189	112	11
12 Nov 2022	63	75	205	468	50	189	112	11
13 Nov 2022	63	75	205	468	50	189	112	11
14 Nov 2022	63	75	205	468	50	189	112	11
15 Nov 2022	63	75	205	468	50	189	112	11
16 Nov 2022	32	58	81	214	36	105	66	9
17 Nov 2022	32	58	81	214	36	105	66	9
18 Nov 2022	20	75	65	217	42	89	89	8
19 Nov 2022	20	75	65	217	42	89	89	8
20 Nov 2022	20	75	65	217	42	89	89	8
21 Nov 2022	20	91	81	214	36	105	66	6
22 Nov 2022	20	91	81	214	36	105	66	6
23 Nov 2022	20	91	81	214	36	105	66	6
24 Nov 2022	20	91	81	214	36	105	66	6
25 Nov 2022	11	134	65	217	42	89	50	4
26 Nov 2022	11	134	65	217	42	89	50	4
27 Nov 2022	11	134	65	217	42	89	50	4
28 Nov 2022	11	134	65	217	42	89	50	4
29 Nov 2022	11	134	65	217	42	89	50	4
30 Nov 2022	8	91	32	140	36	66	30	4

\* 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 Nov 2022	3	7	6	22	4	14	10	4
02 Nov 2022	3	11	13	45	3	15	12	3
03 Nov 2022	3	11	13	27	3	15	12	3
04 Nov 2022	3	12	20	45	4	16	16	3
05 Nov 2022	3	12	20	45	4	16	16	3
06 Nov 2022	3	12	20	45	4	16	16	3
07 Nov 2022	3	12	20	45	4	16	16	3
08 Nov 2022	3	12	20	45	4	16	16	3
09 Nov 2022	5	20	13	54	7	26	25	3
10 Nov 2022	5	20	13	59	7	26	25	3
11 Nov 2022	4	36	11	46	9	24	19	4
12 Nov 2022	4	36	11	46	9	24	19	4
13 Nov 2022	4	36	11	46	9	24	19	4
14 Nov 2022	4	36	11	46	9	24	19	4
15 Nov 2022	4	36	11	46	9	24	19	4
16 Nov 2022	4	20	8	29	7	14	12	3
17 Nov 2022	4	20	8	29	7	14	12	3
18 Nov 2022	4	14	11	46	5	24	19	4
19 Nov 2022	4	14	11	46	5	24	19	4
20 Nov 2022	4	14	11	46	5	24	19	4
21 Nov 2022	8	15	11	34	4	23	12	4
22 Nov 2022	8	15	11	34	4	23	12	4
23 Nov 2022	8	15	11	34	4	23	12	4
24 Nov 2022	8	15	11	34	4	23	12	4
25 Nov 2022	12	26	9	25	5	20	11	3
26 Nov 2022	12	26	9	25	5	20	11	3
27 Nov 2022	12	26	9	25	5	20	11	3
28 Nov 2022	12	26	9	25	5	20	11	3
29 Nov 2022	12	26	9	25	5	20	11	3
30 Nov 2022	8	25	7	18	4	13	8	3

\* 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 Nov 2022	2	4	3	14	3	18	9	3
02 Nov 2022	2	6	6	44	2	16	8	3
03 Nov 2022	2	6	6	33	2	16	8	3
04 Nov 2022	2	4	7	53	3	24	12	3
05 Nov 2022	2	4	7	53	3	24	12	3
06 Nov 2022	2	4	7	53	3	24	12	3
07 Nov 2022	2	4	7	53	3	24	12	3
08 Nov 2022	2	4	7	53	3	24	12	3
09 Nov 2022	4	9	7	69	5	34	20	3
10 Nov 2022	4	10	7	58	5	27	14	3
11 Nov 2022	4	14	7	43	7	25	10	3
12 Nov 2022	4	14	7	51	7	25	10	3
13 Nov 2022	4	14	7	51	7	25	10	3
14 Nov 2022	4	14	7	51	7	25	10	3
15 Nov 2022	4	14	7	51	7	25	10	3
16 Nov 2022	4	10	6	32	5	17	8	3
17 Nov 2022	4	10	6	32	5	17	8	3
18 Nov 2022	4	14	7	51	5	21	10	3
19 Nov 2022	4	14	7	51	5	21	10	3
20 Nov 2022	4	14	7	51	5	21	10	3
21 Nov 2022	5	10	10	53	4	17	9	3
22 Nov 2022	5	10	10	53	4	17	9	3
23 Nov 2022	5	10	10	53	4	17	9	3
24 Nov 2022	5	10	10	53	4	17	9	3
25 Nov 2022	6	14	13	63	5	12	7	2
26 Nov 2022	6	14	13	63	5	10	7	2
27 Nov 2022	6	14	13	63	5	10	7	2
28 Nov 2022	6	14	13	63	5	10	7	2
29 Nov 2022	6	14	13	63	5	10	7	2
30 Nov 2022	5	10	10	38	4	8	6	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
02 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
03 Nov 2022	ns	ns	ns	IC	ns	ns	ns	ns
09 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2022	ns	ns	ns	IC	ns	ns	ns	ns
16 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
21 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
30 Nov 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
02 Nov 2022	IC	IC	IC	E	IC	IC	IC	IC
03 Nov 2022	ns	ns	ns	IC	ns	ns	ns	ns
09 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2022	ns	ns	ns	IC	ns	ns	ns	ns
16 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
21 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
30 Nov 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
02 Nov 2022	IC	IC	E	E	IC	IC	IC	IC
03 Nov 2022	ns	ns	IC	IC	ns	ns	ns	ns
09 Nov 2022	IC	E	IC	E	IC	E	E	IC
10 Nov 2022	ns	IC	ns	IC	ns	IC	IC	ns
16 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
21 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
30 Nov 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
02 Nov 2022	IC	IC	IC	E	IC	IC	IC	IC
03 Nov 2022	ns	ns	ns	IC	ns	ns	ns	ns
09 Nov 2022	IC	IC	IC	E	IC	IC	IC	IC
10 Nov 2022	ns	ns	ns	IC	ns	ns	ns	ns
16 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
21 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
30 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.8**

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

Station	Date	Time	Total	Fecal	Enter	F:T
D4	02 Nov 2022	844	<20	<2	<2	0.10
D4	09 Nov 2022	906	20e	40e	20e	2.00
D4	16 Nov 2022	1148	<2	<2	<2	1.00
D4	21 Nov 2022	837	20e	120e	14e	6.00
D4	30 Nov 2022	1032	<2	<2	<2	1.00
D5	02 Nov 2022	833	400e	60e	40e	0.15
D5	09 Nov 2022	918	200e	180e	160e	0.90
D5	10 Nov 2022	1241	ns	ns	20e	ns
D5	16 Nov 2022	1132	<20	<2	<2	0.10
D5	21 Nov 2022	815	200e	<20	2e	0.10
D5	30 Nov 2022	1011	<20	24e	<2	1.20
D7	02 Nov 2022	804	2200e	200e	240e	0.09
D7	03 Nov 2022	1019	ns	ns	4e	ns
D7	09 Nov 2022	941	20e	2e	6e	0.10
D7	16 Nov 2022	1059	<2	<2	2e	1.00
D7	21 Nov 2022	901	<200	8e	38e	0.04
D7	30 Nov 2022	946	<2	<2	<2	1.00
D8-B	02 Nov 2022	750	6800	800e	>12000	0.12
D8-B	03 Nov 2022	1005	40e	2e	6e	0.05
D8-B	09 Nov 2022	958	1200e	140e	320e	0.12
D8-B	10 Nov 2022	1209	800e	100e	18e	0.12
D8-B	16 Nov 2022	1041	<2	<2	<2	1.00
D8-B	21 Nov 2022	919	<200	6e	74	0.03
D8-B	30 Nov 2022	930	10e	<2	<2	0.20
D9	02 Nov 2022	741	20e	<2	<2	0.10
D9	09 Nov 2022	1009	800e	80e	100e	0.10
D9	16 Nov 2022	1026	10e	<2	<2	0.20
D9	21 Nov 2022	936	20e	<2	<2	0.10
D9	30 Nov 2022	915	<20	<2	<2	0.10
D10	02 Nov 2022	730	80e	<20	8e	0.25
D10	09 Nov 2022	1022	400e	<200	220e	0.50
D10	10 Nov 2022	1158	ns	ns	6e	ns
D10	16 Nov 2022	1007	10e	<2	<2	0.20
D10	21 Nov 2022	955	200e	20e	6e	0.10
D10	30 Nov 2022	900	<20	<2	2e	0.10
D11	02 Nov 2022	720	<20	<20	6e	1.00
D11	09 Nov 2022	1113	2000e	180e	160e	0.09
D11	10 Nov 2022	1145	ns	ns	2e	ns
D11	16 Nov 2022	946	8e	<2	<2	0.25
D11	21 Nov 2022	1009	<20	2e	6e	0.10
D11	30 Nov 2022	847	4e	<2	2e	0.50
D12	02 Nov 2022	658	2e	<2	<2	1.00
D12	09 Nov 2022	1137	<20	6e	4e	0.30
D12	16 Nov 2022	920	4e	<2	<2	0.50
D12	21 Nov 2022	1046	<2	4e	<2	2.00
D12	30 Nov 2022	820	4e	<2	<2	0.50

ns = not sampled

ND = no data

## Comments

Station	Date	Depth	Parameter	Comments
D4	02 Nov 2022			Water Bath was 0.1C below acceptable range overnight.
D5	02 Nov 2022			Water Bath was 0.1C below acceptable range overnight.
D7	02 Nov 2022			Water Bath was 0.1C below acceptable range overnight.
D8-B	02 Nov 2022			Water Bath was 0.1C below acceptable range overnight.
D9	02 Nov 2022			Water Bath was 0.1C below acceptable range overnight.
D10	02 Nov 2022			Water Bath was 0.1C below acceptable range overnight.
D11	02 Nov 2022			Water Bath was 0.1C below acceptable range overnight.
D12	02 Nov 2022			Water Bath was 0.1C below acceptable range overnight.
	02 Nov 2022			mFC waterbath was 0.1deg below acceptable on 11/2. Because QC in same bath passed and temp difference was slight, unlikely to have affected results.

**Table 2.9**

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

Station	Date	Parameter	Value
D4	02 Nov 2022	Arrive Time	844
D4	02 Nov 2022	Weather	Partly cloudy
D4	02 Nov 2022	Wind Speed (kts)	6.8
D4	02 Nov 2022	Wind Dir	SW
D4	02 Nov 2022	Animal Life	Bird-18
D4	02 Nov 2022	Floatables	None
D4	02 Nov 2022	Water Color	Green
D4	02 Nov 2022	Current Direction	N
D4	02 Nov 2022	Water Temp (C)	19.2
D4	02 Nov 2022	Wave Height Low (ft)	2
D4	02 Nov 2022	High Tide (ft)	4.36
D4	02 Nov 2022	High Tide Time	619
D4	02 Nov 2022	Low Tide (ft)	2.48
D4	02 Nov 2022	Low Tide Time	1141
D4	02 Nov 2022	Comments	none
D4	09 Nov 2022	Arrive Time	906
D4	09 Nov 2022	Weather	Partly cloudy
D4	09 Nov 2022	Wind Speed (kts)	4.6
D4	09 Nov 2022	Wind Dir	NW
D4	09 Nov 2022	Animal Life	
D4	09 Nov 2022	Floatables	Foam
D4	09 Nov 2022	Water Color	Green
D4	09 Nov 2022	Current Direction	S
D4	09 Nov 2022	Water Temp (C)	17.8
D4	09 Nov 2022	Wave Height Low (ft)	3
D4	09 Nov 2022	High Tide (ft)	6.11
D4	09 Nov 2022	High Tide Time	836
D4	09 Nov 2022	Low Tide (ft)	1.7
D4	09 Nov 2022	Low Tide Time	229
D4	09 Nov 2022	Comments	none
D4	16 Nov 2022	Arrive Time	1148
D4	16 Nov 2022	Weather	Sunny
D4	16 Nov 2022	Wind Speed (kts)	3.8
D4	16 Nov 2022	Wind Dir	N
D4	16 Nov 2022	Animal Life	Bird-17; Pelican-2; Seagull-1
D4	16 Nov 2022	Floatables	None
D4	16 Nov 2022	Water Color	Green
D4	16 Nov 2022	Current Direction	S
D4	16 Nov 2022	Water Temp (C)	17.3
D4	16 Nov 2022	Wave Height Low (ft)	1.5
D4	16 Nov 2022	High Tide (ft)	3.82
D4	16 Nov 2022	High Tide Time	504
D4	16 Nov 2022	Low Tide (ft)	3.15
D4	16 Nov 2022	Low Tide Time	944
D4	16 Nov 2022	Comments	none
D4	21 Nov 2022	Arrive Time	837
D4	21 Nov 2022	Weather	Sunny
D4	21 Nov 2022	Wind Speed (kts)	3.4
D4	21 Nov 2022	Wind Dir	S
D4	21 Nov 2022	Animal Life	Bird-19; Pelican-6
D4	21 Nov 2022	Floatables	Foam
D4	21 Nov 2022	Water Color	Green
D4	21 Nov 2022	Current Direction	N

Station	Date	Parameter	Value
D4	21 Nov 2022	Water Temp (C)	16.1
D4	21 Nov 2022	Wave Height Low (ft)	2
D4	21 Nov 2022	High Tide (ft)	5.84
D4	21 Nov 2022	High Tide Time	639
D4	21 Nov 2022	Low Tide (ft)	0.98
D4	21 Nov 2022	Low Tide Time	24
D4	21 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-4; Boater/Kayaker-2; Trash-1; Algae; Seagrass; Kelp
D4	30 Nov 2022	Arrive Time	1032
D4	30 Nov 2022	Weather	Cloudy
D4	30 Nov 2022	Wind Speed (kts)	0
D4	30 Nov 2022	Wind Dir	S
D4	30 Nov 2022	Animal Life	
D4	30 Nov 2022	Floatables	None
D4	30 Nov 2022	Water Color	Green
D4	30 Nov 2022	Current Direction	S
D4	30 Nov 2022	Water Temp (C)	14.9
D4	30 Nov 2022	Wave Height Low (ft)	1
D4	30 Nov 2022	High Tide (ft)	4.14
D4	30 Nov 2022	High Tide Time	340
D4	30 Nov 2022	Low Tide (ft)	2.65
D4	30 Nov 2022	Low Tide Time	858
D4	30 Nov 2022	Comments	none
D5	02 Nov 2022	Arrive Time	833
D5	02 Nov 2022	Weather	Overcast
D5	02 Nov 2022	Wind Speed (kts)	1.3
D5	02 Nov 2022	Wind Dir	SW
D5	02 Nov 2022	Animal Life	
D5	02 Nov 2022	Floatables	Foam; Film
D5	02 Nov 2022	Water Color	Brown
D5	02 Nov 2022	Current Direction	N
D5	02 Nov 2022	Water Temp (C)	19.6
D5	02 Nov 2022	Wave Height Low (ft)	2
D5	02 Nov 2022	High Tide (ft)	4.36
D5	02 Nov 2022	High Tide Time	619
D5	02 Nov 2022	Low Tide (ft)	2.48
D5	02 Nov 2022	Low Tide Time	1141
D5	02 Nov 2022	Comments	Water turbid; Trash-1; Kelp; Algae; Seagrass; Person/Walker/Jogger-2
D5	09 Nov 2022	Arrive Time	918
D5	09 Nov 2022	Weather	Partly cloudy
D5	09 Nov 2022	Wind Speed (kts)	10.6
D5	09 Nov 2022	Wind Dir	NW
D5	09 Nov 2022	Animal Life	
D5	09 Nov 2022	Floatables	Foam
D5	09 Nov 2022	Water Color	Brown
D5	09 Nov 2022	Current Direction	N
D5	09 Nov 2022	Water Temp (C)	17.2
D5	09 Nov 2022	Wave Height Low (ft)	3
D5	09 Nov 2022	High Tide (ft)	6.11
D5	09 Nov 2022	High Tide Time	836
D5	09 Nov 2022	Low Tide (ft)	1.7
D5	09 Nov 2022	Low Tide Time	229
D5	09 Nov 2022	Comments	none
D5	10 Nov 2022	Arrive Time	1241
D5	10 Nov 2022	Weather	Sunny
D5	10 Nov 2022	Wind Speed (kts)	6.9

Station	Date	Parameter	Value
D5	10 Nov 2022	Wind Dir	NW
D5	10 Nov 2022	Animal Life	
D5	10 Nov 2022	Floatables	Foam; Film
D5	10 Nov 2022	Water Color	Brown
D5	10 Nov 2022	Current Direction	S
D5	10 Nov 2022	Water Temp (C)	17.4
D5	10 Nov 2022	Wave Height Low (ft)	4
D5	10 Nov 2022	High Tide (ft)	5.91
D5	10 Nov 2022	High Tide Time	903
D5	10 Nov 2022	Low Tide (ft)	2.09
D5	10 Nov 2022	Low Tide Time	254
D5	10 Nov 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-2
D5	16 Nov 2022	Arrive Time	1132
D5	16 Nov 2022	Weather	Sunny
D5	16 Nov 2022	Wind Speed (kts)	1.9
D5	16 Nov 2022	Wind Dir	N
D5	16 Nov 2022	Animal Life	Seagull-1
D5	16 Nov 2022	Floatables	None
D5	16 Nov 2022	Water Color	Green
D5	16 Nov 2022	Current Direction	N
D5	16 Nov 2022	Water Temp (C)	17.3
D5	16 Nov 2022	Wave Height Low (ft)	0.5
D5	16 Nov 2022	High Tide (ft)	3.82
D5	16 Nov 2022	High Tide Time	504
D5	16 Nov 2022	Low Tide (ft)	3.15
D5	16 Nov 2022	Low Tide Time	944
D5	16 Nov 2022	Comments	none
D5	21 Nov 2022	Arrive Time	815
D5	21 Nov 2022	Weather	Partly cloudy
D5	21 Nov 2022	Wind Speed (kts)	0
D5	21 Nov 2022	Wind Dir	
D5	21 Nov 2022	Animal Life	Seagull-1
D5	21 Nov 2022	Floatables	Foam
D5	21 Nov 2022	Water Color	Green
D5	21 Nov 2022	Current Direction	N
D5	21 Nov 2022	Water Temp (C)	16.5
D5	21 Nov 2022	Wave Height Low (ft)	3
D5	21 Nov 2022	High Tide (ft)	5.84
D5	21 Nov 2022	High Tide Time	639
D5	21 Nov 2022	Low Tide (ft)	0.98
D5	21 Nov 2022	Low Tide Time	24
D5	21 Nov 2022	Comments	none
D5	30 Nov 2022	Arrive Time	1011
D5	30 Nov 2022	Weather	Cloudy
D5	30 Nov 2022	Wind Speed (kts)	0.3
D5	30 Nov 2022	Wind Dir	S
D5	30 Nov 2022	Animal Life	
D5	30 Nov 2022	Floatables	None
D5	30 Nov 2022	Water Color	Green
D5	30 Nov 2022	Current Direction	S
D5	30 Nov 2022	Water Temp (C)	14.6
D5	30 Nov 2022	Wave Height Low (ft)	2
D5	30 Nov 2022	High Tide (ft)	4.14
D5	30 Nov 2022	High Tide Time	340
D5	30 Nov 2022	Low Tide (ft)	2.65
D5	30 Nov 2022	Low Tide Time	858
D5	30 Nov 2022	Comments	none

Station	Date	Parameter	Value
D7	02 Nov 2022	Arrive Time	804
D7	02 Nov 2022	Weather	Moderate rain
D7	02 Nov 2022	Wind Speed (kts)	6.4
D7	02 Nov 2022	Wind Dir	S
D7	02 Nov 2022	Animal Life	
D7	02 Nov 2022	Floatables	Film
D7	02 Nov 2022	Water Color	Green
D7	02 Nov 2022	Current Direction	N
D7	02 Nov 2022	Water Temp (C)	19.3
D7	02 Nov 2022	Wave Height Low (ft)	3
D7	02 Nov 2022	High Tide (ft)	4.36
D7	02 Nov 2022	High Tide Time	619
D7	02 Nov 2022	Low Tide (ft)	2.48
D7	02 Nov 2022	Low Tide Time	1141
D7	02 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-1; Kelp; Seagrass; Algae
D7	03 Nov 2022	Arrive Time	1019
D7	03 Nov 2022	Weather	Cloudy
D7	03 Nov 2022	Wind Speed (kts)	9
D7	03 Nov 2022	Wind Dir	NW
D7	03 Nov 2022	Animal Life	Seagull-2
D7	03 Nov 2022	Floatables	None
D7	03 Nov 2022	Water Color	Green
D7	03 Nov 2022	Current Direction	S
D7	03 Nov 2022	Water Temp (C)	18
D7	03 Nov 2022	Wave Height Low (ft)	4
D7	03 Nov 2022	High Tide (ft)	4.84
D7	03 Nov 2022	High Tide Time	650
D7	03 Nov 2022	Low Tide (ft)	-0.06
D7	03 Nov 2022	Low Tide Time	13
D7	03 Nov 2022	Comments	Resample; Water turbid; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-1
D7	09 Nov 2022	Arrive Time	941
D7	09 Nov 2022	Weather	Partly cloudy
D7	09 Nov 2022	Wind Speed (kts)	9.3
D7	09 Nov 2022	Wind Dir	NW
D7	09 Nov 2022	Animal Life	
D7	09 Nov 2022	Floatables	Foam
D7	09 Nov 2022	Water Color	Green
D7	09 Nov 2022	Current Direction	S
D7	09 Nov 2022	Water Temp (C)	17.7
D7	09 Nov 2022	Wave Height Low (ft)	4
D7	09 Nov 2022	High Tide (ft)	6.11
D7	09 Nov 2022	High Tide Time	836
D7	09 Nov 2022	Low Tide (ft)	1.7
D7	09 Nov 2022	Low Tide Time	229
D7	09 Nov 2022	Comments	none
D7	16 Nov 2022	Arrive Time	1059
D7	16 Nov 2022	Weather	Sunny
D7	16 Nov 2022	Wind Speed (kts)	0.9
D7	16 Nov 2022	Wind Dir	NW
D7	16 Nov 2022	Animal Life	Seagull-3
D7	16 Nov 2022	Floatables	None
D7	16 Nov 2022	Water Color	Green
D7	16 Nov 2022	Current Direction	N
D7	16 Nov 2022	Water Temp (C)	18
D7	16 Nov 2022	Wave Height Low (ft)	3

Station	Date	Parameter	Value
D7	16 Nov 2022	High Tide (ft)	3.82
D7	16 Nov 2022	High Tide Time	504
D7	16 Nov 2022	Low Tide (ft)	3.15
D7	16 Nov 2022	Low Tide Time	944
D7	16 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-15; Trash-1; Algae; Person/Walker/Jogger-1
D7	21 Nov 2022	Arrive Time	901
D7	21 Nov 2022	Weather	Sunny
D7	21 Nov 2022	Wind Speed (kts)	0
D7	21 Nov 2022	Wind Dir	
D7	21 Nov 2022	Animal Life	
D7	21 Nov 2022	Floatables	Foam
D7	21 Nov 2022	Water Color	Green
D7	21 Nov 2022	Current Direction	N
D7	21 Nov 2022	Water Temp (C)	18.4
D7	21 Nov 2022	Wave Height Low (ft)	3
D7	21 Nov 2022	High Tide (ft)	5.84
D7	21 Nov 2022	High Tide Time	639
D7	21 Nov 2022	Low Tide (ft)	0.98
D7	21 Nov 2022	Low Tide Time	24
D7	21 Nov 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-1
D7	30 Nov 2022	Arrive Time	946
D7	30 Nov 2022	Weather	Cloudy
D7	30 Nov 2022	Wind Speed (kts)	1.5
D7	30 Nov 2022	Wind Dir	S
D7	30 Nov 2022	Animal Life	
D7	30 Nov 2022	Floatables	None
D7	30 Nov 2022	Water Color	Green
D7	30 Nov 2022	Current Direction	S
D7	30 Nov 2022	Water Temp (C)	14.5
D7	30 Nov 2022	Wave Height Low (ft)	2
D7	30 Nov 2022	High Tide (ft)	4.14
D7	30 Nov 2022	High Tide Time	340
D7	30 Nov 2022	Low Tide (ft)	2.65
D7	30 Nov 2022	Low Tide Time	858
D7	30 Nov 2022	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Algae; Seagrass
D8-B	02 Nov 2022	Arrive Time	750
D8-B	02 Nov 2022	Weather	Heavy rain
D8-B	02 Nov 2022	Wind Speed (kts)	0.9
D8-B	02 Nov 2022	Wind Dir	SW
D8-B	02 Nov 2022	Animal Life	
D8-B	02 Nov 2022	Floatables	Foam
D8-B	02 Nov 2022	Water Color	Brown
D8-B	02 Nov 2022	Current Direction	N
D8-B	02 Nov 2022	Water Temp (C)	18.9
D8-B	02 Nov 2022	Wave Height Low (ft)	3
D8-B	02 Nov 2022	High Tide (ft)	4.36
D8-B	02 Nov 2022	High Tide Time	619
D8-B	02 Nov 2022	Low Tide (ft)	2.48
D8-B	02 Nov 2022	Low Tide Time	1141
D8-B	02 Nov 2022	Comments	none
D8-B	03 Nov 2022	Arrive Time	1005
D8-B	03 Nov 2022	Weather	Cloudy
D8-B	03 Nov 2022	Wind Speed (kts)	12.4
D8-B	03 Nov 2022	Wind Dir	SW

Station	Date	Parameter	Value
D8-B	03 Nov 2022	Animal Life	Dog-1; Seagull-1
D8-B	03 Nov 2022	Floatables	None
D8-B	03 Nov 2022	Water Color	Green
D8-B	03 Nov 2022	Current Direction	S
D8-B	03 Nov 2022	Water Temp (C)	18
D8-B	03 Nov 2022	Wave Height Low (ft)	5
D8-B	03 Nov 2022	High Tide (ft)	4.84
D8-B	03 Nov 2022	High Tide Time	650
D8-B	03 Nov 2022	Low Tide (ft)	-0.06
D8-B	03 Nov 2022	Low Tide Time	13
D8-B	03 Nov 2022	Comments	Resample; Water turbid; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-1
D8-B	09 Nov 2022	Arrive Time	958
D8-B	09 Nov 2022	Weather	Partly cloudy
D8-B	09 Nov 2022	Wind Speed (kts)	8.7
D8-B	09 Nov 2022	Wind Dir	W
D8-B	09 Nov 2022	Animal Life	
D8-B	09 Nov 2022	Floatables	Foam; Film
D8-B	09 Nov 2022	Water Color	Brown
D8-B	09 Nov 2022	Current Direction	S
D8-B	09 Nov 2022	Water Temp (C)	17.9
D8-B	09 Nov 2022	Wave Height Low (ft)	4
D8-B	09 Nov 2022	High Tide (ft)	6.11
D8-B	09 Nov 2022	High Tide Time	836
D8-B	09 Nov 2022	Low Tide (ft)	1.7
D8-B	09 Nov 2022	Low Tide Time	229
D8-B	09 Nov 2022	Comments	none
D8-B	10 Nov 2022	Arrive Time	1209
D8-B	10 Nov 2022	Weather	Sunny
D8-B	10 Nov 2022	Wind Speed (kts)	6
D8-B	10 Nov 2022	Wind Dir	W
D8-B	10 Nov 2022	Animal Life	
D8-B	10 Nov 2022	Floatables	Foam; Film
D8-B	10 Nov 2022	Water Color	Brown
D8-B	10 Nov 2022	Current Direction	S
D8-B	10 Nov 2022	Water Temp (C)	18.2
D8-B	10 Nov 2022	Wave Height Low (ft)	3
D8-B	10 Nov 2022	High Tide (ft)	5.91
D8-B	10 Nov 2022	High Tide Time	903
D8-B	10 Nov 2022	Low Tide (ft)	2.09
D8-B	10 Nov 2022	Low Tide Time	254
D8-B	10 Nov 2022	Comments	none
D8-B	16 Nov 2022	Arrive Time	1041
D8-B	16 Nov 2022	Weather	Sunny
D8-B	16 Nov 2022	Wind Speed (kts)	2.7
D8-B	16 Nov 2022	Wind Dir	W
D8-B	16 Nov 2022	Animal Life	
D8-B	16 Nov 2022	Floatables	Foam
D8-B	16 Nov 2022	Water Color	Green
D8-B	16 Nov 2022	Current Direction	N
D8-B	16 Nov 2022	Water Temp (C)	16.9
D8-B	16 Nov 2022	Wave Height Low (ft)	1
D8-B	16 Nov 2022	High Tide (ft)	3.82
D8-B	16 Nov 2022	High Tide Time	504
D8-B	16 Nov 2022	Low Tide (ft)	3.15
D8-B	16 Nov 2022	Low Tide Time	944
D8-B	16 Nov 2022	Comments	none

Station	Date	Parameter	Value
D8-B	21 Nov 2022	Arrive Time	919
D8-B	21 Nov 2022	Weather	Sunny
D8-B	21 Nov 2022	Wind Speed (kts)	0
D8-B	21 Nov 2022	Wind Dir	
D8-B	21 Nov 2022	Animal Life	
D8-B	21 Nov 2022	Floatables	Foam
D8-B	21 Nov 2022	Water Color	Green
D8-B	21 Nov 2022	Current Direction	N
D8-B	21 Nov 2022	Water Temp (C)	17
D8-B	21 Nov 2022	Wave Height Low (ft)	3
D8-B	21 Nov 2022	High Tide (ft)	5.84
D8-B	21 Nov 2022	High Tide Time	639
D8-B	21 Nov 2022	Low Tide (ft)	0.98
D8-B	21 Nov 2022	Low Tide Time	24
D8-B	21 Nov 2022	Comments	none
D8-B	30 Nov 2022	Arrive Time	930
D8-B	30 Nov 2022	Weather	Cloudy
D8-B	30 Nov 2022	Wind Speed (kts)	2.7
D8-B	30 Nov 2022	Wind Dir	SE
D8-B	30 Nov 2022	Animal Life	
D8-B	30 Nov 2022	Floatables	None
D8-B	30 Nov 2022	Water Color	Green
D8-B	30 Nov 2022	Current Direction	S
D8-B	30 Nov 2022	Water Temp (C)	15.1
D8-B	30 Nov 2022	Wave Height Low (ft)	3
D8-B	30 Nov 2022	High Tide (ft)	4.14
D8-B	30 Nov 2022	High Tide Time	340
D8-B	30 Nov 2022	Low Tide (ft)	2.65
D8-B	30 Nov 2022	Low Tide Time	858
D8-B	30 Nov 2022	Comments	Water clear; Trash-1; Kelp; Algae; Person/Walker/Jogger-2
D9	02 Nov 2022	Arrive Time	741
D9	02 Nov 2022	Weather	Moderate rain
D9	02 Nov 2022	Wind Speed (kts)	2.9
D9	02 Nov 2022	Wind Dir	S
D9	02 Nov 2022	Animal Life	
D9	02 Nov 2022	Floatables	Foam
D9	02 Nov 2022	Water Color	Green
D9	02 Nov 2022	Current Direction	N
D9	02 Nov 2022	Water Temp (C)	18.1
D9	02 Nov 2022	Wave Height Low (ft)	4
D9	02 Nov 2022	High Tide (ft)	4.36
D9	02 Nov 2022	High Tide Time	619
D9	02 Nov 2022	Low Tide (ft)	2.48
D9	02 Nov 2022	Low Tide Time	1141
D9	02 Nov 2022	Comments	none
D9	09 Nov 2022	Arrive Time	1009
D9	09 Nov 2022	Weather	Partly cloudy
D9	09 Nov 2022	Wind Speed (kts)	4.6
D9	09 Nov 2022	Wind Dir	SW
D9	09 Nov 2022	Animal Life	
D9	09 Nov 2022	Floatables	Foam; Film
D9	09 Nov 2022	Water Color	Green
D9	09 Nov 2022	Current Direction	S
D9	09 Nov 2022	Water Temp (C)	17.8
D9	09 Nov 2022	Wave Height Low (ft)	4
D9	09 Nov 2022	High Tide (ft)	6.11
D9	09 Nov 2022	High Tide Time	836
D9	09 Nov 2022	Low Tide (ft)	1.7

Station	Date	Parameter	Value
D9	09 Nov 2022	Low Tide Time	229
D9	09 Nov 2022	Comments	none
D9	16 Nov 2022	Arrive Time	1026
D9	16 Nov 2022	Weather	Sunny
D9	16 Nov 2022	Wind Speed (kts)	3.6
D9	16 Nov 2022	Wind Dir	SW
D9	16 Nov 2022	Animal Life	
D9	16 Nov 2022	Floatables	Foam
D9	16 Nov 2022	Water Color	Green
D9	16 Nov 2022	Current Direction	N
D9	16 Nov 2022	Water Temp (C)	16.2
D9	16 Nov 2022	Wave Height Low (ft)	2
D9	16 Nov 2022	High Tide (ft)	3.82
D9	16 Nov 2022	High Tide Time	504
D9	16 Nov 2022	Low Tide (ft)	3.15
D9	16 Nov 2022	Low Tide Time	944
D9	16 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Algae; Person/Walker/Jogger-8
D9	21 Nov 2022	Arrive Time	936
D9	21 Nov 2022	Weather	Sunny
D9	21 Nov 2022	Wind Speed (kts)	0.3
D9	21 Nov 2022	Wind Dir	W
D9	21 Nov 2022	Animal Life	
D9	21 Nov 2022	Floatables	Foam
D9	21 Nov 2022	Water Color	Green
D9	21 Nov 2022	Current Direction	N
D9	21 Nov 2022	Water Temp (C)	17.5
D9	21 Nov 2022	Wave Height Low (ft)	2
D9	21 Nov 2022	High Tide (ft)	5.84
D9	21 Nov 2022	High Tide Time	639
D9	21 Nov 2022	Low Tide (ft)	0.98
D9	21 Nov 2022	Low Tide Time	24
D9	21 Nov 2022	Comments	none
D9	30 Nov 2022	Arrive Time	915
D9	30 Nov 2022	Weather	Cloudy
D9	30 Nov 2022	Wind Speed (kts)	1.3
D9	30 Nov 2022	Wind Dir	N
D9	30 Nov 2022	Animal Life	
D9	30 Nov 2022	Floatables	None
D9	30 Nov 2022	Water Color	Green
D9	30 Nov 2022	Current Direction	S
D9	30 Nov 2022	Water Temp (C)	14.4
D9	30 Nov 2022	Wave Height Low (ft)	2
D9	30 Nov 2022	High Tide (ft)	4.14
D9	30 Nov 2022	High Tide Time	340
D9	30 Nov 2022	Low Tide (ft)	2.65
D9	30 Nov 2022	Low Tide Time	858
D9	30 Nov 2022	Comments	Water clear; Trash-1; Algae; Person/Walker/Jogger-2
D10	02 Nov 2022	Arrive Time	730
D10	02 Nov 2022	Weather	Moderate rain
D10	02 Nov 2022	Wind Speed (kts)	7.7
D10	02 Nov 2022	Wind Dir	S
D10	02 Nov 2022	Animal Life	Seagull-12
D10	02 Nov 2022	Floatables	Foam
D10	02 Nov 2022	Water Color	Green
D10	02 Nov 2022	Current Direction	N
D10	02 Nov 2022	Water Temp (C)	19

Station	Date	Parameter	Value
D10	02 Nov 2022	Wave Height Low (ft)	4
D10	02 Nov 2022	High Tide (ft)	4.36
D10	02 Nov 2022	High Tide Time	619
D10	02 Nov 2022	Low Tide (ft)	2.48
D10	02 Nov 2022	Low Tide Time	1141
D10	02 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-2; Kelp; Seagrass; Algae; Person/Walker/Jogger-2
D10	09 Nov 2022	Arrive Time	1022
D10	09 Nov 2022	Weather	Cloudy
D10	09 Nov 2022	Wind Speed (kts)	8.9
D10	09 Nov 2022	Wind Dir	NW
D10	09 Nov 2022	Animal Life	
D10	09 Nov 2022	Floating Objects	Foam
D10	09 Nov 2022	Water Color	Green
D10	09 Nov 2022	Current Direction	S
D10	09 Nov 2022	Water Temp (C)	17.4
D10	09 Nov 2022	Wave Height Low (ft)	4
D10	09 Nov 2022	High Tide (ft)	6.11
D10	09 Nov 2022	High Tide Time	836
D10	09 Nov 2022	Low Tide (ft)	1.7
D10	09 Nov 2022	Low Tide Time	229
D10	09 Nov 2022	Comments	Water turbid; Boogie boarder/Swimmer-1; Surfer/Paddle boarder-3; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-5
D10	10 Nov 2022	Arrive Time	1158
D10	10 Nov 2022	Weather	Sunny
D10	10 Nov 2022	Wind Speed (kts)	8.3
D10	10 Nov 2022	Wind Dir	W
D10	10 Nov 2022	Animal Life	Bird-4; Dog-1; Seagull-7
D10	10 Nov 2022	Floating Objects	None
D10	10 Nov 2022	Water Color	Brown
D10	10 Nov 2022	Current Direction	S
D10	10 Nov 2022	Water Temp (C)	17
D10	10 Nov 2022	Wave Height Low (ft)	4
D10	10 Nov 2022	High Tide (ft)	5.91
D10	10 Nov 2022	High Tide Time	903
D10	10 Nov 2022	Low Tide (ft)	2.09
D10	10 Nov 2022	Low Tide Time	254
D10	10 Nov 2022	Comments	Water turbid; Boogie boarder/Swimmer-4; Surfer/Paddle boarder-19; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-22
D10	16 Nov 2022	Arrive Time	1007
D10	16 Nov 2022	Weather	Sunny
D10	16 Nov 2022	Wind Speed (kts)	2.9
D10	16 Nov 2022	Wind Dir	W
D10	16 Nov 2022	Animal Life	Seagull-4
D10	16 Nov 2022	Floating Objects	None
D10	16 Nov 2022	Water Color	Green
D10	16 Nov 2022	Current Direction	N
D10	16 Nov 2022	Water Temp (C)	17.1
D10	16 Nov 2022	Wave Height Low (ft)	3
D10	16 Nov 2022	High Tide (ft)	3.82
D10	16 Nov 2022	High Tide Time	504
D10	16 Nov 2022	Low Tide (ft)	3.15
D10	16 Nov 2022	Low Tide Time	944
D10	16 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-16; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-11

Station	Date	Parameter	Value
D10	21 Nov 2022	Arrive Time	955
D10	21 Nov 2022	Weather	Sunny
D10	21 Nov 2022	Wind Speed (kts)	2.3
D10	21 Nov 2022	Wind Dir	NW
D10	21 Nov 2022	Animal Life	Bird-1
D10	21 Nov 2022	Floatables	None
D10	21 Nov 2022	Water Color	Green
D10	21 Nov 2022	Current Direction	N
D10	21 Nov 2022	Water Temp (C)	18.9
D10	21 Nov 2022	Wave Height Low (ft)	3
D10	21 Nov 2022	High Tide (ft)	5.84
D10	21 Nov 2022	High Tide Time	639
D10	21 Nov 2022	Low Tide (ft)	0.98
D10	21 Nov 2022	Low Tide Time	24
D10	21 Nov 2022	Comments	Water turbid; Boogie boarder/Swimmer-1; Surfer/Paddle boarder-37; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-17
D10	30 Nov 2022	Arrive Time	900
D10	30 Nov 2022	Weather	Cloudy
D10	30 Nov 2022	Wind Speed (kts)	1.9
D10	30 Nov 2022	Wind Dir	SE
D10	30 Nov 2022	Animal Life	
D10	30 Nov 2022	Floatables	None
D10	30 Nov 2022	Water Color	Green
D10	30 Nov 2022	Current Direction	S
D10	30 Nov 2022	Water Temp (C)	14.5
D10	30 Nov 2022	Wave Height Low (ft)	5
D10	30 Nov 2022	High Tide (ft)	4.14
D10	30 Nov 2022	High Tide Time	340
D10	30 Nov 2022	Low Tide (ft)	2.65
D10	30 Nov 2022	Low Tide Time	858
D10	30 Nov 2022	Comments	Water clear; Boogie boarder/Swimmer-3; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-1
D11	02 Nov 2022	Arrive Time	720
D11	02 Nov 2022	Weather	Moderate rain
D11	02 Nov 2022	Wind Speed (kts)	5.6
D11	02 Nov 2022	Wind Dir	S
D11	02 Nov 2022	Animal Life	Bird-3
D11	02 Nov 2022	Floatables	Foam
D11	02 Nov 2022	Water Color	Green
D11	02 Nov 2022	Current Direction	N
D11	02 Nov 2022	Water Temp (C)	18.8
D11	02 Nov 2022	Wave Height Low (ft)	4
D11	02 Nov 2022	High Tide (ft)	4.36
D11	02 Nov 2022	High Tide Time	619
D11	02 Nov 2022	Low Tide (ft)	2.48
D11	02 Nov 2022	Low Tide Time	1141
D11	02 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-7; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-1
D11	09 Nov 2022	Arrive Time	1113
D11	09 Nov 2022	Weather	Partly cloudy
D11	09 Nov 2022	Wind Speed (kts)	8.3
D11	09 Nov 2022	Wind Dir	W
D11	09 Nov 2022	Animal Life	
D11	09 Nov 2022	Floatables	Foam
D11	09 Nov 2022	Water Color	Green
D11	09 Nov 2022	Current Direction	S
D11	09 Nov 2022	Water Temp (C)	18.9

Station	Date	Parameter	Value
D11	09 Nov 2022	Wave Height Low (ft)	3
D11	09 Nov 2022	High Tide (ft)	6.11
D11	09 Nov 2022	High Tide Time	836
D11	09 Nov 2022	Low Tide (ft)	1.7
D11	09 Nov 2022	Low Tide Time	229
D11	09 Nov 2022	Comments	Water turbid; Trash-1; Kelp; Algae; Seagrass; Person/Walker/Jogger-6
D11	10 Nov 2022	Arrive Time	1145
D11	10 Nov 2022	Weather	Sunny
D11	10 Nov 2022	Wind Speed (kts)	6.8
D11	10 Nov 2022	Wind Dir	NW
D11	10 Nov 2022	Animal Life	
D11	10 Nov 2022	Floatables	None
D11	10 Nov 2022	Water Color	Green
D11	10 Nov 2022	Current Direction	S
D11	10 Nov 2022	Water Temp (C)	17.8
D11	10 Nov 2022	Wave Height Low (ft)	4
D11	10 Nov 2022	High Tide (ft)	5.91
D11	10 Nov 2022	High Tide Time	903
D11	10 Nov 2022	Low Tide (ft)	2.09
D11	10 Nov 2022	Low Tide Time	254
D11	10 Nov 2022	Comments	Water clear; Surfer/Paddle boarder-9; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-12
D11	16 Nov 2022	Arrive Time	946
D11	16 Nov 2022	Weather	Sunny
D11	16 Nov 2022	Wind Speed (kts)	2.3
D11	16 Nov 2022	Wind Dir	NW
D11	16 Nov 2022	Animal Life	Bird-3
D11	16 Nov 2022	Floatables	None
D11	16 Nov 2022	Water Color	Green
D11	16 Nov 2022	Current Direction	N
D11	16 Nov 2022	Water Temp (C)	17.8
D11	16 Nov 2022	Wave Height Low (ft)	3
D11	16 Nov 2022	High Tide (ft)	3.82
D11	16 Nov 2022	High Tide Time	504
D11	16 Nov 2022	Low Tide (ft)	3.15
D11	16 Nov 2022	Low Tide Time	944
D11	16 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-25; Trash-1; Kelp; Algae; Person/Walker/Jogger-5
D11	21 Nov 2022	Arrive Time	1009
D11	21 Nov 2022	Weather	Sunny
D11	21 Nov 2022	Wind Speed (kts)	2.1
D11	21 Nov 2022	Wind Dir	NW
D11	21 Nov 2022	Animal Life	Dog-1
D11	21 Nov 2022	Floatables	None
D11	21 Nov 2022	Water Color	Green
D11	21 Nov 2022	Current Direction	N
D11	21 Nov 2022	Water Temp (C)	19.3
D11	21 Nov 2022	Wave Height Low (ft)	2
D11	21 Nov 2022	High Tide (ft)	5.84
D11	21 Nov 2022	High Tide Time	639
D11	21 Nov 2022	Low Tide (ft)	0.98
D11	21 Nov 2022	Low Tide Time	24
D11	21 Nov 2022	Comments	Water clear; Surfer/Paddle boarder-39; Trash-1; Seagrass; Algae; Person/Walker/Jogger-11
D11	30 Nov 2022	Arrive Time	847
D11	30 Nov 2022	Weather	Cloudy

Station	Date	Parameter	Value
D11	30 Nov 2022	Wind Speed (kts)	3.1
D11	30 Nov 2022	Wind Dir	SE
D11	30 Nov 2022	Animal Life	Bird-1
D11	30 Nov 2022	Floatables	None
D11	30 Nov 2022	Water Color	Green
D11	30 Nov 2022	Current Direction	S
D11	30 Nov 2022	Water Temp (C)	15.4
D11	30 Nov 2022	Wave Height Low (ft)	4
D11	30 Nov 2022	High Tide (ft)	4.14
D11	30 Nov 2022	High Tide Time	340
D11	30 Nov 2022	Low Tide (ft)	2.65
D11	30 Nov 2022	Low Tide Time	858
D11	30 Nov 2022	Comments	Water clear; Boogie boarder/Swimmer-13; Trash-1; Algae; Kelp; Person/Walker/Jogger-2
D12	02 Nov 2022	Arrive Time	658
D12	02 Nov 2022	Weather	Moderate rain
D12	02 Nov 2022	Wind Speed (kts)	7.7
D12	02 Nov 2022	Wind Dir	S
D12	02 Nov 2022	Animal Life	Seagull-10
D12	02 Nov 2022	Floatables	None
D12	02 Nov 2022	Water Color	Green
D12	02 Nov 2022	Current Direction	N
D12	02 Nov 2022	Water Temp (C)	19.5
D12	02 Nov 2022	Wave Height Low (ft)	3
D12	02 Nov 2022	High Tide (ft)	4.36
D12	02 Nov 2022	High Tide Time	619
D12	02 Nov 2022	Low Tide (ft)	2.48
D12	02 Nov 2022	Low Tide Time	1141
D12	02 Nov 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-2
D12	09 Nov 2022	Arrive Time	1137
D12	09 Nov 2022	Weather	Partly cloudy
D12	09 Nov 2022	Wind Speed (kts)	10.3
D12	09 Nov 2022	Wind Dir	W
D12	09 Nov 2022	Animal Life	Seagull-18
D12	09 Nov 2022	Floatables	None
D12	09 Nov 2022	Water Color	Green
D12	09 Nov 2022	Current Direction	S
D12	09 Nov 2022	Water Temp (C)	19.9
D12	09 Nov 2022	Wave Height Low (ft)	3
D12	09 Nov 2022	High Tide (ft)	6.11
D12	09 Nov 2022	High Tide Time	836
D12	09 Nov 2022	Low Tide (ft)	1.7
D12	09 Nov 2022	Low Tide Time	229
D12	09 Nov 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
D12	16 Nov 2022	Arrive Time	920
D12	16 Nov 2022	Weather	Sunny
D12	16 Nov 2022	Wind Speed (kts)	0.9
D12	16 Nov 2022	Wind Dir	SW
D12	16 Nov 2022	Animal Life	Bird-1; Seagull-1
D12	16 Nov 2022	Floatables	None
D12	16 Nov 2022	Water Color	Green
D12	16 Nov 2022	Current Direction	N
D12	16 Nov 2022	Water Temp (C)	16.5
D12	16 Nov 2022	Wave Height Low (ft)	4
D12	16 Nov 2022	High Tide (ft)	3.82
D12	16 Nov 2022	High Tide Time	504

Station	Date	Parameter	Value
D12	16 Nov 2022	Low Tide (ft)	3.15
D12	16 Nov 2022	Low Tide Time	944
D12	16 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-10
D12	21 Nov 2022	Arrive Time	1046
D12	21 Nov 2022	Weather	Sunny
D12	21 Nov 2022	Wind Speed (kts)	4.8
D12	21 Nov 2022	Wind Dir	NW
D12	21 Nov 2022	Animal Life	Seagull-1
D12	21 Nov 2022	Floatables	None
D12	21 Nov 2022	Water Color	Green
D12	21 Nov 2022	Current Direction	S
D12	21 Nov 2022	Water Temp (C)	19.5
D12	21 Nov 2022	Wave Height Low (ft)	3
D12	21 Nov 2022	High Tide (ft)	5.84
D12	21 Nov 2022	High Tide Time	639
D12	21 Nov 2022	Low Tide (ft)	0.98
D12	21 Nov 2022	Low Tide Time	24
D12	21 Nov 2022	Comments	Water clear; Boogie boarder/Swimmer-3; Surfer/Paddle boarder-2; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-41
D12	30 Nov 2022	Arrive Time	820
D12	30 Nov 2022	Weather	Cloudy
D12	30 Nov 2022	Wind Speed (kts)	2.1
D12	30 Nov 2022	Wind Dir	SE
D12	30 Nov 2022	Animal Life	Bird-2
D12	30 Nov 2022	Floatables	None
D12	30 Nov 2022	Water Color	Green
D12	30 Nov 2022	Current Direction	S
D12	30 Nov 2022	Water Temp (C)	14
D12	30 Nov 2022	Wave Height Low (ft)	4
D12	30 Nov 2022	High Tide (ft)	4.14
D12	30 Nov 2022	High Tide Time	340
D12	30 Nov 2022	Low Tide (ft)	2.65
D12	30 Nov 2022	Low Tide Time	858
D12	30 Nov 2022	Comments	Water clear; Boogie boarder/Swimmer-2; Surfer/Paddle boarder-2; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-1

# Kelp Stations



**Table 3.1**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the PLOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >1,000 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Nov 2022	4	5	3	2	4	5	3	4
02 Nov 2022	5	6	4	2	3	6	3	4
03 Nov 2022	5	6	4	2	3	6	3	4
04 Nov 2022	5	6	4	2	3	6	3	4
05 Nov 2022	5	6	4	2	3	6	3	4
06 Nov 2022	5	6	4	2	3	6	3	4
07 Nov 2022	6	5	3	2	3	5	3	4
08 Nov 2022	6	5	3	2	3	5	3	4
09 Nov 2022	6	5	3	2	3	5	3	4
10 Nov 2022	8	4	4	2	3	4	3	3
11 Nov 2022	8	4	4	2	3	4	3	3
12 Nov 2022	8	4	4	2	3	4	3	3
13 Nov 2022	8	4	4	2	3	4	3	3
14 Nov 2022	6	6	4	3	3	3	3	3
15 Nov 2022	6	6	4	3	3	3	3	3
16 Nov 2022	6	6	4	3	3	3	3	3
17 Nov 2022	8	8	5	3	3	3	3	3
18 Nov 2022	8	8	5	3	3	3	3	3
19 Nov 2022	8	8	5	3	3	3	3	3
20 Nov 2022	8	8	5	3	3	3	3	3
21 Nov 2022	6	7	4	3	4	3	2	3
22 Nov 2022	6	7	4	3	4	3	2	3
23 Nov 2022	6	7	4	3	4	3	2	3
24 Nov 2022	5	7	4	3	3	2	2	3
25 Nov 2022	5	7	4	3	3	2	2	3
26 Nov 2022	5	7	4	3	3	2	2	3
27 Nov 2022	5	7	4	3	3	2	2	3
28 Nov 2022	5	7	4	3	3	2	2	3
29 Nov 2022	5	7	4	3	3	2	2	3
30 Nov 2022	5	7	4	3	3	2	2	3

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

\* Geometric mean calculated using n<5

**Table 3.3**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Nov 2022	2	2	2	2	2	2	2	3
02 Nov 2022	2	2	2	2	2	2	2	2
03 Nov 2022	2	2	2	2	2	2	2	2
04 Nov 2022	2	2	2	2	2	2	2	2
05 Nov 2022	2	2	2	2	2	2	2	2
06 Nov 2022	2	2	2	2	2	2	2	2
07 Nov 2022	2	2	2	2	2	2	3	2
08 Nov 2022	2	2	2	2	2	2	3	2
09 Nov 2022	2	2	2	2	2	2	3	2
10 Nov 2022	2	2	2	2	2	2	3	2
11 Nov 2022	2	2	2	2	2	2	3	2
12 Nov 2022	2	2	2	2	2	2	3	2
13 Nov 2022	2	2	2	2	2	2	3	2
14 Nov 2022	2	2	2	2	2	2	3	2
15 Nov 2022	2	2	2	2	2	2	3	2
16 Nov 2022	2	2	2	2	2	2	3	2
17 Nov 2022	2	2	2	2	2	2	3	2
18 Nov 2022	2	2	2	2	2	2	3	2
19 Nov 2022	2	2	2	2	2	2	3	2
20 Nov 2022	2	2	2	2	2	2	3	2
21 Nov 2022	2	2	2	2	2	2	3	2
22 Nov 2022	2	2	2	2	2	2	3	2
23 Nov 2022	2	2	2	2	2	2	3	2
24 Nov 2022	2	2	2	2	2	2	3	2
25 Nov 2022	2	2	2	2	2	2	3	2
26 Nov 2022	2	2	2	2	2	2	3	2
27 Nov 2022	2	2	2	2	2	2	3	2
28 Nov 2022	2	2	2	2	2	2	3	2
29 Nov 2022	2	2	2	2	2	2	3	2
30 Nov 2022	2	2	2	2	2	2	3	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
01 Nov 2022	IC							
07 Nov 2022	IC							
14 Nov 2022	IC							
21 Nov 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
01 Nov 2022	IC							
07 Nov 2022	IC							
14 Nov 2022	IC							
21 Nov 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
01 Nov 2022	IC							
07 Nov 2022	IC							
14 Nov 2022	IC							
21 Nov 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
01 Nov 2022	IC							
07 Nov 2022	IC							
14 Nov 2022	IC							
21 Nov 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	01 Nov 2022	813	1	<2	<2	<2	1.0	18.3	83.62	8.1	33.50	8.1
A1	01 Nov 2022	813	12	4e	2e	<2	0.5	15.6	86.60	6.6	33.41	8.0
A1	01 Nov 2022	813	18	22e	4e	<2	0.2	14.6	86.55	6.4	33.40	8.0
A1	07 Nov 2022	802	1	<2	<2	<2	1.0	16.5	82.84	7.6	33.53	8.1
A1	07 Nov 2022	802	12	2e	<2	8e	1.0	15.8	86.45	6.9	33.50	8.0
A1	07 Nov 2022	802	18	30e	10e	<2	0.3	13.2	88.04	5.7	33.42	8.0
A1	14 Nov 2022	814	1	2e	<2	<2	1.0	16.1	87.88	7.1	33.49	8.0
A1	14 Nov 2022	814	12	<2	<2	<2	1.0	15.9	88.90	6.9	33.48	8.0
A1	14 Nov 2022	814	18	2e	<2	<2	1.0	14.6	90.38	6.1	33.43	8.0
A1	21 Nov 2022	745	1	<2	<2	<2	1.0	16.0	87.80	7.8	33.51	8.1
A1	21 Nov 2022	745	12	<2	<2	<2	1.0	15.0	87.50	6.4	33.46	8.0
A1	21 Nov 2022	745	18	2e	<2	<2	1.0	13.8	88.39	5.7	33.42	8.0
A6	01 Nov 2022	836	1	<2	<2	<2	1.0	18.8	80.89	8.6	33.55	8.2
A6	01 Nov 2022	836	12	4e	<2	<2	0.5	17.2	81.29	7.2	33.47	8.2
A6	01 Nov 2022	836	18	28e	4e	2e	0.1	14.5	88.75	6.0	33.39	8.0
A6	07 Nov 2022	829	1	<2	<2	2e	1.0	16.7	80.56	8.0	33.54	8.1
A6	07 Nov 2022	829	12	<2	<2	<2	1.0	16.3	83.57	7.3	33.52	8.1
A6	07 Nov 2022	829	18	2e	4e	<2	2.0	14.6	88.42	6.2	33.45	8.0
A6	14 Nov 2022	836	1	2e	<2	<2	1.0	16.4	83.96	7.3	33.51	8.1
A6	14 Nov 2022	836	12	28e	4e	<2	0.1	14.6	90.33	6.0	33.45	8.0
A6	14 Nov 2022	836	18	40e	14e	2e	0.3	13.6	90.31	5.7	33.43	8.0
A6	21 Nov 2022	804	1	<2	<2	<2	1.0	15.7	82.63	7.8	33.51	8.1
A6	21 Nov 2022	804	12	<2	<2	<2	1.0	15.7	83.26	7.6	33.50	8.1
A6	21 Nov 2022	804	18	8e	6e	<2	0.8	14.6	88.14	6.3	33.45	8.0
A7	01 Nov 2022	826	1	<2	2e	<2	1.0	18.5	76.90	8.7	33.51	8.2
A7	01 Nov 2022	826	12	4e	6e	<2	1.5	16.8	83.29	6.6	33.46	8.1
A7	01 Nov 2022	826	18	12e	<2	2e	0.2	14.8	87.73	6.4	33.38	8.0
A7	07 Nov 2022	816	1	<2	<2	<2	1.0	16.7	81.13	7.8	33.54	8.1
A7	07 Nov 2022	816	12	<2	<2	2e	1.0	16.2	85.94	7.3	33.51	8.1
A7	07 Nov 2022	816	18	<2	<2	<2	1.0	15.6	86.88	6.8	33.48	8.1
A7	14 Nov 2022	824	1	<2	<2	2e	1.0	16.3	84.31	7.3	33.50	8.1
A7	14 Nov 2022	824	12	2e	<2	<2	1.0	16.2	85.90	7.1	33.49	8.1
A7	14 Nov 2022	824	18	10e	<2	<2	0.2	15.2	90.21	6.2	33.46	8.0
A7	21 Nov 2022	754	1	<2	<2	<2	1.0	15.9	83.36	7.4	33.51	8.1
A7	21 Nov 2022	754	12	2e	2e	<2	1.0	15.4	85.44	7.0	33.48	8.1
A7	21 Nov 2022	754	18	6e	<2	<2	0.3	13.9	88.65	5.8	33.41	7.9
C4	01 Nov 2022	956	1	<2	<2	<2	1.0	18.2	82.68	8.1	33.49	8.2
C4	01 Nov 2022	956	3	<2	<2	<2	1.0	18.2	82.57	8.0	33.49	8.2
C4	01 Nov 2022	956	9	<2	<2	<2	1.0	17.6	77.98	6.9	33.47	8.1

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
C4	07 Nov 2022	945	1	<2	<2	2e	1.0	16.6	80.04	7.2	33.51	8.1
C4	07 Nov 2022	945	3	<2	<2	<2	1.0	16.5	80.12	7.2	33.51	8.1
C4	07 Nov 2022	945	9	<2	<2	2e	1.0	16.0	83.42	6.7	33.50	8.1
C4	14 Nov 2022	925	1	<2	<2	<2	1.0	16.4	79.26	7.0	33.52	8.1
C4	14 Nov 2022	925	3	<20	<2	<2	0.1	16.4	79.14	7.0	33.52	8.1
C4	14 Nov 2022	925	9	2e	<2	<2	1.0	15.6	75.72	5.9	33.49	8.0
C4	21 Nov 2022	920	1	<2	2e	<2	1.0	15.9	86.65	8.0	33.51	8.1
C4	21 Nov 2022	920	3	<2	<2	<2	1.0	15.9	86.56	7.9	33.51	8.1
C4	21 Nov 2022	920	9	<2	<2	<2	1.0	15.4	82.74	6.3	33.48	8.0
C5	01 Nov 2022	942	1	<2	<2	<2	1.0	18.7	58.97	8.4	33.51	8.2
C5	01 Nov 2022	942	3	<2	<2	<2	1.0	18.6	61.80	8.3	33.51	8.2
C5	01 Nov 2022	942	9	<2	<2	<2	1.0	18.1	70.76	7.1	33.49	8.1
C5	07 Nov 2022	934	1	<2	<2	2e	1.0	16.7	76.21	7.8	33.52	8.1
C5	07 Nov 2022	934	3	<2	<2	<2	1.0	16.6	75.99	7.7	33.52	8.1
C5	07 Nov 2022	934	9	2e	<2	<2	1.0	15.2	84.28	5.8	33.47	8.0
C5	14 Nov 2022	1016	1	<2	2e	<2	1.0	16.6	82.39	7.2	33.53	8.1
C5	14 Nov 2022	1016	3	2e	<2	<2	1.0	16.5	81.39	7.1	33.53	8.1
C5	14 Nov 2022	1016	9	<2	<2	<2	1.0	16.2	70.13	6.3	33.52	8.1
C5	21 Nov 2022	908	1	<2	<2	<2	1.0	16.0	78.89	6.6	33.52	8.0
C5	21 Nov 2022	908	3	2e	<2	<2	1.0	15.9	77.92	6.5	33.53	8.0
C5	21 Nov 2022	908	9	<20	<2	<2	0.1	15.2	58.11	5.7	33.48	8.0
C6	01 Nov 2022	927	1	<2	<2	<2	1.0	18.8	71.73	8.2	33.53	8.2
C6	01 Nov 2022	927	3	<2	<2	<2	1.0	18.8	71.77	8.5	33.52	8.2
C6	01 Nov 2022	927	9	<2	<2	<2	1.0	17.2	71.79	5.6	33.48	8.0
C6	07 Nov 2022	923	1	<2	<2	<2	1.0	16.7	75.51	7.5	33.53	8.1
C6	07 Nov 2022	923	3	<2	<2	<2	1.0	16.6	74.28	7.3	33.53	8.1
C6	07 Nov 2022	923	9	<2	2e	8e	1.0	15.2	80.55	5.6	33.48	8.0
C6	14 Nov 2022	1006	1	<2	<2	<2	1.0	16.5	80.25	7.1	33.51	8.1
C6	14 Nov 2022	1006	3	<2	<2	<2	1.0	16.4	79.90	7.1	33.51	8.1
C6	14 Nov 2022	1006	9	2e	<2	<2	1.0	15.9	80.26	6.0	33.48	8.1
C6	21 Nov 2022	853	1	<2	<2	<2	1.0	15.8	81.69	7.5	33.51	8.1
C6	21 Nov 2022	853	3	2e	<2	<2	1.0	15.8	80.71	7.4	33.51	8.1
C6	21 Nov 2022	853	9	<2	<2	<2	1.0	15.4	85.73	6.2	33.48	8.0
C7	01 Nov 2022	852	1	<2	<2	<2	1.0	19.0	84.81	8.0	33.57	8.2
C7	01 Nov 2022	852	12	<2	2e	<2	1.0	17.8	82.60	7.2	33.49	8.1
C7	01 Nov 2022	852	18	2e	2e	<2	1.0	15.7	82.56	5.7	33.45	8.0
C7	07 Nov 2022	848	1	<2	2e	2e	1.0	16.9	69.69	8.7	33.54	8.2
C7	07 Nov 2022	848	12	4e	2e	14e	0.5	14.9	87.74	6.3	33.45	8.0
C7	07 Nov 2022	848	18	4e	<2	<2	0.5	13.8	88.68	5.8	33.41	8.0
C7	14 Nov 2022	934	1	2e	<2	<2	1.0	16.7	86.77	7.4	33.51	8.2
C7	14 Nov 2022	934	12	<2	<2	<2	1.0	16.0	88.43	6.9	33.48	8.1
C7	14 Nov 2022	934	18	4e	2e	<2	0.5	14.6	88.40	6.2	33.44	8.0
C7	21 Nov 2022	819	1	<2	<2	<2	1.0	15.9	84.56	7.7	33.52	8.1
C7	21 Nov 2022	819	12	<2	<2	<2	1.0	15.7	85.65	7.7	33.50	8.1
C7	21 Nov 2022	819	18	<2	<2	<2	1.0	14.8	88.10	6.0	33.45	8.0

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
C8	01 Nov 2022	906	1	<2	<2	<2	1.0	18.9	86.35	8.1	33.56	8.2
C8	01 Nov 2022	906	12	<2	<2	<2	1.0	16.1	86.31	6.2	33.41	8.1
C8	01 Nov 2022	906	18	10e	<2	<2	0.2	14.2	89.10	6.3	33.36	8.0
C8	07 Nov 2022	858	1	2e	<2	2e	1.0	16.7	82.00	8.0	33.54	8.2
C8	07 Nov 2022	858	12	2e	<2	2e	1.0	14.3	88.37	6.2	33.41	8.0
C8	07 Nov 2022	858	18	<2	<2	<2	1.0	13.9	87.11	5.6	33.42	8.0
C8	14 Nov 2022	947	1	2e	<2	<2	1.0	16.6	84.03	7.8	33.48	8.2
C8	14 Nov 2022	947	12	8e	<2	<2	0.2	15.8	88.73	6.9	33.47	8.1
C8	14 Nov 2022	947	18	<2	<2	<2	1.0	15.2	88.31	6.5	33.45	8.1
C8	21 Nov 2022	832	1	<2	<2	2e	1.0	15.8	79.34	7.5	33.52	8.1
C8	21 Nov 2022	832	12	<2	<2	<2	1.0	15.5	85.49	7.2	33.48	8.1
C8	21 Nov 2022	832	18	<2	<2	<2	1.0	14.7	87.07	6.2	33.45	8.0

ns = not sampled

ND = no data

**Comments**

Station	Date	Depth	Parameter	Comments
I26	14 Nov 2022			Applied 25mL instead 50mL because submitted sample was not enough volume

**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	01 Nov 2022	Depth (m)	18
A1	01 Nov 2022	Arrive Time	813
A1	01 Nov 2022	Depart Time	821
A1	01 Nov 2022	Air Temp (C)	17.4
A1	01 Nov 2022	Weather	Partly Cloudy
A1	01 Nov 2022	Visibility (mi)	5
A1	01 Nov 2022	Wind Speed (kts)	6.6
A1	01 Nov 2022	Wind Dir	SE
A1	01 Nov 2022	Water Color	Blueish-Green
A1	01 Nov 2022	Wave Ht Low (ft)	3
A1	01 Nov 2022	Wave Period (sec)	10
A1	01 Nov 2022	Sea State	Light Chop
A1	01 Nov 2022	High Tide (ft)	4.82
A1	01 Nov 2022	High Tide Time	2248
A1	01 Nov 2022	Low Tide (ft)	-0.1
A1	01 Nov 2022	Low Tide Time	624
A1	01 Nov 2022	Comments	none
A1	07 Nov 2022	Depth (m)	17
A1	07 Nov 2022	Arrive Time	802
A1	07 Nov 2022	Depart Time	806
A1	07 Nov 2022	Air Temp (C)	15.5
A1	07 Nov 2022	Weather	Drizzle
A1	07 Nov 2022	Visibility (mi)	4
A1	07 Nov 2022	Wind Speed (kts)	5.9
A1	07 Nov 2022	Wind Dir	E
A1	07 Nov 2022	Water Color	Blue
A1	07 Nov 2022	Wave Ht Low (ft)	4.3
A1	07 Nov 2022	Wave Period (sec)	14
A1	07 Nov 2022	Sea State	Light Chop
A1	07 Nov 2022	High Tide (ft)	6.09
A1	07 Nov 2022	High Tide Time	1542
A1	07 Nov 2022	Low Tide (ft)	-0.31
A1	07 Nov 2022	Low Tide Time	2230
A1	07 Nov 2022	Comments	none
A1	14 Nov 2022	Depth (m)	20
A1	14 Nov 2022	Arrive Time	814
A1	14 Nov 2022	Depart Time	819
A1	14 Nov 2022	Air Temp (C)	
A1	14 Nov 2022	Weather	Clear
A1	14 Nov 2022	Visibility (mi)	10
A1	14 Nov 2022	Wind Speed (kts)	
A1	14 Nov 2022	Wind Dir	
A1	14 Nov 2022	Water Color	Blueish-Green
A1	14 Nov 2022	Wave Ht Low (ft)	4
A1	14 Nov 2022	Wave Period (sec)	20
A1	14 Nov 2022	Sea State	Light Chop
A1	14 Nov 2022	High Tide (ft)	4.49
A1	14 Nov 2022	High Tide Time	1924
A1	14 Nov 2022	Low Tide (ft)	0.68
A1	14 Nov 2022	Low Tide Time	406
A1	14 Nov 2022	Comments	Kelp; Lobster Floats
A1	21 Nov 2022	Depth (m)	17
A1	21 Nov 2022	Arrive Time	745

Station	Date	Parameter	Value
A1	21 Nov 2022	Depart Time	748
A1	21 Nov 2022	Air Temp (C)	16.7
A1	21 Nov 2022	Weather	Partly Cloudy
A1	21 Nov 2022	Visibility (mi)	8
A1	21 Nov 2022	Wind Speed (kts)	4.5
A1	21 Nov 2022	Wind Dir	NW
A1	21 Nov 2022	Water Color	Green
A1	21 Nov 2022	Wave Ht Low (ft)	3
A1	21 Nov 2022	Wave Period (sec)	18
A1	21 Nov 2022	Sea State	Calm
A1	21 Nov 2022	High Tide (ft)	5.74
A1	21 Nov 2022	High Tide Time	1442
A1	21 Nov 2022	Low Tide (ft)	0.01
A1	21 Nov 2022	Low Tide Time	2130
A1	21 Nov 2022	Comments	Kelp; Kelp Debris
A6	01 Nov 2022	Depth (m)	13
A6	01 Nov 2022	Arrive Time	836
A6	01 Nov 2022	Depart Time	852
A6	01 Nov 2022	Air Temp (C)	17.6
A6	01 Nov 2022	Weather	Partly Cloudy
A6	01 Nov 2022	Visibility (mi)	5
A6	01 Nov 2022	Wind Speed (kts)	4.9
A6	01 Nov 2022	Wind Dir	SE
A6	01 Nov 2022	Water Color	Greenish-Brown
A6	01 Nov 2022	Wave Ht Low (ft)	3
A6	01 Nov 2022	Wave Period (sec)	10
A6	01 Nov 2022	Sea State	Light Chop
A6	01 Nov 2022	High Tide (ft)	4.82
A6	01 Nov 2022	High Tide Time	2248
A6	01 Nov 2022	Low Tide (ft)	-0.1
A6	01 Nov 2022	Low Tide Time	624
A6	01 Nov 2022	Comments	none
A6	07 Nov 2022	Depth (m)	19
A6	07 Nov 2022	Arrive Time	829
A6	07 Nov 2022	Depart Time	836
A6	07 Nov 2022	Air Temp (C)	15.6
A6	07 Nov 2022	Weather	Overcast
A6	07 Nov 2022	Visibility (mi)	8
A6	07 Nov 2022	Wind Speed (kts)	3.2
A6	07 Nov 2022	Wind Dir	E
A6	07 Nov 2022	Water Color	Brownish-Green
A6	07 Nov 2022	Wave Ht Low (ft)	4.3
A6	07 Nov 2022	Wave Period (sec)	14
A6	07 Nov 2022	Sea State	Light Chop
A6	07 Nov 2022	High Tide (ft)	6.09
A6	07 Nov 2022	High Tide Time	1542
A6	07 Nov 2022	Low Tide (ft)	-0.31
A6	07 Nov 2022	Low Tide Time	2230
A6	07 Nov 2022	Comments	none
A6	14 Nov 2022	Depth (m)	21
A6	14 Nov 2022	Arrive Time	836
A6	14 Nov 2022	Depart Time	846
A6	14 Nov 2022	Air Temp (C)	
A6	14 Nov 2022	Weather	Clear
A6	14 Nov 2022	Visibility (mi)	10
A6	14 Nov 2022	Wind Speed (kts)	
A6	14 Nov 2022	Wind Dir	
A6	14 Nov 2022	Water Color	Blueish-Green

Station	Date	Parameter	Value
A6	14 Nov 2022	Wave Ht Low (ft)	4
A6	14 Nov 2022	Wave Period (sec)	20
A6	14 Nov 2022	Sea State	Light Chop
A6	14 Nov 2022	High Tide (ft)	4.49
A6	14 Nov 2022	High Tide Time	1924
A6	14 Nov 2022	Low Tide (ft)	0.68
A6	14 Nov 2022	Low Tide Time	406
A6	14 Nov 2022	Comments	Kelp Debris; Lobster Floats
A6	21 Nov 2022	Depth (m)	20
A6	21 Nov 2022	Arrive Time	804
A6	21 Nov 2022	Depart Time	810
A6	21 Nov 2022	Air Temp (C)	15.6
A6	21 Nov 2022	Weather	Partly Cloudy
A6	21 Nov 2022	Visibility (mi)	8
A6	21 Nov 2022	Wind Speed (kts)	13.2
A6	21 Nov 2022	Wind Dir	N
A6	21 Nov 2022	Water Color	Green
A6	21 Nov 2022	Wave Ht Low (ft)	3
A6	21 Nov 2022	Wave Period (sec)	18
A6	21 Nov 2022	Sea State	Calm
A6	21 Nov 2022	High Tide (ft)	5.74
A6	21 Nov 2022	High Tide Time	1442
A6	21 Nov 2022	Low Tide (ft)	0.01
A6	21 Nov 2022	Low Tide Time	2130
A6	21 Nov 2022	Comments	Kelp; Kelp Debris
A7	01 Nov 2022	Depth (m)	19
A7	01 Nov 2022	Arrive Time	826
A7	01 Nov 2022	Depart Time	830
A7	01 Nov 2022	Air Temp (C)	17.3
A7	01 Nov 2022	Weather	Partly Cloudy
A7	01 Nov 2022	Visibility (mi)	5
A7	01 Nov 2022	Wind Speed (kts)	7.9
A7	01 Nov 2022	Wind Dir	SE
A7	01 Nov 2022	Water Color	Greenish-Brown
A7	01 Nov 2022	Wave Ht Low (ft)	3
A7	01 Nov 2022	Wave Period (sec)	10
A7	01 Nov 2022	Sea State	Light Chop
A7	01 Nov 2022	High Tide (ft)	4.82
A7	01 Nov 2022	High Tide Time	2248
A7	01 Nov 2022	Low Tide (ft)	-0.1
A7	01 Nov 2022	Low Tide Time	624
A7	01 Nov 2022	Comments	none
A7	07 Nov 2022	Depth (m)	16
A7	07 Nov 2022	Arrive Time	816
A7	07 Nov 2022	Depart Time	821
A7	07 Nov 2022	Air Temp (C)	15.4
A7	07 Nov 2022	Weather	Drizzle
A7	07 Nov 2022	Visibility (mi)	4
A7	07 Nov 2022	Wind Speed (kts)	4.4
A7	07 Nov 2022	Wind Dir	S
A7	07 Nov 2022	Water Color	Blue
A7	07 Nov 2022	Wave Ht Low (ft)	4.3
A7	07 Nov 2022	Wave Period (sec)	14
A7	07 Nov 2022	Sea State	Light Chop
A7	07 Nov 2022	High Tide (ft)	6.09
A7	07 Nov 2022	High Tide Time	1542
A7	07 Nov 2022	Low Tide (ft)	-0.31
A7	07 Nov 2022	Low Tide Time	2230

Station	Date	Parameter	Value
A7	07 Nov 2022	Comments	none
A7	14 Nov 2022	Depth (m)	19
A7	14 Nov 2022	Arrive Time	824
A7	14 Nov 2022	Depart Time	831
A7	14 Nov 2022	Air Temp (C)	
A7	14 Nov 2022	Weather	Clear
A7	14 Nov 2022	Visibility (mi)	10
A7	14 Nov 2022	Wind Speed (kts)	
A7	14 Nov 2022	Wind Dir	
A7	14 Nov 2022	Water Color	Blueish-Green
A7	14 Nov 2022	Wave Ht Low (ft)	4
A7	14 Nov 2022	Wave Period (sec)	20
A7	14 Nov 2022	Sea State	Light Chop
A7	14 Nov 2022	High Tide (ft)	4.49
A7	14 Nov 2022	High Tide Time	1924
A7	14 Nov 2022	Low Tide (ft)	0.68
A7	14 Nov 2022	Low Tide Time	406
A7	14 Nov 2022	Comments	Lobster Floats
A7	21 Nov 2022	Depth (m)	18
A7	21 Nov 2022	Arrive Time	754
A7	21 Nov 2022	Depart Time	758
A7	21 Nov 2022	Air Temp (C)	16.6
A7	21 Nov 2022	Weather	Partly Cloudy
A7	21 Nov 2022	Visibility (mi)	8
A7	21 Nov 2022	Wind Speed (kts)	1.3
A7	21 Nov 2022	Wind Dir	N
A7	21 Nov 2022	Water Color	Green
A7	21 Nov 2022	Wave Ht Low (ft)	3
A7	21 Nov 2022	Wave Period (sec)	18
A7	21 Nov 2022	Sea State	Calm
A7	21 Nov 2022	High Tide (ft)	5.74
A7	21 Nov 2022	High Tide Time	1442
A7	21 Nov 2022	Low Tide (ft)	0.01
A7	21 Nov 2022	Low Tide Time	2130
A7	21 Nov 2022	Comments	Kelp; Kelp Debris
C4	01 Nov 2022	Depth (m)	12
C4	01 Nov 2022	Arrive Time	956
C4	01 Nov 2022	Depart Time	959
C4	01 Nov 2022	Air Temp (C)	18.4
C4	01 Nov 2022	Weather	Partly Cloudy
C4	01 Nov 2022	Visibility (mi)	5
C4	01 Nov 2022	Wind Speed (kts)	7.9
C4	01 Nov 2022	Wind Dir	SW
C4	01 Nov 2022	Water Color	Greenish-Blue
C4	01 Nov 2022	Wave Ht Low (ft)	3
C4	01 Nov 2022	Wave Period (sec)	10
C4	01 Nov 2022	Sea State	Light Chop
C4	01 Nov 2022	High Tide (ft)	4.82
C4	01 Nov 2022	High Tide Time	2248
C4	01 Nov 2022	Low Tide (ft)	-0.1
C4	01 Nov 2022	Low Tide Time	624
C4	01 Nov 2022	Comments	none
C4	07 Nov 2022	Depth (m)	12
C4	07 Nov 2022	Arrive Time	945
C4	07 Nov 2022	Depart Time	951
C4	07 Nov 2022	Air Temp (C)	16.4
C4	07 Nov 2022	Weather	Overcast

Station	Date	Parameter	Value
C4	07 Nov 2022	Visibility (mi)	8
C4	07 Nov 2022	Wind Speed (kts)	13.1
C4	07 Nov 2022	Wind Dir	S
C4	07 Nov 2022	Water Color	Greenish-Blue
C4	07 Nov 2022	Wave Ht Low (ft)	4.3
C4	07 Nov 2022	Wave Period (sec)	14
C4	07 Nov 2022	Sea State	Calm
C4	07 Nov 2022	High Tide (ft)	6.09
C4	07 Nov 2022	High Tide Time	1542
C4	07 Nov 2022	Low Tide (ft)	-0.31
C4	07 Nov 2022	Low Tide Time	2230
C4	07 Nov 2022	Comments	none
C4	14 Nov 2022	Depth (m)	10
C4	14 Nov 2022	Arrive Time	1025
C4	14 Nov 2022	Depart Time	1030
C4	14 Nov 2022	Air Temp (C)	
C4	14 Nov 2022	Weather	Clear
C4	14 Nov 2022	Visibility (mi)	10
C4	14 Nov 2022	Wind Speed (kts)	
C4	14 Nov 2022	Wind Dir	
C4	14 Nov 2022	Water Color	Green
C4	14 Nov 2022	Wave Ht Low (ft)	4
C4	14 Nov 2022	Wave Period (sec)	20
C4	14 Nov 2022	Sea State	Light Chop
C4	14 Nov 2022	High Tide (ft)	4.49
C4	14 Nov 2022	High Tide Time	1924
C4	14 Nov 2022	Low Tide (ft)	0.68
C4	14 Nov 2022	Low Tide Time	406
C4	14 Nov 2022	Comments	Kelp Debris; Lobster Floats
C4	21 Nov 2022	Depth (m)	12
C4	21 Nov 2022	Arrive Time	920
C4	21 Nov 2022	Depart Time	922
C4	21 Nov 2022	Air Temp (C)	19
C4	21 Nov 2022	Weather	Partly Cloudy
C4	21 Nov 2022	Visibility (mi)	8
C4	21 Nov 2022	Wind Speed (kts)	0
C4	21 Nov 2022	Wind Dir	N
C4	21 Nov 2022	Water Color	Green
C4	21 Nov 2022	Wave Ht Low (ft)	3
C4	21 Nov 2022	Wave Period (sec)	18
C4	21 Nov 2022	Sea State	Calm
C4	21 Nov 2022	High Tide (ft)	5.74
C4	21 Nov 2022	High Tide Time	1442
C4	21 Nov 2022	Low Tide (ft)	0.01
C4	21 Nov 2022	Low Tide Time	2130
C4	21 Nov 2022	Comments	Kelp
C5	01 Nov 2022	Depth (m)	10
C5	01 Nov 2022	Arrive Time	942
C5	01 Nov 2022	Depart Time	948
C5	01 Nov 2022	Air Temp (C)	18.3
C5	01 Nov 2022	Weather	Partly Cloudy
C5	01 Nov 2022	Visibility (mi)	5
C5	01 Nov 2022	Wind Speed (kts)	12.2
C5	01 Nov 2022	Wind Dir	S
C5	01 Nov 2022	Water Color	Brown
C5	01 Nov 2022	Wave Ht Low (ft)	3
C5	01 Nov 2022	Wave Period (sec)	10
C5	01 Nov 2022	Sea State	Light Chop

Station	Date	Parameter	Value
C5	01 Nov 2022	High Tide (ft)	4.82
C5	01 Nov 2022	High Tide Time	2248
C5	01 Nov 2022	Low Tide (ft)	-0.1
C5	01 Nov 2022	Low Tide Time	624
C5	01 Nov 2022	Comments	none
C5	07 Nov 2022	Depth (m)	12
C5	07 Nov 2022	Arrive Time	934
C5	07 Nov 2022	Depart Time	938
C5	07 Nov 2022	Air Temp (C)	16
C5	07 Nov 2022	Weather	Overcast
C5	07 Nov 2022	Visibility (mi)	8
C5	07 Nov 2022	Wind Speed (kts)	12.5
C5	07 Nov 2022	Wind Dir	S
C5	07 Nov 2022	Water Color	Greenish-Blue
C5	07 Nov 2022	Wave Ht Low (ft)	4.3
C5	07 Nov 2022	Wave Period (sec)	14
C5	07 Nov 2022	Sea State	Light Chop
C5	07 Nov 2022	High Tide (ft)	6.09
C5	07 Nov 2022	High Tide Time	1542
C5	07 Nov 2022	Low Tide (ft)	-0.31
C5	07 Nov 2022	Low Tide Time	2230
C5	07 Nov 2022	Comments	none
C5	14 Nov 2022	Depth (m)	10
C5	14 Nov 2022	Arrive Time	1016
C5	14 Nov 2022	Depart Time	1020
C5	14 Nov 2022	Air Temp (C)	
C5	14 Nov 2022	Weather	Clear
C5	14 Nov 2022	Visibility (mi)	10
C5	14 Nov 2022	Wind Speed (kts)	
C5	14 Nov 2022	Wind Dir	
C5	14 Nov 2022	Water Color	Green
C5	14 Nov 2022	Wave Ht Low (ft)	4
C5	14 Nov 2022	Wave Period (sec)	20
C5	14 Nov 2022	Sea State	Light Chop
C5	14 Nov 2022	High Tide (ft)	4.49
C5	14 Nov 2022	High Tide Time	1924
C5	14 Nov 2022	Low Tide (ft)	0.68
C5	14 Nov 2022	Low Tide Time	406
C5	14 Nov 2022	Comments	Kelp Debris; Lobster Floats
C5	21 Nov 2022	Depth (m)	11
C5	21 Nov 2022	Arrive Time	908
C5	21 Nov 2022	Depart Time	912
C5	21 Nov 2022	Air Temp (C)	18.8
C5	21 Nov 2022	Weather	Partly Cloudy
C5	21 Nov 2022	Visibility (mi)	8
C5	21 Nov 2022	Wind Speed (kts)	1.6
C5	21 Nov 2022	Wind Dir	NE
C5	21 Nov 2022	Water Color	Green
C5	21 Nov 2022	Wave Ht Low (ft)	3
C5	21 Nov 2022	Wave Period (sec)	18
C5	21 Nov 2022	Sea State	Calm
C5	21 Nov 2022	High Tide (ft)	5.74
C5	21 Nov 2022	High Tide Time	1442
C5	21 Nov 2022	Low Tide (ft)	0.01
C5	21 Nov 2022	Low Tide Time	2130
C5	21 Nov 2022	Comments	Kelp; Kelp Debris
C6	01 Nov 2022	Depth (m)	8

Station	Date	Parameter	Value
C6	01 Nov 2022	Arrive Time	927
C6	01 Nov 2022	Depart Time	935
C6	01 Nov 2022	Air Temp (C)	18.4
C6	01 Nov 2022	Weather	Partly Cloudy
C6	01 Nov 2022	Visibility (mi)	5
C6	01 Nov 2022	Wind Speed (kts)	13.8
C6	01 Nov 2022	Wind Dir	S
C6	01 Nov 2022	Water Color	Green
C6	01 Nov 2022	Wave Ht Low (ft)	3
C6	01 Nov 2022	Wave Period (sec)	10
C6	01 Nov 2022	Sea State	Light Chop
C6	01 Nov 2022	High Tide (ft)	4.82
C6	01 Nov 2022	High Tide Time	2248
C6	01 Nov 2022	Low Tide (ft)	-0.1
C6	01 Nov 2022	Low Tide Time	624
C6	01 Nov 2022	Comments	none
C6	07 Nov 2022	Depth (m)	10
C6	07 Nov 2022	Arrive Time	923
C6	07 Nov 2022	Depart Time	926
C6	07 Nov 2022	Air Temp (C)	16.1
C6	07 Nov 2022	Weather	Overcast
C6	07 Nov 2022	Visibility (mi)	8
C6	07 Nov 2022	Wind Speed (kts)	8.7
C6	07 Nov 2022	Wind Dir	SE
C6	07 Nov 2022	Water Color	Greenish-Blue
C6	07 Nov 2022	Wave Ht Low (ft)	4.3
C6	07 Nov 2022	Wave Period (sec)	14
C6	07 Nov 2022	Sea State	Light Chop
C6	07 Nov 2022	High Tide (ft)	6.09
C6	07 Nov 2022	High Tide Time	1542
C6	07 Nov 2022	Low Tide (ft)	-0.31
C6	07 Nov 2022	Low Tide Time	2230
C6	07 Nov 2022	Comments	none
C6	14 Nov 2022	Depth (m)	9
C6	14 Nov 2022	Arrive Time	1006
C6	14 Nov 2022	Depart Time	1010
C6	14 Nov 2022	Air Temp (C)	
C6	14 Nov 2022	Weather	Clear
C6	14 Nov 2022	Visibility (mi)	10
C6	14 Nov 2022	Wind Speed (kts)	
C6	14 Nov 2022	Wind Dir	
C6	14 Nov 2022	Water Color	Green
C6	14 Nov 2022	Wave Ht Low (ft)	4
C6	14 Nov 2022	Wave Period (sec)	20
C6	14 Nov 2022	Sea State	Light Chop
C6	14 Nov 2022	High Tide (ft)	4.49
C6	14 Nov 2022	High Tide Time	1924
C6	14 Nov 2022	Low Tide (ft)	0.68
C6	14 Nov 2022	Low Tide Time	406
C6	14 Nov 2022	Comments	Kelp; Lobster Floats
C6	21 Nov 2022	Depth (m)	9
C6	21 Nov 2022	Arrive Time	853
C6	21 Nov 2022	Depart Time	858
C6	21 Nov 2022	Air Temp (C)	16.6
C6	21 Nov 2022	Weather	Partly Cloudy
C6	21 Nov 2022	Visibility (mi)	8
C6	21 Nov 2022	Wind Speed (kts)	4.3
C6	21 Nov 2022	Wind Dir	SW

Station	Date	Parameter	Value
C6	21 Nov 2022	Water Color	Green
C6	21 Nov 2022	Wave Ht Low (ft)	3
C6	21 Nov 2022	Wave Period (sec)	18
C6	21 Nov 2022	Sea State	Calm
C6	21 Nov 2022	High Tide (ft)	5.74
C6	21 Nov 2022	High Tide Time	1442
C6	21 Nov 2022	Low Tide (ft)	0.01
C6	21 Nov 2022	Low Tide Time	2130
C6	21 Nov 2022	Comments	Kelp
C7	01 Nov 2022	Depth (m)	17
C7	01 Nov 2022	Arrive Time	852
C7	01 Nov 2022	Depart Time	859
C7	01 Nov 2022	Air Temp (C)	17.9
C7	01 Nov 2022	Weather	Partly Cloudy
C7	01 Nov 2022	Visibility (mi)	5
C7	01 Nov 2022	Wind Speed (kts)	2.3
C7	01 Nov 2022	Wind Dir	E
C7	01 Nov 2022	Water Color	Green
C7	01 Nov 2022	Wave Ht Low (ft)	3
C7	01 Nov 2022	Wave Period (sec)	10
C7	01 Nov 2022	Sea State	Light Chop
C7	01 Nov 2022	High Tide (ft)	4.82
C7	01 Nov 2022	High Tide Time	2248
C7	01 Nov 2022	Low Tide (ft)	-0.1
C7	01 Nov 2022	Low Tide Time	624
C7	01 Nov 2022	Comments	none
C7	07 Nov 2022	Depth (m)	18
C7	07 Nov 2022	Arrive Time	848
C7	07 Nov 2022	Depart Time	850
C7	07 Nov 2022	Air Temp (C)	16.3
C7	07 Nov 2022	Weather	Overcast
C7	07 Nov 2022	Visibility (mi)	8
C7	07 Nov 2022	Wind Speed (kts)	7.2
C7	07 Nov 2022	Wind Dir	SE
C7	07 Nov 2022	Water Color	Brown
C7	07 Nov 2022	Wave Ht Low (ft)	4.3
C7	07 Nov 2022	Wave Period (sec)	14
C7	07 Nov 2022	Sea State	Light Chop
C7	07 Nov 2022	High Tide (ft)	6.09
C7	07 Nov 2022	High Tide Time	1542
C7	07 Nov 2022	Low Tide (ft)	-0.31
C7	07 Nov 2022	Low Tide Time	2230
C7	07 Nov 2022	Comments	none
C7	14 Nov 2022	Depth (m)	18
C7	14 Nov 2022	Arrive Time	934
C7	14 Nov 2022	Depart Time	941
C7	14 Nov 2022	Air Temp (C)	
C7	14 Nov 2022	Weather	Clear
C7	14 Nov 2022	Visibility (mi)	10
C7	14 Nov 2022	Wind Speed (kts)	
C7	14 Nov 2022	Wind Dir	
C7	14 Nov 2022	Water Color	Blueish-Green
C7	14 Nov 2022	Wave Ht Low (ft)	4
C7	14 Nov 2022	Wave Period (sec)	20
C7	14 Nov 2022	Sea State	Light Chop
C7	14 Nov 2022	High Tide (ft)	4.49
C7	14 Nov 2022	High Tide Time	1924
C7	14 Nov 2022	Low Tide (ft)	0.68

Station	Date	Parameter	Value
C7	14 Nov 2022	Low Tide Time	406
C7	14 Nov 2022	Comments	Kelp; Lobster Floats
C7	21 Nov 2022	Depth (m)	18
C7	21 Nov 2022	Arrive Time	819
C7	21 Nov 2022	Depart Time	825
C7	21 Nov 2022	Air Temp (C)	15.4
C7	21 Nov 2022	Weather	Partly Cloudy
C7	21 Nov 2022	Visibility (mi)	8
C7	21 Nov 2022	Wind Speed (kts)	8.4
C7	21 Nov 2022	Wind Dir	NE
C7	21 Nov 2022	Water Color	Green
C7	21 Nov 2022	Wave Ht Low (ft)	3
C7	21 Nov 2022	Wave Period (sec)	18
C7	21 Nov 2022	Sea State	Calm
C7	21 Nov 2022	High Tide (ft)	5.74
C7	21 Nov 2022	High Tide Time	1442
C7	21 Nov 2022	Low Tide (ft)	0.01
C7	21 Nov 2022	Low Tide Time	2130
C7	21 Nov 2022	Comments	Kelp
C8	01 Nov 2022	Depth (m)	19
C8	01 Nov 2022	Arrive Time	906
C8	01 Nov 2022	Depart Time	911
C8	01 Nov 2022	Air Temp (C)	18.1
C8	01 Nov 2022	Weather	Partly Cloudy
C8	01 Nov 2022	Visibility (mi)	5
C8	01 Nov 2022	Wind Speed (kts)	3
C8	01 Nov 2022	Wind Dir	E
C8	01 Nov 2022	Water Color	Green
C8	01 Nov 2022	Wave Ht Low (ft)	3
C8	01 Nov 2022	Wave Period (sec)	10
C8	01 Nov 2022	Sea State	Light Chop
C8	01 Nov 2022	High Tide (ft)	4.82
C8	01 Nov 2022	High Tide Time	2248
C8	01 Nov 2022	Low Tide (ft)	-0.1
C8	01 Nov 2022	Low Tide Time	624
C8	01 Nov 2022	Comments	none
C8	07 Nov 2022	Depth (m)	20
C8	07 Nov 2022	Arrive Time	858
C8	07 Nov 2022	Depart Time	903
C8	07 Nov 2022	Air Temp (C)	16.3
C8	07 Nov 2022	Weather	Overcast
C8	07 Nov 2022	Visibility (mi)	8
C8	07 Nov 2022	Wind Speed (kts)	2.9
C8	07 Nov 2022	Wind Dir	NE
C8	07 Nov 2022	Water Color	Brown
C8	07 Nov 2022	Wave Ht Low (ft)	4.3
C8	07 Nov 2022	Wave Period (sec)	14
C8	07 Nov 2022	Sea State	Light Chop
C8	07 Nov 2022	High Tide (ft)	6.09
C8	07 Nov 2022	High Tide Time	1542
C8	07 Nov 2022	Low Tide (ft)	-0.31
C8	07 Nov 2022	Low Tide Time	2230
C8	07 Nov 2022	Comments	none
C8	14 Nov 2022	Depth (m)	18
C8	14 Nov 2022	Arrive Time	947
C8	14 Nov 2022	Depart Time	952
C8	14 Nov 2022	Air Temp (C)	

Station	Date	Parameter	Value
C8	14 Nov 2022	Weather	Clear
C8	14 Nov 2022	Visibility (mi)	10
C8	14 Nov 2022	Wind Speed (kts)	
C8	14 Nov 2022	Wind Dir	
C8	14 Nov 2022	Water Color	Blueish-Green
C8	14 Nov 2022	Wave Ht Low (ft)	4
C8	14 Nov 2022	Wave Period (sec)	20
C8	14 Nov 2022	Sea State	Light Chop
C8	14 Nov 2022	High Tide (ft)	4.49
C8	14 Nov 2022	High Tide Time	1924
C8	14 Nov 2022	Low Tide (ft)	0.68
C8	14 Nov 2022	Low Tide Time	406
C8	14 Nov 2022	Comments	Some serial data feeds are not coming thru; Depth Wind Temp; Lobster Floats
C8	21 Nov 2022	Depth (m)	20
C8	21 Nov 2022	Arrive Time	832
C8	21 Nov 2022	Depart Time	840
C8	21 Nov 2022	Air Temp (C)	15
C8	21 Nov 2022	Weather	Partly Cloudy
C8	21 Nov 2022	Visibility (mi)	8
C8	21 Nov 2022	Wind Speed (kts)	8.7
C8	21 Nov 2022	Wind Dir	NE
C8	21 Nov 2022	Water Color	Brownish-Green
C8	21 Nov 2022	Wave Ht Low (ft)	3
C8	21 Nov 2022	Wave Period (sec)	18
C8	21 Nov 2022	Sea State	Calm
C8	21 Nov 2022	High Tide (ft)	5.74
C8	21 Nov 2022	High Tide Time	1442
C8	21 Nov 2022	Low Tide (ft)	0.01
C8	21 Nov 2022	Low Tide Time	2130
C8	21 Nov 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	01 Nov 2022	1	18.30	83.62	8.1	33.50	8.1	24.0	2.12
A1	01 Nov 2022	2	18.25	83.75	8.1	33.50	8.1	24.1	2.17
A1	01 Nov 2022	3	18.24	83.82	8.0	33.50	8.1	24.1	2.26
A1	01 Nov 2022	4	18.24	83.54	8.1	33.50	8.1	24.1	2.45
A1	01 Nov 2022	5	18.31	83.27	8.0	33.50	8.1	24.0	2.55
A1	01 Nov 2022	6	17.83	83.23	7.7	33.50	8.1	24.2	2.53
A1	01 Nov 2022	7	17.34	83.99	7.4	33.47	8.1	24.3	2.24
A1	01 Nov 2022	8	16.60	85.34	7.0	33.46	8.1	24.4	1.91
A1	01 Nov 2022	9	16.14	85.97	6.8	33.44	8.1	24.5	1.63
A1	01 Nov 2022	10	15.68	86.27	6.7	33.43	8.0	24.6	1.41
A1	01 Nov 2022	11	15.45	86.36	6.6	33.42	8.0	24.7	1.21
A1	01 Nov 2022	12	15.55	86.60	6.6	33.41	8.0	24.6	1.12
A1	01 Nov 2022	13	15.28	86.78	6.5	33.41	8.0	24.7	1.11
A1	01 Nov 2022	14	15.07	86.76	6.5	33.41	8.0	24.7	1.04
A1	01 Nov 2022	15	14.82	87.07	6.4	33.41	8.0	24.8	0.96
A1	01 Nov 2022	16	14.64	86.99	6.4	33.41	8.0	24.8	0.88
A1	01 Nov 2022	17	14.55	86.80	6.4	33.40	8.0	24.8	0.87
A1	01 Nov 2022	18	14.55	86.55	6.4	33.40	8.0	24.8	0.84
A1	01 Nov 2022	19	14.57	86.16	6.4	33.41	8.0	24.8	0.81
A1	07 Nov 2022	1	16.54	82.84	7.6	33.53	8.1	24.5	2.37
A1	07 Nov 2022	2	16.52	81.10	7.6	33.53	8.1	24.5	2.47
A1	07 Nov 2022	3	16.52	82.80	7.6	33.53	8.1	24.5	2.73
A1	07 Nov 2022	4	16.51	82.82	7.6	33.53	8.1	24.5	3.12
A1	07 Nov 2022	5	16.49	82.63	7.6	33.53	8.1	24.5	3.49
A1	07 Nov 2022	6	16.49	82.44	7.5	33.53	8.1	24.5	3.75
A1	07 Nov 2022	7	16.40	82.38	7.4	33.52	8.1	24.5	3.67
A1	07 Nov 2022	8	16.23	82.88	7.2	33.52	8.1	24.6	2.94
A1	07 Nov 2022	9	16.11	84.19	7.2	33.52	8.1	24.6	2.29
A1	07 Nov 2022	10	16.05	84.90	7.1	33.51	8.1	24.6	1.91
A1	07 Nov 2022	11	15.88	86.04	7.0	33.50	8.1	24.6	1.63
A1	07 Nov 2022	12	15.79	86.45	6.9	33.50	8.0	24.6	1.43
A1	07 Nov 2022	13	15.59	86.58	6.8	33.49	8.0	24.7	1.28
A1	07 Nov 2022	14	15.20	86.99	6.5	33.47	8.0	24.8	1.06
A1	07 Nov 2022	15	14.78	87.68	6.3	33.47	8.0	24.8	0.89
A1	07 Nov 2022	16	14.50	88.24	6.1	33.45	8.0	24.9	0.71
A1	07 Nov 2022	17	14.15	88.05	5.8	33.44	8.0	24.9	0.62
A1	07 Nov 2022	18	13.25	88.04	5.7	33.42	8.0	25.1	0.58
A1	07 Nov 2022	19	12.68	88.88	5.8	33.42	7.9	25.2	0.54
A1	07 Nov 2022	20	12.72	90.05	5.9	33.41	7.9	25.2	0.54
A1	14 Nov 2022	1	16.09	87.88	7.1	33.49	8.0	24.6	1.41
A1	14 Nov 2022	2	16.09	87.24	7.1	33.49	8.0	24.6	1.44
A1	14 Nov 2022	3	16.09	87.66	7.1	33.49	8.0	24.6	1.49
A1	14 Nov 2022	4	16.09	87.63	7.1	33.48	8.0	24.6	1.53
A1	14 Nov 2022	5	16.10	87.75	7.1	33.49	8.0	24.6	1.78
A1	14 Nov 2022	6	16.08	87.77	7.1	33.48	8.0	24.6	1.82
A1	14 Nov 2022	7	16.05	87.73	7.0	33.48	8.0	24.6	1.97
A1	14 Nov 2022	8	16.04	88.05	7.0	33.48	8.0	24.6	1.85
A1	14 Nov 2022	9	16.02	88.27	7.0	33.48	8.0	24.6	1.80
A1	14 Nov 2022	10	16.00	88.55	7.0	33.48	8.0	24.6	1.59
A1	14 Nov 2022	11	15.94	88.66	7.0	33.48	8.0	24.6	1.62
A1	14 Nov 2022	12	15.89	88.90	6.9	33.48	8.0	24.6	1.48
A1	14 Nov 2022	13	15.68	89.28	6.8	33.47	8.0	24.6	1.31
A1	14 Nov 2022	14	15.43	89.75	6.6	33.46	8.0	24.7	1.03
A1	14 Nov 2022	15	15.19	90.41	6.4	33.45	8.0	24.7	0.87

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A1	14 Nov 2022	16	15.04	91.03	6.4	33.44	8.0	24.8	0.70
A1	14 Nov 2022	17	14.83	91.15	6.3	33.43	8.0	24.8	0.65
A1	14 Nov 2022	18	14.58	90.38	6.1	33.43	8.0	24.9	0.62
A1	21 Nov 2022	1	15.98	87.80	7.8	33.51	8.1	24.6	1.55
A1	21 Nov 2022	2	15.98	87.61	7.8	33.51	8.1	24.6	1.74
A1	21 Nov 2022	3	15.97	87.90	7.8	33.51	8.1	24.6	1.77
A1	21 Nov 2022	4	15.97	87.89	7.7	33.51	8.1	24.6	1.90
A1	21 Nov 2022	5	15.85	87.35	7.6	33.50	8.1	24.6	1.97
A1	21 Nov 2022	6	15.80	87.25	7.5	33.49	8.1	24.6	2.10
A1	21 Nov 2022	7	15.47	87.15	7.1	33.48	8.1	24.7	2.08
A1	21 Nov 2022	8	15.56	87.04	6.9	33.47	8.1	24.7	1.83
A1	21 Nov 2022	9	15.19	87.16	6.7	33.47	8.0	24.8	1.54
A1	21 Nov 2022	10	15.28	87.19	6.6	33.47	8.0	24.7	1.48
A1	21 Nov 2022	11	15.04	87.52	6.5	33.46	8.0	24.8	1.33
A1	21 Nov 2022	12	15.02	87.50	6.4	33.46	8.0	24.8	1.30
A1	21 Nov 2022	13	14.92	87.34	6.4	33.45	8.0	24.8	1.29
A1	21 Nov 2022	14	14.90	87.45	6.5	33.45	8.0	24.8	1.43
A1	21 Nov 2022	15	14.73	87.55	6.4	33.44	8.0	24.8	1.55
A1	21 Nov 2022	16	14.54	87.63	6.3	33.44	8.0	24.9	1.61
A1	21 Nov 2022	17	14.26	88.03	6.1	33.42	8.0	24.9	1.46
A1	21 Nov 2022	18	13.81	88.39	5.7	33.42	8.0	25.0	1.17
A1	21 Nov 2022	19	13.21	87.72	5.5	33.44	7.9	25.1	0.87
A6	01 Nov 2022	1	18.83	80.89	8.6	33.55	8.2	24.0	3.98
A6	01 Nov 2022	2	18.82	80.97	8.6	33.54	8.2	24.0	4.18
A6	01 Nov 2022	3	18.78	80.70	8.7	33.54	8.2	24.0	5.13
A6	01 Nov 2022	4	18.74	79.45	8.6	33.53	8.2	24.0	5.73
A6	01 Nov 2022	5	18.64	78.31	8.6	33.52	8.2	24.0	5.51
A6	01 Nov 2022	6	18.47	78.72	8.4	33.52	8.2	24.0	4.95
A6	01 Nov 2022	7	18.35	79.90	8.3	33.51	8.2	24.0	4.51
A6	01 Nov 2022	8	18.26	80.47	8.2	33.51	8.2	24.1	4.40
A6	01 Nov 2022	9	18.25	80.78	8.2	33.51	8.2	24.1	4.27
A6	01 Nov 2022	10	18.25	80.44	8.1	33.50	8.2	24.1	4.15
A6	01 Nov 2022	11	18.08	80.38	7.7	33.49	8.2	24.1	3.98
A6	01 Nov 2022	12	17.21	81.29	7.2	33.47	8.2	24.3	3.39
A6	01 Nov 2022	13	16.56	83.11	6.6	33.44	8.1	24.4	2.45
A6	01 Nov 2022	14	15.42	85.64	6.2	33.42	8.1	24.7	1.73
A6	01 Nov 2022	15	14.85	87.47	6.0	33.39	8.0	24.8	1.35
A6	01 Nov 2022	16	14.62	87.90	6.0	33.38	8.0	24.8	1.19
A6	01 Nov 2022	17	14.52	88.50	6.0	33.38	8.0	24.8	0.96
A6	01 Nov 2022	18	14.48	88.75	6.0	33.39	8.0	24.8	0.91
A6	07 Nov 2022	1	16.72	80.56	8.0	33.54	8.1	24.5	3.75
A6	07 Nov 2022	2	16.70	80.14	8.0	33.54	8.1	24.5	4.37
A6	07 Nov 2022	3	16.68	79.46	8.0	33.54	8.1	24.5	5.99
A6	07 Nov 2022	4	16.68	78.54	8.0	33.54	8.1	24.5	7.27
A6	07 Nov 2022	5	16.65	77.82	7.9	33.54	8.1	24.5	7.97
A6	07 Nov 2022	6	16.63	77.77	7.9	33.54	8.1	24.5	7.85
A6	07 Nov 2022	7	16.60	78.16	7.8	33.54	8.1	24.5	7.29
A6	07 Nov 2022	8	16.54	78.68	7.7	33.53	8.1	24.5	6.48
A6	07 Nov 2022	9	16.47	79.97	7.6	33.53	8.1	24.5	5.22
A6	07 Nov 2022	10	16.42	81.92	7.5	33.53	8.1	24.5	4.15
A6	07 Nov 2022	11	16.40	82.77	7.5	33.53	8.1	24.5	3.54
A6	07 Nov 2022	12	16.32	83.57	7.3	33.52	8.1	24.5	3.07
A6	07 Nov 2022	13	16.03	85.07	7.1	33.51	8.1	24.6	2.18
A6	07 Nov 2022	14	15.84	86.70	6.9	33.50	8.1	24.6	1.65
A6	07 Nov 2022	15	15.53	87.36	6.7	33.49	8.1	24.7	1.29
A6	07 Nov 2022	16	15.28	87.80	6.5	33.48	8.1	24.7	1.09
A6	07 Nov 2022	17	15.13	88.12	6.3	33.47	8.0	24.8	0.99
A6	07 Nov 2022	18	14.55	88.42	6.2	33.45	8.0	24.9	0.89

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A6	07 Nov 2022	19	14.04	88.94	6.0	33.43	8.0	25.0	0.82
A6	07 Nov 2022	20	13.81	89.02	6.0	33.45	8.0	25.0	0.76
A6	14 Nov 2022	1	16.38	83.96	7.3	33.51	8.1	24.5	1.71
A6	14 Nov 2022	2	16.38	84.84	7.4	33.51	8.1	24.5	1.96
A6	14 Nov 2022	3	16.38	85.12	7.4	33.51	8.1	24.5	2.12
A6	14 Nov 2022	4	16.38	85.20	7.3	33.51	8.1	24.5	2.22
A6	14 Nov 2022	5	16.38	85.20	7.3	33.51	8.1	24.5	2.76
A6	14 Nov 2022	6	16.37	85.10	7.2	33.50	8.1	24.5	2.95
A6	14 Nov 2022	7	16.17	85.25	6.9	33.48	8.1	24.5	2.49
A6	14 Nov 2022	8	15.73	87.24	6.7	33.47	8.1	24.6	1.68
A6	14 Nov 2022	9	15.58	89.04	6.5	33.47	8.1	24.7	1.11
A6	14 Nov 2022	10	15.40	90.03	6.4	33.46	8.1	24.7	0.94
A6	14 Nov 2022	11	14.96	90.37	6.2	33.46	8.1	24.8	0.82
A6	14 Nov 2022	12	14.60	90.33	6.0	33.45	8.0	24.9	0.76
A6	14 Nov 2022	13	14.34	90.07	6.0	33.44	8.0	24.9	0.78
A6	14 Nov 2022	14	14.29	90.23	6.0	33.43	8.0	24.9	0.76
A6	14 Nov 2022	15	14.17	90.32	6.0	33.43	8.0	24.9	0.77
A6	14 Nov 2022	16	14.06	90.42	5.9	33.43	8.0	25.0	0.74
A6	14 Nov 2022	17	13.78	90.47	5.8	33.43	8.0	25.0	0.74
A6	14 Nov 2022	18	13.58	90.31	5.7	33.43	8.0	25.1	0.72
A6	14 Nov 2022	19	13.54	90.09	5.7	33.42	8.0	25.1	0.72
A6	14 Nov 2022	20	13.49	90.09	5.7	33.42	8.0	25.1	0.74
A6	14 Nov 2022	21	13.50	90.01	5.7	33.43	8.0	25.1	0.71
A6	21 Nov 2022	1	15.70	82.63	7.8	33.51	8.1	24.7	3.71
A6	21 Nov 2022	2	15.70	82.54	7.8	33.51	8.1	24.7	3.63
A6	21 Nov 2022	3	15.70	82.20	7.7	33.51	8.1	24.7	3.88
A6	21 Nov 2022	4	15.69	82.42	7.7	33.51	8.1	24.7	4.01
A6	21 Nov 2022	5	15.69	82.42	7.7	33.51	8.1	24.7	3.93
A6	21 Nov 2022	6	15.69	82.48	7.7	33.51	8.1	24.7	4.10
A6	21 Nov 2022	7	15.69	82.56	7.7	33.51	8.1	24.7	4.37
A6	21 Nov 2022	8	15.69	82.79	7.6	33.51	8.1	24.7	4.40
A6	21 Nov 2022	9	15.68	82.70	7.6	33.51	8.1	24.7	4.34
A6	21 Nov 2022	10	15.68	82.74	7.6	33.51	8.1	24.7	4.11
A6	21 Nov 2022	11	15.67	82.90	7.6	33.51	8.1	24.7	3.78
A6	21 Nov 2022	12	15.66	83.26	7.6	33.50	8.1	24.7	3.58
A6	21 Nov 2022	13	15.66	83.27	7.6	33.50	8.1	24.7	3.76
A6	21 Nov 2022	14	15.39	83.20	7.2	33.49	8.1	24.7	3.49
A6	21 Nov 2022	15	15.04	85.21	6.8	33.48	8.0	24.8	2.72
A6	21 Nov 2022	16	14.73	87.37	6.5	33.46	8.0	24.8	2.03
A6	21 Nov 2022	17	14.59	88.14	6.3	33.45	8.0	24.9	1.65
A7	01 Nov 2022	1	18.46	76.90	8.7	33.51	8.2	24.0	5.29
A7	01 Nov 2022	2	18.46	76.69	8.6	33.51	8.2	24.0	5.54
A7	01 Nov 2022	3	18.45	76.42	8.5	33.51	8.2	24.0	5.66
A7	01 Nov 2022	4	18.45	77.71	8.6	33.51	8.2	24.0	5.59
A7	01 Nov 2022	5	18.45	77.86	8.5	33.51	8.2	24.0	5.39
A7	01 Nov 2022	6	18.45	78.77	8.4	33.51	8.2	24.0	4.96
A7	01 Nov 2022	7	18.46	80.65	8.3	33.51	8.2	24.0	4.50
A7	01 Nov 2022	8	18.44	82.08	8.3	33.51	8.2	24.0	3.99
A7	01 Nov 2022	9	18.36	82.05	8.0	33.50	8.2	24.0	3.80
A7	01 Nov 2022	10	18.08	82.05	7.5	33.50	8.2	24.1	3.69
A7	01 Nov 2022	11	17.38	82.35	6.9	33.46	8.1	24.2	3.37
A7	01 Nov 2022	12	16.76	83.29	6.6	33.46	8.1	24.4	2.94
A7	01 Nov 2022	13	16.67	84.27	6.4	33.44	8.1	24.4	2.56
A7	01 Nov 2022	14	16.41	84.54	6.3	33.43	8.1	24.4	2.35
A7	01 Nov 2022	15	16.07	84.96	6.0	33.42	8.0	24.5	2.04
A7	01 Nov 2022	16	15.58	85.36	5.9	33.39	8.0	24.6	1.99
A7	01 Nov 2022	17	14.88	85.83	6.3	33.39	8.0	24.8	1.89
A7	01 Nov 2022	18	14.81	87.73	6.4	33.38	8.0	24.8	1.58

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
A7	01 Nov 2022	19	14.68	88.22	6.5	33.39	8.0	24.8	1.42
A7	07 Nov 2022	1	16.67	81.13	7.8	33.54	8.1	24.5	3.58
A7	07 Nov 2022	2	16.65	80.99	7.8	33.54	8.1	24.5	4.15
A7	07 Nov 2022	3	16.63	80.49	7.8	33.54	8.1	24.5	4.74
A7	07 Nov 2022	4	16.61	80.32	7.7	33.54	8.1	24.5	5.24
A7	07 Nov 2022	5	16.59	80.08	7.7	33.53	8.1	24.5	5.41
A7	07 Nov 2022	6	16.49	80.16	7.5	33.53	8.1	24.5	4.84
A7	07 Nov 2022	7	16.34	81.34	7.4	33.52	8.1	24.5	3.66
A7	07 Nov 2022	8	16.20	83.91	7.3	33.52	8.1	24.6	2.86
A7	07 Nov 2022	9	16.23	85.07	7.3	33.51	8.1	24.6	2.29
A7	07 Nov 2022	10	16.20	85.39	7.3	33.51	8.1	24.6	2.16
A7	07 Nov 2022	11	16.16	85.67	7.3	33.51	8.1	24.6	1.89
A7	07 Nov 2022	12	16.19	85.94	7.3	33.51	8.1	24.6	1.80
A7	07 Nov 2022	13	16.18	86.01	7.2	33.51	8.1	24.6	1.75
A7	07 Nov 2022	14	16.08	86.04	7.2	33.51	8.1	24.6	1.73
A7	07 Nov 2022	15	16.13	86.17	7.2	33.51	8.1	24.6	1.65
A7	07 Nov 2022	16	16.08	86.32	7.2	33.51	8.1	24.6	1.62
A7	07 Nov 2022	17	15.98	86.37	7.0	33.51	8.1	24.6	1.50
A7	07 Nov 2022	18	15.65	86.88	6.8	33.48	8.1	24.7	1.37
A7	07 Nov 2022	19	14.84	87.39	6.6	33.47	8.0	24.8	1.15
A7	14 Nov 2022	1	16.31	84.31	7.3	33.50	8.1	24.5	1.91
A7	14 Nov 2022	2	16.29	84.48	7.3	33.50	8.1	24.5	1.90
A7	14 Nov 2022	3	16.29	84.48	7.3	33.50	8.1	24.5	2.09
A7	14 Nov 2022	4	16.26	84.76	7.3	33.50	8.1	24.5	2.18
A7	14 Nov 2022	5	16.26	85.02	7.2	33.50	8.1	24.5	2.28
A7	14 Nov 2022	6	16.25	85.41	7.2	33.50	8.1	24.5	2.21
A7	14 Nov 2022	7	16.25	85.63	7.2	33.50	8.1	24.5	2.35
A7	14 Nov 2022	8	16.24	85.70	7.2	33.50	8.1	24.5	2.40
A7	14 Nov 2022	9	16.24	85.83	7.2	33.50	8.1	24.5	2.33
A7	14 Nov 2022	10	16.23	86.05	7.2	33.49	8.1	24.5	2.30
A7	14 Nov 2022	11	16.22	86.41	7.2	33.49	8.1	24.5	2.23
A7	14 Nov 2022	12	16.18	85.90	7.1	33.49	8.1	24.5	2.07
A7	14 Nov 2022	13	16.17	87.72	7.1	33.49	8.1	24.5	1.79
A7	14 Nov 2022	14	15.93	88.82	6.8	33.48	8.1	24.6	1.51
A7	14 Nov 2022	15	15.88	88.86	6.7	33.48	8.1	24.6	1.09
A7	14 Nov 2022	16	15.66	89.56	6.5	33.47	8.1	24.6	0.94
A7	14 Nov 2022	17	15.37	90.06	6.4	33.47	8.1	24.7	0.80
A7	14 Nov 2022	18	15.21	90.21	6.2	33.46	8.0	24.7	0.74
A7	14 Nov 2022	19	14.52	89.90	6.1	33.45	8.0	24.9	0.64
A7	21 Nov 2022	1	15.87	83.36	7.4	33.51	8.1	24.6	2.76
A7	21 Nov 2022	2	15.88	83.00	7.4	33.52	8.1	24.6	2.89
A7	21 Nov 2022	3	15.87	82.74	7.3	33.51	8.1	24.6	2.99
A7	21 Nov 2022	4	15.87	82.89	7.3	33.51	8.1	24.6	3.08
A7	21 Nov 2022	5	15.87	83.00	7.3	33.52	8.1	24.6	3.13
A7	21 Nov 2022	6	15.87	83.01	7.3	33.51	8.1	24.6	3.23
A7	21 Nov 2022	7	15.87	83.00	7.3	33.51	8.1	24.6	3.27
A7	21 Nov 2022	8	15.87	82.95	7.3	33.51	8.1	24.6	3.19
A7	21 Nov 2022	9	15.86	83.20	7.3	33.51	8.1	24.6	3.09
A7	21 Nov 2022	10	15.81	83.26	7.3	33.51	8.1	24.6	3.09
A7	21 Nov 2022	11	15.67	84.16	7.2	33.50	8.1	24.7	2.72
A7	21 Nov 2022	12	15.39	85.44	7.0	33.48	8.1	24.7	2.56
A7	21 Nov 2022	13	15.11	86.57	6.7	33.47	8.0	24.8	2.23
A7	21 Nov 2022	14	14.84	87.31	6.5	33.45	8.0	24.8	1.86
A7	21 Nov 2022	15	14.69	87.73	6.4	33.44	8.0	24.8	1.96
A7	21 Nov 2022	16	14.30	88.01	6.2	33.42	8.0	24.9	1.81
A7	21 Nov 2022	17	13.90	88.55	5.9	33.41	8.0	25.0	1.59
A7	21 Nov 2022	18	13.91	88.65	5.8	33.41	7.9	25.0	1.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C4	01 Nov 2022	1	18.18	82.68	8.1	33.49	8.2	24.1	1.88
C4	01 Nov 2022	2	18.17	82.62	8.1	33.49	8.2	24.1	2.02
C4	01 Nov 2022	3	18.16	82.57	8.0	33.49	8.2	24.1	2.29
C4	01 Nov 2022	4	18.14	82.49	8.0	33.49	8.2	24.1	2.38
C4	01 Nov 2022	5	18.11	82.53	7.9	33.49	8.2	24.1	2.53
C4	01 Nov 2022	6	18.03	82.71	7.7	33.48	8.2	24.1	2.52
C4	01 Nov 2022	7	17.96	82.65	7.5	33.48	8.2	24.1	2.57
C4	01 Nov 2022	8	17.81	82.16	7.3	33.47	8.2	24.1	2.45
C4	01 Nov 2022	9	17.61	77.98	6.9	33.47	8.1	24.2	2.09
C4	01 Nov 2022	10	17.45	71.15	6.8	33.47	8.1	24.2	1.72
C4	07 Nov 2022	1	16.57	80.04	7.2	33.51	8.1	24.5	1.47
C4	07 Nov 2022	2	16.56	80.17	7.2	33.51	8.1	24.5	1.51
C4	07 Nov 2022	3	16.50	80.12	7.2	33.51	8.1	24.5	1.72
C4	07 Nov 2022	4	16.48	79.58	7.1	33.51	8.1	24.5	2.04
C4	07 Nov 2022	5	16.46	79.67	7.2	33.51	8.1	24.5	2.37
C4	07 Nov 2022	6	16.44	80.20	7.1	33.51	8.1	24.5	2.46
C4	07 Nov 2022	7	16.40	80.62	7.1	33.51	8.1	24.5	2.33
C4	07 Nov 2022	8	16.31	81.50	7.0	33.50	8.1	24.5	1.95
C4	07 Nov 2022	9	15.96	83.42	6.7	33.50	8.1	24.6	1.52
C4	07 Nov 2022	10	15.69	84.12	6.1	33.48	8.1	24.6	1.25
C4	07 Nov 2022	11	15.26	79.66	5.4	33.47	8.0	24.7	0.96
C4	07 Nov 2022	12	15.24	69.23	5.2	33.46	8.0	24.7	0.81
C4	14 Nov 2022	1	16.41	79.26	7.0	33.52	8.1	24.5	0.98
C4	14 Nov 2022	2	16.40	79.29	7.0	33.52	8.1	24.5	0.98
C4	14 Nov 2022	3	16.39	79.14	7.0	33.52	8.1	24.5	1.07
C4	14 Nov 2022	4	16.31	78.25	6.9	33.53	8.1	24.5	1.32
C4	14 Nov 2022	5	16.30	77.65	6.9	33.53	8.1	24.5	1.62
C4	14 Nov 2022	6	16.26	77.29	6.7	33.53	8.1	24.6	1.64
C4	14 Nov 2022	7	16.17	76.35	6.5	33.53	8.1	24.6	1.56
C4	14 Nov 2022	8	15.85	76.22	6.2	33.51	8.0	24.6	1.35
C4	14 Nov 2022	9	15.64	75.72	5.9	33.49	8.0	24.7	1.19
C4	14 Nov 2022	10	15.17	69.42	5.8	33.46	8.0	24.7	1.04
C4	21 Nov 2022	1	15.95	86.65	8.0	33.51	8.1	24.6	1.59
C4	21 Nov 2022	2	15.95	86.83	7.9	33.51	8.1	24.6	1.54
C4	21 Nov 2022	3	15.92	86.56	7.9	33.51	8.1	24.6	1.60
C4	21 Nov 2022	4	15.89	86.35	7.9	33.51	8.1	24.6	1.84
C4	21 Nov 2022	5	15.85	86.15	7.8	33.50	8.1	24.6	2.01
C4	21 Nov 2022	6	15.75	85.90	7.5	33.49	8.1	24.6	2.41
C4	21 Nov 2022	7	15.55	85.72	6.8	33.49	8.1	24.7	2.34
C4	21 Nov 2022	8	15.48	84.11	6.3	33.48	8.0	24.7	1.82
C4	21 Nov 2022	9	15.45	82.74	6.3	33.48	8.0	24.7	1.83
C4	21 Nov 2022	10	15.45	82.67	6.4	33.48	8.0	24.7	1.66
C4	21 Nov 2022	11	15.46	82.22	6.3	33.48	8.0	24.7	1.50
C4	21 Nov 2022	12	15.47	81.90	6.3	33.48	8.0	24.7	1.43
C5	01 Nov 2022	1	18.69	58.97	8.4	33.51	8.2	24.0	11.12
C5	01 Nov 2022	2	18.67	59.00	8.4	33.51	8.2	24.0	11.48
C5	01 Nov 2022	3	18.64	61.80	8.3	33.51	8.2	24.0	11.27
C5	01 Nov 2022	4	18.58	64.14	8.3	33.51	8.2	24.0	9.64
C5	01 Nov 2022	5	18.56	68.82	8.3	33.51	8.2	24.0	8.27
C5	01 Nov 2022	6	18.45	71.56	8.2	33.50	8.2	24.0	7.42
C5	01 Nov 2022	7	18.34	74.21	8.0	33.50	8.2	24.0	6.67
C5	01 Nov 2022	8	18.26	76.72	7.6	33.50	8.2	24.1	5.45
C5	01 Nov 2022	9	18.08	70.76	7.1	33.49	8.1	24.1	3.21
C5	01 Nov 2022	10	17.84	29.57	6.6	33.48	8.1	24.1	2.04
C5	07 Nov 2022	1	16.66	76.21	7.8	33.52	8.1	24.5	2.58
C5	07 Nov 2022	2	16.65	76.18	7.7	33.52	8.1	24.5	2.94

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C5	07 Nov 2022	3	16.60	75.99	7.7	33.52	8.1	24.5	3.33
C5	07 Nov 2022	4	16.57	76.49	7.6	33.53	8.1	24.5	3.26
C5	07 Nov 2022	5	16.52	78.25	7.4	33.52	8.1	24.5	2.80
C5	07 Nov 2022	6	16.31	79.84	6.9	33.52	8.1	24.5	1.97
C5	07 Nov 2022	7	15.95	82.83	6.2	33.50	8.1	24.6	1.31
C5	07 Nov 2022	8	15.52	84.53	5.9	33.48	8.0	24.7	1.01
C5	07 Nov 2022	9	15.20	84.28	5.8	33.47	8.0	24.7	0.86
C5	07 Nov 2022	10	15.02	85.26	5.8	33.46	8.0	24.8	0.81
C5	07 Nov 2022	11	15.00	85.40	5.6	33.45	8.0	24.8	0.77
C5	14 Nov 2022	1	16.58	82.39	7.2	33.53	8.1	24.5	1.21
C5	14 Nov 2022	2	16.55	82.25	7.1	33.53	8.1	24.5	1.31
C5	14 Nov 2022	3	16.47	81.39	7.1	33.53	8.1	24.5	1.56
C5	14 Nov 2022	4	16.42	79.92	7.0	33.53	8.1	24.5	2.04
C5	14 Nov 2022	5	16.38	79.76	6.8	33.53	8.1	24.5	2.17
C5	14 Nov 2022	6	16.32	79.84	6.6	33.53	8.1	24.5	1.83
C5	14 Nov 2022	7	16.29	79.06	6.5	33.53	8.1	24.6	1.60
C5	14 Nov 2022	8	16.27	77.35	6.4	33.53	8.1	24.6	1.45
C5	14 Nov 2022	9	16.18	70.13	6.3	33.52	8.1	24.6	1.36
C5	14 Nov 2022	10	16.03	55.73	6.0	33.51	8.0	24.6	1.39
C5	14 Nov 2022	11	15.98	47.97	5.9	33.51	8.0	24.6	1.39
C5	21 Nov 2022	1	15.97	78.89	6.6	33.52	8.0	24.6	1.73
C5	21 Nov 2022	2	15.96	78.64	6.7	33.52	8.0	24.6	1.84
C5	21 Nov 2022	3	15.94	77.92	6.5	33.53	8.0	24.6	2.00
C5	21 Nov 2022	4	15.93	76.46	6.4	33.53	8.0	24.6	1.91
C5	21 Nov 2022	5	15.92	74.38	6.3	33.53	8.0	24.6	1.80
C5	21 Nov 2022	6	15.91	72.68	6.3	33.53	8.0	24.6	1.72
C5	21 Nov 2022	7	15.87	70.20	6.1	33.53	8.0	24.6	1.70
C5	21 Nov 2022	8	15.40	64.53	5.8	33.50	8.0	24.7	1.56
C5	21 Nov 2022	9	15.17	58.11	5.7	33.48	8.0	24.8	1.40
C5	21 Nov 2022	10	15.08	65.98	5.6	33.47	8.0	24.8	1.28
C5	21 Nov 2022	11	15.06	69.74	5.5	33.46	8.0	24.8	1.30
C6	01 Nov 2022	1	18.82	71.73	8.2	33.53	8.2	23.9	5.74
C6	01 Nov 2022	2	18.81	71.65	8.4	33.53	8.2	23.9	6.07
C6	01 Nov 2022	3	18.80	71.77	8.5	33.52	8.2	23.9	6.17
C6	01 Nov 2022	4	18.78	72.61	8.1	33.52	8.2	23.9	5.47
C6	01 Nov 2022	5	18.77	73.79	7.7	33.52	8.2	24.0	4.46
C6	01 Nov 2022	6	18.70	75.11	7.3	33.52	8.1	24.0	3.40
C6	01 Nov 2022	7	18.63	75.06	6.9	33.52	8.1	24.0	2.46
C6	01 Nov 2022	8	18.52	74.44	6.3	33.49	8.1	24.0	1.86
C6	01 Nov 2022	9	17.25	71.79	5.6	33.48	8.0	24.3	1.35
C6	01 Nov 2022	10	18.05	68.09	5.8	33.47	8.0	24.1	1.23
C6	07 Nov 2022	1	16.67	75.51	7.5	33.53	8.1	24.5	2.74
C6	07 Nov 2022	2	16.67	74.97	7.4	33.53	8.1	24.5	3.15
C6	07 Nov 2022	3	16.64	74.28	7.3	33.53	8.1	24.5	3.64
C6	07 Nov 2022	4	16.62	73.71	7.2	33.53	8.1	24.5	3.62
C6	07 Nov 2022	5	16.56	74.14	7.0	33.53	8.1	24.5	3.18
C6	07 Nov 2022	6	16.39	75.01	6.6	33.52	8.1	24.5	2.29
C6	07 Nov 2022	7	16.19	76.43	6.3	33.51	8.0	24.6	1.54
C6	07 Nov 2022	8	15.82	78.55	6.0	33.48	8.0	24.6	1.15
C6	07 Nov 2022	9	15.25	80.55	5.6	33.48	8.0	24.7	0.96
C6	07 Nov 2022	10	15.14	79.27	5.6	33.48	8.0	24.8	0.91
C6	14 Nov 2022	1	16.48	80.25	7.1	33.51	8.1	24.5	0.92
C6	14 Nov 2022	2	16.44	80.10	7.1	33.51	8.1	24.5	0.98
C6	14 Nov 2022	3	16.42	79.90	7.1	33.51	8.1	24.5	1.11
C6	14 Nov 2022	4	16.39	79.64	7.0	33.51	8.1	24.5	1.31
C6	14 Nov 2022	5	16.27	79.92	6.8	33.51	8.1	24.5	1.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C6	14 Nov 2022	6	16.10	80.44	6.4	33.50	8.1	24.6	1.22
C6	14 Nov 2022	7	16.00	80.86	6.2	33.49	8.1	24.6	0.99
C6	14 Nov 2022	8	15.92	80.58	6.0	33.48	8.1	24.6	0.84
C6	14 Nov 2022	9	15.91	80.26	6.0	33.48	8.1	24.6	0.77
C6	21 Nov 2022	1	15.79	81.69	7.5	33.51	8.1	24.6	2.60
C6	21 Nov 2022	2	15.78	81.50	7.5	33.51	8.1	24.7	2.78
C6	21 Nov 2022	3	15.77	80.71	7.4	33.51	8.1	24.7	3.28
C6	21 Nov 2022	4	15.75	79.92	7.4	33.51	8.1	24.7	3.97
C6	21 Nov 2022	5	15.73	79.89	7.2	33.51	8.1	24.7	4.26
C6	21 Nov 2022	6	15.68	80.96	6.8	33.51	8.1	24.7	3.17
C6	21 Nov 2022	7	15.58	82.93	6.5	33.49	8.0	24.7	2.08
C6	21 Nov 2022	8	15.39	84.65	6.2	33.48	8.0	24.7	1.46
C6	21 Nov 2022	9	15.37	85.73	6.2	33.48	8.0	24.7	1.17
C6	21 Nov 2022	10	15.39	85.79	6.1	33.48	8.0	24.7	1.09
C7	01 Nov 2022	1	19.00	84.81	8.0	33.57	8.2	23.9	2.30
C7	01 Nov 2022	2	18.97	84.16	8.0	33.56	8.2	23.9	2.78
C7	01 Nov 2022	3	18.95	82.88	8.2	33.56	8.2	23.9	3.46
C7	01 Nov 2022	4	18.95	82.05	8.2	33.56	8.2	23.9	3.75
C7	01 Nov 2022	5	18.93	81.47	8.2	33.55	8.2	23.9	4.19
C7	01 Nov 2022	6	18.92	80.65	8.3	33.55	8.2	23.9	4.46
C7	01 Nov 2022	7	18.89	80.30	8.3	33.55	8.2	23.9	4.52
C7	01 Nov 2022	8	18.83	81.09	8.2	33.55	8.2	24.0	4.24
C7	01 Nov 2022	9	18.66	81.48	8.2	33.53	8.2	24.0	3.99
C7	01 Nov 2022	10	18.53	81.39	8.2	33.52	8.2	24.0	3.61
C7	01 Nov 2022	11	18.30	82.12	7.8	33.51	8.2	24.1	3.33
C7	01 Nov 2022	12	17.76	82.60	7.2	33.49	8.1	24.2	3.40
C7	01 Nov 2022	13	17.31	84.18	6.8	33.47	8.1	24.3	2.79
C7	01 Nov 2022	14	16.75	83.41	6.5	33.46	8.1	24.4	2.80
C7	01 Nov 2022	15	16.74	80.87	6.4	33.48	8.1	24.4	2.50
C7	01 Nov 2022	16	16.64	82.99	6.2	33.47	8.1	24.4	2.08
C7	01 Nov 2022	17	16.25	81.56	5.9	33.59	8.0	24.6	1.93
C7	01 Nov 2022	18	15.68	82.56	5.7	33.45	8.0	24.6	1.42
C7	07 Nov 2022	1	16.89	69.69	8.7	33.54	8.2	24.4	9.28
C7	07 Nov 2022	2	16.80	69.10	8.4	33.54	8.2	24.4	10.31
C7	07 Nov 2022	3	16.58	68.67	8.0	33.53	8.2	24.5	10.06
C7	07 Nov 2022	4	16.50	72.70	7.7	33.52	8.1	24.5	7.04
C7	07 Nov 2022	5	16.41	77.82	7.5	33.52	8.1	24.5	4.61
C7	07 Nov 2022	6	16.28	81.71	7.3	33.51	8.1	24.5	2.96
C7	07 Nov 2022	7	16.09	84.17	7.1	33.50	8.1	24.6	2.23
C7	07 Nov 2022	8	15.84	85.49	6.9	33.49	8.1	24.6	1.82
C7	07 Nov 2022	9	15.57	86.57	6.7	33.48	8.1	24.7	1.59
C7	07 Nov 2022	10	15.49	87.08	6.5	33.47	8.1	24.7	1.40
C7	07 Nov 2022	11	15.25	87.58	6.4	33.46	8.0	24.7	1.26
C7	07 Nov 2022	12	14.93	87.74	6.3	33.45	8.0	24.8	1.17
C7	07 Nov 2022	13	14.67	88.06	6.1	33.44	8.0	24.8	1.11
C7	07 Nov 2022	14	14.33	88.24	6.0	33.41	8.0	24.9	1.10
C7	07 Nov 2022	15	13.96	88.60	6.0	33.41	8.0	25.0	1.11
C7	07 Nov 2022	16	13.91	89.18	6.0	33.40	8.0	25.0	1.14
C7	07 Nov 2022	17	13.86	89.22	5.9	33.40	8.0	25.0	1.11
C7	07 Nov 2022	18	13.80	88.68	5.8	33.41	8.0	25.0	1.02
C7	14 Nov 2022	1	16.70	86.77	7.4	33.51	8.2	24.4	1.02
C7	14 Nov 2022	2	16.70	86.57	7.3	33.51	8.2	24.4	1.03
C7	14 Nov 2022	3	16.67	86.62	7.3	33.51	8.2	24.5	1.08
C7	14 Nov 2022	4	16.65	86.28	7.3	33.51	8.2	24.5	1.29
C7	14 Nov 2022	5	16.63	85.66	7.3	33.51	8.2	24.5	1.46
C7	14 Nov 2022	6	16.60	85.36	7.3	33.51	8.2	24.5	1.76
C7	14 Nov 2022	7	16.52	85.35	7.2	33.50	8.2	24.5	1.93

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
C7	14 Nov 2022	8	16.42	86.06	7.2	33.49	8.1	24.5	1.86
C7	14 Nov 2022	9	16.34	86.56	7.1	33.49	8.1	24.5	1.81
C7	14 Nov 2022	10	16.15	86.98	7.0	33.49	8.1	24.5	1.82
C7	14 Nov 2022	11	16.06	87.65	6.9	33.48	8.1	24.6	1.67
C7	14 Nov 2022	12	15.98	88.43	6.9	33.48	8.1	24.6	1.64
C7	14 Nov 2022	13	15.90	88.68	6.9	33.48	8.1	24.6	1.50
C7	14 Nov 2022	14	15.76	88.96	6.7	33.47	8.1	24.6	1.41
C7	14 Nov 2022	15	15.44	89.06	6.4	33.47	8.1	24.7	1.23
C7	14 Nov 2022	16	15.10	88.97	6.2	33.46	8.1	24.8	1.01
C7	14 Nov 2022	17	14.70	88.53	6.2	33.45	8.1	24.8	0.87
C7	14 Nov 2022	18	14.56	88.40	6.2	33.44	8.0	24.9	0.78
C7	21 Nov 2022	1	15.90	84.56	7.7	33.52	8.1	24.6	2.38
C7	21 Nov 2022	2	15.90	84.61	7.7	33.52	8.1	24.6	2.68
C7	21 Nov 2022	3	15.88	84.32	7.7	33.52	8.1	24.6	3.21
C7	21 Nov 2022	4	15.88	84.03	7.7	33.52	8.1	24.6	3.41
C7	21 Nov 2022	5	15.86	84.14	7.7	33.51	8.1	24.6	3.54
C7	21 Nov 2022	6	15.85	84.23	7.7	33.51	8.1	24.6	3.57
C7	21 Nov 2022	7	15.83	84.10	7.7	33.51	8.1	24.6	3.48
C7	21 Nov 2022	8	15.78	84.36	7.7	33.51	8.1	24.6	3.53
C7	21 Nov 2022	9	15.77	84.61	7.8	33.51	8.1	24.6	3.30
C7	21 Nov 2022	10	15.76	85.02	7.8	33.50	8.1	24.7	3.35
C7	21 Nov 2022	11	15.72	85.32	7.8	33.50	8.1	24.7	3.47
C7	21 Nov 2022	12	15.68	85.65	7.7	33.50	8.1	24.7	3.42
C7	21 Nov 2022	13	15.58	85.83	7.5	33.49	8.1	24.7	3.12
C7	21 Nov 2022	14	15.51	86.22	7.4	33.48	8.1	24.7	2.92
C7	21 Nov 2022	15	15.43	86.04	7.1	33.47	8.1	24.7	2.66
C7	21 Nov 2022	16	15.18	86.90	6.8	33.47	8.0	24.8	2.30
C7	21 Nov 2022	17	15.14	87.86	6.5	33.45	8.0	24.8	2.27
C7	21 Nov 2022	18	14.77	88.10	6.0	33.45	8.0	24.8	1.84
C8	01 Nov 2022	1	18.89	86.35	8.1	33.56	8.2	23.9	1.69
C8	01 Nov 2022	2	18.89	86.42	8.1	33.56	8.2	23.9	1.74
C8	01 Nov 2022	3	18.89	86.31	8.1	33.56	8.2	23.9	1.82
C8	01 Nov 2022	4	18.89	86.32	8.0	33.56	8.2	23.9	1.93
C8	01 Nov 2022	5	18.88	86.43	8.0	33.55	8.2	23.9	1.96
C8	01 Nov 2022	6	18.81	86.33	7.9	33.55	8.2	24.0	2.15
C8	01 Nov 2022	7	18.54	85.85	7.8	33.53	8.2	24.0	2.36
C8	01 Nov 2022	8	18.28	86.51	7.5	33.52	8.2	24.1	2.37
C8	01 Nov 2022	9	17.80	86.82	7.2	33.48	8.2	24.2	2.22
C8	01 Nov 2022	10	17.07	86.45	6.7	33.45	8.1	24.3	2.09
C8	01 Nov 2022	11	16.55	85.97	6.4	33.43	8.1	24.4	1.96
C8	01 Nov 2022	12	16.08	86.31	6.2	33.41	8.1	24.5	1.74
C8	01 Nov 2022	13	15.72	86.91	6.2	33.39	8.1	24.6	1.56
C8	01 Nov 2022	14	15.08	87.47	6.6	33.38	8.1	24.7	1.45
C8	01 Nov 2022	15	14.72	88.91	6.9	33.36	8.1	24.8	1.48
C8	01 Nov 2022	16	14.57	89.94	6.8	33.35	8.1	24.8	1.63
C8	01 Nov 2022	17	14.51	89.92	6.6	33.36	8.0	24.8	1.44
C8	01 Nov 2022	18	14.23	89.10	6.3	33.36	8.0	24.9	1.24
C8	01 Nov 2022	19	13.98	86.68	6.2	33.37	8.0	24.9	0.96
C8	01 Nov 2022	20	13.98	84.29	6.1	33.37	8.0	24.9	0.86
C8	07 Nov 2022	1	16.71	82.00	8.0	33.54	8.2	24.5	2.72
C8	07 Nov 2022	2	16.70	82.23	8.0	33.54	8.2	24.5	2.78
C8	07 Nov 2022	3	16.68	82.23	8.0	33.54	8.2	24.5	2.98
C8	07 Nov 2022	4	16.63	81.84	8.0	33.53	8.2	24.5	3.58
C8	07 Nov 2022	5	16.63	81.33	7.9	33.53	8.2	24.5	3.94
C8	07 Nov 2022	6	16.36	81.96	7.4	33.51	8.1	24.5	3.61
C8	07 Nov 2022	7	15.63	84.14	6.9	33.48	8.1	24.7	2.60
C8	07 Nov 2022	8	15.28	86.68	6.7	33.45	8.1	24.7	1.75
C8	07 Nov 2022	9	14.85	87.44	6.5	33.45	8.1	24.8	1.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
C8	07 Nov 2022	10	14.48	87.64	6.4	33.42	8.0	24.9	1.42
C8	07 Nov 2022	11	14.33	88.09	6.3	33.42	8.0	24.9	1.30
C8	07 Nov 2022	12	14.30	88.37	6.2	33.41	8.0	24.9	1.29
C8	07 Nov 2022	13	14.24	88.33	6.1	33.42	8.0	24.9	1.25
C8	07 Nov 2022	14	14.21	88.31	6.0	33.42	8.0	24.9	1.18
C8	07 Nov 2022	15	14.19	88.30	6.0	33.42	8.0	24.9	1.05
C8	07 Nov 2022	16	14.17	88.38	5.9	33.42	8.0	24.9	1.00
C8	07 Nov 2022	17	14.02	87.96	5.7	33.42	8.0	25.0	0.91
C8	07 Nov 2022	18	13.92	87.11	5.6	33.42	8.0	25.0	0.85
C8	07 Nov 2022	19	13.91	86.67	5.6	33.42	8.0	25.0	0.84
C8	07 Nov 2022	20	13.90	86.58	5.7	33.42	8.0	25.0	0.83
C8	14 Nov 2022	1	16.64	84.03	7.8	33.48	8.2	24.4	1.44
C8	14 Nov 2022	2	16.61	82.73	7.8	33.48	8.2	24.4	1.87
C8	14 Nov 2022	3	16.60	81.38	7.8	33.48	8.2	24.4	2.40
C8	14 Nov 2022	4	16.59	81.69	7.7	33.49	8.2	24.4	2.87
C8	14 Nov 2022	5	16.59	82.23	7.7	33.49	8.2	24.4	3.10
C8	14 Nov 2022	6	16.59	82.66	7.7	33.49	8.2	24.4	3.20
C8	14 Nov 2022	7	16.58	83.35	7.7	33.49	8.2	24.5	3.22
C8	14 Nov 2022	8	16.57	84.04	7.6	33.49	8.2	24.5	2.84
C8	14 Nov 2022	9	16.54	84.86	7.5	33.49	8.2	24.5	2.23
C8	14 Nov 2022	10	16.35	86.53	7.2	33.49	8.2	24.5	1.81
C8	14 Nov 2022	11	15.94	88.31	7.0	33.48	8.1	24.6	1.61
C8	14 Nov 2022	12	15.80	88.73	6.9	33.47	8.1	24.6	1.41
C8	14 Nov 2022	13	15.74	88.52	6.7	33.47	8.1	24.6	1.32
C8	14 Nov 2022	14	15.61	88.37	6.7	33.46	8.1	24.7	1.22
C8	14 Nov 2022	15	15.54	88.39	6.6	33.46	8.1	24.7	1.23
C8	14 Nov 2022	16	15.37	88.14	6.5	33.45	8.1	24.7	1.16
C8	14 Nov 2022	17	15.33	88.20	6.5	33.45	8.1	24.7	1.07
C8	14 Nov 2022	18	15.24	88.31	6.5	33.45	8.1	24.7	1.02
C8	14 Nov 2022	19	15.21	87.17	6.5	33.45	8.1	24.7	0.97
C8	14 Nov 2022	20	15.21	86.65	6.5	33.45	8.1	24.7	1.01
C8	21 Nov 2022	1	15.85	79.34	7.5	33.52	8.1	24.6	2.85
C8	21 Nov 2022	2	15.85	79.14	7.5	33.51	8.1	24.6	3.34
C8	21 Nov 2022	3	15.86	79.22	7.5	33.52	8.1	24.6	4.22
C8	21 Nov 2022	4	15.86	79.22	7.5	33.52	8.1	24.6	4.97
C8	21 Nov 2022	5	15.85	79.12	7.5	33.51	8.1	24.6	5.59
C8	21 Nov 2022	6	15.84	78.73	7.4	33.51	8.1	24.6	5.93
C8	21 Nov 2022	7	15.84	78.24	7.4	33.51	8.1	24.6	6.19
C8	21 Nov 2022	8	15.81	79.01	7.4	33.51	8.1	24.6	5.87
C8	21 Nov 2022	9	15.79	79.89	7.4	33.51	8.1	24.6	5.28
C8	21 Nov 2022	10	15.71	81.32	7.3	33.50	8.1	24.7	4.69
C8	21 Nov 2022	11	15.54	83.57	7.3	33.48	8.1	24.7	3.95
C8	21 Nov 2022	12	15.50	85.49	7.2	33.48	8.1	24.7	3.82
C8	21 Nov 2022	13	15.45	85.97	7.2	33.48	8.1	24.7	3.48
C8	21 Nov 2022	14	15.36	85.88	7.1	33.47	8.1	24.7	3.14
C8	21 Nov 2022	15	15.26	86.29	7.0	33.46	8.1	24.7	3.06
C8	21 Nov 2022	16	15.21	86.50	6.8	33.46	8.1	24.7	2.97
C8	21 Nov 2022	17	15.10	86.63	6.6	33.46	8.0	24.8	2.65
C8	21 Nov 2022	18	14.73	87.07	6.2	33.45	8.0	24.8	2.40
C8	21 Nov 2022	19	14.45	87.71	5.9	33.44	8.0	24.9	1.72
C8	21 Nov 2022	20	14.40	87.85	5.8	33.44	8.0	24.9	1.26

NA = not available

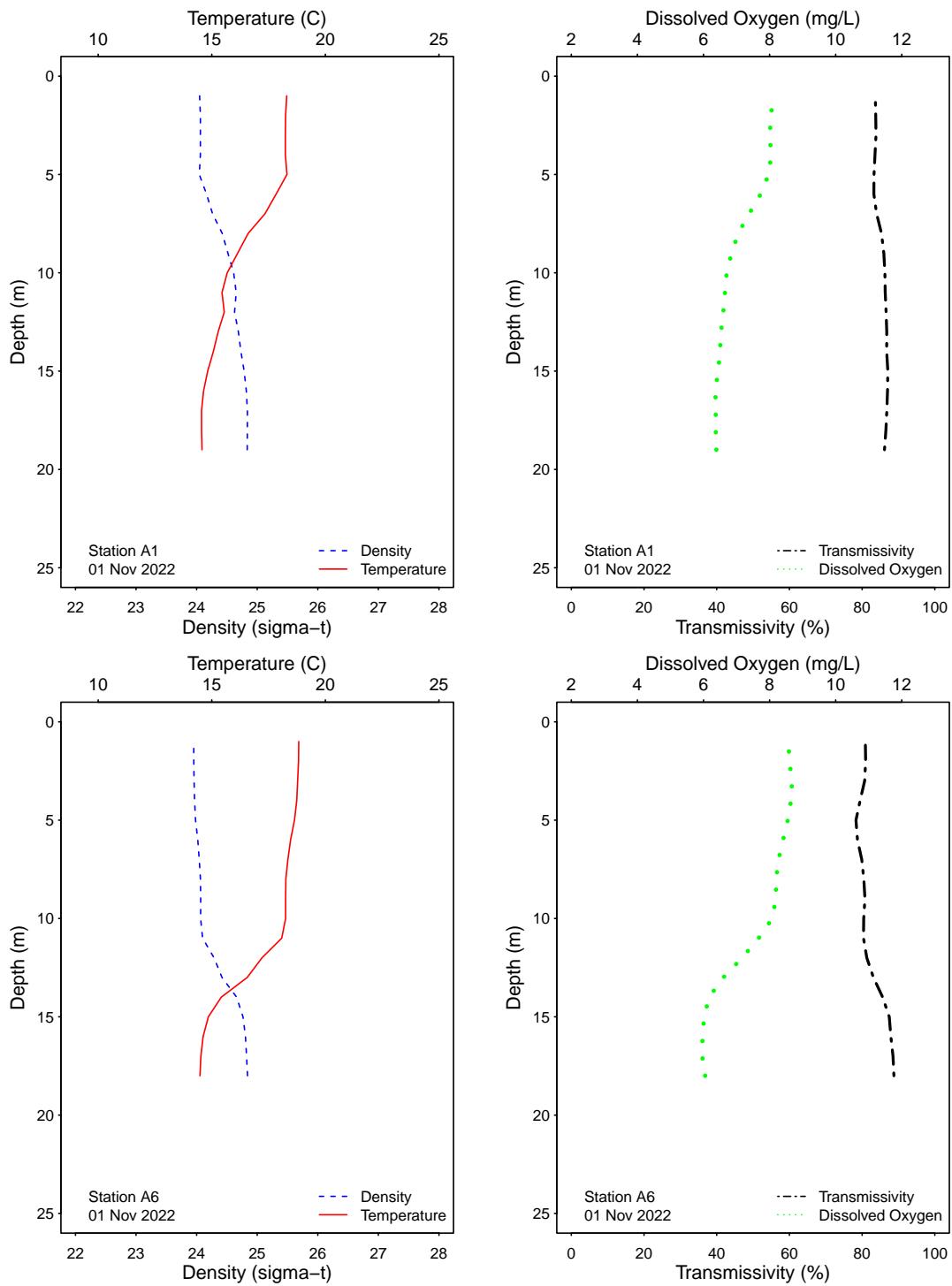


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

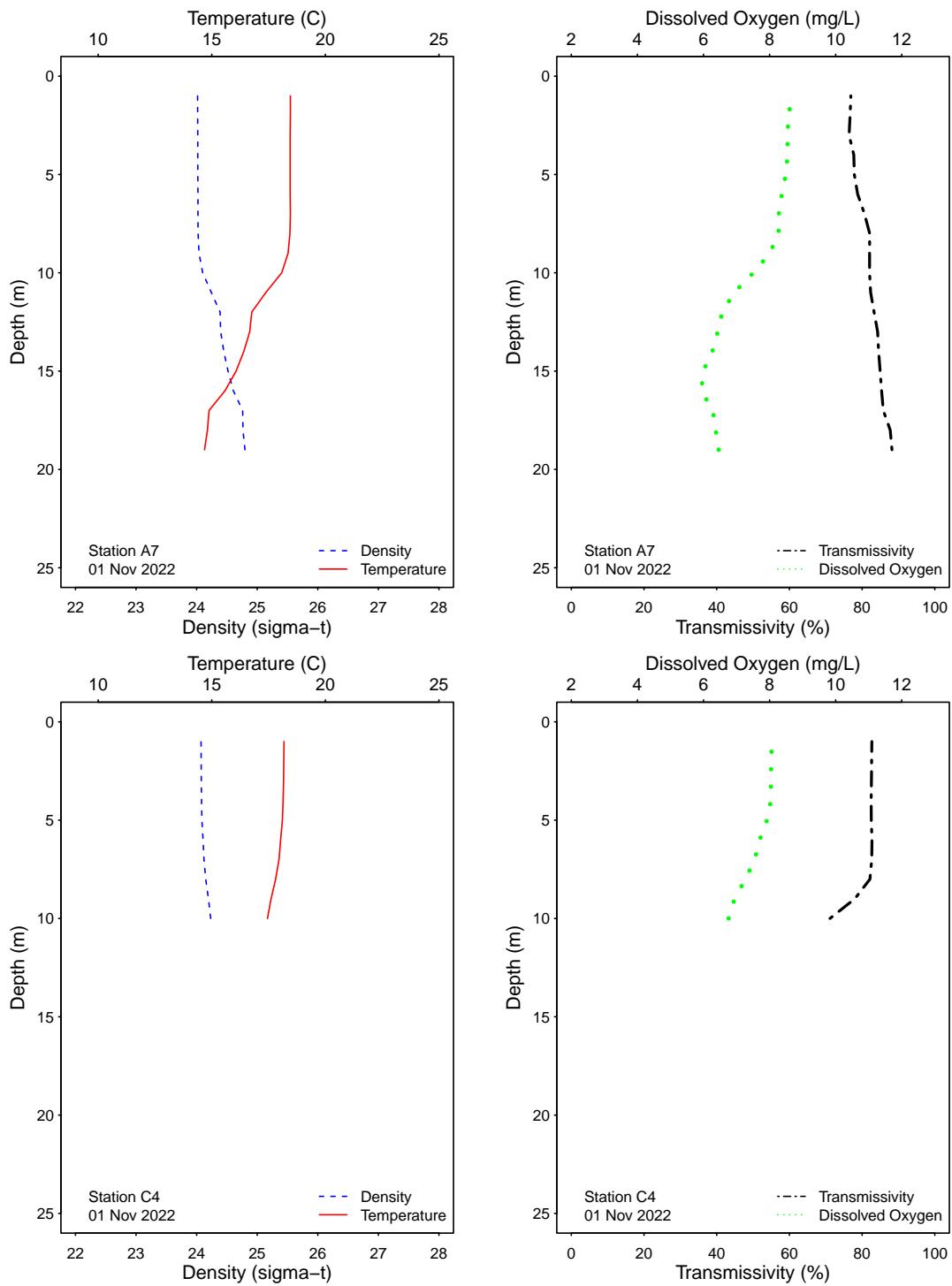


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

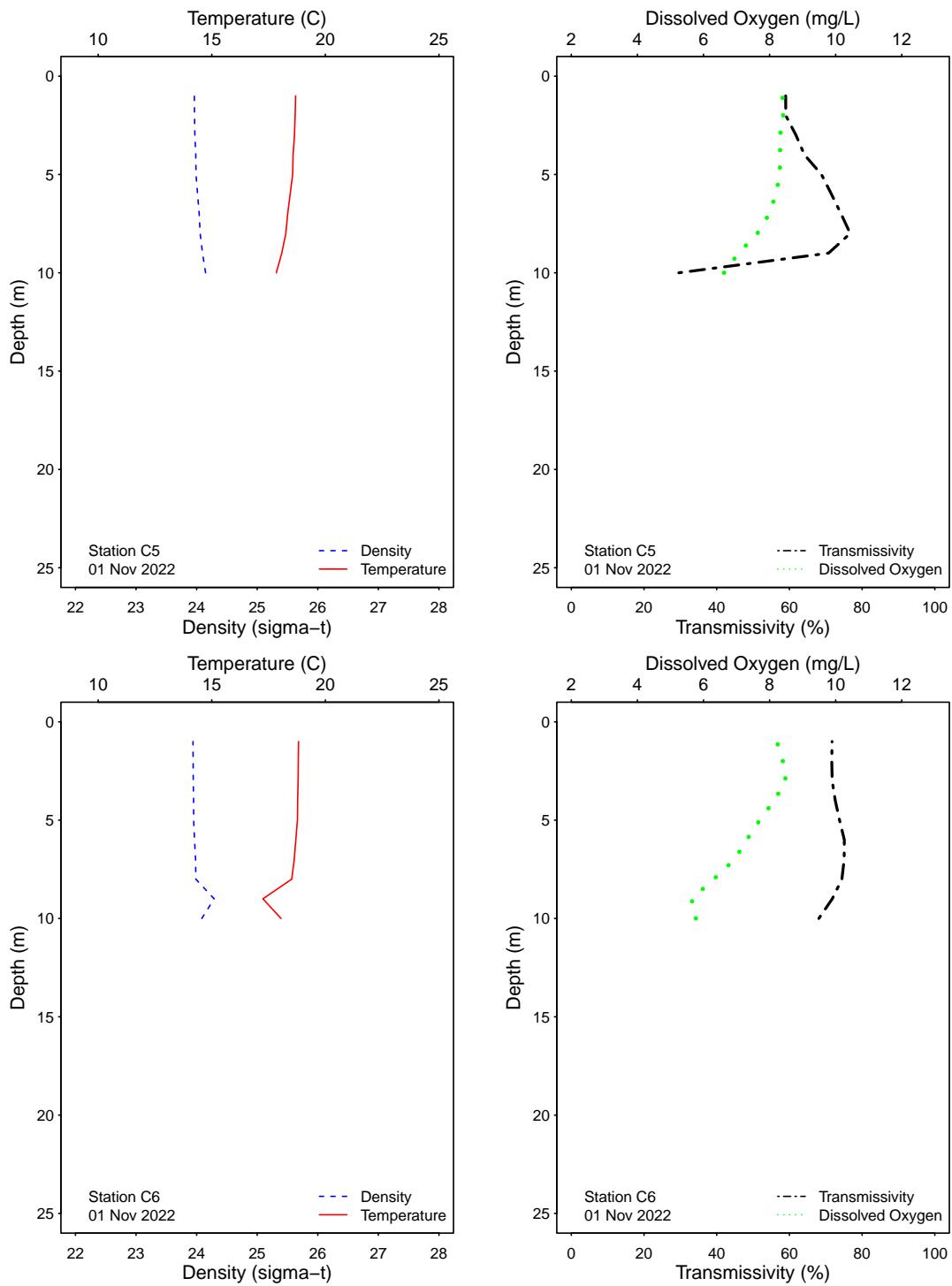


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

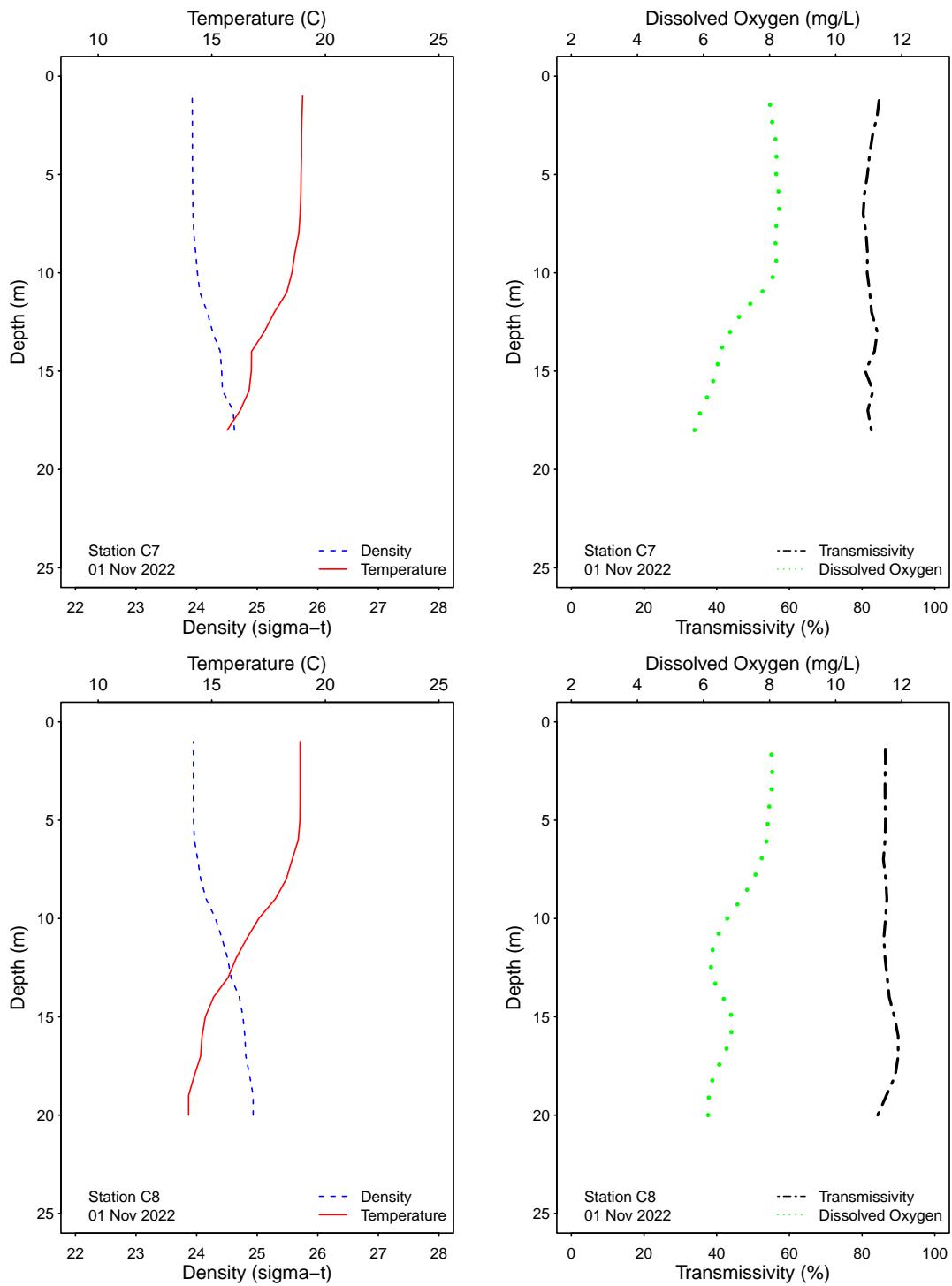


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

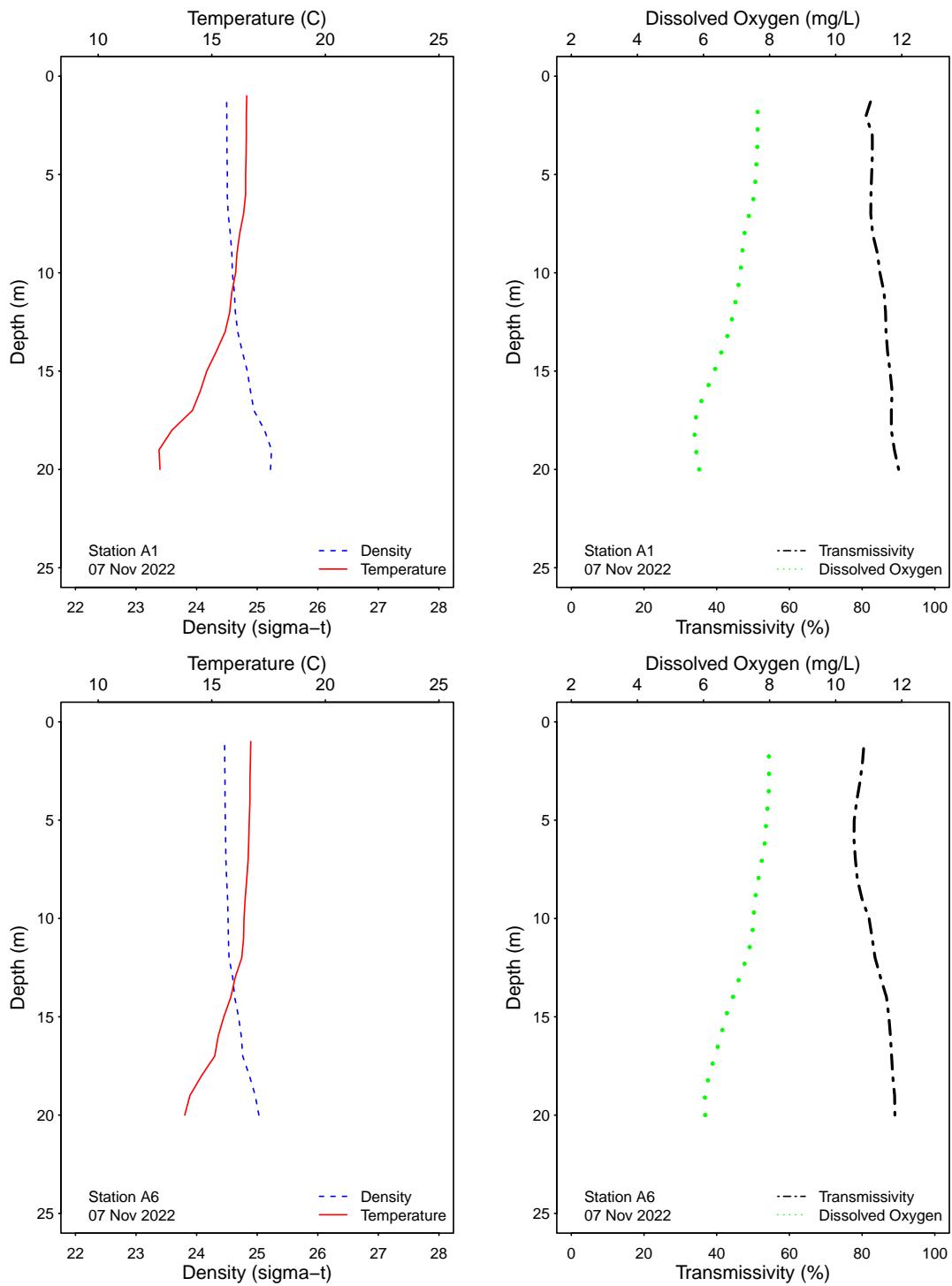


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

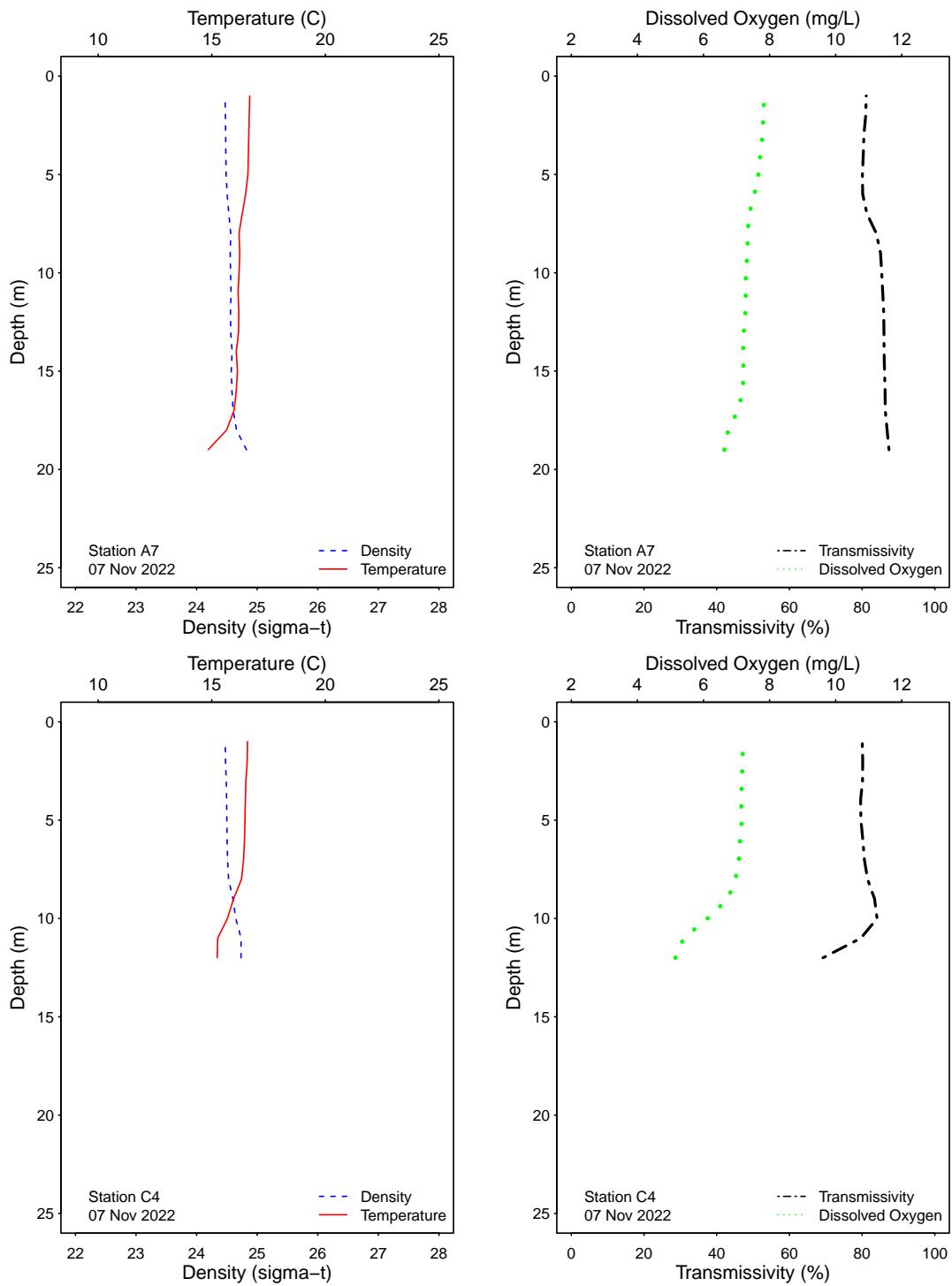


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

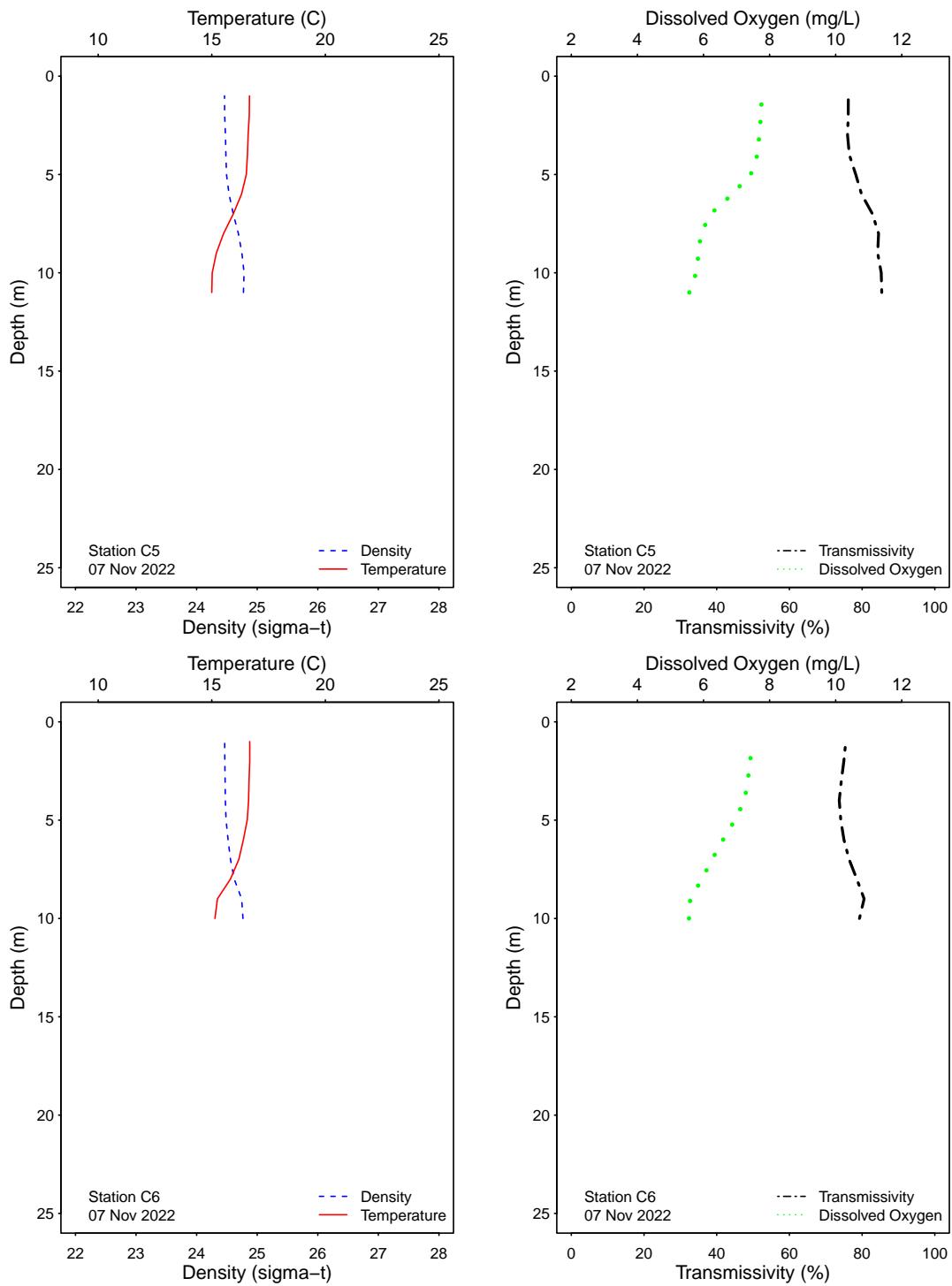


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

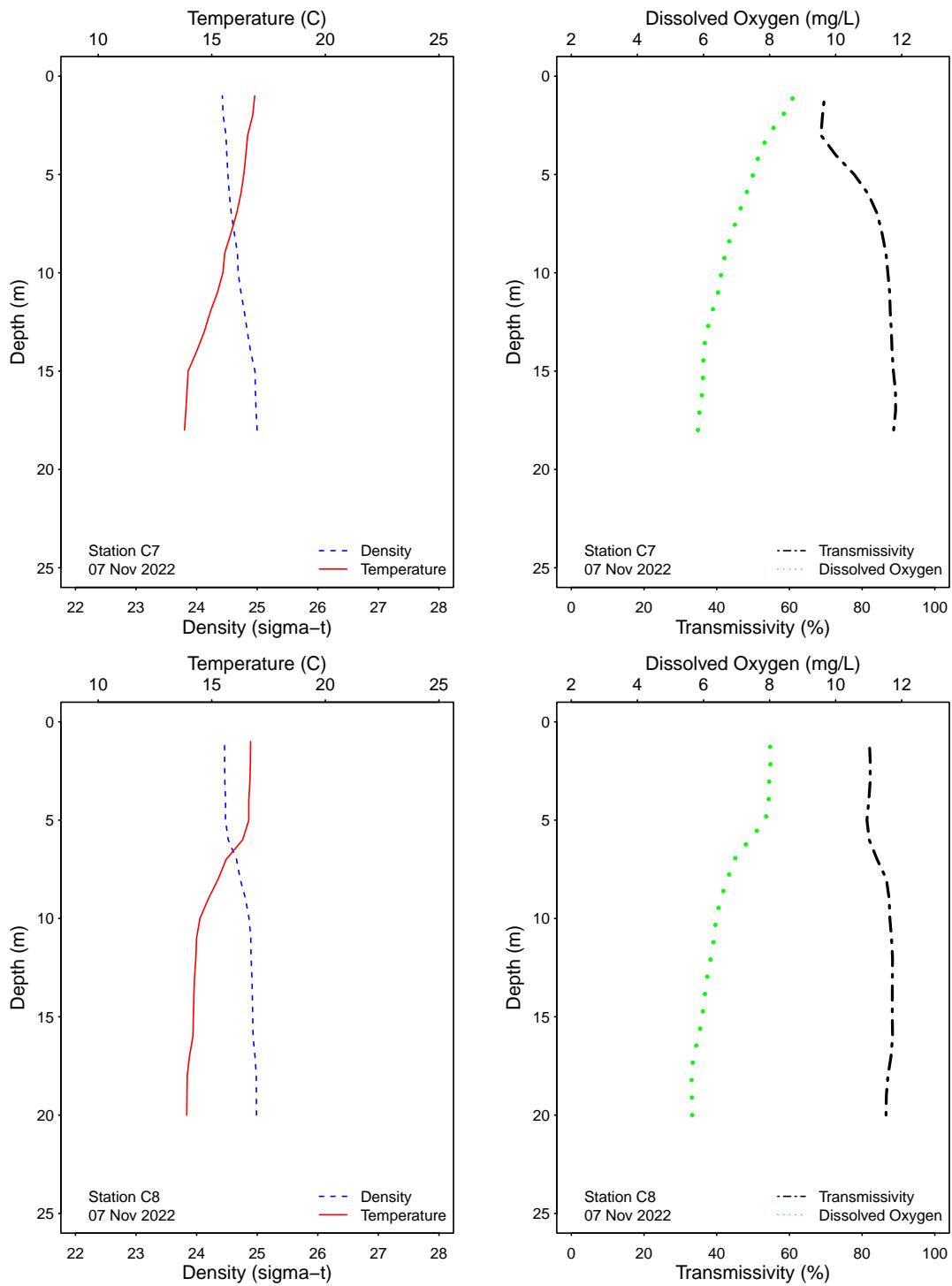


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

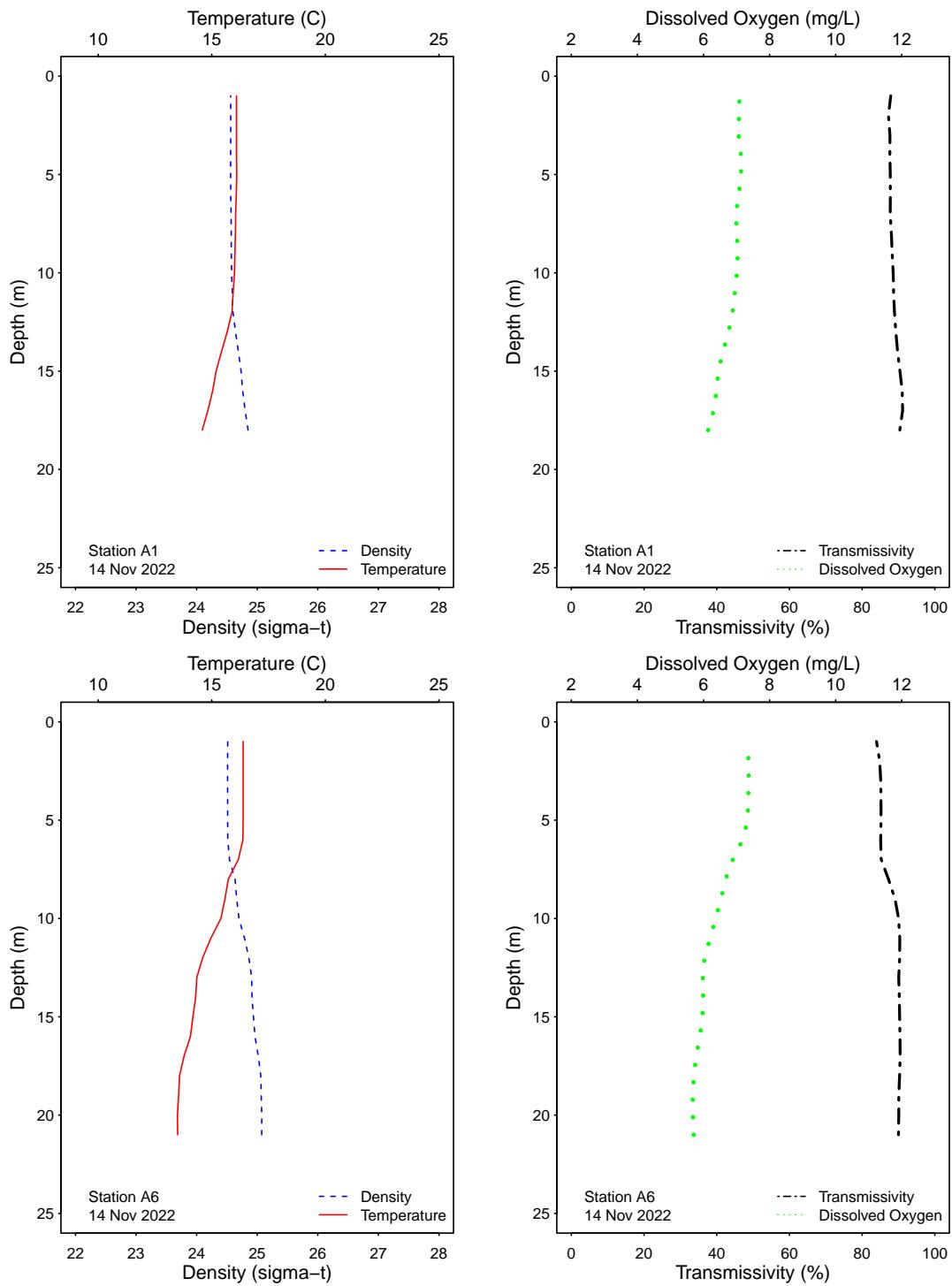


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

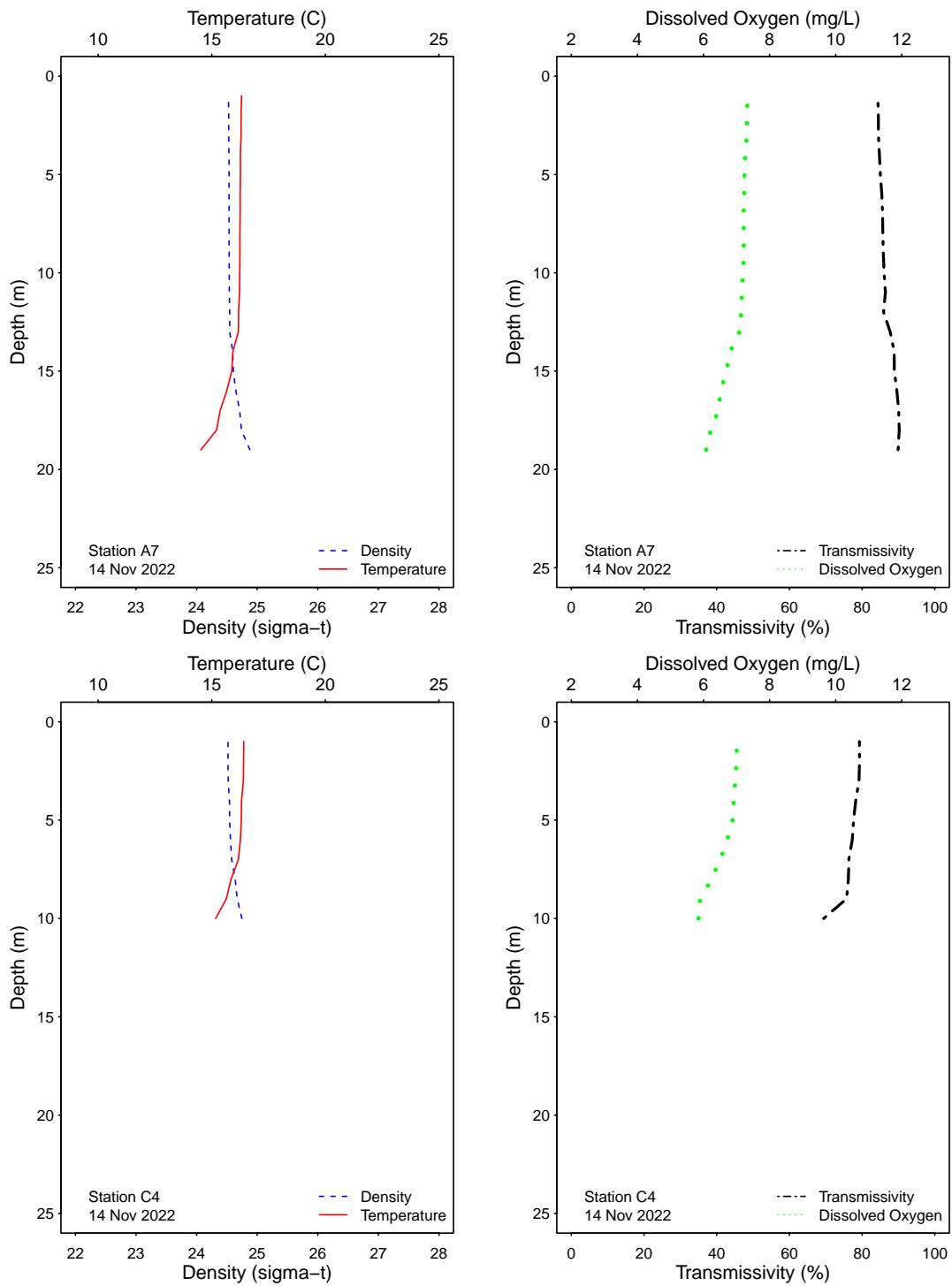


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

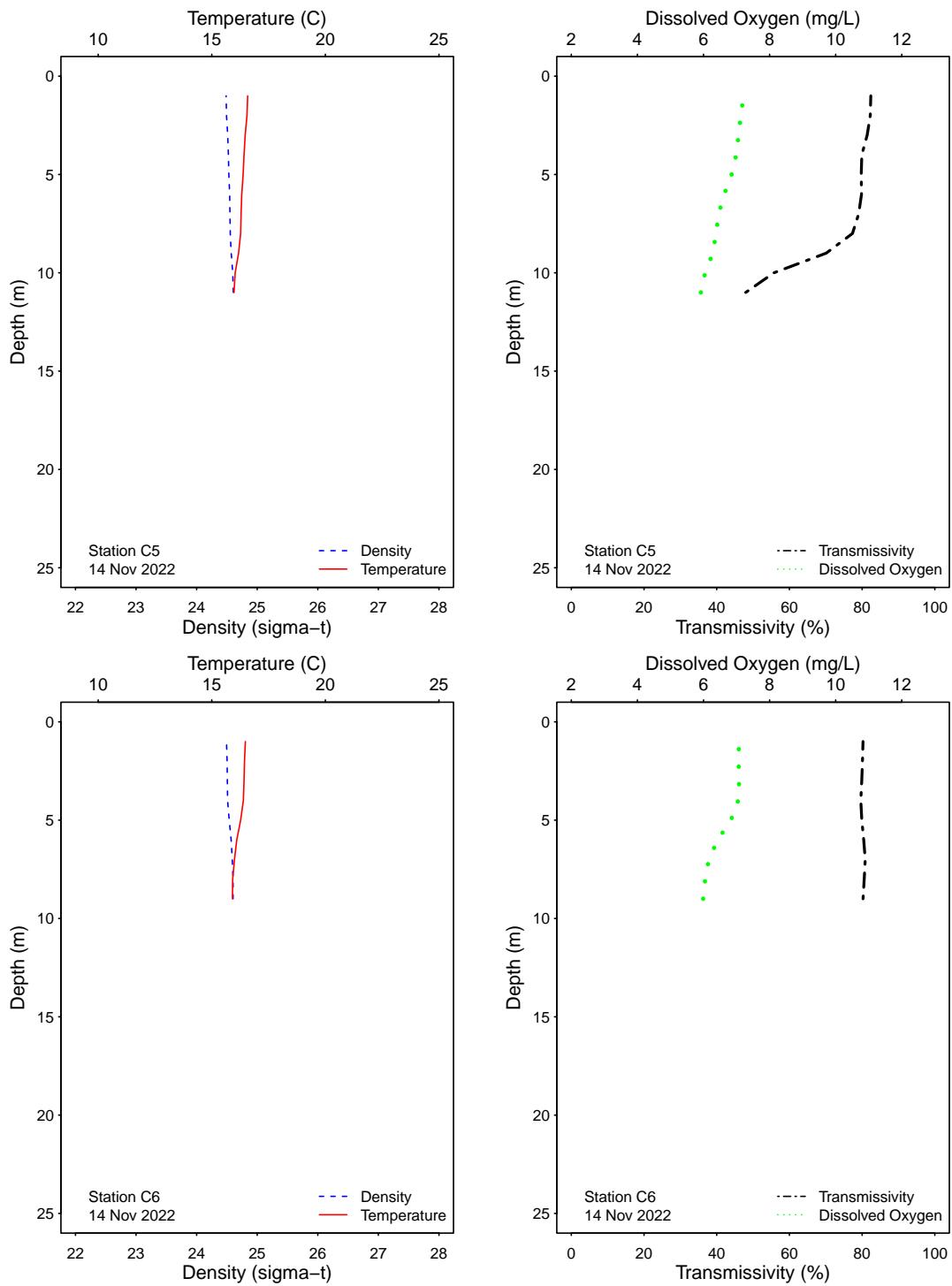


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

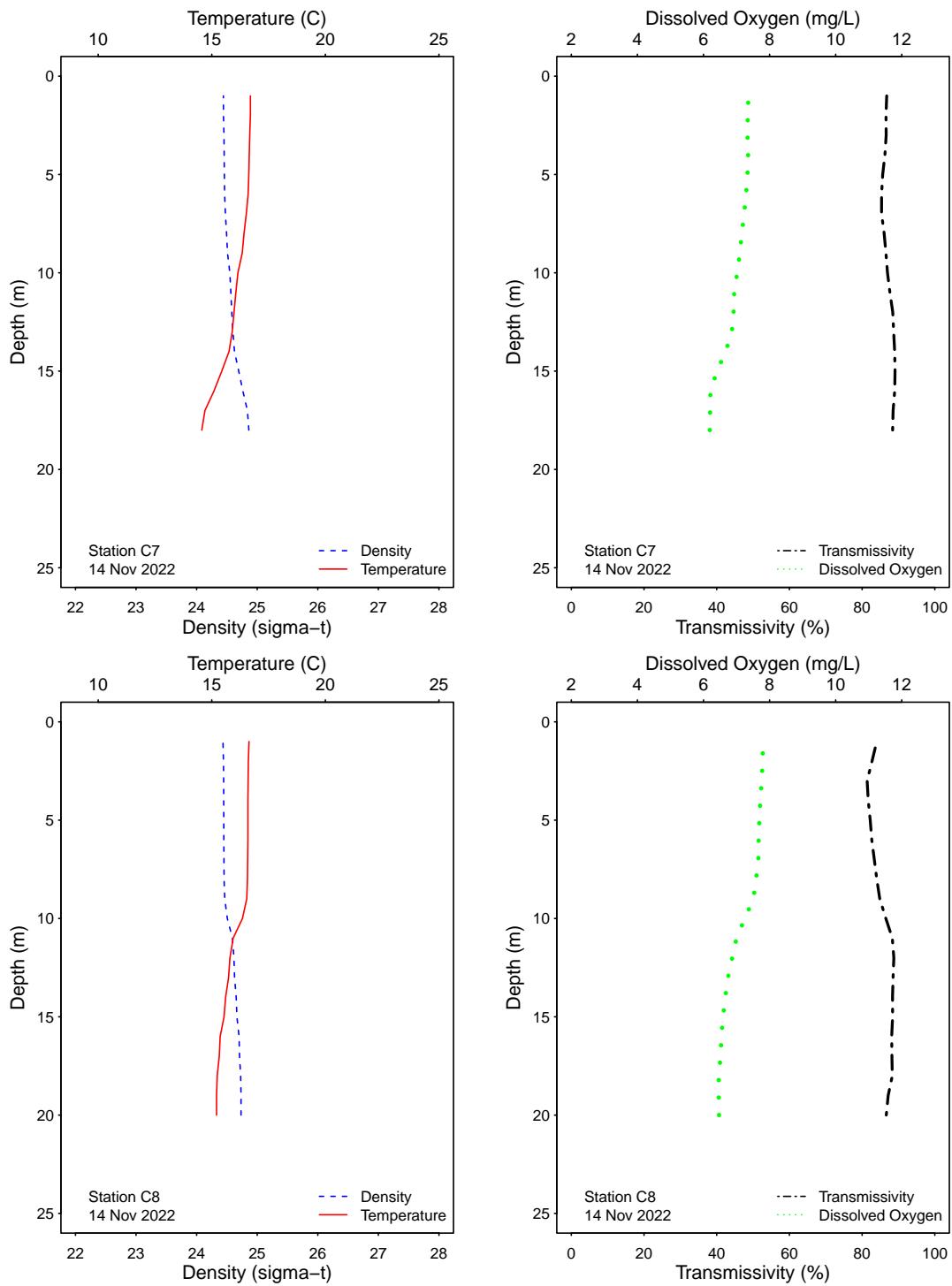


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

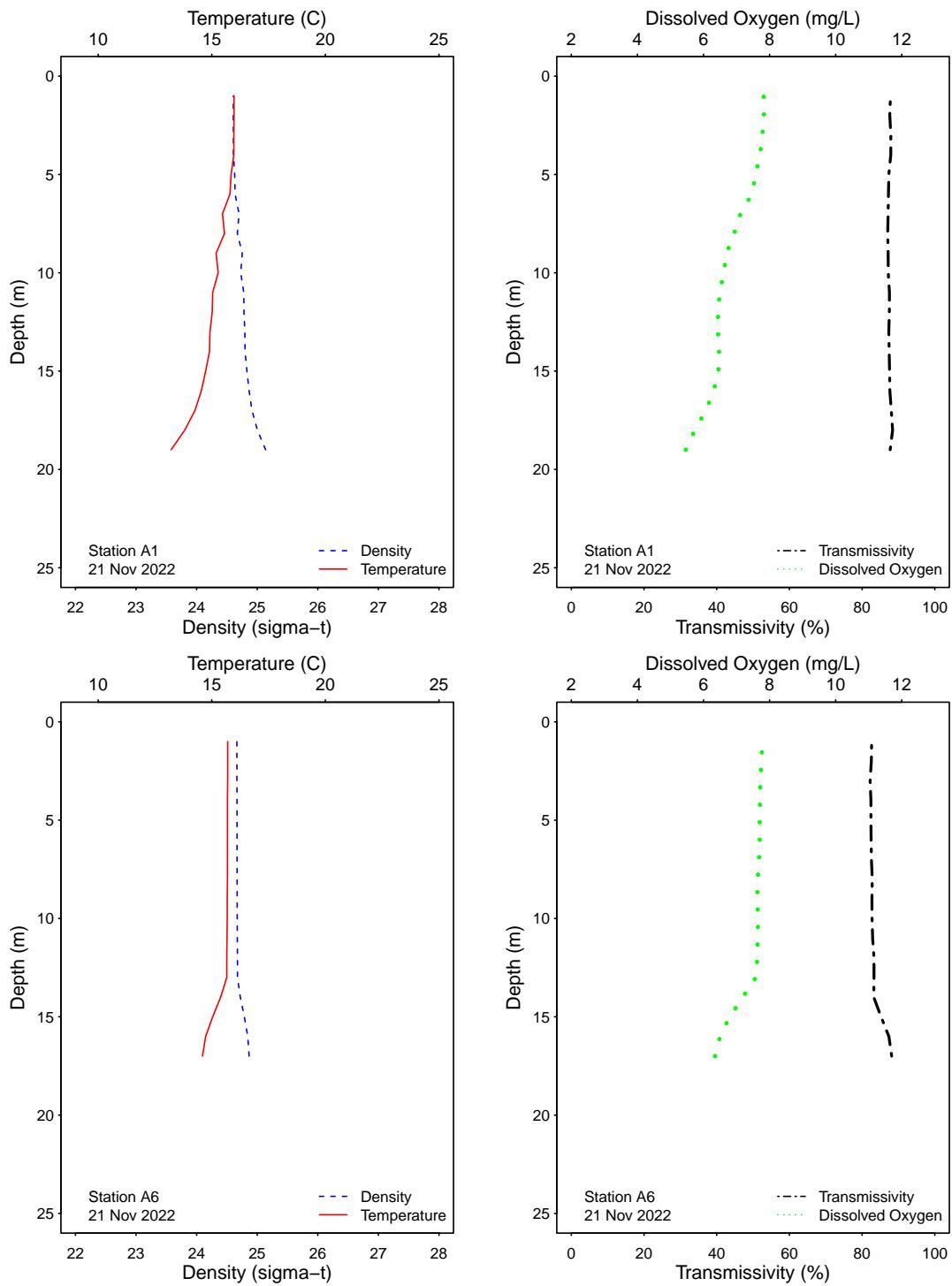


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

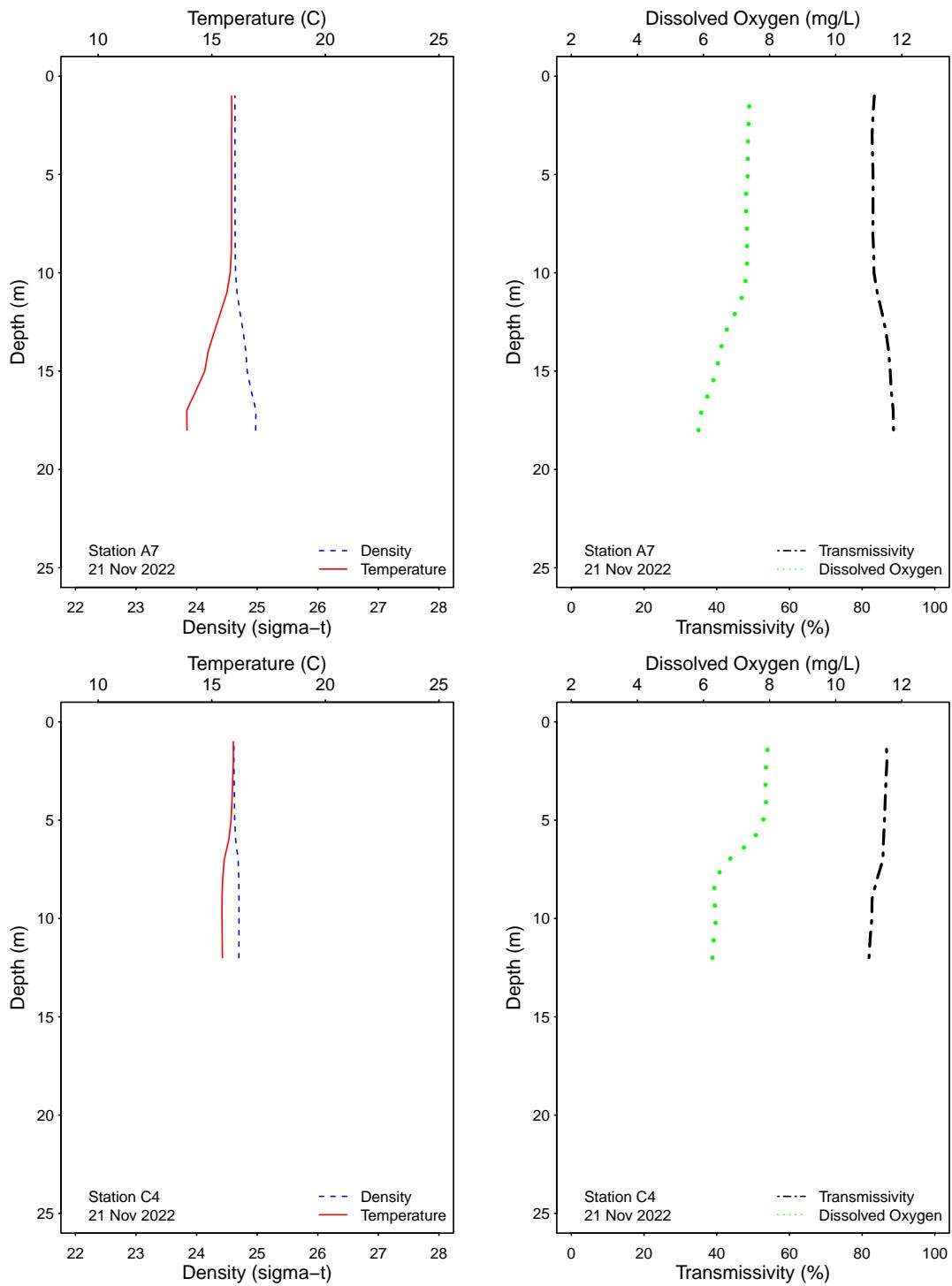


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

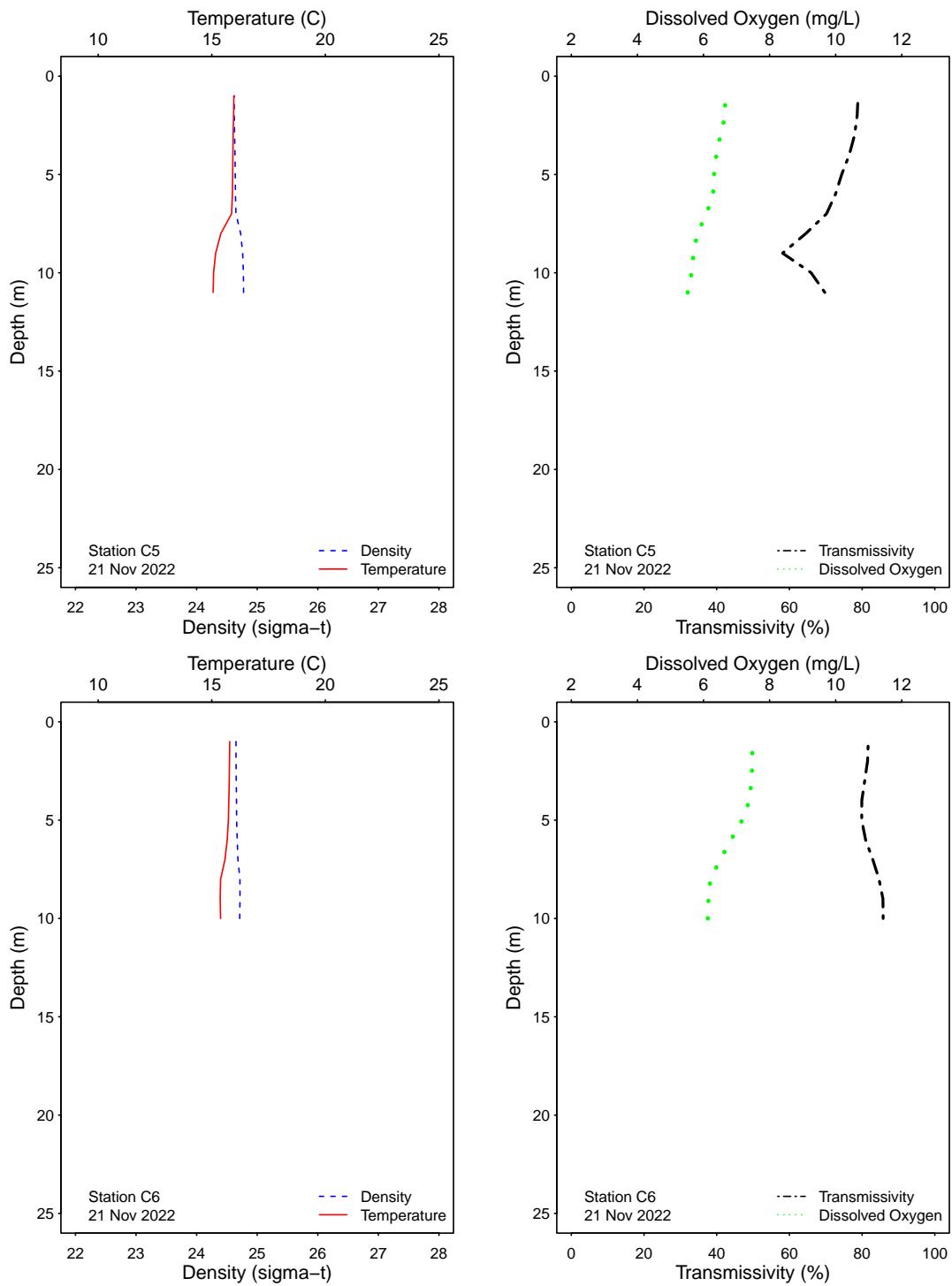


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

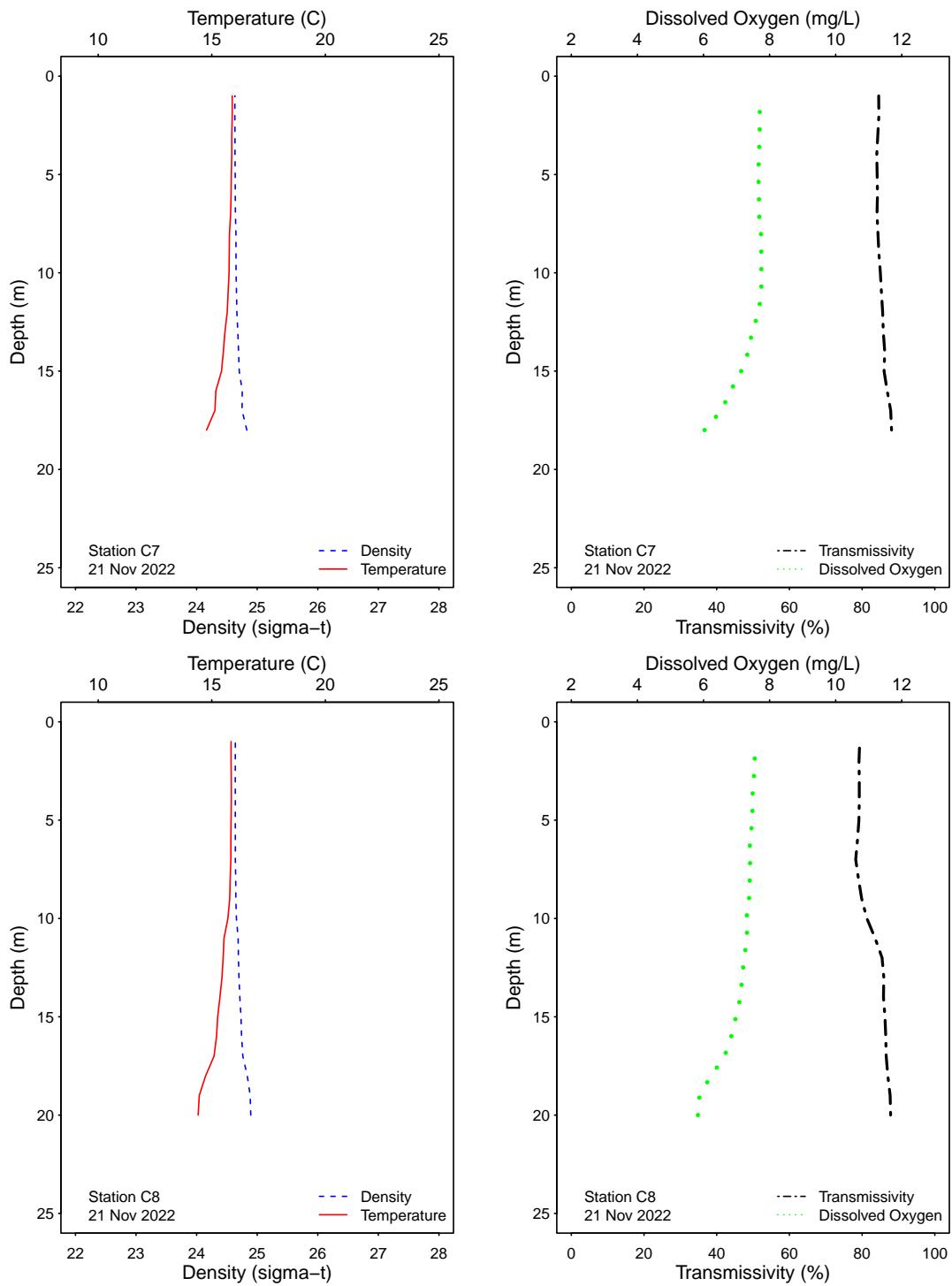


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

# 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
17 Nov 2022	IC	ns	ns	ns											
18 Nov 2022	ns	E	IC	IC											

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	17 Nov 2022	1134	1	<2	16.0	83.95	8.0	33.50	8.2
F01	17 Nov 2022	1134	12	<2	15.7	84.52	7.8	33.48	8.1
F01	17 Nov 2022	1134	18	<2	14.4	89.34	6.0	33.41	8.0
F02	17 Nov 2022	816	1	10e	16.5	88.03	7.8	33.50	8.1
F02	17 Nov 2022	816	12	2e	15.7	89.09	7.0	33.46	8.1
F02	17 Nov 2022	816	18	<2	13.9	90.25	6.1	33.41	8.0
F03	17 Nov 2022	833	1	<2	16.4	86.56	7.8	33.53	8.1
F03	17 Nov 2022	833	12	<2	16.4	87.34	7.7	33.53	8.1
F03	17 Nov 2022	833	18	<2	15.3	88.43	6.6	33.46	8.0
F04	17 Nov 2022	1114	1	<2	16.9	89.90	7.8	33.54	8.2
F04	17 Nov 2022	1114	25	<2	13.9	91.69	6.2	33.39	8.0
F04	17 Nov 2022	1114	60	<2	12.2	91.46	4.8	33.48	7.9
F05	17 Nov 2022	1101	1	<2	16.9	87.94	7.7	33.54	8.2
F05	17 Nov 2022	1101	25	<2	13.7	91.56	6.1	33.39	8.0
F05	17 Nov 2022	1101	60	<2	11.9	89.92	4.6	33.54	7.8
F06	17 Nov 2022	1044	1	<2	16.6	85.62	NA	NA	8.2
F06	17 Nov 2022	1044	25	<2	14.2	90.41	6.1	33.43	8.0
F06	17 Nov 2022	1044	60	<2	12.1	89.21	4.8	33.51	7.9
F07	17 Nov 2022	1032	1	<2	16.9	90.01	7.8	33.54	8.2
F07	17 Nov 2022	1032	25	<2	13.9	90.92	6.4	33.40	8.0
F07	17 Nov 2022	1032	60	<2	12.2	91.87	5.2	33.47	7.9
F08	17 Nov 2022	1018	1	<2	17.1	90.72	7.8	33.54	8.2
F08	17 Nov 2022	1018	25	<2	13.7	90.93	6.5	33.37	8.0
F08	17 Nov 2022	1018	60	<2	12.3	89.85	4.9	33.48	7.9
F09	17 Nov 2022	1007	1	<2	17.1	90.90	7.8	33.54	8.2
F09	17 Nov 2022	1007	25	<2	13.7	91.00	6.5	33.37	8.0
F09	17 Nov 2022	1007	60	<2	12.2	88.69	4.8	33.49	7.9
F10	17 Nov 2022	947	1	<2	16.9	90.07	7.8	33.54	8.2
F10	17 Nov 2022	947	25	<2	13.9	90.90	6.3	33.40	8.0
F10	17 Nov 2022	947	60	8e	12.1	87.75	4.7	33.51	7.8
F11	17 Nov 2022	936	1	<2	16.9	90.03	7.8	33.54	8.2
F11	17 Nov 2022	936	25	<2	13.4	90.51	6.4	33.37	8.0
F11	17 Nov 2022	936	60	<2	12.1	86.80	4.7	33.51	7.8
F12	17 Nov 2022	923	1	<2	16.9	90.33	7.7	33.54	8.2
F12	17 Nov 2022	923	25	<2	14.0	89.90	6.8	33.36	8.1
F12	17 Nov 2022	923	60	2e	12.0	89.38	4.6	33.52	7.8
F13	17 Nov 2022	905	1	<2	16.8	89.88	7.8	33.54	8.2
F13	17 Nov 2022	905	25	<2	13.8	89.92	6.7	33.36	8.0
F13	17 Nov 2022	905	60	4e	11.9	89.82	4.7	33.53	7.8

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F14	17 Nov 2022	849	1	<2	16.9	90.33	7.8	33.54	8.1
F14	17 Nov 2022	849	25	<2	13.9	90.13	6.7	33.36	8.0
F14	17 Nov 2022	849	60	2e	11.9	90.33	4.8	33.53	7.8
F15	18 Nov 2022	1135	1	<2	17.0	90.91	7.7	33.55	8.2
F15	18 Nov 2022	1135	25	<2	13.9	91.82	6.4	33.39	8.0
F15	18 Nov 2022	1135	60	<2	12.1	92.61	5.2	33.48	7.9
F15	18 Nov 2022	1135	80	<2	11.6	91.45	4.2	33.61	7.8
F16	18 Nov 2022	1122	1	<2	17.1	91.13	7.7	33.54	8.2
F16	18 Nov 2022	1122	25	<2	14.0	91.19	6.3	33.40	8.0
F16	18 Nov 2022	1122	60	<2	12.0	91.16	4.7	33.51	7.9
F16	18 Nov 2022	1122	80	<2	11.4	88.34	4.0	33.65	7.8
F17	18 Nov 2022	1109	1	<2	17.1	91.29	7.8	33.55	8.2
F17	18 Nov 2022	1109	25	<2	14.1	90.83	6.4	33.39	8.0
F17	18 Nov 2022	1109	60	<2	12.0	90.79	4.7	33.51	7.9
F17	18 Nov 2022	1109	80	<2	11.4	89.01	4.1	33.65	7.8
F18	18 Nov 2022	1054	1	<2	17.2	90.75	7.7	33.55	8.2
F18	18 Nov 2022	1054	25	<2	14.2	90.14	6.8	33.38	8.1
F18	18 Nov 2022	1054	60	<2	12.0	92.32	4.8	33.52	7.9
F18	18 Nov 2022	1054	80	10e	11.4	84.29	3.8	33.64	7.8
F19	18 Nov 2022	1040	1	<2	17.1	91.17	7.7	33.55	8.2
F19	18 Nov 2022	1040	25	<2	13.9	89.60	6.9	33.37	8.1
F19	18 Nov 2022	1040	60	320e	11.8	92.02	4.5	33.51	7.8
F19	18 Nov 2022	1040	80	92	11.3	89.31	3.9	33.62	7.8
F20	18 Nov 2022	1027	1	<2	17.2	91.15	7.7	33.55	8.2
F20	18 Nov 2022	1027	25	<2	14.1	89.26	7.0	33.37	8.1
F20	18 Nov 2022	1027	60	84	11.8	92.17	4.7	33.50	7.9
F20	18 Nov 2022	1027	80	46	11.5	89.68	4.1	33.61	7.8
F21	18 Nov 2022	1013	1	<2	17.1	91.07	7.7	33.55	8.2
F21	18 Nov 2022	1013	25	<2	14.2	89.57	6.7	33.38	8.0
F21	18 Nov 2022	1013	60	4e	11.9	92.72	5.1	33.50	7.9
F21	18 Nov 2022	1013	80	300e	11.4	89.68	4.0	33.58	7.8
F22	18 Nov 2022	959	1	<2	16.9	91.05	7.7	33.55	8.2
F22	18 Nov 2022	959	25	<2	14.2	89.63	6.7	33.37	8.0
F22	18 Nov 2022	959	60	14e	12.0	92.40	4.9	33.51	7.9
F22	18 Nov 2022	959	80	180e	11.4	89.81	4.0	33.58	7.8
F23	18 Nov 2022	942	1	<2	17.1	91.15	7.7	33.55	8.2
F23	18 Nov 2022	942	25	<2	13.8	90.44	6.5	33.37	8.0
F23	18 Nov 2022	942	60	<2	12.2	92.35	5.0	33.48	7.9
F23	18 Nov 2022	942	80	200e	11.4	90.60	4.1	33.58	7.8
F24	18 Nov 2022	927	1	<2	17.2	91.59	7.7	33.55	8.2
F24	18 Nov 2022	927	25	<2	14.3	90.41	6.7	33.38	8.0
F24	18 Nov 2022	927	60	2e	11.9	92.09	4.8	33.53	7.8
F24	18 Nov 2022	927	80	52	11.4	89.70	4.0	33.63	7.8
F25	18 Nov 2022	912	1	<2	17.2	90.28	7.7	33.56	8.1
F25	18 Nov 2022	912	25	<2	14.6	89.86	7.0	33.39	8.0
F25	18 Nov 2022	912	60	<2	12.0	92.76	5.1	33.50	7.9
F25	18 Nov 2022	912	80	48	11.3	88.90	3.9	33.66	7.8
F26	15 Nov 2022	1250	1	<2	16.7	87.83	7.9	33.50	8.2
F26	15 Nov 2022	1250	25	<2	14.8	91.47	6.9	33.39	8.1

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F26	15 Nov 2022	1250	60	20e	12.1	92.65	5.2	33.48	7.9
F26	15 Nov 2022	1250	80	<2	11.3	92.53	4.2	33.67	7.8
F26	15 Nov 2022	1250	98	<2	11.0	91.73	3.8	33.76	7.8
F27	15 Nov 2022	1235	1	<2	16.8	87.77	7.8	33.49	8.2
F27	15 Nov 2022	1235	25	<2	15.7	90.44	6.9	33.41	8.1
F27	15 Nov 2022	1235	60	52	12.0	92.45	5.0	33.50	7.9
F27	15 Nov 2022	1235	80	<2	11.4	90.72	4.2	33.64	7.8
F27	15 Nov 2022	1235	98	<2	11.0	89.90	3.7	33.75	7.8
F28	15 Nov 2022	1214	1	<2	17.1	90.59	7.7	33.53	8.2
F28	15 Nov 2022	1214	25	<2	13.6	92.58	6.3	33.39	8.0
F28	15 Nov 2022	1214	60	24e	12.0	92.47	4.9	33.52	7.9
F28	15 Nov 2022	1214	80	320e	11.3	91.67	4.0	33.63	7.8
F28	15 Nov 2022	1214	98	8e	11.1	91.48	3.8	33.73	7.8
F29	15 Nov 2022	1159	1	2e	17.3	91.02	7.7	33.54	8.2
F29	15 Nov 2022	1159	25	<2	15.4	91.61	6.8	33.43	8.1
F29	15 Nov 2022	1159	60	1100	11.5	89.04	4.1	33.54	7.8
F29	15 Nov 2022	1159	80	180e	11.2	91.08	4.0	33.66	7.8
F29	15 Nov 2022	1159	98	2e	11.0	92.13	3.8	33.76	7.8
F30	15 Nov 2022	1150	1	<2	17.3	90.73	7.7	33.54	8.2
F30	15 Nov 2022	1150	25	<2	15.7	90.82	7.0	33.45	8.1
F30	15 Nov 2022	1150	60	200e	11.3	89.60	4.1	33.53	7.8
F30	15 Nov 2022	1150	80	120e	11.3	90.52	4.0	33.62	7.8
F30	15 Nov 2022	1150	98	8e	10.9	91.15	3.7	33.79	7.8
F31	15 Nov 2022	1132	1	<2	17.4	90.71	7.6	33.54	8.2
F31	15 Nov 2022	1132	25	<2	14.9	91.19	6.8	33.41	8.1
F31	15 Nov 2022	1132	60	<2	11.9	92.53	4.8	33.54	7.9
F31	15 Nov 2022	1132	80	24e	11.4	92.46	4.2	33.65	7.8
F31	15 Nov 2022	1132	98	8e	10.9	91.17	3.8	33.78	7.8
F32	15 Nov 2022	1121	1	<2	17.4	90.99	7.7	33.54	8.2
F32	15 Nov 2022	1121	25	<2	14.9	90.47	7.0	33.40	8.1
F32	15 Nov 2022	1121	60	2e	11.9	92.15	4.7	33.55	7.8
F32	15 Nov 2022	1121	80	4e	11.3	92.46	4.2	33.67	7.8
F32	15 Nov 2022	1121	98	<2	10.8	91.31	3.7	33.80	7.8
F33	15 Nov 2022	1100	1	<2	17.5	90.88	7.6	33.55	8.2
F33	15 Nov 2022	1100	25	<2	15.7	90.14	7.3	33.43	8.1
F33	15 Nov 2022	1100	60	<2	11.8	92.81	4.9	33.54	7.9
F33	15 Nov 2022	1100	80	2e	11.2	92.45	4.1	33.69	7.8
F33	15 Nov 2022	1100	98	<2	10.8	91.67	3.7	33.79	7.8
F34	15 Nov 2022	1048	1	<2	17.5	90.93	7.6	33.54	8.2
F34	15 Nov 2022	1048	25	<2	15.3	89.76	7.2	33.41	8.1
F34	15 Nov 2022	1048	60	<2	11.8	92.76	4.8	33.55	7.8
F34	15 Nov 2022	1048	80	<2	11.2	92.86	4.0	33.70	7.8
F34	15 Nov 2022	1048	98	<2	10.7	91.68	3.7	33.81	7.8
F35	15 Nov 2022	958	1	<2	17.5	91.33	7.6	33.55	8.2
F35	15 Nov 2022	958	25	<2	16.1	90.05	7.4	33.45	8.1
F35	15 Nov 2022	958	60	<2	11.8	92.82	4.8	33.54	7.9
F35	15 Nov 2022	958	80	<2	11.2	92.92	4.2	33.68	7.8
F35	15 Nov 2022	958	98	<2	10.8	91.17	3.7	33.80	7.8
F36	15 Nov 2022	933	1	<2	17.6	91.27	7.6	33.55	8.1
F36	15 Nov 2022	933	25	<2	17.2	90.78	7.5	33.53	8.1
F36	15 Nov 2022	933	60	<2	11.5	93.10	5.3	33.53	7.8

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F36	15 Nov 2022	933	80	<2	11.2	92.98	4.2	33.70	7.8
F36	15 Nov 2022	933	98	<2	10.8	92.06	3.8	33.79	7.7

ns = not sampled

ND = no data

### Comments

Station	Date	Depth	Parameter	Comments
F06	17 Nov 2022			Salinity, density, DO, and CDOM data for 1-7m were removed due to erroneous data possibly caused by bubbles

**Table 4.3**

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

Station	Date	Parameter	Value
F01	17 Nov 2022	Depth (m)	19.6
F01	17 Nov 2022	Arrive Time	1134
F01	17 Nov 2022	Depart Time	1140
F01	17 Nov 2022	Air Temp (C)	16.5
F01	17 Nov 2022	Weather	Clear
F01	17 Nov 2022	Visibility (mi)	12
F01	17 Nov 2022	Wind Speed (kts)	15.4
F01	17 Nov 2022	Wind Dir	NW
F01	17 Nov 2022	Water Color	Greenish-Blue
F01	17 Nov 2022	Wave Ht Low (ft)	2
F01	17 Nov 2022	Wave Period (sec)	13
F01	17 Nov 2022	Sea State	Light Chop
F01	17 Nov 2022	High Tide (ft)	4.08
F01	17 Nov 2022	High Tide Time	1318
F01	17 Nov 2022	Low Tide (ft)	0.78
F01	17 Nov 2022	Low Tide Time	642
F01	17 Nov 2022	Comments	Fatho 19.6m
F02	17 Nov 2022	Depth (m)	19.6
F02	17 Nov 2022	Arrive Time	816
F02	17 Nov 2022	Depart Time	823
F02	17 Nov 2022	Air Temp (C)	12.7
F02	17 Nov 2022	Weather	Clear
F02	17 Nov 2022	Visibility (mi)	12
F02	17 Nov 2022	Wind Speed (kts)	7.4
F02	17 Nov 2022	Wind Dir	N
F02	17 Nov 2022	Water Color	Greenish-Blue
F02	17 Nov 2022	Wave Ht Low (ft)	2
F02	17 Nov 2022	Wave Period (sec)	13
F02	17 Nov 2022	Sea State	Light Chop
F02	17 Nov 2022	High Tide (ft)	4.08
F02	17 Nov 2022	High Tide Time	1318
F02	17 Nov 2022	Low Tide (ft)	0.78
F02	17 Nov 2022	Low Tide Time	642
F02	17 Nov 2022	Comments	Depth not reading; Fatho 19.6m
F03	17 Nov 2022	Depth (m)	19.3
F03	17 Nov 2022	Arrive Time	833
F03	17 Nov 2022	Depart Time	837
F03	17 Nov 2022	Air Temp (C)	13.4
F03	17 Nov 2022	Weather	Clear
F03	17 Nov 2022	Visibility (mi)	12
F03	17 Nov 2022	Wind Speed (kts)	4
F03	17 Nov 2022	Wind Dir	NE
F03	17 Nov 2022	Water Color	Greenish-Blue
F03	17 Nov 2022	Wave Ht Low (ft)	2
F03	17 Nov 2022	Wave Period (sec)	13
F03	17 Nov 2022	Sea State	Light Chop
F03	17 Nov 2022	High Tide (ft)	4.08
F03	17 Nov 2022	High Tide Time	1318
F03	17 Nov 2022	Low Tide (ft)	0.78
F03	17 Nov 2022	Low Tide Time	642
F03	17 Nov 2022	Comments	Fatho depth 19.3m
F04	17 Nov 2022	Depth (m)	60.7
F04	17 Nov 2022	Arrive Time	1114

Station	Date	Parameter	Value
F04	17 Nov 2022	Depart Time	1120
F04	17 Nov 2022	Air Temp (C)	16.1
F04	17 Nov 2022	Weather	Clear
F04	17 Nov 2022	Visibility (mi)	12
F04	17 Nov 2022	Wind Speed (kts)	1.2
F04	17 Nov 2022	Wind Dir	S
F04	17 Nov 2022	Water Color	Greenish-Blue
F04	17 Nov 2022	Wave Ht Low (ft)	2
F04	17 Nov 2022	Wave Period (sec)	13
F04	17 Nov 2022	Sea State	Calm
F04	17 Nov 2022	High Tide (ft)	4.08
F04	17 Nov 2022	High Tide Time	1318
F04	17 Nov 2022	Low Tide (ft)	0.78
F04	17 Nov 2022	Low Tide Time	642
F04	17 Nov 2022	Comments	Fatho 60.7m
F05	17 Nov 2022	Depth (m)	60
F05	17 Nov 2022	Arrive Time	1101
F05	17 Nov 2022	Depart Time	1109
F05	17 Nov 2022	Air Temp (C)	16
F05	17 Nov 2022	Weather	Clear
F05	17 Nov 2022	Visibility (mi)	12
F05	17 Nov 2022	Wind Speed (kts)	9.2
F05	17 Nov 2022	Wind Dir	N
F05	17 Nov 2022	Water Color	Greenish-Blue
F05	17 Nov 2022	Wave Ht Low (ft)	2
F05	17 Nov 2022	Wave Period (sec)	13
F05	17 Nov 2022	Sea State	Calm
F05	17 Nov 2022	High Tide (ft)	4.08
F05	17 Nov 2022	High Tide Time	1318
F05	17 Nov 2022	Low Tide (ft)	0.78
F05	17 Nov 2022	Low Tide Time	642
F05	17 Nov 2022	Comments	Fatho 60.7m
F06	17 Nov 2022	Depth (m)	60
F06	17 Nov 2022	Arrive Time	1044
F06	17 Nov 2022	Depart Time	1053
F06	17 Nov 2022	Air Temp (C)	16.1
F06	17 Nov 2022	Weather	Clear
F06	17 Nov 2022	Visibility (mi)	12
F06	17 Nov 2022	Wind Speed (kts)	6.5
F06	17 Nov 2022	Wind Dir	SE
F06	17 Nov 2022	Water Color	Greenish-Blue
F06	17 Nov 2022	Wave Ht Low (ft)	2
F06	17 Nov 2022	Wave Period (sec)	13
F06	17 Nov 2022	Sea State	Calm
F06	17 Nov 2022	High Tide (ft)	4.08
F06	17 Nov 2022	High Tide Time	1318
F06	17 Nov 2022	Low Tide (ft)	0.78
F06	17 Nov 2022	Low Tide Time	642
F06	17 Nov 2022	Comments	Fatho 60.9m; Salinity, DO, and CDOM data for 1-7m were removed due to erroneous data possibly caused by bubbles
F07	17 Nov 2022	Depth (m)	63.4
F07	17 Nov 2022	Arrive Time	1032
F07	17 Nov 2022	Depart Time	1038
F07	17 Nov 2022	Air Temp (C)	15.8
F07	17 Nov 2022	Weather	Clear
F07	17 Nov 2022	Visibility (mi)	12
F07	17 Nov 2022	Wind Speed (kts)	4.3
F07	17 Nov 2022	Wind Dir	SE

Station	Date	Parameter	Value
F07	17 Nov 2022	Water Color	Greenish-Blue
F07	17 Nov 2022	Wave Ht Low (ft)	2
F07	17 Nov 2022	Wave Period (sec)	13
F07	17 Nov 2022	Sea State	Calm
F07	17 Nov 2022	High Tide (ft)	4.08
F07	17 Nov 2022	High Tide Time	1318
F07	17 Nov 2022	Low Tide (ft)	0.78
F07	17 Nov 2022	Low Tide Time	642
F07	17 Nov 2022	Comments	Fatho 63.4m
F08	17 Nov 2022	Depth (m)	61.8
F08	17 Nov 2022	Arrive Time	1018
F08	17 Nov 2022	Depart Time	1025
F08	17 Nov 2022	Air Temp (C)	17
F08	17 Nov 2022	Weather	Clear
F08	17 Nov 2022	Visibility (mi)	12
F08	17 Nov 2022	Wind Speed (kts)	1.8
F08	17 Nov 2022	Wind Dir	SE
F08	17 Nov 2022	Water Color	Greenish-Blue
F08	17 Nov 2022	Wave Ht Low (ft)	2
F08	17 Nov 2022	Wave Period (sec)	13
F08	17 Nov 2022	Sea State	Calm
F08	17 Nov 2022	High Tide (ft)	4.08
F08	17 Nov 2022	High Tide Time	1318
F08	17 Nov 2022	Low Tide (ft)	0.78
F08	17 Nov 2022	Low Tide Time	642
F08	17 Nov 2022	Comments	Fatho 61.8m
F09	17 Nov 2022	Depth (m)	61
F09	17 Nov 2022	Arrive Time	1007
F09	17 Nov 2022	Depart Time	1012
F09	17 Nov 2022	Air Temp (C)	17
F09	17 Nov 2022	Weather	Clear
F09	17 Nov 2022	Visibility (mi)	12
F09	17 Nov 2022	Wind Speed (kts)	0
F09	17 Nov 2022	Wind Dir	SE
F09	17 Nov 2022	Water Color	Greenish-Blue
F09	17 Nov 2022	Wave Ht Low (ft)	2
F09	17 Nov 2022	Wave Period (sec)	13
F09	17 Nov 2022	Sea State	Light Chop
F09	17 Nov 2022	High Tide (ft)	4.08
F09	17 Nov 2022	High Tide Time	1318
F09	17 Nov 2022	Low Tide (ft)	0.78
F09	17 Nov 2022	Low Tide Time	642
F09	17 Nov 2022	Comments	Fatho 61.5
F10	17 Nov 2022	Depth (m)	60.9
F10	17 Nov 2022	Arrive Time	947
F10	17 Nov 2022	Depart Time	1001
F10	17 Nov 2022	Air Temp (C)	16.7
F10	17 Nov 2022	Weather	Clear
F10	17 Nov 2022	Visibility (mi)	12
F10	17 Nov 2022	Wind Speed (kts)	0.3
F10	17 Nov 2022	Wind Dir	E
F10	17 Nov 2022	Water Color	Greenish-Blue
F10	17 Nov 2022	Wave Ht Low (ft)	2
F10	17 Nov 2022	Wave Period (sec)	13
F10	17 Nov 2022	Sea State	Light Chop
F10	17 Nov 2022	High Tide (ft)	4.08
F10	17 Nov 2022	High Tide Time	1318
F10	17 Nov 2022	Low Tide (ft)	0.78

Station	Date	Parameter	Value
F10	17 Nov 2022	Low Tide Time	642
F10	17 Nov 2022	Comments	Fatho 60.9
F11	17 Nov 2022	Depth (m)	60
F11	17 Nov 2022	Arrive Time	936
F11	17 Nov 2022	Depart Time	940
F11	17 Nov 2022	Air Temp (C)	16.7
F11	17 Nov 2022	Weather	Clear
F11	17 Nov 2022	Visibility (mi)	12
F11	17 Nov 2022	Wind Speed (kts)	0
F11	17 Nov 2022	Wind Dir	NE
F11	17 Nov 2022	Water Color	Greenish-Blue
F11	17 Nov 2022	Wave Ht Low (ft)	2
F11	17 Nov 2022	Wave Period (sec)	13
F11	17 Nov 2022	Sea State	Light Chop
F11	17 Nov 2022	High Tide (ft)	4.08
F11	17 Nov 2022	High Tide Time	1318
F11	17 Nov 2022	Low Tide (ft)	0.78
F11	17 Nov 2022	Low Tide Time	642
F11	17 Nov 2022	Comments	Fatho 60
F12	17 Nov 2022	Depth (m)	61.1
F12	17 Nov 2022	Arrive Time	923
F12	17 Nov 2022	Depart Time	928
F12	17 Nov 2022	Air Temp (C)	15.9
F12	17 Nov 2022	Weather	Clear
F12	17 Nov 2022	Visibility (mi)	12
F12	17 Nov 2022	Wind Speed (kts)	0.7
F12	17 Nov 2022	Wind Dir	NE
F12	17 Nov 2022	Water Color	Greenish-Blue
F12	17 Nov 2022	Wave Ht Low (ft)	2
F12	17 Nov 2022	Wave Period (sec)	13
F12	17 Nov 2022	Sea State	Light Chop
F12	17 Nov 2022	High Tide (ft)	4.08
F12	17 Nov 2022	High Tide Time	1318
F12	17 Nov 2022	Low Tide (ft)	0.78
F12	17 Nov 2022	Low Tide Time	642
F12	17 Nov 2022	Comments	Fatho 61.1m
F13	17 Nov 2022	Depth (m)	60.1
F13	17 Nov 2022	Arrive Time	905
F13	17 Nov 2022	Depart Time	916
F13	17 Nov 2022	Air Temp (C)	15.4
F13	17 Nov 2022	Weather	Clear
F13	17 Nov 2022	Visibility (mi)	12
F13	17 Nov 2022	Wind Speed (kts)	1.7
F13	17 Nov 2022	Wind Dir	E
F13	17 Nov 2022	Water Color	Greenish-Blue
F13	17 Nov 2022	Wave Ht Low (ft)	2
F13	17 Nov 2022	Wave Period (sec)	13
F13	17 Nov 2022	Sea State	Light Chop
F13	17 Nov 2022	High Tide (ft)	4.08
F13	17 Nov 2022	High Tide Time	1318
F13	17 Nov 2022	Low Tide (ft)	0.78
F13	17 Nov 2022	Low Tide Time	642
F13	17 Nov 2022	Comments	Fatho 60.5m
F14	17 Nov 2022	Depth (m)	60.1
F14	17 Nov 2022	Arrive Time	849
F14	17 Nov 2022	Depart Time	854
F14	17 Nov 2022	Air Temp (C)	14.4

Station	Date	Parameter	Value
F14	17 Nov 2022	Weather	Clear
F14	17 Nov 2022	Visibility (mi)	12
F14	17 Nov 2022	Wind Speed (kts)	0
F14	17 Nov 2022	Wind Dir	NE
F14	17 Nov 2022	Water Color	Greenish-Blue
F14	17 Nov 2022	Wave Ht Low (ft)	2
F14	17 Nov 2022	Wave Period (sec)	13
F14	17 Nov 2022	Sea State	Light Chop
F14	17 Nov 2022	High Tide (ft)	4.08
F14	17 Nov 2022	High Tide Time	1318
F14	17 Nov 2022	Low Tide (ft)	0.78
F14	17 Nov 2022	Low Tide Time	642
F14	17 Nov 2022	Comments	Fatho 60.1m
F15	18 Nov 2022	Depth (m)	81
F15	18 Nov 2022	Arrive Time	1135
F15	18 Nov 2022	Depart Time	1151
F15	18 Nov 2022	Air Temp (C)	15.5
F15	18 Nov 2022	Weather	Clear
F15	18 Nov 2022	Visibility (mi)	12
F15	18 Nov 2022	Wind Speed (kts)	8
F15	18 Nov 2022	Wind Dir	SW
F15	18 Nov 2022	Water Color	Greenish-Blue
F15	18 Nov 2022	Wave Ht Low (ft)	4
F15	18 Nov 2022	Wave Period (sec)	15
F15	18 Nov 2022	Sea State	Calm
F15	18 Nov 2022	High Tide (ft)	4.43
F15	18 Nov 2022	High Tide Time	1342
F15	18 Nov 2022	Low Tide (ft)	0.84
F15	18 Nov 2022	Low Tide Time	718
F15	18 Nov 2022	Comments	none
F16	18 Nov 2022	Depth (m)	81
F16	18 Nov 2022	Arrive Time	1122
F16	18 Nov 2022	Depart Time	1128
F16	18 Nov 2022	Air Temp (C)	15.3
F16	18 Nov 2022	Weather	Clear
F16	18 Nov 2022	Visibility (mi)	12
F16	18 Nov 2022	Wind Speed (kts)	7.9
F16	18 Nov 2022	Wind Dir	SW
F16	18 Nov 2022	Water Color	Greenish-Blue
F16	18 Nov 2022	Wave Ht Low (ft)	4
F16	18 Nov 2022	Wave Period (sec)	15
F16	18 Nov 2022	Sea State	Calm
F16	18 Nov 2022	High Tide (ft)	4.43
F16	18 Nov 2022	High Tide Time	1342
F16	18 Nov 2022	Low Tide (ft)	0.84
F16	18 Nov 2022	Low Tide Time	718
F16	18 Nov 2022	Comments	none
F17	18 Nov 2022	Depth (m)	82
F17	18 Nov 2022	Arrive Time	1109
F17	18 Nov 2022	Depart Time	1113
F17	18 Nov 2022	Air Temp (C)	15.4
F17	18 Nov 2022	Weather	Clear
F17	18 Nov 2022	Visibility (mi)	12
F17	18 Nov 2022	Wind Speed (kts)	8.8
F17	18 Nov 2022	Wind Dir	S
F17	18 Nov 2022	Water Color	Greenish-Blue
F17	18 Nov 2022	Wave Ht Low (ft)	4
F17	18 Nov 2022	Wave Period (sec)	15

Station	Date	Parameter	Value
F17	18 Nov 2022	Sea State	Calm
F17	18 Nov 2022	High Tide (ft)	4.43
F17	18 Nov 2022	High Tide Time	1342
F17	18 Nov 2022	Low Tide (ft)	0.84
F17	18 Nov 2022	Low Tide Time	718
F17	18 Nov 2022	Comments	none
F18	18 Nov 2022	Depth (m)	82
F18	18 Nov 2022	Arrive Time	1054
F18	18 Nov 2022	Depart Time	1101
F18	18 Nov 2022	Air Temp (C)	15.4
F18	18 Nov 2022	Weather	Clear
F18	18 Nov 2022	Visibility (mi)	12
F18	18 Nov 2022	Wind Speed (kts)	6.6
F18	18 Nov 2022	Wind Dir	SW
F18	18 Nov 2022	Water Color	Greenish-Blue
F18	18 Nov 2022	Wave Ht Low (ft)	4
F18	18 Nov 2022	Wave Period (sec)	15
F18	18 Nov 2022	Sea State	Calm
F18	18 Nov 2022	High Tide (ft)	4.43
F18	18 Nov 2022	High Tide Time	1342
F18	18 Nov 2022	Low Tide (ft)	0.84
F18	18 Nov 2022	Low Tide Time	718
F18	18 Nov 2022	Comments	none
F19	18 Nov 2022	Depth (m)	82
F19	18 Nov 2022	Arrive Time	1040
F19	18 Nov 2022	Depart Time	1045
F19	18 Nov 2022	Air Temp (C)	15.5
F19	18 Nov 2022	Weather	Clear
F19	18 Nov 2022	Visibility (mi)	12
F19	18 Nov 2022	Wind Speed (kts)	6.7
F19	18 Nov 2022	Wind Dir	S
F19	18 Nov 2022	Water Color	Greenish-Blue
F19	18 Nov 2022	Wave Ht Low (ft)	4
F19	18 Nov 2022	Wave Period (sec)	15
F19	18 Nov 2022	Sea State	Calm
F19	18 Nov 2022	High Tide (ft)	4.43
F19	18 Nov 2022	High Tide Time	1342
F19	18 Nov 2022	Low Tide (ft)	0.84
F19	18 Nov 2022	Low Tide Time	718
F19	18 Nov 2022	Comments	none
F20	18 Nov 2022	Depth (m)	82
F20	18 Nov 2022	Arrive Time	1027
F20	18 Nov 2022	Depart Time	1032
F20	18 Nov 2022	Air Temp (C)	15.5
F20	18 Nov 2022	Weather	Clear
F20	18 Nov 2022	Visibility (mi)	12
F20	18 Nov 2022	Wind Speed (kts)	5
F20	18 Nov 2022	Wind Dir	SE
F20	18 Nov 2022	Water Color	Greenish-Blue
F20	18 Nov 2022	Wave Ht Low (ft)	4
F20	18 Nov 2022	Wave Period (sec)	15
F20	18 Nov 2022	Sea State	Calm
F20	18 Nov 2022	High Tide (ft)	4.43
F20	18 Nov 2022	High Tide Time	1342
F20	18 Nov 2022	Low Tide (ft)	0.84
F20	18 Nov 2022	Low Tide Time	718
F20	18 Nov 2022	Comments	none

Station	Date	Parameter	Value
F21	18 Nov 2022	Depth (m)	83
F21	18 Nov 2022	Arrive Time	1013
F21	18 Nov 2022	Depart Time	1017
F21	18 Nov 2022	Air Temp (C)	15.6
F21	18 Nov 2022	Weather	Clear
F21	18 Nov 2022	Visibility (mi)	12
F21	18 Nov 2022	Wind Speed (kts)	4.7
F21	18 Nov 2022	Wind Dir	SE
F21	18 Nov 2022	Water Color	Greenish-Blue
F21	18 Nov 2022	Wave Ht Low (ft)	4
F21	18 Nov 2022	Wave Period (sec)	15
F21	18 Nov 2022	Sea State	Calm
F21	18 Nov 2022	High Tide (ft)	4.43
F21	18 Nov 2022	High Tide Time	1342
F21	18 Nov 2022	Low Tide (ft)	0.84
F21	18 Nov 2022	Low Tide Time	718
F21	18 Nov 2022	Comments	none
F22	18 Nov 2022	Depth (m)	81
F22	18 Nov 2022	Arrive Time	959
F22	18 Nov 2022	Depart Time	1005
F22	18 Nov 2022	Air Temp (C)	15.4
F22	18 Nov 2022	Weather	Clear
F22	18 Nov 2022	Visibility (mi)	12
F22	18 Nov 2022	Wind Speed (kts)	4.1
F22	18 Nov 2022	Wind Dir	SE
F22	18 Nov 2022	Water Color	Greenish-Blue
F22	18 Nov 2022	Wave Ht Low (ft)	4
F22	18 Nov 2022	Wave Period (sec)	15
F22	18 Nov 2022	Sea State	Calm
F22	18 Nov 2022	High Tide (ft)	4.43
F22	18 Nov 2022	High Tide Time	1342
F22	18 Nov 2022	Low Tide (ft)	0.84
F22	18 Nov 2022	Low Tide Time	718
F22	18 Nov 2022	Comments	none
F24	18 Nov 2022	Depth (m)	82
F24	18 Nov 2022	Arrive Time	927
F24	18 Nov 2022	Depart Time	932
F24	18 Nov 2022	Air Temp (C)	15.1
F24	18 Nov 2022	Weather	Clear
F24	18 Nov 2022	Visibility (mi)	12
F24	18 Nov 2022	Wind Speed (kts)	6.6
F24	18 Nov 2022	Wind Dir	SE
F24	18 Nov 2022	Water Color	Greenish-Blue
F24	18 Nov 2022	Wave Ht Low (ft)	4
F24	18 Nov 2022	Wave Period (sec)	15
F24	18 Nov 2022	Sea State	Calm
F24	18 Nov 2022	High Tide (ft)	4.43
F24	18 Nov 2022	High Tide Time	1342
F24	18 Nov 2022	Low Tide (ft)	0.84
F24	18 Nov 2022	Low Tide Time	718
F24	18 Nov 2022	Comments	none
F25	18 Nov 2022	Depth (m)	80
F25	18 Nov 2022	Arrive Time	912
F25	18 Nov 2022	Depart Time	917
F25	18 Nov 2022	Air Temp (C)	14.9
F25	18 Nov 2022	Weather	Clear
F25	18 Nov 2022	Visibility (mi)	12
F25	18 Nov 2022	Wind Speed (kts)	7.5

Station	Date	Parameter	Value
F25	18 Nov 2022	Wind Dir	SE
F25	18 Nov 2022	Water Color	Greenish-Blue
F25	18 Nov 2022	Wave Ht Low (ft)	4
F25	18 Nov 2022	Wave Period (sec)	15
F25	18 Nov 2022	Sea State	Calm
F25	18 Nov 2022	High Tide (ft)	4.43
F25	18 Nov 2022	High Tide Time	1342
F25	18 Nov 2022	Low Tide (ft)	0.84
F25	18 Nov 2022	Low Tide Time	718
F25	18 Nov 2022	Comments	none
F26	15 Nov 2022	Depth (m)	98.1
F26	15 Nov 2022	Arrive Time	1250
F26	15 Nov 2022	Depart Time	1255
F26	15 Nov 2022	Air Temp (C)	17
F26	15 Nov 2022	Weather	Clear
F26	15 Nov 2022	Visibility (mi)	10
F26	15 Nov 2022	Wind Speed (kts)	4.7
F26	15 Nov 2022	Wind Dir	W
F26	15 Nov 2022	Water Color	Greenish-Blue
F26	15 Nov 2022	Wave Ht Low (ft)	4
F26	15 Nov 2022	Wave Period (sec)	17
F26	15 Nov 2022	Sea State	Light Chop
F26	15 Nov 2022	High Tide (ft)	4.11
F26	15 Nov 2022	High Tide Time	2048
F26	15 Nov 2022	Low Tide (ft)	0.75
F26	15 Nov 2022	Low Tide Time	512
F26	15 Nov 2022	Comments	none
F27	15 Nov 2022	Depth (m)	99.1
F27	15 Nov 2022	Arrive Time	1235
F27	15 Nov 2022	Depart Time	1240
F27	15 Nov 2022	Air Temp (C)	16.7
F27	15 Nov 2022	Weather	Clear
F27	15 Nov 2022	Visibility (mi)	10
F27	15 Nov 2022	Wind Speed (kts)	2.6
F27	15 Nov 2022	Wind Dir	W
F27	15 Nov 2022	Water Color	Greenish-Blue
F27	15 Nov 2022	Wave Ht Low (ft)	4
F27	15 Nov 2022	Wave Period (sec)	17
F27	15 Nov 2022	Sea State	Light Chop
F27	15 Nov 2022	High Tide (ft)	4.11
F27	15 Nov 2022	High Tide Time	2048
F27	15 Nov 2022	Low Tide (ft)	0.75
F27	15 Nov 2022	Low Tide Time	512
F27	15 Nov 2022	Comments	none
F28	15 Nov 2022	Depth (m)	98.9
F28	15 Nov 2022	Arrive Time	1214
F28	15 Nov 2022	Depart Time	1220
F28	15 Nov 2022	Air Temp (C)	16.4
F28	15 Nov 2022	Weather	Clear
F28	15 Nov 2022	Visibility (mi)	10
F28	15 Nov 2022	Wind Speed (kts)	5.7
F28	15 Nov 2022	Wind Dir	W
F28	15 Nov 2022	Water Color	Greenish-Blue
F28	15 Nov 2022	Wave Ht Low (ft)	4
F28	15 Nov 2022	Wave Period (sec)	17
F28	15 Nov 2022	Sea State	Light Chop
F28	15 Nov 2022	High Tide (ft)	4.11
F28	15 Nov 2022	High Tide Time	2048

Station	Date	Parameter	Value
F28	15 Nov 2022	Low Tide (ft)	0.75
F28	15 Nov 2022	Low Tide Time	512
F28	15 Nov 2022	Comments	none
F29	15 Nov 2022	Depth (m)	98.9
F29	15 Nov 2022	Arrive Time	1159
F29	15 Nov 2022	Depart Time	1206
F29	15 Nov 2022	Air Temp (C)	16.4
F29	15 Nov 2022	Weather	Clear
F29	15 Nov 2022	Visibility (mi)	10
F29	15 Nov 2022	Wind Speed (kts)	6.8
F29	15 Nov 2022	Wind Dir	W
F29	15 Nov 2022	Water Color	Greenish-Blue
F29	15 Nov 2022	Wave Ht Low (ft)	4
F29	15 Nov 2022	Wave Period (sec)	17
F29	15 Nov 2022	Sea State	Light Chop
F29	15 Nov 2022	High Tide (ft)	4.11
F29	15 Nov 2022	High Tide Time	2048
F29	15 Nov 2022	Low Tide (ft)	0.75
F29	15 Nov 2022	Low Tide Time	512
F29	15 Nov 2022	Comments	none
F30	15 Nov 2022	Depth (m)	98
F30	15 Nov 2022	Arrive Time	1150
F30	15 Nov 2022	Depart Time	1153
F30	15 Nov 2022	Air Temp (C)	16.7
F30	15 Nov 2022	Weather	Clear
F30	15 Nov 2022	Visibility (mi)	10
F30	15 Nov 2022	Wind Speed (kts)	6.6
F30	15 Nov 2022	Wind Dir	W
F30	15 Nov 2022	Water Color	Greenish-Blue
F30	15 Nov 2022	Wave Ht Low (ft)	4
F30	15 Nov 2022	Wave Period (sec)	17
F30	15 Nov 2022	Sea State	Calm
F30	15 Nov 2022	High Tide (ft)	4.11
F30	15 Nov 2022	High Tide Time	2048
F30	15 Nov 2022	Low Tide (ft)	0.75
F30	15 Nov 2022	Low Tide Time	512
F30	15 Nov 2022	Comments	5-10 Birds on station
F31	15 Nov 2022	Depth (m)	98
F31	15 Nov 2022	Arrive Time	1132
F31	15 Nov 2022	Depart Time	1139
F31	15 Nov 2022	Air Temp (C)	16.2
F31	15 Nov 2022	Weather	Clear
F31	15 Nov 2022	Visibility (mi)	10
F31	15 Nov 2022	Wind Speed (kts)	4.8
F31	15 Nov 2022	Wind Dir	W
F31	15 Nov 2022	Water Color	Greenish-Blue
F31	15 Nov 2022	Wave Ht Low (ft)	4
F31	15 Nov 2022	Wave Period (sec)	17
F31	15 Nov 2022	Sea State	Calm
F31	15 Nov 2022	High Tide (ft)	4.11
F31	15 Nov 2022	High Tide Time	2048
F31	15 Nov 2022	Low Tide (ft)	0.75
F31	15 Nov 2022	Low Tide Time	512
F31	15 Nov 2022	Comments	none
F32	15 Nov 2022	Depth (m)	98
F32	15 Nov 2022	Arrive Time	1121
F32	15 Nov 2022	Depart Time	1125

Station	Date	Parameter	Value
F32	15 Nov 2022	Air Temp (C)	16.7
F32	15 Nov 2022	Weather	Clear
F32	15 Nov 2022	Visibility (mi)	10
F32	15 Nov 2022	Wind Speed (kts)	3.9
F32	15 Nov 2022	Wind Dir	W
F32	15 Nov 2022	Water Color	Greenish-Blue
F32	15 Nov 2022	Wave Ht Low (ft)	4
F32	15 Nov 2022	Wave Period (sec)	17
F32	15 Nov 2022	Sea State	Calm
F32	15 Nov 2022	High Tide (ft)	4.11
F32	15 Nov 2022	High Tide Time	2048
F32	15 Nov 2022	Low Tide (ft)	0.75
F32	15 Nov 2022	Low Tide Time	512
F32	15 Nov 2022	Comments	none
F33	15 Nov 2022	Depth (m)	100
F33	15 Nov 2022	Arrive Time	1100
F33	15 Nov 2022	Depart Time	1106
F33	15 Nov 2022	Air Temp (C)	16.5
F33	15 Nov 2022	Weather	Clear
F33	15 Nov 2022	Visibility (mi)	10
F33	15 Nov 2022	Wind Speed (kts)	1.1
F33	15 Nov 2022	Wind Dir	SW
F33	15 Nov 2022	Water Color	Greenish-Blue
F33	15 Nov 2022	Wave Ht Low (ft)	4
F33	15 Nov 2022	Wave Period (sec)	17
F33	15 Nov 2022	Sea State	Calm
F33	15 Nov 2022	High Tide (ft)	4.11
F33	15 Nov 2022	High Tide Time	2048
F33	15 Nov 2022	Low Tide (ft)	0.75
F33	15 Nov 2022	Low Tide Time	512
F33	15 Nov 2022	Comments	none
F34	15 Nov 2022	Depth (m)	100
F34	15 Nov 2022	Arrive Time	1048
F34	15 Nov 2022	Depart Time	1052
F34	15 Nov 2022	Air Temp (C)	16
F34	15 Nov 2022	Weather	Clear
F34	15 Nov 2022	Visibility (mi)	10
F34	15 Nov 2022	Wind Speed (kts)	3.2
F34	15 Nov 2022	Wind Dir	W
F34	15 Nov 2022	Water Color	Greenish-Blue
F34	15 Nov 2022	Wave Ht Low (ft)	4
F34	15 Nov 2022	Wave Period (sec)	17
F34	15 Nov 2022	Sea State	Calm
F34	15 Nov 2022	High Tide (ft)	4.11
F34	15 Nov 2022	High Tide Time	2048
F34	15 Nov 2022	Low Tide (ft)	0.75
F34	15 Nov 2022	Low Tide Time	512
F34	15 Nov 2022	Comments	none
F35	15 Nov 2022	Depth (m)	101
F35	15 Nov 2022	Arrive Time	958
F35	15 Nov 2022	Depart Time	1036
F35	15 Nov 2022	Air Temp (C)	16.4
F35	15 Nov 2022	Weather	Clear
F35	15 Nov 2022	Visibility (mi)	10
F35	15 Nov 2022	Wind Speed (kts)	0
F35	15 Nov 2022	Wind Dir	N
F35	15 Nov 2022	Water Color	Greenish-Blue
F35	15 Nov 2022	Wave Ht Low (ft)	4

Station	Date	Parameter	Value
F35	15 Nov 2022	Wave Period (sec)	17
F35	15 Nov 2022	Sea State	Calm
F35	15 Nov 2022	High Tide (ft)	4.11
F35	15 Nov 2022	High Tide Time	2048
F35	15 Nov 2022	Low Tide (ft)	0.75
F35	15 Nov 2022	Low Tide Time	512
F35	15 Nov 2022	Comments	OA Samples at 1m #163; Niskin 5; 50m #D7 Niskin 4;100m #110 Niskin 1; 100m Dup # A3 Niskin 2
F36	15 Nov 2022	Depth (m)	99.4
F36	15 Nov 2022	Arrive Time	933
F36	15 Nov 2022	Depart Time	949
F36	15 Nov 2022	Air Temp (C)	16.1
F36	15 Nov 2022	Weather	Clear
F36	15 Nov 2022	Visibility (mi)	10
F36	15 Nov 2022	Wind Speed (kts)	0
F36	15 Nov 2022	Wind Dir	NE
F36	15 Nov 2022	Water Color	Greenish-Blue
F36	15 Nov 2022	Wave Ht Low (ft)	4
F36	15 Nov 2022	Wave Period (sec)	17
F36	15 Nov 2022	Sea State	Calm
F36	15 Nov 2022	High Tide (ft)	4.11
F36	15 Nov 2022	High Tide Time	2048
F36	15 Nov 2022	Low Tide (ft)	0.75
F36	15 Nov 2022	Low Tide Time	512
F36	15 Nov 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	17 Nov 2022	1	16.04	83.95	8.0	33.50	8.2	24.6	2.40
F01	17 Nov 2022	2	15.99	84.04	8.0	33.49	8.2	24.6	2.42
F01	17 Nov 2022	3	15.98	83.87	8.0	33.50	8.2	24.6	2.69
F01	17 Nov 2022	4	15.94	83.77	8.0	33.49	8.2	24.6	3.09
F01	17 Nov 2022	5	15.86	83.17	8.0	33.49	8.2	24.6	3.54
F01	17 Nov 2022	6	15.82	82.89	8.0	33.49	8.2	24.6	4.27
F01	17 Nov 2022	7	15.79	82.08	8.1	33.49	8.2	24.6	4.62
F01	17 Nov 2022	8	15.78	82.40	8.0	33.49	8.2	24.6	4.94
F01	17 Nov 2022	9	15.77	82.18	8.0	33.49	8.2	24.6	5.09
F01	17 Nov 2022	10	15.76	82.38	8.0	33.49	8.2	24.6	5.23
F01	17 Nov 2022	11	15.73	83.36	7.9	33.49	8.1	24.6	5.01
F01	17 Nov 2022	12	15.70	84.52	7.8	33.48	8.1	24.6	4.65
F01	17 Nov 2022	13	15.67	85.18	7.7	33.48	8.1	24.7	4.07
F01	17 Nov 2022	14	15.62	86.53	7.5	33.48	8.1	24.7	3.41
F01	17 Nov 2022	15	15.46	87.66	7.1	33.46	8.1	24.7	3.31
F01	17 Nov 2022	16	15.08	88.62	6.6	33.44	8.1	24.7	3.04
F01	17 Nov 2022	17	14.72	89.07	6.3	33.42	8.1	24.8	2.54
F01	17 Nov 2022	18	14.37	89.34	6.0	33.41	8.0	24.9	2.22
F01	17 Nov 2022	19	14.05	89.31	5.8	33.41	8.0	25.0	1.84
F01	17 Nov 2022	20	13.99	88.96	5.8	33.42	8.0	25.0	1.62
F02	17 Nov 2022	1	16.54	88.03	7.8	33.50	8.1	24.5	1.20
F02	17 Nov 2022	2	16.54	88.02	7.8	33.50	8.1	24.5	1.22
F02	17 Nov 2022	3	16.54	87.89	7.8	33.50	8.1	24.5	1.27
F02	17 Nov 2022	4	16.54	87.89	7.7	33.50	8.1	24.5	1.35
F02	17 Nov 2022	5	16.54	87.97	7.7	33.50	8.1	24.5	1.50
F02	17 Nov 2022	6	16.55	87.86	7.7	33.50	8.1	24.5	1.55
F02	17 Nov 2022	7	16.54	88.03	7.7	33.50	8.1	24.5	1.61
F02	17 Nov 2022	8	16.53	88.05	7.7	33.50	8.1	24.5	1.61
F02	17 Nov 2022	9	16.51	88.12	7.6	33.51	8.1	24.5	1.54
F02	17 Nov 2022	10	16.42	88.36	7.5	33.51	8.1	24.5	1.51
F02	17 Nov 2022	11	16.06	88.76	7.3	33.48	8.1	24.6	1.56
F02	17 Nov 2022	12	15.72	89.09	7.0	33.46	8.1	24.6	1.70
F02	17 Nov 2022	13	15.08	89.16	6.8	33.43	8.0	24.7	1.39
F02	17 Nov 2022	14	14.78	89.64	6.5	33.43	8.0	24.8	1.24
F02	17 Nov 2022	15	14.58	89.88	6.2	33.43	8.0	24.8	1.12
F02	17 Nov 2022	16	14.20	89.43	6.1	33.41	8.0	24.9	1.02
F02	17 Nov 2022	17	13.98	89.94	6.1	33.41	8.0	25.0	1.07
F02	17 Nov 2022	18	13.86	90.25	6.1	33.41	8.0	25.0	1.21
F02	17 Nov 2022	19	13.67	90.36	6.0	33.40	7.9	25.0	1.09
F02	17 Nov 2022	20	13.53	90.32	5.9	33.41	7.9	25.1	1.01
F03	17 Nov 2022	1	16.40	86.56	7.8	33.53	8.1	24.5	1.69
F03	17 Nov 2022	2	16.41	86.53	7.8	33.53	8.1	24.5	1.75
F03	17 Nov 2022	3	16.41	86.56	7.8	33.53	8.1	24.5	1.85
F03	17 Nov 2022	4	16.40	86.53	7.8	33.53	8.1	24.5	2.04
F03	17 Nov 2022	5	16.40	86.58	7.8	33.53	8.1	24.5	2.36
F03	17 Nov 2022	6	16.40	86.57	7.8	33.53	8.1	24.5	2.43
F03	17 Nov 2022	7	16.40	86.57	7.8	33.53	8.1	24.5	2.50
F03	17 Nov 2022	8	16.40	86.56	7.8	33.53	8.1	24.5	2.59
F03	17 Nov 2022	9	16.40	86.59	7.8	33.53	8.1	24.5	2.71
F03	17 Nov 2022	10	16.39	86.58	7.7	33.53	8.1	24.5	2.64
F03	17 Nov 2022	11	16.36	86.69	7.7	33.53	8.1	24.5	2.29
F03	17 Nov 2022	12	16.37	87.34	7.7	33.53	8.1	24.5	2.27
F03	17 Nov 2022	13	16.18	87.65	7.5	33.51	8.1	24.6	1.99
F03	17 Nov 2022	14	16.05	88.53	7.4	33.50	8.1	24.6	1.78

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F03	17 Nov 2022	15	15.96	89.07	7.2	33.49	8.1	24.6	1.70
F03	17 Nov 2022	16	15.77	89.05	7.0	33.48	8.1	24.6	1.63
F03	17 Nov 2022	17	15.44	88.90	6.8	33.47	8.1	24.7	1.62
F03	17 Nov 2022	18	15.30	88.43	6.6	33.46	8.0	24.7	1.55
F03	17 Nov 2022	19	14.75	88.01	6.3	33.44	8.0	24.8	1.53
F03	17 Nov 2022	20	14.38	87.82	6.2	33.43	8.0	24.9	1.34
F04	17 Nov 2022	1	16.94	89.90	7.8	33.54	8.2	24.4	0.95
F04	17 Nov 2022	2	16.87	89.77	7.8	33.54	8.2	24.4	0.98
F04	17 Nov 2022	3	16.81	89.59	7.8	33.54	8.2	24.4	1.08
F04	17 Nov 2022	4	16.79	89.46	7.7	33.53	8.2	24.4	1.12
F04	17 Nov 2022	5	16.78	89.38	7.7	33.53	8.2	24.4	1.14
F04	17 Nov 2022	6	16.76	89.32	7.7	33.53	8.2	24.4	1.29
F04	17 Nov 2022	7	16.74	89.16	7.7	33.53	8.2	24.4	1.41
F04	17 Nov 2022	8	16.73	89.17	7.7	33.53	8.2	24.5	1.53
F04	17 Nov 2022	9	16.71	88.89	7.7	33.53	8.2	24.5	1.49
F04	17 Nov 2022	10	16.69	88.79	7.7	33.53	8.2	24.5	1.67
F04	17 Nov 2022	11	16.67	88.74	7.7	33.53	8.2	24.5	1.83
F04	17 Nov 2022	12	16.63	88.56	7.7	33.53	8.2	24.5	1.88
F04	17 Nov 2022	13	16.55	88.27	7.6	33.52	8.2	24.5	1.91
F04	17 Nov 2022	14	16.14	88.52	7.5	33.50	8.1	24.6	2.16
F04	17 Nov 2022	15	15.95	87.82	7.4	33.48	8.1	24.6	2.44
F04	17 Nov 2022	16	15.59	87.81	7.0	33.47	8.1	24.7	2.65
F04	17 Nov 2022	17	15.18	88.67	6.7	33.45	8.1	24.7	2.43
F04	17 Nov 2022	18	14.90	89.57	6.5	33.43	8.1	24.8	1.84
F04	17 Nov 2022	19	14.43	90.80	6.5	33.41	8.1	24.9	1.70
F04	17 Nov 2022	20	14.25	91.26	6.5	33.40	8.0	24.9	1.53
F04	17 Nov 2022	21	14.23	91.37	6.4	33.40	8.0	24.9	1.47
F04	17 Nov 2022	22	14.21	91.51	6.4	33.40	8.0	24.9	1.45
F04	17 Nov 2022	23	14.18	91.46	6.4	33.40	8.0	24.9	1.45
F04	17 Nov 2022	24	14.10	91.38	6.3	33.40	8.0	24.9	1.56
F04	17 Nov 2022	25	13.86	91.69	6.2	33.39	8.0	25.0	1.41
F04	17 Nov 2022	26	13.50	91.90	6.1	33.39	8.0	25.0	1.37
F04	17 Nov 2022	27	13.30	92.15	6.0	33.39	8.0	25.1	1.27
F04	17 Nov 2022	28	13.22	92.35	5.9	33.39	8.0	25.1	1.22
F04	17 Nov 2022	29	13.20	92.45	5.9	33.39	8.0	25.1	1.19
F04	17 Nov 2022	30	13.19	92.49	5.9	33.39	8.0	25.1	1.21
F04	17 Nov 2022	31	13.12	92.43	5.8	33.39	8.0	25.1	1.17
F04	17 Nov 2022	32	12.99	92.44	5.7	33.40	8.0	25.2	1.12
F04	17 Nov 2022	33	12.95	92.51	5.7	33.40	8.0	25.2	1.09
F04	17 Nov 2022	34	12.88	92.57	5.7	33.40	8.0	25.2	1.06
F04	17 Nov 2022	35	12.84	92.63	5.7	33.40	8.0	25.2	1.01
F04	17 Nov 2022	36	12.82	92.73	5.7	33.40	7.9	25.2	0.97
F04	17 Nov 2022	37	12.82	92.76	5.7	33.41	7.9	25.2	0.94
F04	17 Nov 2022	38	12.82	92.73	5.7	33.41	7.9	25.2	0.94
F04	17 Nov 2022	39	12.81	92.71	5.7	33.41	7.9	25.2	0.95
F04	17 Nov 2022	40	12.79	92.68	5.6	33.41	7.9	25.2	1.07
F04	17 Nov 2022	41	12.74	92.63	5.6	33.42	7.9	25.2	0.94
F04	17 Nov 2022	42	12.73	92.74	5.5	33.42	7.9	25.2	0.92
F04	17 Nov 2022	43	12.69	92.68	5.5	33.42	7.9	25.2	0.90
F04	17 Nov 2022	44	12.63	92.57	5.4	33.44	7.9	25.3	0.88
F04	17 Nov 2022	45	12.59	92.54	5.3	33.44	7.9	25.3	0.86
F04	17 Nov 2022	46	12.58	92.41	5.3	33.44	7.9	25.3	0.84
F04	17 Nov 2022	47	12.57	92.42	5.2	33.44	7.9	25.3	0.83
F04	17 Nov 2022	48	12.54	92.38	5.2	33.44	7.9	25.3	0.83
F04	17 Nov 2022	49	12.46	92.43	5.3	33.45	7.9	25.3	0.82
F04	17 Nov 2022	50	12.40	92.45	5.3	33.45	7.9	25.3	0.81
F04	17 Nov 2022	51	12.37	92.52	5.3	33.45	7.9	25.3	0.80
F04	17 Nov 2022	52	12.36	92.52	5.3	33.45	7.9	25.3	0.78
F04	17 Nov 2022	53	12.36	92.50	5.3	33.45	7.9	25.3	0.79
F04	17 Nov 2022	54	12.34	92.45	5.2	33.46	7.9	25.3	0.80

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F04	17 Nov 2022	55	12.33	92.29	5.0	33.47	7.9	25.3	0.77
F04	17 Nov 2022	56	12.33	92.04	5.0	33.47	7.9	25.3	0.78
F04	17 Nov 2022	57	12.33	91.93	4.9	33.47	7.9	25.3	0.77
F04	17 Nov 2022	58	12.33	91.81	4.8	33.47	7.9	25.3	0.78
F04	17 Nov 2022	59	12.33	91.69	4.8	33.48	7.9	25.3	0.77
F04	17 Nov 2022	60	12.25	91.46	4.8	33.48	7.9	25.4	0.77
F04	17 Nov 2022	61	12.20	90.89	4.9	33.49	7.9	25.4	0.76
F05	17 Nov 2022	1	16.90	87.94	7.7	33.54	8.2	24.4	1.05
F05	17 Nov 2022	2	16.74	87.76	7.7	33.54	8.2	24.5	1.01
F05	17 Nov 2022	3	16.67	87.30	7.7	33.53	8.2	24.5	1.11
F05	17 Nov 2022	4	16.66	86.96	7.7	33.53	8.2	24.5	1.23
F05	17 Nov 2022	5	16.64	86.59	7.8	33.53	8.2	24.5	1.43
F05	17 Nov 2022	6	16.62	86.49	7.8	33.53	8.2	24.5	1.68
F05	17 Nov 2022	7	16.58	86.34	7.8	33.53	8.2	24.5	1.72
F05	17 Nov 2022	8	16.54	86.47	7.8	33.53	8.2	24.5	1.93
F05	17 Nov 2022	9	16.50	86.33	7.7	33.53	8.2	24.5	2.05
F05	17 Nov 2022	10	16.45	85.95	7.7	33.52	8.2	24.5	2.37
F05	17 Nov 2022	11	16.40	85.77	7.7	33.52	8.2	24.5	2.40
F05	17 Nov 2022	12	16.35	86.18	7.6	33.52	8.2	24.5	2.40
F05	17 Nov 2022	13	16.28	86.61	7.5	33.51	8.2	24.5	2.33
F05	17 Nov 2022	14	16.04	86.76	7.3	33.50	8.1	24.6	2.28
F05	17 Nov 2022	15	15.81	87.50	7.1	33.48	8.1	24.6	2.22
F05	17 Nov 2022	16	15.64	88.17	7.0	33.47	8.1	24.7	2.28
F05	17 Nov 2022	17	15.46	88.17	6.9	33.47	8.1	24.7	2.53
F05	17 Nov 2022	18	15.36	88.12	6.9	33.46	8.1	24.7	2.72
F05	17 Nov 2022	19	15.29	88.18	6.8	33.46	8.1	24.7	2.61
F05	17 Nov 2022	20	15.12	88.25	6.7	33.45	8.1	24.7	2.42
F05	17 Nov 2022	21	14.87	88.62	6.6	33.44	8.1	24.8	2.21
F05	17 Nov 2022	22	14.63	89.20	6.4	33.42	8.1	24.8	2.00
F05	17 Nov 2022	23	14.09	89.97	6.3	33.41	8.0	24.9	1.84
F05	17 Nov 2022	24	13.85	90.87	6.2	33.40	8.0	25.0	1.54
F05	17 Nov 2022	25	13.68	91.56	6.1	33.39	8.0	25.0	1.30
F05	17 Nov 2022	26	13.40	91.82	6.1	33.39	8.0	25.1	1.24
F05	17 Nov 2022	27	13.34	92.07	6.0	33.38	8.0	25.1	1.18
F05	17 Nov 2022	28	13.17	92.34	5.9	33.39	8.0	25.1	1.04
F05	17 Nov 2022	29	13.10	92.37	5.8	33.39	8.0	25.1	1.00
F05	17 Nov 2022	30	13.05	92.40	5.8	33.39	8.0	25.1	0.99
F05	17 Nov 2022	31	13.04	92.40	5.8	33.39	8.0	25.1	0.95
F05	17 Nov 2022	32	12.94	92.51	5.7	33.40	8.0	25.2	0.94
F05	17 Nov 2022	33	12.87	92.48	5.7	33.40	8.0	25.2	0.89
F05	17 Nov 2022	34	12.84	92.51	5.7	33.41	8.0	25.2	0.89
F05	17 Nov 2022	35	12.78	92.53	5.7	33.41	8.0	25.2	0.85
F05	17 Nov 2022	36	12.73	92.54	5.6	33.41	7.9	25.2	0.84
F05	17 Nov 2022	37	12.70	92.60	5.6	33.42	7.9	25.2	0.82
F05	17 Nov 2022	38	12.69	92.62	5.6	33.42	7.9	25.2	0.81
F05	17 Nov 2022	39	12.68	92.64	5.5	33.42	7.9	25.2	0.79
F05	17 Nov 2022	40	12.67	92.64	5.5	33.42	7.9	25.2	0.77
F05	17 Nov 2022	41	12.64	92.59	5.5	33.43	7.9	25.2	0.78
F05	17 Nov 2022	42	12.63	92.56	5.5	33.43	7.9	25.2	0.79
F05	17 Nov 2022	43	12.62	92.57	5.4	33.43	7.9	25.3	0.78
F05	17 Nov 2022	44	12.62	92.55	5.4	33.43	7.9	25.3	0.77
F05	17 Nov 2022	45	12.62	92.56	5.4	33.43	7.9	25.3	0.80
F05	17 Nov 2022	46	12.62	92.58	5.4	33.43	7.9	25.3	0.77
F05	17 Nov 2022	47	12.61	92.58	5.4	33.44	7.9	25.3	0.74
F05	17 Nov 2022	48	12.52	92.46	5.3	33.45	7.9	25.3	0.74
F05	17 Nov 2022	49	12.46	92.34	5.2	33.46	7.9	25.3	0.71
F05	17 Nov 2022	50	12.47	92.23	5.2	33.45	7.9	25.3	0.70
F05	17 Nov 2022	51	12.43	92.22	5.1	33.46	7.9	25.3	0.70
F05	17 Nov 2022	52	12.41	92.21	5.1	33.46	7.9	25.3	0.69
F05	17 Nov 2022	53	12.41	92.16	5.1	33.46	7.9	25.3	0.68

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F05	17 Nov 2022	54	12.41	92.10	5.1	33.46	7.9	25.3	0.67
F05	17 Nov 2022	55	12.40	92.05	5.0	33.46	7.9	25.3	0.68
F05	17 Nov 2022	56	12.33	91.99	5.0	33.47	7.9	25.3	0.67
F05	17 Nov 2022	57	12.20	91.54	4.8	33.49	7.9	25.4	0.67
F05	17 Nov 2022	58	12.11	90.60	4.8	33.50	7.9	25.4	0.66
F05	17 Nov 2022	59	12.02	90.14	4.7	33.52	7.9	25.4	0.63
F05	17 Nov 2022	60	11.90	89.92	4.6	33.54	7.8	25.5	0.61
F05	17 Nov 2022	61	11.87	89.32	4.6	33.54	7.8	25.5	0.59
F06	17 Nov 2022	1	16.64	85.62	NA	NA	8.2	NA	NA
F06	17 Nov 2022	2	16.65	85.41	NA	NA	8.2	NA	NA
F06	17 Nov 2022	3	16.65	85.45	NA	NA	8.2	NA	NA
F06	17 Nov 2022	4	16.50	85.65	NA	NA	8.2	NA	NA
F06	17 Nov 2022	5	16.28	85.69	NA	NA	8.1	NA	NA
F06	17 Nov 2022	6	16.06	85.34	NA	NA	8.1	NA	NA
F06	17 Nov 2022	7	15.84	84.84	NA	NA	8.1	NA	NA
F06	17 Nov 2022	8	15.77	83.59	NA	NA	8.1	24.7	NA
F06	17 Nov 2022	9	15.67	82.78	7.3	33.51	8.1	24.7	1.26
F06	17 Nov 2022	10	15.60	83.39	7.3	33.50	8.1	24.7	3.38
F06	17 Nov 2022	11	15.56	84.49	7.2	33.49	8.1	24.7	3.89
F06	17 Nov 2022	12	15.45	85.14	7.0	33.49	8.1	24.7	3.93
F06	17 Nov 2022	13	15.24	86.14	6.7	33.49	8.1	24.8	3.37
F06	17 Nov 2022	14	15.15	86.94	6.5	33.47	8.1	24.8	2.69
F06	17 Nov 2022	15	15.03	87.17	6.5	33.47	8.1	24.8	2.47
F06	17 Nov 2022	16	14.66	87.68	6.4	33.48	8.0	24.9	2.31
F06	17 Nov 2022	17	14.42	88.52	6.3	33.45	8.0	24.9	2.08
F06	17 Nov 2022	18	14.32	89.05	6.2	33.44	8.0	24.9	1.80
F06	17 Nov 2022	19	14.28	90.30	6.2	33.43	8.0	24.9	1.68
F06	17 Nov 2022	20	14.25	90.32	6.2	33.43	8.0	24.9	1.49
F06	17 Nov 2022	21	14.23	90.30	6.1	33.43	8.0	24.9	1.62
F06	17 Nov 2022	22	14.21	90.46	6.1	33.43	8.0	24.9	1.39
F06	17 Nov 2022	23	14.19	90.52	6.1	33.43	8.0	24.9	1.38
F06	17 Nov 2022	24	14.17	90.52	6.1	33.43	8.0	24.9	1.48
F06	17 Nov 2022	25	14.16	90.41	6.1	33.43	8.0	24.9	1.52
F06	17 Nov 2022	26	14.12	90.18	6.1	33.43	8.0	24.9	1.59
F06	17 Nov 2022	27	14.07	90.20	6.0	33.43	8.0	25.0	1.47
F06	17 Nov 2022	28	13.95	90.37	5.9	33.43	8.0	25.0	1.37
F06	17 Nov 2022	29	13.63	90.67	5.8	33.43	8.0	25.0	1.33
F06	17 Nov 2022	30	13.45	91.13	5.8	33.41	8.0	25.1	1.20
F06	17 Nov 2022	31	13.39	91.44	5.8	33.41	8.0	25.1	1.12
F06	17 Nov 2022	32	13.28	91.23	5.7	33.42	8.0	25.1	1.04
F06	17 Nov 2022	33	13.25	90.84	5.5	33.42	7.9	25.1	1.04
F06	17 Nov 2022	34	13.18	90.59	5.5	33.42	7.9	25.1	0.95
F06	17 Nov 2022	35	13.15	90.58	5.4	33.42	7.9	25.1	0.92
F06	17 Nov 2022	36	13.08	90.18	5.3	33.43	7.9	25.2	0.88
F06	17 Nov 2022	37	13.02	90.13	5.3	33.42	7.9	25.2	0.89
F06	17 Nov 2022	38	12.99	90.62	5.4	33.42	7.9	25.2	0.90
F06	17 Nov 2022	39	12.97	91.07	5.4	33.42	7.9	25.2	0.91
F06	17 Nov 2022	40	12.88	91.54	5.4	33.42	7.9	25.2	0.91
F06	17 Nov 2022	41	12.85	91.92	5.4	33.42	7.9	25.2	0.84
F06	17 Nov 2022	42	12.84	92.07	5.4	33.42	7.9	25.2	0.83
F06	17 Nov 2022	43	12.83	92.04	5.4	33.43	7.9	25.2	0.81
F06	17 Nov 2022	44	12.82	92.09	5.4	33.43	7.9	25.2	0.88
F06	17 Nov 2022	45	12.80	91.87	5.3	33.43	7.9	25.2	0.86
F06	17 Nov 2022	46	12.74	91.48	5.2	33.44	7.9	25.2	0.92
F06	17 Nov 2022	47	12.71	91.26	5.2	33.44	7.9	25.2	0.80
F06	17 Nov 2022	48	12.65	90.79	5.1	33.45	7.9	25.3	0.76
F06	17 Nov 2022	49	12.61	90.61	5.0	33.45	7.9	25.3	0.74
F06	17 Nov 2022	50	12.47	90.70	5.0	33.46	7.9	25.3	0.73
F06	17 Nov 2022	51	12.42	90.51	5.0	33.47	7.9	25.3	0.72
F06	17 Nov 2022	52	12.41	90.39	5.0	33.46	7.9	25.3	0.69

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F06	17 Nov 2022	53	12.33	90.47	4.9	33.47	7.9	25.3	0.68
F06	17 Nov 2022	54	12.23	90.45	4.9	33.48	7.9	25.4	0.66
F06	17 Nov 2022	55	12.22	90.54	4.9	33.48	7.9	25.4	0.64
F06	17 Nov 2022	56	12.21	90.46	4.9	33.48	7.9	25.4	0.64
F06	17 Nov 2022	57	12.19	90.56	4.9	33.49	7.9	25.4	0.62
F06	17 Nov 2022	58	12.17	90.24	4.9	33.49	7.9	25.4	0.61
F06	17 Nov 2022	59	12.14	89.77	4.8	33.49	7.9	25.4	0.59
F06	17 Nov 2022	60	12.06	89.21	4.8	33.51	7.9	25.4	0.60
F06	17 Nov 2022	61	12.00	88.72	4.7	33.52	7.8	25.4	0.57
F06	17 Nov 2022	62	11.98	88.31	4.7	33.52	7.8	25.4	0.56
F07	17 Nov 2022	1	16.95	90.01	7.8	33.54	8.2	24.4	0.82
F07	17 Nov 2022	2	16.94	89.97	7.8	33.54	8.2	24.4	0.85
F07	17 Nov 2022	3	16.90	89.98	7.8	33.54	8.2	24.4	0.92
F07	17 Nov 2022	4	16.88	89.90	7.8	33.54	8.2	24.4	0.99
F07	17 Nov 2022	5	16.83	89.73	7.8	33.53	8.2	24.4	1.09
F07	17 Nov 2022	6	16.70	89.00	7.8	33.53	8.2	24.5	1.43
F07	17 Nov 2022	7	16.50	87.33	7.7	33.52	8.2	24.5	2.08
F07	17 Nov 2022	8	16.38	85.55	7.7	33.52	8.2	24.5	2.52
F07	17 Nov 2022	9	16.30	84.55	7.6	33.52	8.2	24.5	2.67
F07	17 Nov 2022	10	16.17	84.80	7.4	33.51	8.1	24.6	2.58
F07	17 Nov 2022	11	16.04	85.82	7.3	33.50	8.1	24.6	2.43
F07	17 Nov 2022	12	15.92	85.72	7.3	33.49	8.1	24.6	2.99
F07	17 Nov 2022	13	15.86	84.38	7.4	33.49	8.1	24.6	3.61
F07	17 Nov 2022	14	15.81	83.29	7.4	33.49	8.1	24.6	4.23
F07	17 Nov 2022	15	15.72	82.80	7.4	33.48	8.1	24.6	4.56
F07	17 Nov 2022	16	15.63	82.99	7.4	33.48	8.1	24.7	4.43
F07	17 Nov 2022	17	15.57	84.05	7.1	33.48	8.1	24.7	3.93
F07	17 Nov 2022	18	15.23	86.30	6.7	33.46	8.1	24.7	3.02
F07	17 Nov 2022	19	14.64	89.59	6.5	33.44	8.1	24.8	2.07
F07	17 Nov 2022	20	14.51	90.33	6.5	33.43	8.0	24.9	1.64
F07	17 Nov 2022	21	14.46	90.57	6.4	33.42	8.0	24.9	1.46
F07	17 Nov 2022	22	14.45	90.62	6.4	33.42	8.0	24.9	1.47
F07	17 Nov 2022	23	14.32	90.63	6.4	33.42	8.0	24.9	1.50
F07	17 Nov 2022	24	14.08	90.67	6.4	33.41	8.0	24.9	1.46
F07	17 Nov 2022	25	13.94	90.92	6.4	33.40	8.0	25.0	1.44
F07	17 Nov 2022	26	13.89	91.12	6.5	33.40	8.0	25.0	1.38
F07	17 Nov 2022	27	13.88	91.32	6.4	33.40	8.0	25.0	1.41
F07	17 Nov 2022	28	13.75	91.41	6.4	33.39	8.0	25.0	1.36
F07	17 Nov 2022	29	13.68	91.49	6.4	33.39	8.0	25.0	1.30
F07	17 Nov 2022	30	13.60	91.56	6.3	33.39	8.0	25.0	1.35
F07	17 Nov 2022	31	13.53	91.74	6.3	33.39	8.0	25.0	1.30
F07	17 Nov 2022	32	13.42	91.84	6.2	33.39	8.0	25.1	1.27
F07	17 Nov 2022	33	13.33	91.53	6.0	33.41	8.0	25.1	1.15
F07	17 Nov 2022	34	13.30	91.58	5.8	33.41	8.0	25.1	1.04
F07	17 Nov 2022	35	13.25	91.33	5.8	33.42	8.0	25.1	1.01
F07	17 Nov 2022	36	13.23	91.24	5.7	33.42	8.0	25.1	0.93
F07	17 Nov 2022	37	13.20	91.27	5.7	33.42	8.0	25.1	0.95
F07	17 Nov 2022	38	13.16	91.33	5.7	33.42	7.9	25.1	0.90
F07	17 Nov 2022	39	13.04	91.38	5.7	33.41	7.9	25.2	0.94
F07	17 Nov 2022	40	12.89	91.62	5.7	33.42	7.9	25.2	0.96
F07	17 Nov 2022	41	12.89	92.07	5.6	33.42	7.9	25.2	0.86
F07	17 Nov 2022	42	12.88	92.15	5.6	33.42	7.9	25.2	0.86
F07	17 Nov 2022	43	12.88	92.21	5.6	33.42	7.9	25.2	0.86
F07	17 Nov 2022	44	12.83	92.19	5.6	33.42	7.9	25.2	0.83
F07	17 Nov 2022	45	12.74	92.06	5.5	33.43	7.9	25.2	0.80
F07	17 Nov 2022	46	12.67	92.16	5.4	33.43	7.9	25.2	0.78
F07	17 Nov 2022	47	12.62	92.19	5.4	33.44	7.9	25.3	0.79
F07	17 Nov 2022	48	12.61	92.03	5.3	33.44	7.9	25.3	0.76
F07	17 Nov 2022	49	12.59	92.25	5.3	33.44	7.9	25.3	0.76
F07	17 Nov 2022	50	12.58	92.21	5.3	33.44	7.9	25.3	0.77

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F07	17 Nov 2022	51	12.56	92.09	5.2	33.45	7.9	25.3	0.77
F07	17 Nov 2022	52	12.51	92.01	5.2	33.45	7.9	25.3	0.74
F07	17 Nov 2022	53	12.47	91.78	5.2	33.46	7.9	25.3	0.72
F07	17 Nov 2022	54	12.46	91.58	5.1	33.46	7.9	25.3	0.73
F07	17 Nov 2022	55	12.43	91.27	5.1	33.46	7.9	25.3	0.70
F07	17 Nov 2022	56	12.38	91.21	5.2	33.46	7.9	25.3	0.70
F07	17 Nov 2022	57	12.36	91.53	5.1	33.46	7.9	25.3	0.70
F07	17 Nov 2022	58	12.30	91.60	5.1	33.47	7.9	25.3	0.69
F07	17 Nov 2022	59	12.24	91.56	5.2	33.47	7.9	25.4	0.68
F07	17 Nov 2022	60	12.18	91.87	5.2	33.47	7.9	25.4	0.67
F07	17 Nov 2022	61	12.15	92.21	5.1	33.48	7.9	25.4	0.64
F07	17 Nov 2022	62	12.15	91.71	5.0	33.49	7.9	25.4	0.63
F07	17 Nov 2022	63	12.12	90.42	4.9	33.49	7.9	25.4	0.66
F07	17 Nov 2022	64	12.09	89.23	4.8	33.50	7.9	25.4	0.62
F08	17 Nov 2022	1	17.06	90.72	7.8	33.54	8.2	24.4	0.71
F08	17 Nov 2022	2	17.04	90.63	7.8	33.54	8.2	24.4	0.72
F08	17 Nov 2022	3	16.98	90.51	7.8	33.54	8.2	24.4	0.78
F08	17 Nov 2022	4	16.96	90.49	7.8	33.54	8.2	24.4	0.81
F08	17 Nov 2022	5	16.94	90.36	7.8	33.54	8.2	24.4	0.88
F08	17 Nov 2022	6	16.92	90.35	7.8	33.54	8.2	24.4	0.97
F08	17 Nov 2022	7	16.91	90.21	7.8	33.54	8.2	24.4	0.96
F08	17 Nov 2022	8	16.90	90.12	7.8	33.54	8.2	24.4	1.00
F08	17 Nov 2022	9	16.89	90.18	7.8	33.54	8.2	24.4	1.01
F08	17 Nov 2022	10	16.89	90.15	7.8	33.54	8.2	24.4	1.06
F08	17 Nov 2022	11	16.88	90.20	7.8	33.54	8.2	24.4	1.09
F08	17 Nov 2022	12	16.88	90.27	7.8	33.54	8.2	24.4	1.12
F08	17 Nov 2022	13	16.83	90.11	7.7	33.53	8.2	24.4	1.22
F08	17 Nov 2022	14	16.70	89.95	7.6	33.52	8.2	24.5	1.55
F08	17 Nov 2022	15	16.41	89.30	7.4	33.51	8.2	24.5	1.74
F08	17 Nov 2022	16	16.20	89.06	7.3	33.50	8.1	24.5	1.77
F08	17 Nov 2022	17	16.08	89.17	7.1	33.49	8.1	24.6	1.72
F08	17 Nov 2022	18	15.86	88.91	6.9	33.49	8.1	24.6	1.68
F08	17 Nov 2022	19	15.28	89.06	6.6	33.46	8.1	24.7	1.64
F08	17 Nov 2022	20	14.73	89.56	6.5	33.42	8.1	24.8	1.61
F08	17 Nov 2022	21	14.19	89.92	6.6	33.39	8.1	24.9	1.54
F08	17 Nov 2022	22	14.04	90.55	6.7	33.38	8.0	24.9	1.56
F08	17 Nov 2022	23	13.94	90.76	6.6	33.37	8.0	24.9	1.65
F08	17 Nov 2022	24	13.81	90.91	6.6	33.37	8.0	25.0	1.66
F08	17 Nov 2022	25	13.69	90.93	6.5	33.37	8.0	25.0	1.67
F08	17 Nov 2022	26	13.63	90.80	6.5	33.37	8.0	25.0	1.68
F08	17 Nov 2022	27	13.63	91.00	6.4	33.37	8.0	25.0	1.68
F08	17 Nov 2022	28	13.59	91.10	6.3	33.38	8.0	25.0	1.67
F08	17 Nov 2022	29	13.52	91.21	6.2	33.39	8.0	25.0	1.53
F08	17 Nov 2022	30	13.48	91.47	6.1	33.40	8.0	25.1	1.40
F08	17 Nov 2022	31	13.43	91.68	6.0	33.40	8.0	25.1	1.34
F08	17 Nov 2022	32	13.39	91.85	6.0	33.40	8.0	25.1	1.32
F08	17 Nov 2022	33	13.35	91.87	6.0	33.40	8.0	25.1	1.27
F08	17 Nov 2022	34	13.35	91.81	5.9	33.40	8.0	25.1	1.27
F08	17 Nov 2022	35	13.35	91.93	5.9	33.40	8.0	25.1	1.28
F08	17 Nov 2022	36	13.35	91.94	5.9	33.40	8.0	25.1	1.29
F08	17 Nov 2022	37	13.29	91.95	5.9	33.40	8.0	25.1	1.29
F08	17 Nov 2022	38	13.22	91.97	5.8	33.41	8.0	25.1	1.27
F08	17 Nov 2022	39	13.17	92.02	5.8	33.41	8.0	25.1	1.22
F08	17 Nov 2022	40	13.12	92.13	5.8	33.41	8.0	25.1	1.17
F08	17 Nov 2022	41	13.07	92.13	5.8	33.41	8.0	25.1	1.13
F08	17 Nov 2022	42	13.04	92.16	5.7	33.41	8.0	25.2	1.12
F08	17 Nov 2022	43	12.94	92.19	5.7	33.42	7.9	25.2	1.09
F08	17 Nov 2022	44	12.87	92.21	5.6	33.42	7.9	25.2	1.02
F08	17 Nov 2022	45	12.83	92.09	5.6	33.42	7.9	25.2	0.96
F08	17 Nov 2022	46	12.80	91.92	5.6	33.42	7.9	25.2	0.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F08	17 Nov 2022	47	12.77	92.08	5.6	33.42	7.9	25.2	0.89
F08	17 Nov 2022	48	12.73	92.18	5.5	33.43	7.9	25.2	0.88
F08	17 Nov 2022	49	12.72	92.20	5.5	33.43	7.9	25.2	0.89
F08	17 Nov 2022	50	12.70	92.19	5.4	33.43	7.9	25.2	0.87
F08	17 Nov 2022	51	12.69	92.08	5.4	33.43	7.9	25.2	0.82
F08	17 Nov 2022	52	12.68	91.93	5.4	33.44	7.9	25.2	0.82
F08	17 Nov 2022	53	12.61	91.77	5.3	33.44	7.9	25.3	0.83
F08	17 Nov 2022	54	12.55	91.76	5.3	33.45	7.9	25.3	0.76
F08	17 Nov 2022	55	12.48	91.74	5.2	33.45	7.9	25.3	0.73
F08	17 Nov 2022	56	12.46	91.78	5.1	33.46	7.9	25.3	0.71
F08	17 Nov 2022	57	12.38	91.79	5.1	33.47	7.9	25.3	0.70
F08	17 Nov 2022	58	12.31	91.68	5.0	33.48	7.9	25.3	0.67
F08	17 Nov 2022	59	12.29	91.20	4.9	33.48	7.9	25.4	0.67
F08	17 Nov 2022	60	12.28	89.85	4.9	33.48	7.9	25.4	0.65
F08	17 Nov 2022	61	12.25	88.32	4.8	33.49	7.9	25.4	0.65
F08	17 Nov 2022	62	12.24	87.18	4.8	33.49	7.9	25.4	0.65
F09	17 Nov 2022	1	17.06	90.90	7.8	33.54	8.2	24.4	0.65
F09	17 Nov 2022	2	17.01	90.83	7.8	33.54	8.2	24.4	0.68
F09	17 Nov 2022	3	16.99	90.71	7.8	33.54	8.2	24.4	0.71
F09	17 Nov 2022	4	16.98	90.60	7.8	33.54	8.2	24.4	0.73
F09	17 Nov 2022	5	16.97	90.58	7.8	33.54	8.2	24.4	0.75
F09	17 Nov 2022	6	16.96	90.62	7.8	33.54	8.2	24.4	0.78
F09	17 Nov 2022	7	16.96	90.58	7.8	33.54	8.2	24.4	0.80
F09	17 Nov 2022	8	16.95	90.58	7.8	33.54	8.2	24.4	0.84
F09	17 Nov 2022	9	16.94	90.52	7.8	33.54	8.2	24.4	0.87
F09	17 Nov 2022	10	16.92	90.40	7.8	33.54	8.2	24.4	0.93
F09	17 Nov 2022	11	16.90	90.42	7.8	33.54	8.2	24.4	0.99
F09	17 Nov 2022	12	16.89	90.25	7.8	33.54	8.2	24.4	1.02
F09	17 Nov 2022	13	16.87	90.24	7.8	33.54	8.2	24.4	1.07
F09	17 Nov 2022	14	16.86	90.03	7.8	33.54	8.2	24.4	1.14
F09	17 Nov 2022	15	16.83	89.95	7.8	33.53	8.2	24.4	1.21
F09	17 Nov 2022	16	16.60	89.87	7.6	33.52	8.2	24.5	1.44
F09	17 Nov 2022	17	16.13	89.51	7.3	33.49	8.1	24.6	1.71
F09	17 Nov 2022	18	15.99	89.10	7.1	33.48	8.1	24.6	1.77
F09	17 Nov 2022	19	15.35	89.07	6.8	33.46	8.1	24.7	1.75
F09	17 Nov 2022	20	14.94	89.42	6.7	33.44	8.1	24.8	1.75
F09	17 Nov 2022	21	14.63	90.01	6.5	33.42	8.1	24.8	1.49
F09	17 Nov 2022	22	14.34	90.46	6.5	33.41	8.0	24.9	1.41
F09	17 Nov 2022	23	13.78	90.78	6.5	33.37	8.0	25.0	1.46
F09	17 Nov 2022	24	13.74	90.92	6.6	33.37	8.0	25.0	1.62
F09	17 Nov 2022	25	13.72	91.00	6.5	33.37	8.0	25.0	1.64
F09	17 Nov 2022	26	13.71	91.03	6.5	33.37	8.0	25.0	1.69
F09	17 Nov 2022	27	13.70	91.04	6.5	33.37	8.0	25.0	1.71
F09	17 Nov 2022	28	13.69	91.03	6.5	33.37	8.0	25.0	1.77
F09	17 Nov 2022	29	13.65	90.82	6.4	33.37	8.0	25.0	1.87
F09	17 Nov 2022	30	13.49	90.93	6.3	33.39	8.0	25.0	1.78
F09	17 Nov 2022	31	13.41	91.10	6.1	33.39	8.0	25.1	1.60
F09	17 Nov 2022	32	13.40	91.62	6.1	33.39	8.0	25.1	1.59
F09	17 Nov 2022	33	13.33	91.72	6.0	33.40	8.0	25.1	1.47
F09	17 Nov 2022	34	13.24	91.75	5.9	33.40	8.0	25.1	1.34
F09	17 Nov 2022	35	13.19	92.04	5.9	33.40	8.0	25.1	1.28
F09	17 Nov 2022	36	13.17	92.12	5.9	33.40	8.0	25.1	1.25
F09	17 Nov 2022	37	13.16	92.21	5.9	33.40	8.0	25.1	1.23
F09	17 Nov 2022	38	13.15	92.18	5.9	33.40	8.0	25.1	1.20
F09	17 Nov 2022	39	13.14	92.15	5.9	33.40	8.0	25.1	1.21
F09	17 Nov 2022	40	13.13	92.21	5.9	33.40	8.0	25.1	1.18
F09	17 Nov 2022	41	13.12	92.26	5.9	33.40	8.0	25.1	1.17
F09	17 Nov 2022	42	13.07	92.24	5.8	33.41	8.0	25.1	1.18
F09	17 Nov 2022	43	13.04	92.29	5.8	33.41	7.9	25.2	1.11
F09	17 Nov 2022	44	13.02	92.28	5.8	33.41	7.9	25.2	1.10

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F09	17 Nov 2022	45	13.00	92.22	5.8	33.41	7.9	25.2	1.25
F09	17 Nov 2022	46	12.96	92.25	5.7	33.41	7.9	25.2	1.07
F09	17 Nov 2022	47	12.89	92.12	5.6	33.42	7.9	25.2	1.05
F09	17 Nov 2022	48	12.73	92.16	5.5	33.43	7.9	25.2	0.99
F09	17 Nov 2022	49	12.66	91.88	5.4	33.44	7.9	25.2	0.91
F09	17 Nov 2022	50	12.61	91.57	5.4	33.44	7.9	25.3	0.88
F09	17 Nov 2022	51	12.59	91.59	5.4	33.44	7.9	25.3	0.91
F09	17 Nov 2022	52	12.55	91.70	5.3	33.44	7.9	25.3	0.87
F09	17 Nov 2022	53	12.50	91.87	5.3	33.45	7.9	25.3	0.82
F09	17 Nov 2022	54	12.47	91.74	5.2	33.45	7.9	25.3	0.79
F09	17 Nov 2022	55	12.47	91.51	5.2	33.46	7.9	25.3	0.77
F09	17 Nov 2022	56	12.46	91.15	5.1	33.46	7.9	25.3	0.74
F09	17 Nov 2022	57	12.42	90.72	5.0	33.47	7.9	25.3	0.74
F09	17 Nov 2022	58	12.35	89.88	4.9	33.48	7.9	25.3	0.69
F09	17 Nov 2022	59	12.28	89.36	4.9	33.49	7.9	25.4	0.66
F09	17 Nov 2022	60	12.22	88.69	4.8	33.49	7.9	25.4	0.66
F09	17 Nov 2022	61	12.17	86.76	4.7	33.50	7.9	25.4	0.65
F09	17 Nov 2022	62	12.17	85.37	4.6	33.50	7.8	25.4	0.63
F10	17 Nov 2022	1	16.91	90.07	7.8	33.54	8.2	24.4	0.81
F10	17 Nov 2022	2	16.87	89.97	7.8	33.54	8.2	24.4	0.85
F10	17 Nov 2022	3	16.86	89.84	7.8	33.54	8.2	24.4	0.91
F10	17 Nov 2022	4	16.86	89.93	7.8	33.54	8.2	24.4	0.93
F10	17 Nov 2022	5	16.85	89.93	7.8	33.54	8.2	24.4	0.97
F10	17 Nov 2022	6	16.85	89.95	7.8	33.54	8.2	24.4	1.00
F10	17 Nov 2022	7	16.84	89.86	7.8	33.54	8.2	24.4	1.05
F10	17 Nov 2022	8	16.84	89.88	7.8	33.54	8.2	24.4	1.09
F10	17 Nov 2022	9	16.83	89.89	7.8	33.54	8.2	24.4	1.13
F10	17 Nov 2022	10	16.83	89.91	7.8	33.54	8.2	24.4	1.19
F10	17 Nov 2022	11	16.83	89.95	7.8	33.54	8.2	24.4	1.23
F10	17 Nov 2022	12	16.83	89.86	7.8	33.54	8.2	24.4	1.28
F10	17 Nov 2022	13	16.82	89.90	7.8	33.54	8.2	24.4	1.31
F10	17 Nov 2022	14	16.82	89.86	7.8	33.53	8.2	24.4	1.36
F10	17 Nov 2022	15	16.80	90.03	7.8	33.53	8.2	24.4	1.37
F10	17 Nov 2022	16	16.63	90.02	7.6	33.52	8.2	24.5	1.36
F10	17 Nov 2022	17	15.83	90.01	7.3	33.47	8.1	24.6	1.58
F10	17 Nov 2022	18	15.23	89.97	7.2	33.43	8.1	24.7	1.68
F10	17 Nov 2022	19	14.88	90.35	7.0	33.41	8.1	24.8	1.68
F10	17 Nov 2022	20	14.39	90.67	7.0	33.38	8.1	24.9	1.58
F10	17 Nov 2022	21	14.24	90.60	6.8	33.38	8.1	24.9	1.68
F10	17 Nov 2022	22	14.10	90.65	6.7	33.38	8.1	24.9	1.75
F10	17 Nov 2022	23	13.96	90.89	6.6	33.39	8.0	25.0	1.63
F10	17 Nov 2022	24	13.94	90.88	6.5	33.40	8.0	25.0	1.55
F10	17 Nov 2022	25	13.87	90.90	6.3	33.40	8.0	25.0	1.54
F10	17 Nov 2022	26	13.67	90.89	6.3	33.40	8.0	25.0	1.46
F10	17 Nov 2022	27	13.53	91.14	6.2	33.39	8.0	25.0	1.45
F10	17 Nov 2022	28	13.39	91.40	6.2	33.39	8.0	25.1	1.47
F10	17 Nov 2022	29	13.31	91.53	6.1	33.39	8.0	25.1	1.39
F10	17 Nov 2022	30	13.30	91.64	6.0	33.39	8.0	25.1	1.42
F10	17 Nov 2022	31	13.27	91.82	6.0	33.40	8.0	25.1	1.39
F10	17 Nov 2022	32	13.25	91.87	6.0	33.40	8.0	25.1	1.32
F10	17 Nov 2022	33	13.25	91.85	6.0	33.40	8.0	25.1	1.40
F10	17 Nov 2022	34	13.24	91.65	6.0	33.40	8.0	25.1	1.36
F10	17 Nov 2022	35	13.20	91.73	5.8	33.41	8.0	25.1	1.24
F10	17 Nov 2022	36	13.12	91.45	5.7	33.42	8.0	25.1	1.17
F10	17 Nov 2022	37	12.96	90.92	5.6	33.43	7.9	25.2	1.09
F10	17 Nov 2022	38	12.82	90.68	5.5	33.43	7.9	25.2	1.01
F10	17 Nov 2022	39	12.77	91.01	5.5	33.42	7.9	25.2	1.03
F10	17 Nov 2022	40	12.75	91.80	5.5	33.42	7.9	25.2	1.02
F10	17 Nov 2022	41	12.72	92.18	5.5	33.43	7.9	25.2	1.01
F10	17 Nov 2022	42	12.67	92.22	5.5	33.43	7.9	25.2	1.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F10	17 Nov 2022	43	12.64	92.30	5.4	33.44	7.9	25.3	0.97
F10	17 Nov 2022	44	12.56	92.17	5.4	33.45	7.9	25.3	0.93
F10	17 Nov 2022	45	12.50	91.78	5.3	33.45	7.9	25.3	0.87
F10	17 Nov 2022	46	12.48	92.24	5.3	33.45	7.9	25.3	0.86
F10	17 Nov 2022	47	12.42	92.32	5.2	33.46	7.9	25.3	0.84
F10	17 Nov 2022	48	12.39	92.31	5.1	33.46	7.9	25.3	0.81
F10	17 Nov 2022	49	12.34	92.35	5.1	33.47	7.9	25.3	0.77
F10	17 Nov 2022	50	12.30	92.19	5.1	33.48	7.9	25.3	0.79
F10	17 Nov 2022	51	12.25	92.24	5.0	33.48	7.9	25.4	0.75
F10	17 Nov 2022	52	12.23	92.04	5.0	33.48	7.9	25.4	0.73
F10	17 Nov 2022	53	12.23	91.96	5.0	33.48	7.9	25.4	0.70
F10	17 Nov 2022	54	12.23	91.96	5.0	33.48	7.9	25.4	0.70
F10	17 Nov 2022	55	12.23	91.92	5.0	33.49	7.9	25.4	0.70
F10	17 Nov 2022	56	12.19	91.93	4.9	33.49	7.9	25.4	0.68
F10	17 Nov 2022	57	12.13	91.25	4.8	33.50	7.9	25.4	0.67
F10	17 Nov 2022	58	12.11	89.66	4.8	33.51	7.9	25.4	0.66
F10	17 Nov 2022	59	12.11	88.35	4.7	33.51	7.9	25.4	0.64
F10	17 Nov 2022	60	12.09	87.75	4.7	33.51	7.8	25.4	0.64
F10	17 Nov 2022	61	12.07	87.67	4.7	33.51	7.8	25.4	0.63
F11	17 Nov 2022	1	16.85	90.03	7.8	33.54	8.2	24.4	0.87
F11	17 Nov 2022	2	16.84	90.02	7.8	33.54	8.2	24.4	0.87
F11	17 Nov 2022	3	16.83	89.89	7.8	33.54	8.2	24.4	0.90
F11	17 Nov 2022	4	16.83	89.84	7.8	33.54	8.2	24.4	0.96
F11	17 Nov 2022	5	16.82	89.84	7.8	33.54	8.2	24.4	0.99
F11	17 Nov 2022	6	16.82	89.77	7.8	33.54	8.2	24.4	1.01
F11	17 Nov 2022	7	16.82	89.83	7.8	33.54	8.2	24.4	1.03
F11	17 Nov 2022	8	16.81	89.77	7.8	33.54	8.2	24.4	1.08
F11	17 Nov 2022	9	16.81	89.79	7.8	33.54	8.2	24.4	1.14
F11	17 Nov 2022	10	16.81	89.75	7.8	33.54	8.2	24.4	1.16
F11	17 Nov 2022	11	16.81	89.73	7.8	33.54	8.2	24.4	1.19
F11	17 Nov 2022	12	16.81	89.84	7.8	33.54	8.2	24.4	1.23
F11	17 Nov 2022	13	16.80	89.84	7.8	33.54	8.2	24.4	1.27
F11	17 Nov 2022	14	16.80	89.81	7.8	33.54	8.2	24.4	1.31
F11	17 Nov 2022	15	16.80	89.82	7.8	33.54	8.2	24.4	1.30
F11	17 Nov 2022	16	16.78	89.85	7.8	33.54	8.2	24.4	1.31
F11	17 Nov 2022	17	16.72	89.93	7.7	33.53	8.2	24.5	1.39
F11	17 Nov 2022	18	16.23	89.96	7.5	33.50	8.2	24.5	1.44
F11	17 Nov 2022	19	15.50	90.08	7.3	33.45	8.1	24.7	1.56
F11	17 Nov 2022	20	14.71	90.14	7.2	33.41	8.1	24.8	1.70
F11	17 Nov 2022	21	14.28	90.38	7.0	33.38	8.1	24.9	1.77
F11	17 Nov 2022	22	14.07	90.35	6.7	33.37	8.1	24.9	1.87
F11	17 Nov 2022	23	13.74	90.39	6.6	33.37	8.0	25.0	1.96
F11	17 Nov 2022	24	13.58	90.40	6.5	33.37	8.0	25.0	1.89
F11	17 Nov 2022	25	13.37	90.51	6.4	33.37	8.0	25.1	1.74
F11	17 Nov 2022	26	13.27	91.20	6.3	33.37	8.0	25.1	1.64
F11	17 Nov 2022	27	13.24	91.39	6.2	33.38	8.0	25.1	1.62
F11	17 Nov 2022	28	13.09	91.55	6.0	33.38	8.0	25.1	1.52
F11	17 Nov 2022	29	12.99	91.84	6.0	33.39	8.0	25.1	1.45
F11	17 Nov 2022	30	12.97	91.97	5.8	33.40	8.0	25.2	1.42
F11	17 Nov 2022	31	12.97	92.06	5.8	33.41	8.0	25.2	1.30
F11	17 Nov 2022	32	12.94	92.02	5.7	33.41	8.0	25.2	1.26
F11	17 Nov 2022	33	12.88	92.06	5.7	33.41	8.0	25.2	1.24
F11	17 Nov 2022	34	12.85	92.20	5.7	33.42	7.9	25.2	1.18
F11	17 Nov 2022	35	12.85	92.17	5.7	33.42	7.9	25.2	1.19
F11	17 Nov 2022	36	12.85	92.19	5.7	33.42	7.9	25.2	1.20
F11	17 Nov 2022	37	12.83	92.24	5.6	33.42	7.9	25.2	1.16
F11	17 Nov 2022	38	12.75	92.26	5.6	33.43	7.9	25.2	1.14
F11	17 Nov 2022	39	12.72	92.05	5.5	33.43	7.9	25.2	1.09
F11	17 Nov 2022	40	12.69	91.88	5.5	33.44	7.9	25.2	1.06
F11	17 Nov 2022	41	12.61	91.66	5.4	33.44	7.9	25.3	1.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F11	17 Nov 2022	42	12.57	91.69	5.3	33.45	7.9	25.3	1.02
F11	17 Nov 2022	43	12.53	91.88	5.3	33.45	7.9	25.3	0.99
F11	17 Nov 2022	44	12.48	92.07	5.3	33.45	7.9	25.3	0.96
F11	17 Nov 2022	45	12.43	92.45	5.2	33.46	7.9	25.3	0.92
F11	17 Nov 2022	46	12.32	92.49	5.2	33.47	7.9	25.3	0.89
F11	17 Nov 2022	47	12.25	92.59	5.1	33.48	7.9	25.4	0.84
F11	17 Nov 2022	48	12.18	92.59	5.1	33.49	7.9	25.4	0.80
F11	17 Nov 2022	49	12.16	92.47	5.0	33.49	7.9	25.4	0.77
F11	17 Nov 2022	50	12.16	92.26	5.0	33.49	7.9	25.4	0.75
F11	17 Nov 2022	51	12.16	92.11	4.9	33.49	7.9	25.4	0.74
F11	17 Nov 2022	52	12.15	92.01	4.9	33.50	7.9	25.4	0.72
F11	17 Nov 2022	53	12.15	91.54	4.9	33.50	7.9	25.4	0.72
F11	17 Nov 2022	54	12.13	90.21	4.8	33.50	7.9	25.4	0.72
F11	17 Nov 2022	55	12.12	89.05	4.8	33.50	7.9	25.4	0.72
F11	17 Nov 2022	56	12.11	88.45	4.8	33.51	7.9	25.4	0.71
F11	17 Nov 2022	57	12.10	88.07	4.8	33.51	7.8	25.4	0.70
F11	17 Nov 2022	58	12.09	87.61	4.7	33.51	7.8	25.4	0.72
F11	17 Nov 2022	59	12.09	87.30	4.7	33.51	7.8	25.4	0.71
F11	17 Nov 2022	60	12.07	86.80	4.7	33.51	7.8	25.4	0.70
F11	17 Nov 2022	61	12.05	86.53	4.6	33.51	7.8	25.4	0.69
F12	17 Nov 2022	1	16.85	90.33	7.7	33.54	8.2	24.4	0.79
F12	17 Nov 2022	2	16.85	90.30	7.7	33.54	8.2	24.4	0.81
F12	17 Nov 2022	3	16.84	89.81	7.8	33.54	8.2	24.4	0.83
F12	17 Nov 2022	4	16.84	89.96	7.7	33.54	8.2	24.4	0.85
F12	17 Nov 2022	5	16.83	90.23	7.7	33.54	8.2	24.4	0.88
F12	17 Nov 2022	6	16.83	90.23	7.8	33.54	8.2	24.4	0.98
F12	17 Nov 2022	7	16.82	90.18	7.8	33.54	8.2	24.4	1.13
F12	17 Nov 2022	8	16.81	90.15	7.8	33.54	8.2	24.4	1.02
F12	17 Nov 2022	9	16.81	90.05	7.8	33.54	8.2	24.4	1.04
F12	17 Nov 2022	10	16.81	89.96	7.8	33.54	8.2	24.4	1.05
F12	17 Nov 2022	11	16.81	90.16	7.8	33.54	8.2	24.4	1.05
F12	17 Nov 2022	12	16.80	90.15	7.8	33.54	8.2	24.4	1.10
F12	17 Nov 2022	13	16.80	89.89	7.8	33.54	8.2	24.4	1.11
F12	17 Nov 2022	14	16.80	90.05	7.8	33.54	8.2	24.4	1.13
F12	17 Nov 2022	15	16.80	89.99	7.8	33.54	8.2	24.4	1.16
F12	17 Nov 2022	16	16.79	89.99	7.8	33.54	8.2	24.4	1.21
F12	17 Nov 2022	17	16.79	90.02	7.8	33.54	8.2	24.4	1.20
F12	17 Nov 2022	18	16.79	89.87	7.8	33.54	8.2	24.4	1.20
F12	17 Nov 2022	19	16.79	90.14	7.8	33.54	8.2	24.4	1.19
F12	17 Nov 2022	20	16.78	90.11	7.8	33.54	8.2	24.4	1.21
F12	17 Nov 2022	21	16.76	90.06	7.6	33.54	8.2	24.4	1.24
F12	17 Nov 2022	22	15.84	90.05	7.4	33.45	8.1	24.6	1.54
F12	17 Nov 2022	23	15.03	89.81	7.3	33.40	8.1	24.7	1.86
F12	17 Nov 2022	24	14.44	89.71	7.1	33.37	8.1	24.8	2.28
F12	17 Nov 2022	25	14.00	89.90	6.8	33.36	8.1	24.9	2.28
F12	17 Nov 2022	26	13.84	90.12	6.6	33.36	8.0	24.9	2.08
F12	17 Nov 2022	27	13.59	89.99	6.5	33.35	8.0	25.0	1.97
F12	17 Nov 2022	28	13.48	90.29	6.4	33.35	8.0	25.0	1.84
F12	17 Nov 2022	29	13.43	91.06	6.4	33.36	8.0	25.0	1.78
F12	17 Nov 2022	30	13.36	91.22	6.2	33.36	8.0	25.1	1.75
F12	17 Nov 2022	31	13.21	91.18	6.0	33.37	8.0	25.1	1.70
F12	17 Nov 2022	32	13.08	91.31	5.9	33.37	8.0	25.1	1.63
F12	17 Nov 2022	33	13.00	91.47	5.8	33.38	8.0	25.1	1.54
F12	17 Nov 2022	34	12.92	91.75	5.8	33.39	8.0	25.2	1.46
F12	17 Nov 2022	35	12.88	91.95	5.7	33.39	8.0	25.2	1.32
F12	17 Nov 2022	36	12.81	91.98	5.7	33.40	7.9	25.2	1.26
F12	17 Nov 2022	37	12.72	92.19	5.7	33.40	7.9	25.2	1.16
F12	17 Nov 2022	38	12.68	92.36	5.7	33.41	7.9	25.2	1.09
F12	17 Nov 2022	39	12.67	92.41	5.6	33.42	7.9	25.2	1.05
F12	17 Nov 2022	40	12.64	92.45	5.5	33.43	7.9	25.2	1.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F12	17 Nov 2022	41	12.62	92.43	5.5	33.44	7.9	25.3	0.96
F12	17 Nov 2022	42	12.57	92.32	5.4	33.44	7.9	25.3	0.95
F12	17 Nov 2022	43	12.47	92.30	5.3	33.45	7.9	25.3	0.92
F12	17 Nov 2022	44	12.37	92.12	5.4	33.45	7.9	25.3	0.89
F12	17 Nov 2022	45	12.32	92.18	5.4	33.45	7.9	25.3	0.85
F12	17 Nov 2022	46	12.28	92.44	5.4	33.46	7.9	25.3	0.81
F12	17 Nov 2022	47	12.20	92.57	5.3	33.47	7.9	25.4	0.80
F12	17 Nov 2022	48	12.12	92.61	5.1	33.50	7.9	25.4	0.76
F12	17 Nov 2022	49	12.07	92.53	4.9	33.51	7.9	25.4	0.70
F12	17 Nov 2022	50	12.06	92.30	4.9	33.51	7.9	25.4	0.69
F12	17 Nov 2022	51	12.05	92.09	4.9	33.51	7.9	25.4	0.68
F12	17 Nov 2022	52	12.05	92.07	4.9	33.51	7.9	25.4	0.66
F12	17 Nov 2022	53	12.04	92.05	4.9	33.52	7.9	25.4	0.66
F12	17 Nov 2022	54	12.03	91.99	4.9	33.52	7.9	25.4	0.65
F12	17 Nov 2022	55	12.02	91.95	4.8	33.52	7.9	25.4	0.65
F12	17 Nov 2022	56	12.01	91.65	4.8	33.52	7.9	25.4	0.64
F12	17 Nov 2022	57	12.00	90.73	4.7	33.52	7.8	25.4	0.64
F12	17 Nov 2022	58	12.00	90.09	4.8	33.52	7.8	25.4	0.64
F12	17 Nov 2022	59	12.00	89.72	4.7	33.52	7.8	25.4	0.64
F12	17 Nov 2022	60	11.98	89.38	4.6	33.52	7.8	25.4	0.64
F12	17 Nov 2022	61	11.97	87.90	4.6	33.53	7.8	25.4	0.63
F12	17 Nov 2022	62	11.96	87.11	4.6	33.53	7.8	25.5	0.63
F13	17 Nov 2022	1	16.83	89.88	7.8	33.54	8.2	24.4	0.85
F13	17 Nov 2022	2	16.82	89.93	7.8	33.54	8.2	24.4	0.86
F13	17 Nov 2022	3	16.82	89.68	7.8	33.54	8.2	24.4	0.89
F13	17 Nov 2022	4	16.82	89.92	7.8	33.54	8.2	24.4	0.91
F13	17 Nov 2022	5	16.82	89.85	7.8	33.54	8.2	24.4	0.94
F13	17 Nov 2022	6	16.81	89.92	7.8	33.54	8.2	24.4	0.97
F13	17 Nov 2022	7	16.81	89.82	7.8	33.54	8.2	24.4	1.00
F13	17 Nov 2022	8	16.81	89.85	7.8	33.54	8.2	24.4	1.06
F13	17 Nov 2022	9	16.81	89.85	7.8	33.54	8.2	24.4	1.10
F13	17 Nov 2022	10	16.81	89.73	7.8	33.54	8.2	24.4	1.12
F13	17 Nov 2022	11	16.81	89.96	7.8	33.54	8.2	24.4	1.13
F13	17 Nov 2022	12	16.80	89.93	7.8	33.54	8.2	24.4	1.16
F13	17 Nov 2022	13	16.80	89.90	7.8	33.54	8.2	24.4	1.19
F13	17 Nov 2022	14	16.80	89.97	7.8	33.54	8.2	24.4	1.20
F13	17 Nov 2022	15	16.80	89.86	7.8	33.54	8.2	24.4	1.27
F13	17 Nov 2022	16	16.80	89.81	7.7	33.54	8.2	24.4	1.30
F13	17 Nov 2022	17	16.79	89.85	7.8	33.54	8.2	24.4	1.51
F13	17 Nov 2022	18	16.73	89.84	7.6	33.53	8.2	24.5	1.41
F13	17 Nov 2022	19	16.07	89.64	7.5	33.48	8.1	24.6	1.66
F13	17 Nov 2022	20	15.72	89.52	7.3	33.46	8.1	24.6	1.95
F13	17 Nov 2022	21	15.50	89.45	7.2	33.44	8.1	24.7	2.05
F13	17 Nov 2022	22	15.22	89.58	7.2	33.42	8.1	24.7	2.11
F13	17 Nov 2022	23	14.78	89.83	7.2	33.39	8.1	24.8	2.05
F13	17 Nov 2022	24	14.20	89.89	6.9	33.37	8.1	24.9	2.11
F13	17 Nov 2022	25	13.83	89.92	6.7	33.36	8.0	25.0	2.29
F13	17 Nov 2022	26	13.68	89.99	6.5	33.35	8.0	25.0	2.21
F13	17 Nov 2022	27	13.59	90.13	6.4	33.36	8.0	25.0	2.18
F13	17 Nov 2022	28	13.53	90.46	6.3	33.36	8.0	25.0	2.01
F13	17 Nov 2022	29	13.50	90.79	6.2	33.36	8.0	25.0	2.04
F13	17 Nov 2022	30	13.48	90.98	6.2	33.37	8.0	25.0	1.83
F13	17 Nov 2022	31	13.43	91.10	6.1	33.37	8.0	25.0	1.77
F13	17 Nov 2022	32	13.19	91.23	6.0	33.38	8.0	25.1	1.70
F13	17 Nov 2022	33	13.03	91.55	5.8	33.39	8.0	25.1	1.54
F13	17 Nov 2022	34	12.99	91.83	5.8	33.39	8.0	25.1	1.39
F13	17 Nov 2022	35	12.94	92.00	5.8	33.39	8.0	25.2	1.29
F13	17 Nov 2022	36	12.90	92.07	5.9	33.39	7.9	25.2	1.24
F13	17 Nov 2022	37	12.86	92.21	5.9	33.39	7.9	25.2	1.18
F13	17 Nov 2022	38	12.82	92.26	5.9	33.40	7.9	25.2	1.16

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F13	17 Nov 2022	39	12.78	92.30	5.8	33.40	7.9	25.2	1.10
F13	17 Nov 2022	40	12.69	92.35	5.8	33.41	7.9	25.2	1.06
F13	17 Nov 2022	41	12.67	92.46	5.7	33.41	7.9	25.2	1.00
F13	17 Nov 2022	42	12.66	92.47	5.7	33.41	7.9	25.2	0.97
F13	17 Nov 2022	43	12.65	92.50	5.7	33.42	7.9	25.2	0.96
F13	17 Nov 2022	44	12.56	92.49	5.6	33.43	7.9	25.3	0.94
F13	17 Nov 2022	45	12.50	92.50	5.6	33.44	7.9	25.3	0.91
F13	17 Nov 2022	46	12.47	92.39	5.6	33.44	7.9	25.3	0.87
F13	17 Nov 2022	47	12.46	92.46	5.5	33.45	7.9	25.3	0.86
F13	17 Nov 2022	48	12.40	92.32	5.4	33.45	7.9	25.3	0.84
F13	17 Nov 2022	49	12.32	92.43	5.3	33.46	7.9	25.3	0.80
F13	17 Nov 2022	50	12.25	92.36	5.3	33.47	7.9	25.4	0.77
F13	17 Nov 2022	51	12.14	92.53	5.2	33.48	7.9	25.4	0.73
F13	17 Nov 2022	52	12.04	92.67	5.2	33.49	7.9	25.4	0.70
F13	17 Nov 2022	53	11.94	92.55	5.0	33.51	7.9	25.4	0.65
F13	17 Nov 2022	54	11.91	92.15	4.9	33.53	7.9	25.5	0.62
F13	17 Nov 2022	55	11.91	90.51	4.8	33.53	7.8	25.5	0.60
F13	17 Nov 2022	56	11.90	89.36	4.7	33.53	7.8	25.5	0.58
F13	17 Nov 2022	57	11.90	89.47	4.7	33.53	7.8	25.5	0.57
F13	17 Nov 2022	58	11.89	89.55	4.7	33.53	7.8	25.5	0.58
F13	17 Nov 2022	59	11.89	89.81	4.7	33.53	7.8	25.5	0.57
F13	17 Nov 2022	60	11.88	89.82	4.7	33.53	7.8	25.5	0.57
F13	17 Nov 2022	61	11.88	89.53	4.7	33.53	7.8	25.5	0.57
F14	17 Nov 2022	1	16.88	90.33	7.8	33.54	8.1	24.4	0.79
F14	17 Nov 2022	2	16.88	90.31	7.8	33.54	8.1	24.4	0.77
F14	17 Nov 2022	3	16.88	90.29	7.8	33.54	8.1	24.4	0.78
F14	17 Nov 2022	4	16.88	90.37	7.8	33.54	8.1	24.4	0.82
F14	17 Nov 2022	5	16.88	90.27	7.8	33.54	8.1	24.4	0.91
F14	17 Nov 2022	6	16.88	90.28	7.7	33.54	8.1	24.4	0.90
F14	17 Nov 2022	7	16.88	90.30	7.7	33.54	8.1	24.4	0.97
F14	17 Nov 2022	8	16.87	90.23	7.7	33.54	8.1	24.4	1.02
F14	17 Nov 2022	9	16.87	90.22	7.8	33.54	8.1	24.4	1.04
F14	17 Nov 2022	10	16.87	90.19	7.7	33.54	8.1	24.4	1.08
F14	17 Nov 2022	11	16.87	90.21	7.8	33.54	8.1	24.4	1.11
F14	17 Nov 2022	12	16.87	90.24	7.7	33.54	8.1	24.4	1.08
F14	17 Nov 2022	13	16.87	90.26	7.7	33.54	8.1	24.4	1.10
F14	17 Nov 2022	14	16.86	90.18	7.7	33.54	8.1	24.4	1.15
F14	17 Nov 2022	15	16.86	90.29	7.8	33.54	8.1	24.4	1.14
F14	17 Nov 2022	16	16.85	90.35	7.7	33.54	8.1	24.4	1.14
F14	17 Nov 2022	17	16.49	90.28	7.6	33.50	8.1	24.5	1.29
F14	17 Nov 2022	18	16.11	90.02	7.5	33.48	8.1	24.6	1.57
F14	17 Nov 2022	19	15.85	89.63	7.2	33.47	8.1	24.6	1.77
F14	17 Nov 2022	20	15.74	89.47	7.0	33.47	8.1	24.6	1.81
F14	17 Nov 2022	21	15.46	89.66	6.8	33.45	8.1	24.7	1.65
F14	17 Nov 2022	22	14.98	89.87	6.9	33.42	8.1	24.8	1.63
F14	17 Nov 2022	23	14.59	90.04	7.0	33.39	8.1	24.8	1.85
F14	17 Nov 2022	24	14.35	90.14	6.9	33.37	8.0	24.9	1.98
F14	17 Nov 2022	25	13.88	90.13	6.7	33.36	8.0	24.9	2.06
F14	17 Nov 2022	26	13.56	89.91	6.5	33.36	8.0	25.0	2.09
F14	17 Nov 2022	27	13.46	90.24	6.3	33.36	8.0	25.0	2.00
F14	17 Nov 2022	28	13.42	90.71	6.2	33.36	8.0	25.0	1.91
F14	17 Nov 2022	29	13.30	90.75	6.0	33.37	8.0	25.1	1.77
F14	17 Nov 2022	30	13.17	91.21	5.9	33.37	8.0	25.1	1.62
F14	17 Nov 2022	31	13.04	91.44	5.8	33.38	8.0	25.1	1.48
F14	17 Nov 2022	32	12.92	91.74	5.7	33.39	7.9	25.2	1.30
F14	17 Nov 2022	33	12.87	91.97	5.7	33.39	7.9	25.2	1.20
F14	17 Nov 2022	34	12.85	92.07	5.6	33.40	7.9	25.2	1.11
F14	17 Nov 2022	35	12.79	92.20	5.6	33.40	7.9	25.2	1.06
F14	17 Nov 2022	36	12.70	92.36	5.5	33.41	7.9	25.2	0.97
F14	17 Nov 2022	37	12.61	92.48	5.6	33.42	7.9	25.2	0.88

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F14	17 Nov 2022	38	12.54	92.57	5.7	33.42	7.9	25.3	0.84
F14	17 Nov 2022	39	12.51	92.60	5.8	33.42	7.9	25.3	0.82
F14	17 Nov 2022	40	12.48	92.55	5.8	33.42	7.9	25.3	0.80
F14	17 Nov 2022	41	12.42	92.61	5.8	33.43	7.9	25.3	0.78
F14	17 Nov 2022	42	12.37	92.56	5.6	33.44	7.9	25.3	0.75
F14	17 Nov 2022	43	12.30	92.60	5.5	33.45	7.9	25.3	0.74
F14	17 Nov 2022	44	12.26	92.60	5.4	33.46	7.9	25.3	0.72
F14	17 Nov 2022	45	12.24	92.60	5.3	33.47	7.9	25.4	0.69
F14	17 Nov 2022	46	12.21	92.58	5.3	33.47	7.9	25.4	0.66
F14	17 Nov 2022	47	12.17	92.41	5.2	33.47	7.9	25.4	0.64
F14	17 Nov 2022	48	12.09	92.59	5.2	33.48	7.9	25.4	0.63
F14	17 Nov 2022	49	12.03	92.67	5.2	33.50	7.9	25.4	0.59
F14	17 Nov 2022	50	11.95	92.65	5.0	33.51	7.9	25.4	0.57
F14	17 Nov 2022	51	11.93	92.62	4.9	33.52	7.9	25.5	0.55
F14	17 Nov 2022	52	11.91	92.37	4.8	33.53	7.8	25.5	0.52
F14	17 Nov 2022	53	11.90	91.93	4.8	33.53	7.8	25.5	0.52
F14	17 Nov 2022	54	11.90	91.44	4.8	33.53	7.8	25.5	0.52
F14	17 Nov 2022	55	11.90	91.36	4.8	33.53	7.8	25.5	0.52
F14	17 Nov 2022	56	11.90	91.19	4.8	33.53	7.8	25.5	0.52
F14	17 Nov 2022	57	11.90	90.98	4.8	33.53	7.8	25.5	0.51
F14	17 Nov 2022	58	11.90	90.94	4.8	33.53	7.8	25.5	0.51
F14	17 Nov 2022	59	11.89	90.77	4.8	33.53	7.8	25.5	0.51
F14	17 Nov 2022	60	11.89	90.33	4.8	33.53	7.8	25.5	0.51
F14	17 Nov 2022	61	11.89	89.76	4.8	33.53	7.8	25.5	0.50
F15	18 Nov 2022	1	17.02	90.91	7.7	33.55	8.2	24.4	0.68
F15	18 Nov 2022	2	17.02	90.79	7.7	33.55	8.2	24.4	0.69
F15	18 Nov 2022	3	17.01	90.95	7.8	33.54	8.2	24.4	0.69
F15	18 Nov 2022	4	16.93	90.93	7.7	33.54	8.2	24.4	0.72
F15	18 Nov 2022	5	16.85	90.78	7.7	33.54	8.2	24.4	0.77
F15	18 Nov 2022	6	16.81	90.44	7.6	33.54	8.2	24.4	0.85
F15	18 Nov 2022	7	16.79	90.20	7.7	33.54	8.2	24.4	0.93
F15	18 Nov 2022	8	16.74	90.00	7.7	33.53	8.2	24.4	1.03
F15	18 Nov 2022	9	16.58	89.57	7.7	33.52	8.2	24.5	1.24
F15	18 Nov 2022	10	16.46	88.74	7.8	33.52	8.2	24.5	1.59
F15	18 Nov 2022	11	16.38	87.38	7.8	33.52	8.2	24.5	2.10
F15	18 Nov 2022	12	16.24	86.08	7.8	33.51	8.2	24.5	2.65
F15	18 Nov 2022	13	16.10	85.82	7.7	33.49	8.2	24.6	3.25
F15	18 Nov 2022	14	15.99	85.55	7.6	33.49	8.2	24.6	3.92
F15	18 Nov 2022	15	15.92	85.57	7.6	33.49	8.2	24.6	4.23
F15	18 Nov 2022	16	15.78	85.50	7.4	33.48	8.1	24.6	4.32
F15	18 Nov 2022	17	15.44	85.88	7.0	33.45	8.1	24.7	4.25
F15	18 Nov 2022	18	14.95	87.67	6.8	33.44	8.1	24.8	3.10
F15	18 Nov 2022	19	14.92	89.61	6.5	33.43	8.1	24.8	2.52
F15	18 Nov 2022	20	14.30	90.39	6.4	33.40	8.1	24.9	2.15
F15	18 Nov 2022	21	13.96	91.10	6.4	33.40	8.0	25.0	1.72
F15	18 Nov 2022	22	13.93	91.62	6.3	33.39	8.0	25.0	1.59
F15	18 Nov 2022	23	13.91	91.69	6.3	33.39	8.0	25.0	1.47
F15	18 Nov 2022	24	13.88	91.81	6.4	33.39	8.0	25.0	1.48
F15	18 Nov 2022	25	13.87	91.82	6.4	33.39	8.0	25.0	1.37
F15	18 Nov 2022	26	13.85	91.98	6.3	33.39	8.0	25.0	1.35
F15	18 Nov 2022	27	13.69	91.96	6.2	33.38	8.0	25.0	1.43
F15	18 Nov 2022	28	13.50	92.03	6.0	33.40	8.0	25.1	1.21
F15	18 Nov 2022	29	13.39	92.29	5.8	33.40	8.0	25.1	1.12
F15	18 Nov 2022	30	13.32	92.36	5.7	33.40	8.0	25.1	1.07
F15	18 Nov 2022	31	13.21	92.38	5.7	33.40	8.0	25.1	1.05
F15	18 Nov 2022	32	13.16	92.35	5.7	33.40	8.0	25.1	1.07
F15	18 Nov 2022	33	13.14	92.41	5.6	33.40	8.0	25.1	0.99
F15	18 Nov 2022	34	13.13	92.36	5.6	33.40	8.0	25.1	0.98
F15	18 Nov 2022	35	13.12	92.51	5.6	33.41	8.0	25.1	0.97
F15	18 Nov 2022	36	13.11	92.50	5.6	33.41	8.0	25.1	0.95

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F15	18 Nov 2022	37	13.11	92.47	5.6	33.41	8.0	25.1	0.92
F15	18 Nov 2022	38	13.10	92.50	5.6	33.41	7.9	25.1	0.93
F15	18 Nov 2022	39	13.10	92.51	5.6	33.41	7.9	25.1	0.95
F15	18 Nov 2022	40	13.06	92.51	5.6	33.40	7.9	25.1	0.94
F15	18 Nov 2022	41	12.82	92.60	5.6	33.40	8.0	25.2	0.94
F15	18 Nov 2022	42	12.66	92.71	5.8	33.40	8.0	25.2	0.94
F15	18 Nov 2022	43	12.60	92.77	5.8	33.41	8.0	25.2	0.88
F15	18 Nov 2022	44	12.59	92.79	5.8	33.41	8.0	25.2	0.87
F15	18 Nov 2022	45	12.55	92.83	5.8	33.41	8.0	25.2	0.83
F15	18 Nov 2022	46	12.46	92.84	5.7	33.42	7.9	25.3	0.84
F15	18 Nov 2022	47	12.42	92.87	5.6	33.43	7.9	25.3	0.80
F15	18 Nov 2022	48	12.33	92.82	5.6	33.44	7.9	25.3	0.80
F15	18 Nov 2022	49	12.30	92.80	5.6	33.44	7.9	25.3	0.81
F15	18 Nov 2022	50	12.26	92.85	5.5	33.45	7.9	25.3	0.77
F15	18 Nov 2022	51	12.25	92.84	5.5	33.45	7.9	25.3	0.75
F15	18 Nov 2022	52	12.23	92.79	5.5	33.45	7.9	25.3	0.76
F15	18 Nov 2022	53	12.21	92.70	5.4	33.46	7.9	25.4	0.74
F15	18 Nov 2022	54	12.17	92.67	5.3	33.47	7.9	25.4	0.73
F15	18 Nov 2022	55	12.15	92.68	5.3	33.47	7.9	25.4	0.71
F15	18 Nov 2022	56	12.14	92.72	5.3	33.47	7.9	25.4	0.71
F15	18 Nov 2022	57	12.12	92.48	5.3	33.48	7.9	25.4	0.70
F15	18 Nov 2022	58	12.10	92.71	5.2	33.48	7.9	25.4	0.69
F15	18 Nov 2022	59	12.10	92.65	5.2	33.48	7.9	25.4	0.69
F15	18 Nov 2022	60	12.09	92.61	5.2	33.48	7.9	25.4	0.69
F15	18 Nov 2022	61	12.03	92.66	5.2	33.49	7.9	25.4	0.67
F15	18 Nov 2022	62	11.99	92.71	5.1	33.50	7.9	25.4	0.66
F15	18 Nov 2022	63	12.00	92.35	4.9	33.52	7.9	25.4	0.65
F15	18 Nov 2022	64	11.99	92.16	4.8	33.53	7.9	25.4	0.65
F15	18 Nov 2022	65	11.96	92.05	4.7	33.53	7.9	25.5	0.64
F15	18 Nov 2022	66	11.90	92.07	4.7	33.53	7.9	25.5	0.64
F15	18 Nov 2022	67	11.87	92.11	4.8	33.53	7.9	25.5	0.62
F15	18 Nov 2022	68	11.78	92.58	4.8	33.54	7.9	25.5	0.61
F15	18 Nov 2022	69	11.74	92.65	4.8	33.55	7.9	25.5	0.59
F15	18 Nov 2022	70	11.72	92.78	4.7	33.57	7.9	25.5	0.57
F15	18 Nov 2022	71	11.70	92.53	4.5	33.58	7.8	25.5	0.58
F15	18 Nov 2022	72	11.70	92.09	4.4	33.59	7.8	25.5	0.60
F15	18 Nov 2022	73	11.68	91.92	4.4	33.59	7.8	25.6	0.59
F15	18 Nov 2022	74	11.66	91.77	4.4	33.59	7.8	25.6	0.57
F15	18 Nov 2022	75	11.64	91.79	4.4	33.60	7.8	25.6	0.58
F15	18 Nov 2022	76	11.63	91.91	4.4	33.60	7.8	25.6	0.59
F15	18 Nov 2022	77	11.62	91.82	4.4	33.60	7.8	25.6	0.57
F15	18 Nov 2022	78	11.61	91.70	4.3	33.60	7.8	25.6	0.56
F15	18 Nov 2022	79	11.61	91.62	4.3	33.60	7.8	25.6	0.56
F15	18 Nov 2022	80	11.59	91.45	4.2	33.61	7.8	25.6	0.56
F15	18 Nov 2022	81	11.56	90.95	4.2	33.62	7.8	25.6	0.56
F15	18 Nov 2022	82	11.53	89.86	4.2	33.62	7.8	25.6	0.57
F16	18 Nov 2022	1	17.05	91.13	7.7	33.54	8.2	24.4	0.75
F16	18 Nov 2022	2	17.04	91.10	7.7	33.55	8.2	24.4	0.74
F16	18 Nov 2022	3	17.02	91.08	7.7	33.54	8.2	24.4	0.75
F16	18 Nov 2022	4	16.96	91.29	7.7	33.54	8.2	24.4	0.79
F16	18 Nov 2022	5	16.94	91.22	7.8	33.54	8.2	24.4	0.79
F16	18 Nov 2022	6	16.94	91.17	7.7	33.54	8.2	24.4	0.83
F16	18 Nov 2022	7	16.92	91.17	7.7	33.54	8.2	24.4	0.87
F16	18 Nov 2022	8	16.91	91.07	7.7	33.54	8.2	24.4	0.86
F16	18 Nov 2022	9	16.88	90.99	7.7	33.54	8.2	24.4	0.88
F16	18 Nov 2022	10	16.87	91.06	7.7	33.54	8.2	24.4	0.92
F16	18 Nov 2022	11	16.84	90.91	7.6	33.54	8.2	24.4	0.95
F16	18 Nov 2022	12	16.72	90.92	7.5	33.53	8.2	24.4	1.01
F16	18 Nov 2022	13	16.25	90.83	7.5	33.49	8.2	24.5	1.27
F16	18 Nov 2022	14	16.01	89.31	7.5	33.49	8.2	24.6	2.10

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F16	18 Nov 2022	15	16.01	87.53	7.6	33.49	8.2	24.6	2.55
F16	18 Nov 2022	16	15.87	86.74	7.6	33.48	8.2	24.6	3.28
F16	18 Nov 2022	17	15.59	85.61	7.5	33.47	8.1	24.7	3.60
F16	18 Nov 2022	18	15.45	86.02	7.3	33.47	8.1	24.7	3.78
F16	18 Nov 2022	19	15.24	86.56	7.1	33.45	8.1	24.7	3.57
F16	18 Nov 2022	20	15.09	87.28	7.0	33.45	8.1	24.8	3.45
F16	18 Nov 2022	21	14.96	88.24	6.8	33.44	8.1	24.8	3.17
F16	18 Nov 2022	22	14.63	89.35	6.6	33.42	8.1	24.8	2.97
F16	18 Nov 2022	23	14.45	90.30	6.5	33.41	8.1	24.9	2.37
F16	18 Nov 2022	24	14.16	90.57	6.4	33.40	8.0	24.9	2.00
F16	18 Nov 2022	25	14.02	91.19	6.3	33.40	8.0	24.9	1.85
F16	18 Nov 2022	26	13.88	91.43	6.3	33.39	8.0	25.0	1.79
F16	18 Nov 2022	27	13.71	91.55	6.2	33.39	8.0	25.0	1.59
F16	18 Nov 2022	28	13.59	91.79	6.2	33.39	8.0	25.0	1.52
F16	18 Nov 2022	29	13.51	92.06	6.1	33.38	8.0	25.0	1.44
F16	18 Nov 2022	30	13.26	92.13	6.0	33.38	8.0	25.1	1.34
F16	18 Nov 2022	31	13.21	92.19	6.0	33.38	8.0	25.1	1.25
F16	18 Nov 2022	32	13.17	92.35	5.9	33.39	8.0	25.1	1.20
F16	18 Nov 2022	33	13.10	92.43	5.8	33.39	8.0	25.1	1.16
F16	18 Nov 2022	34	13.08	92.39	5.8	33.40	8.0	25.1	1.15
F16	18 Nov 2022	35	13.06	92.42	5.8	33.40	8.0	25.1	1.11
F16	18 Nov 2022	36	13.03	92.52	5.6	33.40	8.0	25.1	1.10
F16	18 Nov 2022	37	12.99	92.47	5.6	33.41	8.0	25.2	1.06
F16	18 Nov 2022	38	12.95	92.64	5.5	33.41	7.9	25.2	1.04
F16	18 Nov 2022	39	12.92	92.62	5.5	33.42	7.9	25.2	1.02
F16	18 Nov 2022	40	12.90	92.58	5.4	33.42	7.9	25.2	0.98
F16	18 Nov 2022	41	12.85	92.60	5.4	33.42	7.9	25.2	0.98
F16	18 Nov 2022	42	12.79	92.56	5.4	33.42	7.9	25.2	0.97
F16	18 Nov 2022	43	12.70	92.63	5.5	33.42	7.9	25.2	1.07
F16	18 Nov 2022	44	12.63	92.62	5.6	33.42	7.9	25.2	1.04
F16	18 Nov 2022	45	12.59	92.56	5.6	33.42	7.9	25.3	1.00
F16	18 Nov 2022	46	12.51	92.55	5.6	33.42	7.9	25.3	0.96
F16	18 Nov 2022	47	12.47	92.61	5.5	33.43	7.9	25.3	0.95
F16	18 Nov 2022	48	12.39	92.56	5.5	33.44	7.9	25.3	0.93
F16	18 Nov 2022	49	12.36	92.66	5.4	33.45	7.9	25.3	0.90
F16	18 Nov 2022	50	12.31	92.56	5.3	33.46	7.9	25.3	0.88
F16	18 Nov 2022	51	12.25	92.43	5.2	33.47	7.9	25.4	0.88
F16	18 Nov 2022	52	12.21	92.41	5.2	33.47	7.9	25.4	0.86
F16	18 Nov 2022	53	12.20	92.45	5.1	33.48	7.9	25.4	0.84
F16	18 Nov 2022	54	12.19	92.38	5.1	33.48	7.9	25.4	0.83
F16	18 Nov 2022	55	12.16	92.35	5.0	33.48	7.9	25.4	0.81
F16	18 Nov 2022	56	12.15	92.32	4.9	33.49	7.9	25.4	0.82
F16	18 Nov 2022	57	12.14	92.17	4.9	33.49	7.9	25.4	0.79
F16	18 Nov 2022	58	12.11	91.98	4.8	33.50	7.9	25.4	0.79
F16	18 Nov 2022	59	12.07	91.75	4.7	33.51	7.9	25.4	0.76
F16	18 Nov 2022	60	12.04	91.16	4.7	33.51	7.9	25.4	0.77
F16	18 Nov 2022	61	12.02	91.05	4.7	33.52	7.9	25.4	0.76
F16	18 Nov 2022	62	12.00	90.98	4.7	33.52	7.9	25.4	0.76
F16	18 Nov 2022	63	12.00	91.04	4.6	33.52	7.9	25.4	0.76
F16	18 Nov 2022	64	11.97	91.00	4.6	33.52	7.9	25.4	0.76
F16	18 Nov 2022	65	11.85	90.64	4.6	33.55	7.8	25.5	0.73
F16	18 Nov 2022	66	11.79	90.37	4.5	33.56	7.8	25.5	0.71
F16	18 Nov 2022	67	11.78	90.36	4.5	33.56	7.8	25.5	0.70
F16	18 Nov 2022	68	11.77	90.28	4.4	33.56	7.8	25.5	0.69
F16	18 Nov 2022	69	11.76	90.03	4.4	33.56	7.8	25.5	0.70
F16	18 Nov 2022	70	11.77	89.72	4.4	33.56	7.8	25.5	0.68
F16	18 Nov 2022	71	11.71	89.43	4.4	33.58	7.8	25.5	0.69
F16	18 Nov 2022	72	11.68	89.76	4.4	33.58	7.8	25.5	0.68
F16	18 Nov 2022	73	11.65	90.88	4.4	33.59	7.8	25.6	0.67
F16	18 Nov 2022	74	11.65	91.17	4.3	33.59	7.8	25.6	0.67
F16	18 Nov 2022	75	11.62	91.20	4.3	33.60	7.8	25.6	0.65

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F16	18 Nov 2022	76	11.56	91.18	4.3	33.61	7.8	25.6	0.64
F16	18 Nov 2022	77	11.50	90.85	4.2	33.62	7.8	25.6	0.64
F16	18 Nov 2022	78	11.45	89.81	4.1	33.64	7.8	25.6	0.65
F16	18 Nov 2022	79	11.41	88.86	4.0	33.65	7.8	25.6	0.64
F16	18 Nov 2022	80	11.40	88.34	4.0	33.65	7.8	25.7	0.64
F16	18 Nov 2022	81	11.39	87.48	3.9	33.65	7.8	25.7	0.64
F16	18 Nov 2022	82	11.40	87.22	3.9	33.65	7.8	25.7	0.63
F17	18 Nov 2022	1	17.10	91.29	7.8	33.55	8.2	24.4	0.57
F17	18 Nov 2022	2	17.08	91.13	7.7	33.55	8.2	24.4	0.58
F17	18 Nov 2022	3	17.04	91.06	7.7	33.54	8.2	24.4	0.62
F17	18 Nov 2022	4	16.97	91.09	7.7	33.54	8.2	24.4	0.64
F17	18 Nov 2022	5	16.96	90.94	7.7	33.54	8.2	24.4	0.70
F17	18 Nov 2022	6	16.93	90.84	7.7	33.54	8.2	24.4	0.70
F17	18 Nov 2022	7	16.92	90.94	7.7	33.54	8.2	24.4	0.70
F17	18 Nov 2022	8	16.86	91.03	7.7	33.54	8.2	24.4	0.73
F17	18 Nov 2022	9	16.81	90.99	7.7	33.54	8.2	24.4	0.77
F17	18 Nov 2022	10	16.76	90.73	7.8	33.54	8.2	24.4	0.85
F17	18 Nov 2022	11	16.71	90.62	7.6	33.53	8.2	24.5	0.97
F17	18 Nov 2022	12	16.14	90.71	7.5	33.46	8.2	24.5	1.06
F17	18 Nov 2022	13	15.65	90.48	7.4	33.42	8.1	24.6	1.38
F17	18 Nov 2022	14	15.23	90.29	7.4	33.41	8.1	24.7	1.44
F17	18 Nov 2022	15	15.01	90.31	7.3	33.40	8.1	24.7	1.52
F17	18 Nov 2022	16	14.97	90.65	7.2	33.41	8.1	24.8	1.53
F17	18 Nov 2022	17	14.94	90.66	7.1	33.41	8.1	24.8	1.42
F17	18 Nov 2022	18	14.92	90.67	6.9	33.42	8.1	24.8	1.51
F17	18 Nov 2022	19	14.80	90.36	6.7	33.43	8.1	24.8	1.59
F17	18 Nov 2022	20	14.67	89.88	6.5	33.42	8.1	24.8	1.70
F17	18 Nov 2022	21	14.50	90.05	6.4	33.42	8.0	24.9	1.75
F17	18 Nov 2022	22	14.46	90.05	6.4	33.42	8.0	24.9	1.91
F17	18 Nov 2022	23	14.37	90.21	6.4	33.41	8.0	24.9	1.96
F17	18 Nov 2022	24	14.31	90.48	6.4	33.41	8.0	24.9	1.71
F17	18 Nov 2022	25	14.12	90.83	6.4	33.39	8.0	24.9	1.68
F17	18 Nov 2022	26	14.01	91.36	6.3	33.39	8.0	24.9	1.42
F17	18 Nov 2022	27	13.86	91.47	6.3	33.39	8.0	25.0	1.37
F17	18 Nov 2022	28	13.87	91.81	6.3	33.38	8.0	25.0	1.42
F17	18 Nov 2022	29	13.52	91.88	6.1	33.39	8.0	25.0	1.34
F17	18 Nov 2022	30	13.43	91.98	6.0	33.39	8.0	25.1	1.16
F17	18 Nov 2022	31	13.38	92.23	6.0	33.38	8.0	25.1	1.07
F17	18 Nov 2022	32	13.27	92.27	6.0	33.38	8.0	25.1	1.01
F17	18 Nov 2022	33	13.19	92.26	5.9	33.39	8.0	25.1	1.03
F17	18 Nov 2022	34	13.15	92.39	5.9	33.39	8.0	25.1	1.05
F17	18 Nov 2022	35	13.11	92.42	5.8	33.39	8.0	25.1	1.01
F17	18 Nov 2022	36	13.09	92.37	5.8	33.39	8.0	25.1	1.00
F17	18 Nov 2022	37	13.07	92.43	5.8	33.39	8.0	25.1	0.96
F17	18 Nov 2022	38	13.03	92.51	5.8	33.40	8.0	25.1	0.97
F17	18 Nov 2022	39	12.97	92.51	5.8	33.40	8.0	25.2	1.23
F17	18 Nov 2022	40	12.92	92.43	5.7	33.40	8.0	25.2	0.91
F17	18 Nov 2022	41	12.91	92.48	5.7	33.41	7.9	25.2	0.91
F17	18 Nov 2022	42	12.89	92.57	5.6	33.41	7.9	25.2	0.89
F17	18 Nov 2022	43	12.87	92.62	5.6	33.41	7.9	25.2	0.85
F17	18 Nov 2022	44	12.86	92.62	5.6	33.41	7.9	25.2	0.82
F17	18 Nov 2022	45	12.80	92.67	5.5	33.42	7.9	25.2	0.85
F17	18 Nov 2022	46	12.74	92.66	5.5	33.42	7.9	25.2	0.81
F17	18 Nov 2022	47	12.69	92.59	5.4	33.43	7.9	25.2	0.78
F17	18 Nov 2022	48	12.67	92.53	5.3	33.43	7.9	25.2	0.76
F17	18 Nov 2022	49	12.56	92.51	5.3	33.44	7.9	25.3	0.74
F17	18 Nov 2022	50	12.56	92.56	5.3	33.43	7.9	25.3	0.71
F17	18 Nov 2022	51	12.31	92.65	5.3	33.45	7.9	25.3	0.83
F17	18 Nov 2022	52	12.24	92.49	5.2	33.47	7.9	25.4	0.99
F17	18 Nov 2022	53	12.23	92.21	5.1	33.47	7.9	25.4	0.70

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F17	18 Nov 2022	54	12.26	92.21	5.1	33.47	7.9	25.3	0.68
F17	18 Nov 2022	55	12.17	92.06	5.0	33.49	7.9	25.4	0.66
F17	18 Nov 2022	56	12.15	91.59	4.9	33.49	7.9	25.4	0.64
F17	18 Nov 2022	57	12.15	91.26	4.8	33.49	7.9	25.4	0.63
F17	18 Nov 2022	58	12.12	91.08	4.8	33.50	7.9	25.4	0.62
F17	18 Nov 2022	59	12.07	90.67	4.8	33.50	7.9	25.4	0.62
F17	18 Nov 2022	60	12.02	90.79	4.7	33.51	7.9	25.4	0.60
F17	18 Nov 2022	61	11.98	91.23	4.8	33.52	7.9	25.4	0.64
F17	18 Nov 2022	62	11.95	91.53	4.8	33.52	7.9	25.5	0.57
F17	18 Nov 2022	63	11.94	91.28	4.7	33.53	7.9	25.5	0.58
F17	18 Nov 2022	64	11.95	91.53	4.7	33.53	7.9	25.5	0.56
F17	18 Nov 2022	65	11.90	91.70	4.6	33.53	7.8	25.5	0.56
F17	18 Nov 2022	66	11.85	91.41	4.5	33.54	7.8	25.5	0.55
F17	18 Nov 2022	67	11.78	90.93	4.5	33.56	7.8	25.5	0.54
F17	18 Nov 2022	68	11.73	90.47	4.5	33.57	7.8	25.5	0.53
F17	18 Nov 2022	69	11.63	90.77	4.4	33.59	7.8	25.6	0.52
F17	18 Nov 2022	70	11.57	91.29	4.4	33.60	7.8	25.6	0.50
F17	18 Nov 2022	71	11.54	91.31	4.3	33.61	7.8	25.6	0.49
F17	18 Nov 2022	72	11.52	91.08	4.3	33.61	7.8	25.6	0.48
F17	18 Nov 2022	73	11.50	91.22	4.4	33.62	7.8	25.6	0.46
F17	18 Nov 2022	74	11.48	91.90	4.4	33.62	7.8	25.6	0.45
F17	18 Nov 2022	75	11.47	92.16	4.4	33.62	7.8	25.6	0.45
F17	18 Nov 2022	76	11.46	91.86	4.3	33.63	7.8	25.6	0.46
F17	18 Nov 2022	77	11.45	91.23	4.2	33.63	7.8	25.6	0.46
F17	18 Nov 2022	78	11.44	90.69	4.2	33.63	7.8	25.6	0.46
F17	18 Nov 2022	79	11.41	90.14	4.1	33.64	7.8	25.6	0.45
F17	18 Nov 2022	80	11.38	89.01	4.1	33.65	7.8	25.7	0.45
F17	18 Nov 2022	81	11.36	88.07	4.0	33.66	7.8	25.7	0.46
F17	18 Nov 2022	82	11.34	87.44	4.0	33.66	7.8	25.7	0.46
F18	18 Nov 2022	1	17.17	90.75	7.7	33.55	8.2	24.4	0.53
F18	18 Nov 2022	2	17.16	90.29	7.7	33.55	8.2	24.4	0.53
F18	18 Nov 2022	3	17.13	89.99	7.7	33.54	8.2	24.4	0.54
F18	18 Nov 2022	4	17.06	91.16	7.7	33.55	8.2	24.4	0.56
F18	18 Nov 2022	5	17.05	91.12	7.7	33.55	8.2	24.4	0.60
F18	18 Nov 2022	6	17.04	91.12	7.7	33.54	8.2	24.4	0.63
F18	18 Nov 2022	7	17.04	91.04	7.7	33.54	8.2	24.4	0.67
F18	18 Nov 2022	8	17.03	91.01	7.6	33.55	8.2	24.4	0.68
F18	18 Nov 2022	9	17.03	91.10	7.6	33.55	8.2	24.4	0.70
F18	18 Nov 2022	10	17.03	91.06	7.7	33.55	8.2	24.4	0.73
F18	18 Nov 2022	11	17.02	91.06	7.7	33.55	8.2	24.4	0.79
F18	18 Nov 2022	12	17.02	91.16	7.7	33.55	8.2	24.4	0.78
F18	18 Nov 2022	13	17.01	91.04	7.6	33.54	8.2	24.4	0.79
F18	18 Nov 2022	14	16.99	90.54	7.6	33.54	8.2	24.4	0.86
F18	18 Nov 2022	15	16.97	91.02	7.6	33.54	8.2	24.4	0.91
F18	18 Nov 2022	16	16.66	91.03	7.5	33.49	8.2	24.4	1.01
F18	18 Nov 2022	17	16.15	90.52	7.5	33.45	8.2	24.5	1.17
F18	18 Nov 2022	18	15.83	90.22	7.4	33.44	8.1	24.6	1.54
F18	18 Nov 2022	19	15.66	89.42	7.3	33.43	8.1	24.6	2.05
F18	18 Nov 2022	20	15.47	88.50	7.3	33.41	8.1	24.6	2.40
F18	18 Nov 2022	21	15.28	88.40	7.2	33.40	8.1	24.7	2.52
F18	18 Nov 2022	22	14.70	88.36	7.2	33.38	8.1	24.8	2.42
F18	18 Nov 2022	23	14.30	89.04	7.1	33.37	8.1	24.9	2.59
F18	18 Nov 2022	24	14.20	89.66	7.0	33.37	8.1	24.9	2.23
F18	18 Nov 2022	25	14.15	90.14	6.8	33.38	8.1	24.9	1.98
F18	18 Nov 2022	26	14.07	90.50	6.5	33.39	8.0	24.9	1.74
F18	18 Nov 2022	27	13.86	90.71	6.2	33.40	8.0	25.0	1.52
F18	18 Nov 2022	28	13.76	91.06	6.0	33.40	8.0	25.0	1.47
F18	18 Nov 2022	29	13.68	91.37	6.0	33.39	8.0	25.0	1.33
F18	18 Nov 2022	30	13.62	91.45	6.0	33.39	8.0	25.0	1.26
F18	18 Nov 2022	31	13.62	91.62	6.1	33.39	8.0	25.0	1.35

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F18	18 Nov 2022	32	13.47	91.81	6.1	33.38	8.0	25.0	1.39
F18	18 Nov 2022	33	13.39	91.90	6.0	33.38	8.0	25.1	1.30
F18	18 Nov 2022	34	13.36	92.06	6.0	33.39	8.0	25.1	1.20
F18	18 Nov 2022	35	13.32	92.12	5.9	33.39	8.0	25.1	1.12
F18	18 Nov 2022	36	13.17	92.22	5.9	33.39	8.0	25.1	1.11
F18	18 Nov 2022	37	13.10	92.42	5.9	33.39	8.0	25.1	1.13
F18	18 Nov 2022	38	13.09	92.50	5.8	33.39	8.0	25.1	1.15
F18	18 Nov 2022	39	13.08	92.54	5.8	33.39	8.0	25.1	0.98
F18	18 Nov 2022	40	13.04	92.56	5.8	33.40	8.0	25.1	0.96
F18	18 Nov 2022	41	13.00	92.57	5.7	33.40	8.0	25.2	0.93
F18	18 Nov 2022	42	12.94	92.55	5.6	33.40	8.0	25.2	0.91
F18	18 Nov 2022	43	12.83	92.52	5.6	33.41	8.0	25.2	0.86
F18	18 Nov 2022	44	12.80	92.61	5.6	33.41	7.9	25.2	0.83
F18	18 Nov 2022	45	12.79	92.64	5.5	33.42	7.9	25.2	0.81
F18	18 Nov 2022	46	12.76	92.48	5.4	33.43	7.9	25.2	0.77
F18	18 Nov 2022	47	12.72	91.84	5.2	33.44	7.9	25.2	0.76
F18	18 Nov 2022	48	12.63	90.64	5.2	33.45	7.9	25.3	0.73
F18	18 Nov 2022	49	12.56	90.29	5.1	33.45	7.9	25.3	0.71
F18	18 Nov 2022	50	12.45	90.51	5.1	33.45	7.9	25.3	0.69
F18	18 Nov 2022	51	12.36	91.72	5.1	33.46	7.9	25.3	0.68
F18	18 Nov 2022	52	12.31	92.16	5.0	33.47	7.9	25.3	0.66
F18	18 Nov 2022	53	12.24	92.03	5.0	33.48	7.9	25.4	0.63
F18	18 Nov 2022	54	12.21	92.04	5.0	33.48	7.9	25.4	0.63
F18	18 Nov 2022	55	12.18	91.92	5.0	33.48	7.9	25.4	0.63
F18	18 Nov 2022	56	12.13	92.27	5.0	33.49	7.9	25.4	0.62
F18	18 Nov 2022	57	12.09	92.31	5.0	33.49	7.9	25.4	0.59
F18	18 Nov 2022	58	12.06	92.22	5.0	33.50	7.9	25.4	0.58
F18	18 Nov 2022	59	12.01	92.36	4.9	33.51	7.9	25.4	0.58
F18	18 Nov 2022	60	11.96	92.32	4.8	33.52	7.9	25.4	0.55
F18	18 Nov 2022	61	11.94	92.17	4.8	33.52	7.9	25.5	0.54
F18	18 Nov 2022	62	11.94	92.13	4.8	33.52	7.9	25.5	0.53
F18	18 Nov 2022	63	11.90	92.18	4.7	33.53	7.9	25.5	0.53
F18	18 Nov 2022	64	11.85	92.21	4.7	33.54	7.9	25.5	0.52
F18	18 Nov 2022	65	11.82	91.88	4.7	33.55	7.9	25.5	0.51
F18	18 Nov 2022	66	11.80	91.85	4.7	33.55	7.9	25.5	0.48
F18	18 Nov 2022	67	11.79	91.80	4.7	33.55	7.8	25.5	0.49
F18	18 Nov 2022	68	11.79	91.82	4.6	33.55	7.8	25.5	0.51
F18	18 Nov 2022	69	11.77	91.77	4.6	33.56	7.8	25.5	0.48
F18	18 Nov 2022	70	11.75	91.72	4.6	33.56	7.8	25.5	0.47
F18	18 Nov 2022	71	11.73	91.51	4.5	33.57	7.8	25.5	0.47
F18	18 Nov 2022	72	11.71	91.33	4.5	33.57	7.8	25.5	0.49
F18	18 Nov 2022	73	11.68	90.58	4.3	33.58	7.8	25.5	0.48
F18	18 Nov 2022	74	11.64	88.49	4.2	33.59	7.8	25.6	0.48
F18	18 Nov 2022	75	11.54	87.13	4.1	33.60	7.8	25.6	0.47
F18	18 Nov 2022	76	11.47	86.10	4.0	33.62	7.8	25.6	0.47
F18	18 Nov 2022	77	11.43	86.10	4.0	33.63	7.8	25.6	0.47
F18	18 Nov 2022	78	11.40	86.43	3.9	33.64	7.8	25.6	0.46
F18	18 Nov 2022	79	11.38	85.98	3.9	33.64	7.8	25.7	0.44
F18	18 Nov 2022	80	11.37	84.29	3.8	33.64	7.8	25.7	0.45
F18	18 Nov 2022	81	11.34	82.80	3.8	33.65	7.8	25.7	0.44
F18	18 Nov 2022	82	11.33	81.16	3.7	33.65	7.8	25.7	0.46
F19	18 Nov 2022	1	17.14	91.17	7.7	33.55	8.2	24.4	0.45
F19	18 Nov 2022	2	17.11	88.12	7.7	33.55	8.2	24.4	0.45
F19	18 Nov 2022	3	17.09	88.49	7.7	33.55	8.2	24.4	0.46
F19	18 Nov 2022	4	17.08	90.97	7.7	33.55	8.2	24.4	0.47
F19	18 Nov 2022	5	17.08	90.50	7.7	33.55	8.2	24.4	0.52
F19	18 Nov 2022	6	17.07	88.62	7.7	33.55	8.2	24.4	0.55
F19	18 Nov 2022	7	17.06	90.90	7.7	33.54	8.2	24.4	0.60
F19	18 Nov 2022	8	17.03	90.84	7.7	33.54	8.2	24.4	0.65
F19	18 Nov 2022	9	17.00	90.76	7.7	33.54	8.2	24.4	0.70

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F19	18 Nov 2022	10	16.87	90.48	7.7	33.52	8.2	24.4	0.87
F19	18 Nov 2022	11	16.80	89.93	7.6	33.51	8.2	24.4	1.08
F19	18 Nov 2022	12	16.65	89.41	7.6	33.49	8.2	24.4	1.33
F19	18 Nov 2022	13	16.35	88.81	7.6	33.47	8.2	24.5	1.74
F19	18 Nov 2022	14	16.00	87.70	7.5	33.45	8.2	24.6	2.21
F19	18 Nov 2022	15	15.91	87.47	7.4	33.44	8.1	24.6	2.50
F19	18 Nov 2022	16	15.85	87.72	7.4	33.44	8.1	24.6	2.72
F19	18 Nov 2022	17	15.78	87.94	7.3	33.43	8.1	24.6	3.00
F19	18 Nov 2022	18	15.70	88.15	7.3	33.43	8.1	24.6	2.90
F19	18 Nov 2022	19	15.62	88.29	7.2	33.43	8.1	24.6	3.05
F19	18 Nov 2022	20	15.51	88.31	7.2	33.42	8.1	24.6	2.76
F19	18 Nov 2022	21	15.31	88.50	7.1	33.42	8.1	24.7	2.77
F19	18 Nov 2022	22	15.05	88.58	7.0	33.41	8.1	24.7	2.59
F19	18 Nov 2022	23	14.60	88.66	7.0	33.38	8.1	24.8	2.66
F19	18 Nov 2022	24	14.22	89.20	6.9	33.37	8.1	24.9	2.36
F19	18 Nov 2022	25	13.88	89.60	6.9	33.37	8.1	24.9	2.23
F19	18 Nov 2022	26	13.70	89.97	6.8	33.36	8.1	25.0	2.03
F19	18 Nov 2022	27	13.48	90.43	6.5	33.35	8.0	25.0	1.85
F19	18 Nov 2022	28	13.33	90.98	6.2	33.38	8.0	25.1	1.62
F19	18 Nov 2022	29	13.23	91.57	6.0	33.38	8.0	25.1	1.36
F19	18 Nov 2022	30	13.18	91.86	6.0	33.39	8.0	25.1	1.20
F19	18 Nov 2022	31	13.16	92.17	5.9	33.39	8.0	25.1	1.19
F19	18 Nov 2022	32	13.13	92.26	5.9	33.39	8.0	25.1	1.09
F19	18 Nov 2022	33	13.10	92.25	5.9	33.39	8.0	25.1	1.06
F19	18 Nov 2022	34	13.07	92.23	5.9	33.39	8.0	25.1	1.02
F19	18 Nov 2022	35	12.95	92.34	5.8	33.40	8.0	25.2	0.99
F19	18 Nov 2022	36	12.85	92.41	5.7	33.41	8.0	25.2	0.96
F19	18 Nov 2022	37	12.82	92.47	5.6	33.41	8.0	25.2	0.92
F19	18 Nov 2022	38	12.78	92.57	5.6	33.42	7.9	25.2	0.93
F19	18 Nov 2022	39	12.71	92.58	5.5	33.42	7.9	25.2	0.86
F19	18 Nov 2022	40	12.67	92.58	5.5	33.43	7.9	25.2	0.81
F19	18 Nov 2022	41	12.61	92.58	5.4	33.43	7.9	25.3	0.79
F19	18 Nov 2022	42	12.57	92.55	5.3	33.44	7.9	25.3	0.75
F19	18 Nov 2022	43	12.55	92.43	5.3	33.45	7.9	25.3	0.70
F19	18 Nov 2022	44	12.52	92.42	5.3	33.45	7.9	25.3	0.68
F19	18 Nov 2022	45	12.48	92.47	5.2	33.45	7.9	25.3	0.66
F19	18 Nov 2022	46	12.46	92.47	5.2	33.45	7.9	25.3	0.63
F19	18 Nov 2022	47	12.42	92.36	5.2	33.46	7.9	25.3	0.65
F19	18 Nov 2022	48	12.37	92.29	5.2	33.46	7.9	25.3	0.62
F19	18 Nov 2022	49	12.34	92.29	5.1	33.47	7.9	25.3	0.59
F19	18 Nov 2022	50	12.31	92.24	5.0	33.47	7.9	25.3	0.63
F19	18 Nov 2022	51	12.27	92.08	5.0	33.48	7.9	25.4	0.54
F19	18 Nov 2022	52	12.25	92.01	5.0	33.48	7.9	25.4	0.54
F19	18 Nov 2022	53	12.19	91.85	4.9	33.49	7.9	25.4	0.52
F19	18 Nov 2022	54	12.15	91.77	4.9	33.50	7.9	25.4	0.47
F19	18 Nov 2022	55	12.09	91.88	4.9	33.50	7.9	25.4	0.48
F19	18 Nov 2022	56	12.01	92.11	4.9	33.51	7.9	25.4	0.63
F19	18 Nov 2022	57	11.94	92.25	4.8	33.51	7.9	25.4	0.74
F19	18 Nov 2022	58	11.87	92.29	4.7	33.52	7.9	25.5	0.60
F19	18 Nov 2022	59	11.82	92.18	4.6	33.51	7.9	25.5	0.48
F19	18 Nov 2022	60	11.77	92.02	4.5	33.51	7.8	25.5	0.43
F19	18 Nov 2022	61	11.72	91.81	4.4	33.51	7.8	25.5	0.41
F19	18 Nov 2022	62	11.65	91.58	4.4	33.51	7.8	25.5	0.40
F19	18 Nov 2022	63	11.59	91.14	4.3	33.52	7.8	25.5	0.38
F19	18 Nov 2022	64	11.60	90.81	4.2	33.52	7.8	25.5	0.37
F19	18 Nov 2022	65	11.61	90.87	4.3	33.53	7.8	25.5	0.37
F19	18 Nov 2022	66	11.62	90.95	4.3	33.53	7.8	25.5	0.37
F19	18 Nov 2022	67	11.62	91.11	4.3	33.53	7.8	25.5	0.36
F19	18 Nov 2022	68	11.60	91.22	4.3	33.53	7.8	25.5	0.36
F19	18 Nov 2022	69	11.60	91.19	4.3	33.54	7.8	25.5	0.36
F19	18 Nov 2022	70	11.58	91.20	4.3	33.56	7.8	25.5	0.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F19	18 Nov 2022	71	11.57	91.31	4.3	33.57	7.8	25.6	0.36
F19	18 Nov 2022	72	11.56	91.41	4.3	33.58	7.8	25.6	0.35
F19	18 Nov 2022	73	11.53	91.45	4.2	33.59	7.8	25.6	0.34
F19	18 Nov 2022	74	11.50	91.22	4.2	33.59	7.8	25.6	0.34
F19	18 Nov 2022	75	11.48	90.78	4.2	33.60	7.8	25.6	0.34
F19	18 Nov 2022	76	11.47	90.45	4.1	33.60	7.8	25.6	0.33
F19	18 Nov 2022	77	11.47	90.48	4.1	33.60	7.8	25.6	0.34
F19	18 Nov 2022	78	11.46	90.54	4.1	33.60	7.8	25.6	0.34
F19	18 Nov 2022	79	11.40	90.43	4.0	33.61	7.8	25.6	0.34
F19	18 Nov 2022	80	11.34	89.31	3.9	33.62	7.8	25.6	0.34
F19	18 Nov 2022	81	11.32	86.39	3.8	33.63	7.8	25.6	0.33
F19	18 Nov 2022	82	11.31	85.45	3.8	33.63	7.8	25.7	0.33
F19	18 Nov 2022	83	11.30	84.94	3.8	33.63	7.8	25.7	0.34
F20	18 Nov 2022	1	17.18	91.15	7.7	33.55	8.2	24.4	0.51
F20	18 Nov 2022	2	17.18	90.77	7.7	33.55	8.2	24.4	0.49
F20	18 Nov 2022	3	17.16	90.82	7.7	33.55	8.2	24.4	0.49
F20	18 Nov 2022	4	17.14	91.28	7.7	33.55	8.2	24.4	0.52
F20	18 Nov 2022	5	17.13	91.13	7.6	33.55	8.2	24.4	0.54
F20	18 Nov 2022	6	17.13	91.17	7.6	33.55	8.2	24.4	0.57
F20	18 Nov 2022	7	17.12	91.13	7.7	33.55	8.2	24.4	0.60
F20	18 Nov 2022	8	17.12	91.17	7.7	33.55	8.2	24.4	0.65
F20	18 Nov 2022	9	17.12	91.10	7.6	33.55	8.2	24.4	0.71
F20	18 Nov 2022	10	17.11	91.05	7.6	33.55	8.2	24.4	0.69
F20	18 Nov 2022	11	17.11	91.08	7.6	33.55	8.2	24.4	0.74
F20	18 Nov 2022	12	17.02	91.07	7.5	33.53	8.2	24.4	0.74
F20	18 Nov 2022	13	16.62	90.79	7.6	33.48	8.2	24.4	0.82
F20	18 Nov 2022	14	16.43	90.00	7.7	33.48	8.2	24.5	1.00
F20	18 Nov 2022	15	16.36	90.54	7.6	33.47	8.2	24.5	1.14
F20	18 Nov 2022	16	16.19	90.31	7.4	33.45	8.2	24.5	1.32
F20	18 Nov 2022	17	15.63	89.84	7.3	33.43	8.1	24.6	1.74
F20	18 Nov 2022	18	15.41	89.37	7.2	33.42	8.1	24.7	2.01
F20	18 Nov 2022	19	15.22	89.29	7.3	33.41	8.1	24.7	2.01
F20	18 Nov 2022	20	15.20	89.51	7.2	33.40	8.1	24.7	2.17
F20	18 Nov 2022	21	15.01	89.75	7.2	33.39	8.1	24.7	2.04
F20	18 Nov 2022	22	14.73	89.67	7.2	33.39	8.1	24.8	2.20
F20	18 Nov 2022	23	14.30	89.82	7.1	33.38	8.1	24.9	1.95
F20	18 Nov 2022	24	14.10	89.73	7.0	33.37	8.1	24.9	2.18
F20	18 Nov 2022	25	14.08	89.26	7.0	33.37	8.1	24.9	2.22
F20	18 Nov 2022	26	13.85	89.59	6.8	33.36	8.1	24.9	2.14
F20	18 Nov 2022	27	13.49	89.98	6.7	33.36	8.0	25.0	1.94
F20	18 Nov 2022	28	13.39	90.65	6.6	33.36	8.0	25.0	1.77
F20	18 Nov 2022	29	13.39	91.01	6.6	33.36	8.0	25.0	1.70
F20	18 Nov 2022	30	13.33	91.01	6.5	33.36	8.0	25.1	1.66
F20	18 Nov 2022	31	13.22	91.01	6.4	33.36	8.0	25.1	1.62
F20	18 Nov 2022	32	13.13	91.35	6.1	33.37	8.0	25.1	1.53
F20	18 Nov 2022	33	13.04	91.53	5.9	33.38	8.0	25.1	1.41
F20	18 Nov 2022	34	12.93	91.90	5.8	33.39	8.0	25.2	1.28
F20	18 Nov 2022	35	12.88	92.12	5.7	33.41	8.0	25.2	1.13
F20	18 Nov 2022	36	12.85	92.23	5.7	33.41	8.0	25.2	1.00
F20	18 Nov 2022	37	12.81	92.40	5.6	33.41	8.0	25.2	1.03
F20	18 Nov 2022	38	12.78	92.48	5.5	33.41	7.9	25.2	1.06
F20	18 Nov 2022	39	12.72	92.52	5.5	33.42	7.9	25.2	0.87
F20	18 Nov 2022	40	12.67	92.51	5.4	33.43	7.9	25.2	0.83
F20	18 Nov 2022	41	12.64	92.47	5.4	33.43	7.9	25.2	0.79
F20	18 Nov 2022	42	12.58	92.49	5.3	33.44	7.9	25.3	0.75
F20	18 Nov 2022	43	12.54	92.46	5.2	33.44	7.9	25.3	0.74
F20	18 Nov 2022	44	12.52	92.37	5.2	33.45	7.9	25.3	0.75
F20	18 Nov 2022	45	12.51	92.38	5.2	33.45	7.9	25.3	0.75
F20	18 Nov 2022	46	12.49	92.38	5.2	33.45	7.9	25.3	0.70
F20	18 Nov 2022	47	12.47	92.41	5.2	33.45	7.9	25.3	0.68

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F20	18 Nov 2022	48	12.46	92.40	5.2	33.46	7.9	25.3	0.67
F20	18 Nov 2022	49	12.44	92.38	5.2	33.46	7.9	25.3	0.64
F20	18 Nov 2022	50	12.39	92.36	5.1	33.46	7.9	25.3	0.62
F20	18 Nov 2022	51	12.36	92.29	5.1	33.47	7.9	25.3	0.61
F20	18 Nov 2022	52	12.33	92.31	5.1	33.47	7.9	25.3	0.59
F20	18 Nov 2022	53	12.31	92.28	5.0	33.47	7.9	25.3	0.58
F20	18 Nov 2022	54	12.26	92.11	5.0	33.48	7.9	25.4	0.55
F20	18 Nov 2022	55	12.24	92.09	5.0	33.48	7.9	25.4	0.54
F20	18 Nov 2022	56	12.20	92.13	5.0	33.48	7.9	25.4	0.53
F20	18 Nov 2022	57	12.12	92.21	5.0	33.48	7.9	25.4	0.53
F20	18 Nov 2022	58	12.02	92.48	5.0	33.49	7.9	25.4	0.54
F20	18 Nov 2022	59	11.93	92.53	4.8	33.49	7.9	25.4	0.50
F20	18 Nov 2022	60	11.85	92.17	4.7	33.50	7.9	25.5	0.48
F20	18 Nov 2022	61	11.77	91.85	4.6	33.50	7.9	25.5	0.45
F20	18 Nov 2022	62	11.65	91.66	4.4	33.50	7.8	25.5	0.43
F20	18 Nov 2022	63	11.61	90.88	4.3	33.51	7.8	25.5	0.40
F20	18 Nov 2022	64	11.64	90.45	4.3	33.53	7.8	25.5	0.39
F20	18 Nov 2022	65	11.65	90.67	4.4	33.53	7.8	25.5	0.40
F20	18 Nov 2022	66	11.66	91.14	4.4	33.54	7.8	25.5	0.38
F20	18 Nov 2022	67	11.67	91.38	4.4	33.55	7.8	25.5	0.39
F20	18 Nov 2022	68	11.66	91.53	4.4	33.56	7.8	25.5	0.39
F20	18 Nov 2022	69	11.62	91.49	4.4	33.57	7.8	25.5	0.38
F20	18 Nov 2022	70	11.58	91.40	4.3	33.56	7.8	25.6	0.37
F20	18 Nov 2022	71	11.59	91.51	4.3	33.57	7.8	25.6	0.38
F20	18 Nov 2022	72	11.59	91.60	4.3	33.57	7.8	25.6	0.37
F20	18 Nov 2022	73	11.59	91.78	4.3	33.57	7.8	25.6	0.36
F20	18 Nov 2022	74	11.60	91.76	4.3	33.58	7.8	25.6	0.35
F20	18 Nov 2022	75	11.60	91.73	4.4	33.58	7.8	25.6	0.36
F20	18 Nov 2022	76	11.59	91.70	4.3	33.58	7.8	25.6	0.36
F20	18 Nov 2022	77	11.58	91.38	4.2	33.59	7.8	25.6	0.37
F20	18 Nov 2022	78	11.56	90.54	4.2	33.59	7.8	25.6	0.36
F20	18 Nov 2022	79	11.53	90.13	4.2	33.59	7.8	25.6	0.35
F20	18 Nov 2022	80	11.47	89.68	4.1	33.61	7.8	25.6	0.35
F20	18 Nov 2022	81	11.44	88.48	4.0	33.61	7.8	25.6	0.36
F20	18 Nov 2022	82	11.43	86.90	4.0	33.61	7.8	25.6	0.36
F21	18 Nov 2022	1	17.13	91.07	7.7	33.55	8.2	24.4	0.45
F21	18 Nov 2022	2	17.13	91.26	7.7	33.55	8.2	24.4	0.46
F21	18 Nov 2022	3	17.12	91.32	7.7	33.55	8.2	24.4	0.46
F21	18 Nov 2022	4	17.10	91.19	7.7	33.55	8.2	24.4	0.46
F21	18 Nov 2022	5	17.10	91.22	7.7	33.55	8.2	24.4	0.49
F21	18 Nov 2022	6	17.09	91.16	7.7	33.55	8.2	24.4	0.50
F21	18 Nov 2022	7	17.07	91.15	7.7	33.55	8.2	24.4	0.52
F21	18 Nov 2022	8	17.06	91.12	7.6	33.55	8.2	24.4	0.54
F21	18 Nov 2022	9	17.04	91.13	7.7	33.55	8.2	24.4	0.57
F21	18 Nov 2022	10	17.02	91.24	7.7	33.55	8.2	24.4	0.58
F21	18 Nov 2022	11	16.97	91.24	7.6	33.54	8.2	24.4	0.64
F21	18 Nov 2022	12	16.90	91.21	7.6	33.54	8.2	24.4	0.65
F21	18 Nov 2022	13	16.83	91.17	7.6	33.53	8.2	24.4	0.68
F21	18 Nov 2022	14	16.48	91.08	7.5	33.49	8.2	24.5	0.83
F21	18 Nov 2022	15	15.74	90.74	7.4	33.44	8.2	24.6	1.09
F21	18 Nov 2022	16	15.32	90.12	7.3	33.42	8.1	24.7	1.40
F21	18 Nov 2022	17	15.21	89.43	7.2	33.41	8.1	24.7	1.58
F21	18 Nov 2022	18	15.09	89.27	7.2	33.40	8.1	24.7	1.84
F21	18 Nov 2022	19	15.05	89.38	7.2	33.40	8.1	24.7	1.87
F21	18 Nov 2022	20	14.97	89.40	7.1	33.40	8.1	24.7	1.84
F21	18 Nov 2022	21	14.72	89.60	7.0	33.39	8.1	24.8	2.02
F21	18 Nov 2022	22	14.43	89.69	6.9	33.38	8.1	24.8	2.08
F21	18 Nov 2022	23	14.27	89.58	6.8	33.37	8.1	24.9	2.28
F21	18 Nov 2022	24	14.22	89.61	6.7	33.38	8.1	24.9	2.16
F21	18 Nov 2022	25	14.22	89.57	6.7	33.38	8.0	24.9	2.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F21	18 Nov 2022	26	14.10	89.89	6.5	33.36	8.0	24.9	2.17
F21	18 Nov 2022	27	13.76	89.67	6.5	33.37	8.0	25.0	2.17
F21	18 Nov 2022	28	13.69	89.91	6.4	33.37	8.0	25.0	2.19
F21	18 Nov 2022	29	13.60	89.95	6.4	33.37	8.0	25.0	2.15
F21	18 Nov 2022	30	13.51	90.08	6.4	33.37	8.0	25.0	2.11
F21	18 Nov 2022	31	13.34	90.25	6.5	33.37	8.0	25.1	1.89
F21	18 Nov 2022	32	13.24	90.77	6.5	33.36	8.0	25.1	1.71
F21	18 Nov 2022	33	13.13	91.26	6.3	33.37	8.0	25.1	1.54
F21	18 Nov 2022	34	13.04	91.65	6.0	33.38	8.0	25.1	1.41
F21	18 Nov 2022	35	12.99	91.87	5.8	33.38	8.0	25.1	1.34
F21	18 Nov 2022	36	12.94	91.91	5.8	33.38	8.0	25.2	1.29
F21	18 Nov 2022	37	12.89	92.00	5.7	33.39	8.0	25.2	1.19
F21	18 Nov 2022	38	12.86	92.06	5.7	33.39	8.0	25.2	1.12
F21	18 Nov 2022	39	12.84	92.27	5.6	33.39	8.0	25.2	1.06
F21	18 Nov 2022	40	12.76	92.29	5.6	33.40	7.9	25.2	0.97
F21	18 Nov 2022	41	12.73	92.41	5.6	33.41	7.9	25.2	0.91
F21	18 Nov 2022	42	12.70	92.57	5.5	33.41	7.9	25.2	0.86
F21	18 Nov 2022	43	12.64	92.57	5.5	33.41	7.9	25.2	0.82
F21	18 Nov 2022	44	12.57	92.65	5.5	33.42	7.9	25.3	0.76
F21	18 Nov 2022	45	12.53	92.73	5.5	33.43	7.9	25.3	0.72
F21	18 Nov 2022	46	12.51	92.74	5.5	33.43	7.9	25.3	0.71
F21	18 Nov 2022	47	12.49	92.71	5.5	33.43	7.9	25.3	0.69
F21	18 Nov 2022	48	12.46	92.74	5.5	33.43	7.9	25.3	0.67
F21	18 Nov 2022	49	12.42	92.78	5.5	33.44	7.9	25.3	0.66
F21	18 Nov 2022	50	12.40	92.76	5.5	33.44	7.9	25.3	0.64
F21	18 Nov 2022	51	12.37	92.80	5.5	33.44	7.9	25.3	0.64
F21	18 Nov 2022	52	12.35	92.83	5.5	33.44	7.9	25.3	0.62
F21	18 Nov 2022	53	12.33	92.81	5.5	33.45	7.9	25.3	0.62
F21	18 Nov 2022	54	12.32	92.78	5.5	33.45	7.9	25.3	0.61
F21	18 Nov 2022	55	12.30	92.80	5.4	33.45	7.9	25.3	0.60
F21	18 Nov 2022	56	12.28	92.83	5.3	33.45	7.9	25.3	0.59
F21	18 Nov 2022	57	12.23	92.84	5.3	33.47	7.9	25.4	0.59
F21	18 Nov 2022	58	12.19	92.81	5.2	33.47	7.9	25.4	0.57
F21	18 Nov 2022	59	12.08	92.78	5.2	33.48	7.9	25.4	0.53
F21	18 Nov 2022	60	11.95	92.72	5.1	33.50	7.9	25.4	0.51
F21	18 Nov 2022	61	11.87	92.73	5.2	33.50	7.9	25.4	0.50
F21	18 Nov 2022	62	11.81	92.74	5.4	33.49	7.9	25.5	0.52
F21	18 Nov 2022	63	11.74	92.85	5.4	33.50	7.9	25.5	0.53
F21	18 Nov 2022	64	11.73	92.95	5.3	33.52	7.9	25.5	0.52
F21	18 Nov 2022	65	11.70	92.95	5.2	33.52	7.9	25.5	0.49
F21	18 Nov 2022	66	11.57	92.90	4.9	33.51	7.9	25.5	0.45
F21	18 Nov 2022	67	11.52	92.31	4.5	33.51	7.8	25.5	0.40
F21	18 Nov 2022	68	11.50	91.36	4.3	33.52	7.8	25.5	0.43
F21	18 Nov 2022	69	11.47	90.38	4.2	33.52	7.8	25.5	0.37
F21	18 Nov 2022	70	11.50	90.07	4.2	33.53	7.8	25.5	0.35
F21	18 Nov 2022	71	11.51	90.13	4.1	33.53	7.8	25.5	0.34
F21	18 Nov 2022	72	11.47	90.34	4.1	33.53	7.8	25.5	0.33
F21	18 Nov 2022	73	11.36	90.23	4.0	33.52	7.8	25.6	0.33
F21	18 Nov 2022	74	11.31	89.68	3.9	33.52	7.8	25.6	0.32
F21	18 Nov 2022	75	11.37	89.08	3.9	33.55	7.8	25.6	0.31
F21	18 Nov 2022	76	11.42	89.32	4.0	33.56	7.8	25.6	0.31
F21	18 Nov 2022	77	11.40	90.20	4.0	33.56	7.8	25.6	0.32
F21	18 Nov 2022	78	11.39	90.45	4.0	33.56	7.8	25.6	0.31
F21	18 Nov 2022	79	11.38	90.18	4.0	33.58	7.8	25.6	0.31
F21	18 Nov 2022	80	11.37	89.68	4.0	33.58	7.8	25.6	0.31
F21	18 Nov 2022	81	11.37	88.77	4.0	33.58	7.8	25.6	0.31
F21	18 Nov 2022	82	11.36	88.44	3.9	33.58	7.8	25.6	0.31
F21	18 Nov 2022	83	11.36	88.13	4.0	33.59	7.8	25.6	0.31
F21	18 Nov 2022	84	11.35	87.97	4.0	33.59	7.8	25.6	0.31
F22	18 Nov 2022	1	16.95	91.05	7.7	33.55	8.2	24.4	0.50

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F22	18 Nov 2022	2	16.95	91.03	7.7	33.55	8.2	24.4	0.49
F22	18 Nov 2022	3	16.95	90.88	7.7	33.55	8.2	24.4	0.48
F22	18 Nov 2022	4	16.94	90.92	7.7	33.55	8.2	24.4	0.51
F22	18 Nov 2022	5	16.93	91.04	7.7	33.55	8.2	24.4	0.53
F22	18 Nov 2022	6	16.93	91.00	7.7	33.55	8.2	24.4	0.54
F22	18 Nov 2022	7	16.92	91.09	7.7	33.55	8.2	24.4	0.56
F22	18 Nov 2022	8	16.92	90.96	7.7	33.55	8.2	24.4	0.59
F22	18 Nov 2022	9	16.92	90.98	7.6	33.55	8.2	24.4	0.60
F22	18 Nov 2022	10	16.92	90.96	7.7	33.55	8.2	24.4	0.64
F22	18 Nov 2022	11	16.91	91.03	7.7	33.55	8.2	24.4	0.68
F22	18 Nov 2022	12	16.91	91.07	7.7	33.55	8.2	24.4	0.70
F22	18 Nov 2022	13	16.90	91.00	7.7	33.55	8.2	24.4	0.72
F22	18 Nov 2022	14	16.88	90.98	7.6	33.55	8.2	24.4	0.76
F22	18 Nov 2022	15	16.83	91.04	7.6	33.54	8.2	24.4	0.78
F22	18 Nov 2022	16	16.61	91.01	7.5	33.51	8.2	24.5	0.90
F22	18 Nov 2022	17	16.21	90.94	7.3	33.46	8.2	24.5	1.17
F22	18 Nov 2022	18	15.56	90.26	7.2	33.42	8.1	24.6	1.80
F22	18 Nov 2022	19	15.17	89.21	7.1	33.41	8.1	24.7	2.18
F22	18 Nov 2022	20	15.04	88.78	7.0	33.40	8.1	24.7	2.29
F22	18 Nov 2022	21	14.92	88.95	7.0	33.39	8.1	24.8	2.37
F22	18 Nov 2022	22	14.71	88.91	6.9	33.38	8.1	24.8	2.43
F22	18 Nov 2022	23	14.41	89.12	6.8	33.37	8.1	24.8	2.29
F22	18 Nov 2022	24	14.28	89.48	6.8	33.37	8.1	24.9	2.25
F22	18 Nov 2022	25	14.22	89.63	6.7	33.37	8.0	24.9	2.16
F22	18 Nov 2022	26	14.12	89.93	6.6	33.37	8.0	24.9	2.18
F22	18 Nov 2022	27	14.02	90.06	6.5	33.37	8.0	24.9	2.24
F22	18 Nov 2022	28	13.89	89.98	6.5	33.36	8.0	24.9	2.18
F22	18 Nov 2022	29	13.74	90.09	6.4	33.37	8.0	25.0	2.17
F22	18 Nov 2022	30	13.70	89.99	6.4	33.37	8.0	25.0	2.18
F22	18 Nov 2022	31	13.69	90.01	6.3	33.37	8.0	25.0	2.21
F22	18 Nov 2022	32	13.66	89.89	6.3	33.37	8.0	25.0	2.26
F22	18 Nov 2022	33	13.63	90.00	6.3	33.37	8.0	25.0	2.24
F22	18 Nov 2022	34	13.59	90.02	6.3	33.37	8.0	25.0	2.26
F22	18 Nov 2022	35	13.52	90.14	6.2	33.37	8.0	25.0	2.17
F22	18 Nov 2022	36	13.33	90.30	6.2	33.36	8.0	25.1	1.98
F22	18 Nov 2022	37	13.21	90.67	6.2	33.37	8.0	25.1	1.73
F22	18 Nov 2022	38	13.13	91.07	6.2	33.37	8.0	25.1	1.55
F22	18 Nov 2022	39	13.02	91.47	6.2	33.37	8.0	25.1	1.40
F22	18 Nov 2022	40	12.93	91.88	6.0	33.39	8.0	25.2	1.26
F22	18 Nov 2022	41	12.88	92.04	5.8	33.39	8.0	25.2	1.20
F22	18 Nov 2022	42	12.81	92.20	5.7	33.40	7.9	25.2	1.13
F22	18 Nov 2022	43	12.76	92.30	5.6	33.40	7.9	25.2	1.03
F22	18 Nov 2022	44	12.72	92.38	5.6	33.41	7.9	25.2	0.99
F22	18 Nov 2022	45	12.70	92.46	5.5	33.41	7.9	25.2	0.93
F22	18 Nov 2022	46	12.65	92.51	5.5	33.41	7.9	25.2	0.87
F22	18 Nov 2022	47	12.62	92.56	5.5	33.42	7.9	25.2	0.84
F22	18 Nov 2022	48	12.50	92.58	5.5	33.43	7.9	25.3	0.79
F22	18 Nov 2022	49	12.46	92.68	5.5	33.43	7.9	25.3	0.74
F22	18 Nov 2022	50	12.42	92.73	5.5	33.43	7.9	25.3	0.70
F22	18 Nov 2022	51	12.36	92.75	5.5	33.44	7.9	25.3	0.68
F22	18 Nov 2022	52	12.32	92.78	5.5	33.45	7.9	25.3	0.65
F22	18 Nov 2022	53	12.29	92.80	5.5	33.45	7.9	25.3	0.64
F22	18 Nov 2022	54	12.28	92.81	5.4	33.45	7.9	25.3	0.64
F22	18 Nov 2022	55	12.28	92.80	5.3	33.47	7.9	25.3	0.64
F22	18 Nov 2022	56	12.26	92.73	5.2	33.48	7.9	25.4	0.60
F22	18 Nov 2022	57	12.22	92.63	5.1	33.48	7.9	25.4	0.56
F22	18 Nov 2022	58	12.20	92.54	5.0	33.49	7.9	25.4	0.56
F22	18 Nov 2022	59	12.12	92.42	4.9	33.50	7.9	25.4	0.54
F22	18 Nov 2022	60	12.00	92.40	4.9	33.51	7.9	25.4	0.52
F22	18 Nov 2022	61	11.91	92.43	4.9	33.51	7.9	25.5	0.48
F22	18 Nov 2022	62	11.87	92.48	4.8	33.52	7.9	25.5	0.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F22	18 Nov 2022	63	11.75	92.49	4.7	33.51	7.9	25.5	0.45
F22	18 Nov 2022	64	11.63	92.10	4.5	33.51	7.8	25.5	0.42
F22	18 Nov 2022	65	11.62	91.44	4.4	33.51	7.8	25.5	0.41
F22	18 Nov 2022	66	11.63	90.91	4.3	33.52	7.8	25.5	0.41
F22	18 Nov 2022	67	11.65	90.79	4.4	33.53	7.8	25.5	0.41
F22	18 Nov 2022	68	11.66	91.08	4.4	33.55	7.8	25.5	0.39
F22	18 Nov 2022	69	11.66	91.36	4.4	33.55	7.8	25.5	0.39
F22	18 Nov 2022	70	11.63	91.78	4.4	33.57	7.8	25.5	0.40
F22	18 Nov 2022	71	11.60	92.11	4.4	33.58	7.8	25.6	0.38
F22	18 Nov 2022	72	11.57	92.35	4.3	33.58	7.8	25.6	0.38
F22	18 Nov 2022	73	11.45	92.23	4.2	33.55	7.8	25.6	0.37
F22	18 Nov 2022	74	11.39	91.73	4.0	33.54	7.8	25.6	0.36
F22	18 Nov 2022	75	11.36	90.39	3.9	33.54	7.8	25.6	0.35
F22	18 Nov 2022	76	11.33	89.91	3.9	33.54	7.8	25.6	0.34
F22	18 Nov 2022	77	11.34	89.53	3.9	33.55	7.8	25.6	0.34
F22	18 Nov 2022	78	11.35	89.57	3.9	33.56	7.8	25.6	0.34
F22	18 Nov 2022	79	11.36	89.67	3.9	33.56	7.8	25.6	0.34
F22	18 Nov 2022	80	11.38	89.81	4.0	33.58	7.8	25.6	0.33
F22	18 Nov 2022	81	11.39	89.29	4.0	33.59	7.8	25.6	0.34
F22	18 Nov 2022	82	11.39	88.09	4.0	33.59	7.8	25.6	0.34
F23	18 Nov 2022	1	17.06	91.15	7.7	33.55	8.2	24.4	0.48
F23	18 Nov 2022	2	17.06	91.23	7.7	33.55	8.2	24.4	0.48
F23	18 Nov 2022	3	17.06	91.15	7.7	33.55	8.2	24.4	0.47
F23	18 Nov 2022	4	17.06	91.34	7.7	33.55	8.2	24.4	0.48
F23	18 Nov 2022	5	17.05	91.34	7.7	33.55	8.2	24.4	0.49
F23	18 Nov 2022	6	17.05	91.33	7.7	33.55	8.2	24.4	0.52
F23	18 Nov 2022	7	17.05	91.39	7.7	33.55	8.2	24.4	0.54
F23	18 Nov 2022	8	17.05	91.34	7.7	33.55	8.2	24.4	0.56
F23	18 Nov 2022	9	17.05	91.32	7.7	33.55	8.2	24.4	0.58
F23	18 Nov 2022	10	17.05	91.39	7.7	33.55	8.2	24.4	0.61
F23	18 Nov 2022	11	17.04	91.38	7.7	33.55	8.2	24.4	0.62
F23	18 Nov 2022	12	17.02	91.29	7.6	33.55	8.2	24.4	0.67
F23	18 Nov 2022	13	16.90	91.30	7.4	33.53	8.2	24.4	0.79
F23	18 Nov 2022	14	16.69	91.24	7.2	33.50	8.2	24.4	0.98
F23	18 Nov 2022	15	15.79	90.57	7.2	33.45	8.1	24.6	1.40
F23	18 Nov 2022	16	15.63	89.19	7.2	33.44	8.1	24.6	1.89
F23	18 Nov 2022	17	15.52	88.84	7.2	33.42	8.1	24.6	2.01
F23	18 Nov 2022	18	15.31	88.85	7.1	33.41	8.1	24.7	2.07
F23	18 Nov 2022	19	15.22	89.13	7.1	33.41	8.1	24.7	2.14
F23	18 Nov 2022	20	15.20	89.09	7.0	33.40	8.1	24.7	2.19
F23	18 Nov 2022	21	14.77	89.33	6.8	33.39	8.1	24.8	2.04
F23	18 Nov 2022	22	14.36	90.10	6.8	33.38	8.1	24.9	1.80
F23	18 Nov 2022	23	14.11	90.54	6.7	33.38	8.0	24.9	1.85
F23	18 Nov 2022	24	13.93	90.55	6.5	33.37	8.0	24.9	1.85
F23	18 Nov 2022	25	13.79	90.44	6.5	33.37	8.0	25.0	1.94
F23	18 Nov 2022	26	13.70	90.34	6.4	33.36	8.0	25.0	2.02
F23	18 Nov 2022	27	13.65	90.28	6.3	33.36	8.0	25.0	2.08
F23	18 Nov 2022	28	13.62	90.40	6.3	33.37	8.0	25.0	2.09
F23	18 Nov 2022	29	13.61	90.54	6.3	33.37	8.0	25.0	2.11
F23	18 Nov 2022	30	13.57	90.57	6.3	33.37	8.0	25.0	2.05
F23	18 Nov 2022	31	13.55	90.52	6.3	33.37	8.0	25.0	2.03
F23	18 Nov 2022	32	13.55	90.53	6.2	33.37	8.0	25.0	2.05
F23	18 Nov 2022	33	13.39	90.38	6.1	33.37	8.0	25.1	2.05
F23	18 Nov 2022	34	13.24	90.38	6.0	33.38	8.0	25.1	2.03
F23	18 Nov 2022	35	13.18	90.66	5.9	33.38	8.0	25.1	1.98
F23	18 Nov 2022	36	13.09	90.82	5.8	33.39	8.0	25.1	1.84
F23	18 Nov 2022	37	12.99	91.17	5.7	33.39	8.0	25.2	1.66
F23	18 Nov 2022	38	12.97	91.57	5.7	33.40	7.9	25.2	1.51
F23	18 Nov 2022	39	12.92	91.69	5.6	33.40	7.9	25.2	1.46
F23	18 Nov 2022	40	12.85	91.80	5.6	33.40	7.9	25.2	1.32

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F23	18 Nov 2022	41	12.81	92.02	5.6	33.41	7.9	25.2	1.19
F23	18 Nov 2022	42	12.79	92.17	5.6	33.41	7.9	25.2	1.10
F23	18 Nov 2022	43	12.78	92.25	5.6	33.41	7.9	25.2	1.04
F23	18 Nov 2022	44	12.73	92.32	5.6	33.41	7.9	25.2	1.00
F23	18 Nov 2022	45	12.65	92.39	5.6	33.42	7.9	25.2	0.93
F23	18 Nov 2022	46	12.63	92.47	5.5	33.42	7.9	25.2	0.87
F23	18 Nov 2022	47	12.60	92.52	5.5	33.42	7.9	25.2	0.83
F23	18 Nov 2022	48	12.60	92.54	5.5	33.42	7.9	25.2	0.82
F23	18 Nov 2022	49	12.58	92.50	5.5	33.42	7.9	25.3	0.80
F23	18 Nov 2022	50	12.50	92.53	5.5	33.43	7.9	25.3	0.77
F23	18 Nov 2022	51	12.40	92.66	5.5	33.44	7.9	25.3	0.71
F23	18 Nov 2022	52	12.36	92.71	5.5	33.44	7.9	25.3	0.68
F23	18 Nov 2022	53	12.32	92.72	5.5	33.44	7.9	25.3	0.67
F23	18 Nov 2022	54	12.31	92.73	5.3	33.47	7.9	25.3	0.64
F23	18 Nov 2022	55	12.31	92.67	5.2	33.47	7.9	25.3	0.61
F23	18 Nov 2022	56	12.28	92.50	5.1	33.48	7.9	25.4	0.59
F23	18 Nov 2022	57	12.26	92.38	5.0	33.48	7.9	25.4	0.58
F23	18 Nov 2022	58	12.26	92.41	5.0	33.48	7.9	25.4	0.55
F23	18 Nov 2022	59	12.25	92.38	5.0	33.48	7.9	25.4	0.56
F23	18 Nov 2022	60	12.23	92.35	5.0	33.48	7.9	25.4	0.55
F23	18 Nov 2022	61	12.22	92.34	5.0	33.48	7.9	25.4	0.54
F23	18 Nov 2022	62	12.19	92.36	5.0	33.49	7.9	25.4	0.53
F23	18 Nov 2022	63	12.17	92.39	5.0	33.50	7.9	25.4	0.52
F23	18 Nov 2022	64	12.10	92.26	4.9	33.50	7.9	25.4	0.49
F23	18 Nov 2022	65	11.92	92.20	4.8	33.52	7.9	25.5	0.49
F23	18 Nov 2022	66	11.81	92.13	4.7	33.52	7.8	25.5	0.45
F23	18 Nov 2022	67	11.71	92.11	4.6	33.52	7.8	25.5	0.44
F23	18 Nov 2022	68	11.60	91.84	4.4	33.52	7.8	25.5	0.41
F23	18 Nov 2022	69	11.48	91.36	4.2	33.52	7.8	25.5	0.38
F23	18 Nov 2022	70	11.47	90.34	4.1	33.52	7.8	25.5	0.36
F23	18 Nov 2022	71	11.44	90.08	4.1	33.52	7.8	25.5	0.35
F23	18 Nov 2022	72	11.40	89.97	4.0	33.52	7.8	25.6	0.34
F23	18 Nov 2022	73	11.39	89.82	4.0	33.52	7.8	25.6	0.34
F23	18 Nov 2022	74	11.44	89.82	4.1	33.54	7.8	25.6	0.34
F23	18 Nov 2022	75	11.45	90.14	4.2	33.54	7.8	25.6	0.35
F23	18 Nov 2022	76	11.45	90.60	4.2	33.55	7.8	25.6	0.35
F23	18 Nov 2022	77	11.41	90.85	4.2	33.57	7.8	25.6	0.34
F23	18 Nov 2022	78	11.38	91.05	4.1	33.57	7.8	25.6	0.34
F23	18 Nov 2022	79	11.36	90.83	4.0	33.58	7.8	25.6	0.33
F23	18 Nov 2022	80	11.38	90.60	4.1	33.58	7.8	25.6	0.33
F23	18 Nov 2022	81	11.39	90.47	4.0	33.61	7.8	25.6	0.32
F23	18 Nov 2022	82	11.38	89.84	4.0	33.62	7.8	25.6	0.33
F24	18 Nov 2022	1	17.17	91.59	7.7	33.55	8.2	24.4	0.50
F24	18 Nov 2022	2	17.17	91.56	7.7	33.55	8.2	24.4	0.51
F24	18 Nov 2022	3	17.17	91.48	7.7	33.55	8.2	24.4	0.50
F24	18 Nov 2022	4	17.17	91.64	7.7	33.55	8.2	24.4	0.51
F24	18 Nov 2022	5	17.17	91.62	7.7	33.55	8.2	24.4	0.53
F24	18 Nov 2022	6	17.16	91.72	7.6	33.55	8.2	24.4	0.53
F24	18 Nov 2022	7	17.16	91.71	7.6	33.55	8.2	24.4	0.55
F24	18 Nov 2022	8	17.16	90.99	7.6	33.55	8.2	24.4	0.56
F24	18 Nov 2022	9	17.16	91.63	7.7	33.55	8.2	24.4	0.59
F24	18 Nov 2022	10	17.16	91.63	7.7	33.55	8.2	24.4	0.61
F24	18 Nov 2022	11	17.16	91.67	7.6	33.55	8.2	24.4	0.62
F24	18 Nov 2022	12	17.16	91.65	7.6	33.55	8.2	24.4	0.62
F24	18 Nov 2022	13	17.16	91.64	7.6	33.55	8.2	24.4	0.63
F24	18 Nov 2022	14	17.16	91.61	7.6	33.55	8.2	24.4	0.65
F24	18 Nov 2022	15	17.14	91.63	7.6	33.55	8.2	24.4	0.69
F24	18 Nov 2022	16	17.08	91.65	7.3	33.54	8.2	24.4	0.74
F24	18 Nov 2022	17	16.34	91.51	7.1	33.48	8.1	24.5	0.98
F24	18 Nov 2022	18	15.37	90.90	7.1	33.44	8.1	24.7	1.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F24	18 Nov 2022	19	14.99	90.14	7.1	33.41	8.1	24.7	1.63
F24	18 Nov 2022	20	14.93	89.76	7.0	33.40	8.1	24.8	1.78
F24	18 Nov 2022	21	14.86	89.76	7.0	33.40	8.1	24.8	1.90
F24	18 Nov 2022	22	14.72	89.87	7.0	33.39	8.1	24.8	1.83
F24	18 Nov 2022	23	14.57	90.11	6.9	33.38	8.1	24.8	1.86
F24	18 Nov 2022	24	14.42	90.34	6.8	33.38	8.0	24.8	1.85
F24	18 Nov 2022	25	14.27	90.41	6.7	33.38	8.0	24.9	1.79
F24	18 Nov 2022	26	14.03	90.65	6.7	33.37	8.0	24.9	1.79
F24	18 Nov 2022	27	13.90	90.87	6.6	33.36	8.0	24.9	1.82
F24	18 Nov 2022	28	13.72	90.92	6.5	33.36	8.0	25.0	1.85
F24	18 Nov 2022	29	13.59	90.87	6.4	33.37	8.0	25.0	1.92
F24	18 Nov 2022	30	13.52	90.77	6.3	33.37	8.0	25.0	1.94
F24	18 Nov 2022	31	13.43	90.91	6.2	33.37	8.0	25.0	1.95
F24	18 Nov 2022	32	13.43	90.95	6.1	33.37	8.0	25.0	1.93
F24	18 Nov 2022	33	13.40	90.95	6.1	33.37	8.0	25.1	1.95
F24	18 Nov 2022	34	13.37	90.89	6.1	33.37	8.0	25.1	1.95
F24	18 Nov 2022	35	13.31	90.77	6.0	33.38	8.0	25.1	1.97
F24	18 Nov 2022	36	13.21	90.79	6.0	33.38	8.0	25.1	1.94
F24	18 Nov 2022	37	13.16	90.89	5.9	33.38	8.0	25.1	1.92
F24	18 Nov 2022	38	13.10	90.82	5.9	33.39	7.9	25.1	1.82
F24	18 Nov 2022	39	13.04	91.25	5.8	33.39	7.9	25.1	1.73
F24	18 Nov 2022	40	13.02	91.43	5.8	33.39	7.9	25.1	1.66
F24	18 Nov 2022	41	12.95	91.62	5.7	33.40	7.9	25.2	1.55
F24	18 Nov 2022	42	12.89	91.74	5.6	33.40	7.9	25.2	1.45
F24	18 Nov 2022	43	12.86	91.90	5.6	33.41	7.9	25.2	1.39
F24	18 Nov 2022	44	12.83	91.99	5.6	33.41	7.9	25.2	1.23
F24	18 Nov 2022	45	12.80	92.14	5.6	33.41	7.9	25.2	1.17
F24	18 Nov 2022	46	12.75	92.25	5.6	33.41	7.9	25.2	1.10
F24	18 Nov 2022	47	12.67	92.33	5.6	33.42	7.9	25.2	1.01
F24	18 Nov 2022	48	12.61	92.46	5.6	33.42	7.9	25.2	0.92
F24	18 Nov 2022	49	12.56	92.54	5.5	33.42	7.9	25.3	0.86
F24	18 Nov 2022	50	12.43	92.61	5.5	33.44	7.9	25.3	0.80
F24	18 Nov 2022	51	12.29	92.68	5.5	33.45	7.9	25.3	0.72
F24	18 Nov 2022	52	12.20	92.79	5.4	33.46	7.9	25.4	0.67
F24	18 Nov 2022	53	12.18	92.84	5.3	33.47	7.9	25.4	0.63
F24	18 Nov 2022	54	12.15	92.81	5.2	33.48	7.9	25.4	0.62
F24	18 Nov 2022	55	12.15	92.78	5.2	33.48	7.9	25.4	0.61
F24	18 Nov 2022	56	12.11	92.74	5.0	33.49	7.9	25.4	0.58
F24	18 Nov 2022	57	12.07	92.65	4.9	33.51	7.9	25.4	0.55
F24	18 Nov 2022	58	12.03	92.21	4.9	33.52	7.9	25.4	0.53
F24	18 Nov 2022	59	12.00	92.11	4.8	33.52	7.9	25.4	0.52
F24	18 Nov 2022	60	11.95	92.09	4.8	33.53	7.8	25.5	0.51
F24	18 Nov 2022	61	11.86	92.12	4.8	33.54	7.8	25.5	0.49
F24	18 Nov 2022	62	11.84	92.32	4.8	33.53	7.8	25.5	0.47
F24	18 Nov 2022	63	11.77	92.60	4.8	33.55	7.8	25.5	0.45
F24	18 Nov 2022	64	11.72	92.75	4.7	33.56	7.8	25.5	0.44
F24	18 Nov 2022	65	11.65	92.81	4.6	33.58	7.8	25.5	0.42
F24	18 Nov 2022	66	11.62	92.78	4.6	33.58	7.8	25.6	0.41
F24	18 Nov 2022	67	11.59	92.68	4.5	33.58	7.8	25.6	0.40
F24	18 Nov 2022	68	11.57	92.57	4.5	33.57	7.8	25.6	0.40
F24	18 Nov 2022	69	11.52	92.39	4.4	33.57	7.8	25.6	0.40
F24	18 Nov 2022	70	11.52	91.98	4.3	33.57	7.8	25.6	0.39
F24	18 Nov 2022	71	11.52	91.87	4.4	33.57	7.8	25.6	0.39
F24	18 Nov 2022	72	11.54	91.96	4.4	33.58	7.8	25.6	0.38
F24	18 Nov 2022	73	11.54	92.23	4.4	33.58	7.8	25.6	0.39
F24	18 Nov 2022	74	11.54	92.41	4.4	33.59	7.8	25.6	0.38
F24	18 Nov 2022	75	11.51	92.49	4.3	33.58	7.8	25.6	0.39
F24	18 Nov 2022	76	11.42	92.30	4.2	33.60	7.8	25.6	0.38
F24	18 Nov 2022	77	11.43	90.84	4.2	33.61	7.8	25.6	0.38
F24	18 Nov 2022	78	11.43	90.36	4.1	33.61	7.8	25.6	0.37
F24	18 Nov 2022	79	11.42	90.04	4.1	33.62	7.8	25.6	0.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F24	18 Nov 2022	80	11.39	89.70	4.0	33.63	7.8	25.6	0.37
F24	18 Nov 2022	81	11.30	89.45	4.0	33.65	7.8	25.7	0.37
F24	18 Nov 2022	82	11.24	88.90	3.9	33.67	7.8	25.7	0.37
F25	18 Nov 2022	1	17.23	90.28	7.7	33.56	8.1	24.4	0.45
F25	18 Nov 2022	2	17.22	91.55	7.7	33.56	8.1	24.4	0.46
F25	18 Nov 2022	3	17.22	91.51	7.6	33.56	8.1	24.4	0.45
F25	18 Nov 2022	4	17.22	91.62	7.6	33.56	8.1	24.4	0.47
F25	18 Nov 2022	5	17.22	91.65	7.7	33.55	8.1	24.4	0.48
F25	18 Nov 2022	6	17.22	91.65	7.6	33.56	8.1	24.4	0.48
F25	18 Nov 2022	7	17.22	91.45	7.6	33.56	8.1	24.4	0.51
F25	18 Nov 2022	8	17.22	91.61	7.6	33.56	8.1	24.4	0.52
F25	18 Nov 2022	9	17.22	91.58	7.6	33.56	8.1	24.4	0.55
F25	18 Nov 2022	10	17.22	91.65	7.6	33.56	8.1	24.4	0.55
F25	18 Nov 2022	11	17.22	91.64	7.6	33.55	8.1	24.4	0.58
F25	18 Nov 2022	12	17.22	91.61	7.6	33.55	8.1	24.4	0.59
F25	18 Nov 2022	13	17.22	91.61	7.6	33.55	8.1	24.4	0.60
F25	18 Nov 2022	14	17.22	91.65	7.6	33.55	8.1	24.4	0.62
F25	18 Nov 2022	15	17.22	91.69	7.6	33.56	8.1	24.4	0.64
F25	18 Nov 2022	16	17.22	91.65	7.6	33.55	8.1	24.4	0.63
F25	18 Nov 2022	17	17.22	91.64	7.6	33.55	8.1	24.4	0.64
F25	18 Nov 2022	18	17.14	91.66	7.4	33.54	8.1	24.4	0.66
F25	18 Nov 2022	19	16.68	91.47	7.4	33.50	8.1	24.4	0.89
F25	18 Nov 2022	20	16.20	90.73	7.5	33.46	8.1	24.5	1.35
F25	18 Nov 2022	21	15.76	89.82	7.2	33.42	8.1	24.6	1.54
F25	18 Nov 2022	22	14.83	89.62	7.1	33.40	8.1	24.8	1.75
F25	18 Nov 2022	23	14.80	89.56	7.0	33.40	8.1	24.8	1.93
F25	18 Nov 2022	24	14.76	89.48	7.0	33.39	8.1	24.8	2.04
F25	18 Nov 2022	25	14.56	89.86	7.0	33.39	8.0	24.8	1.96
F25	18 Nov 2022	26	14.52	90.20	6.9	33.38	8.0	24.8	2.03
F25	18 Nov 2022	27	14.31	90.38	6.8	33.38	8.0	24.9	1.85
F25	18 Nov 2022	28	14.18	90.50	6.7	33.38	8.0	24.9	1.78
F25	18 Nov 2022	29	14.05	90.63	6.6	33.37	8.0	24.9	1.82
F25	18 Nov 2022	30	13.63	90.74	6.4	33.37	8.0	25.0	1.82
F25	18 Nov 2022	31	13.38	90.83	6.1	33.37	8.0	25.1	1.81
F25	18 Nov 2022	32	13.30	91.06	6.0	33.37	8.0	25.1	1.80
F25	18 Nov 2022	33	13.23	91.23	5.9	33.37	8.0	25.1	1.78
F25	18 Nov 2022	34	13.02	91.30	5.8	33.39	7.9	25.1	1.72
F25	18 Nov 2022	35	12.99	91.42	5.7	33.39	7.9	25.1	1.57
F25	18 Nov 2022	36	12.97	91.61	5.6	33.39	7.9	25.2	1.45
F25	18 Nov 2022	37	12.95	91.88	5.6	33.39	7.9	25.2	1.34
F25	18 Nov 2022	38	12.94	91.97	5.6	33.40	7.9	25.2	1.28
F25	18 Nov 2022	39	12.90	92.04	5.6	33.40	7.9	25.2	1.23
F25	18 Nov 2022	40	12.88	92.11	5.6	33.40	7.9	25.2	1.18
F25	18 Nov 2022	41	12.85	92.16	5.6	33.40	7.9	25.2	1.16
F25	18 Nov 2022	42	12.84	92.16	5.6	33.41	7.9	25.2	1.16
F25	18 Nov 2022	43	12.84	92.14	5.6	33.41	7.9	25.2	1.16
F25	18 Nov 2022	44	12.84	92.13	5.6	33.41	7.9	25.2	1.20
F25	18 Nov 2022	45	12.84	92.13	5.6	33.41	7.9	25.2	1.17
F25	18 Nov 2022	46	12.84	92.15	5.7	33.41	7.9	25.2	1.15
F25	18 Nov 2022	47	12.80	92.17	5.6	33.41	7.9	25.2	1.13
F25	18 Nov 2022	48	12.70	92.23	5.6	33.42	7.9	25.2	1.04
F25	18 Nov 2022	49	12.66	92.37	5.6	33.42	7.9	25.2	0.95
F25	18 Nov 2022	50	12.66	92.47	5.5	33.42	7.9	25.2	0.88
F25	18 Nov 2022	51	12.64	92.53	5.5	33.42	7.9	25.2	0.86
F25	18 Nov 2022	52	12.64	92.53	5.5	33.42	7.9	25.2	0.84
F25	18 Nov 2022	53	12.52	92.54	5.4	33.43	7.9	25.3	0.80
F25	18 Nov 2022	54	12.39	92.58	5.4	33.44	7.9	25.3	0.75
F25	18 Nov 2022	55	12.31	92.65	5.4	33.45	7.9	25.3	0.66
F25	18 Nov 2022	56	12.26	92.71	5.4	33.46	7.9	25.3	0.62
F25	18 Nov 2022	57	12.19	92.77	5.3	33.47	7.9	25.4	0.58

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F25	18 Nov 2022	58	12.11	92.72	5.2	33.48	7.9	25.4	0.56
F25	18 Nov 2022	59	12.09	92.68	5.1	33.48	7.9	25.4	0.51
F25	18 Nov 2022	60	12.03	92.76	5.1	33.50	7.9	25.4	0.50
F25	18 Nov 2022	61	11.94	92.75	5.0	33.51	7.9	25.4	0.49
F25	18 Nov 2022	62	11.92	92.61	4.9	33.52	7.8	25.5	0.47
F25	18 Nov 2022	63	11.85	92.58	4.8	33.54	7.8	25.5	0.46
F25	18 Nov 2022	64	11.63	92.45	4.6	33.58	7.8	25.6	0.42
F25	18 Nov 2022	65	11.58	92.53	4.6	33.59	7.8	25.6	0.39
F25	18 Nov 2022	66	11.58	92.71	4.6	33.59	7.8	25.6	0.38
F25	18 Nov 2022	67	11.56	92.77	4.6	33.59	7.8	25.6	0.37
F25	18 Nov 2022	68	11.55	92.76	4.5	33.59	7.8	25.6	0.36
F25	18 Nov 2022	69	11.50	92.75	4.4	33.60	7.8	25.6	0.35
F25	18 Nov 2022	70	11.42	92.47	4.3	33.60	7.8	25.6	0.34
F25	18 Nov 2022	71	11.40	91.92	4.2	33.61	7.8	25.6	0.34
F25	18 Nov 2022	72	11.38	91.81	4.2	33.62	7.8	25.6	0.33
F25	18 Nov 2022	73	11.36	91.41	4.1	33.63	7.8	25.6	0.34
F25	18 Nov 2022	74	11.34	91.01	4.1	33.64	7.8	25.7	0.33
F25	18 Nov 2022	75	11.34	90.68	4.0	33.64	7.8	25.7	0.32
F25	18 Nov 2022	76	11.32	90.49	4.0	33.65	7.8	25.7	0.33
F25	18 Nov 2022	77	11.29	89.74	4.0	33.66	7.8	25.7	0.33
F25	18 Nov 2022	78	11.30	89.33	4.0	33.65	7.8	25.7	0.33
F25	18 Nov 2022	79	11.29	88.90	3.9	33.66	7.8	25.7	0.33
F26	15 Nov 2022	1	16.74	87.83	7.9	33.50	8.2	24.4	0.98
F26	15 Nov 2022	2	16.72	88.04	7.9	33.50	8.2	24.4	1.02
F26	15 Nov 2022	3	16.70	88.04	7.9	33.50	8.2	24.4	1.05
F26	15 Nov 2022	4	16.68	88.03	7.9	33.50	8.2	24.4	1.11
F26	15 Nov 2022	5	16.65	88.17	7.9	33.50	8.2	24.4	1.13
F26	15 Nov 2022	6	16.61	88.17	7.9	33.50	8.2	24.5	1.33
F26	15 Nov 2022	7	16.60	88.37	7.9	33.50	8.2	24.5	1.40
F26	15 Nov 2022	8	16.59	88.62	7.8	33.50	8.2	24.5	1.54
F26	15 Nov 2022	9	16.56	88.33	7.8	33.49	8.2	24.5	1.55
F26	15 Nov 2022	10	16.54	88.40	7.9	33.49	8.2	24.5	1.98
F26	15 Nov 2022	11	16.53	88.37	7.8	33.49	8.2	24.5	2.07
F26	15 Nov 2022	12	16.54	88.42	7.8	33.50	8.2	24.5	1.89
F26	15 Nov 2022	13	16.53	88.58	7.8	33.50	8.2	24.5	2.11
F26	15 Nov 2022	14	16.53	88.90	7.8	33.50	8.2	24.5	2.15
F26	15 Nov 2022	15	16.52	88.88	7.8	33.49	8.2	24.5	2.29
F26	15 Nov 2022	16	16.50	88.95	7.8	33.49	8.2	24.5	2.20
F26	15 Nov 2022	17	16.50	88.85	7.7	33.49	8.2	24.5	2.12
F26	15 Nov 2022	18	16.51	89.11	7.7	33.50	8.2	24.5	2.13
F26	15 Nov 2022	19	16.49	89.55	7.7	33.49	8.2	24.5	1.92
F26	15 Nov 2022	20	16.40	89.85	7.5	33.48	8.2	24.5	2.05
F26	15 Nov 2022	21	16.14	89.96	7.3	33.46	8.1	24.5	1.84
F26	15 Nov 2022	22	15.64	90.57	7.2	33.43	8.1	24.6	1.71
F26	15 Nov 2022	23	15.31	91.24	7.2	33.41	8.1	24.7	1.46
F26	15 Nov 2022	24	15.21	91.22	7.0	33.40	8.1	24.7	1.30
F26	15 Nov 2022	25	14.79	91.47	6.9	33.39	8.1	24.8	1.33
F26	15 Nov 2022	26	14.32	91.62	6.7	33.38	8.1	24.9	1.17
F26	15 Nov 2022	27	13.99	92.16	6.6	33.38	8.0	24.9	1.00
F26	15 Nov 2022	28	13.75	92.46	6.5	33.37	8.0	25.0	0.99
F26	15 Nov 2022	29	13.57	92.50	6.5	33.36	8.0	25.0	1.01
F26	15 Nov 2022	30	13.50	92.49	6.5	33.35	8.0	25.0	1.03
F26	15 Nov 2022	31	13.43	92.40	6.5	33.35	8.0	25.0	1.08
F26	15 Nov 2022	32	13.37	92.31	6.6	33.35	8.0	25.0	1.04
F26	15 Nov 2022	33	13.31	92.50	6.5	33.35	8.0	25.1	1.02
F26	15 Nov 2022	34	13.23	92.52	6.5	33.36	8.0	25.1	1.02
F26	15 Nov 2022	35	13.15	92.51	6.4	33.36	8.0	25.1	1.07
F26	15 Nov 2022	36	13.11	92.52	6.4	33.37	8.0	25.1	1.01
F26	15 Nov 2022	37	13.08	92.53	6.4	33.37	8.0	25.1	0.97
F26	15 Nov 2022	38	13.04	92.61	6.2	33.37	8.0	25.1	0.94

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F26	15 Nov 2022	39	12.97	92.54	6.1	33.39	8.0	25.2	0.94
F26	15 Nov 2022	40	12.92	92.52	5.9	33.40	8.0	25.2	0.89
F26	15 Nov 2022	41	12.88	92.53	5.8	33.41	8.0	25.2	0.85
F26	15 Nov 2022	42	12.85	92.49	5.8	33.41	8.0	25.2	0.82
F26	15 Nov 2022	43	12.78	92.51	5.8	33.41	8.0	25.2	0.81
F26	15 Nov 2022	44	12.70	92.63	5.8	33.41	8.0	25.2	0.79
F26	15 Nov 2022	45	12.65	92.59	5.8	33.42	8.0	25.2	0.78
F26	15 Nov 2022	46	12.63	92.61	5.7	33.43	7.9	25.2	0.76
F26	15 Nov 2022	47	12.61	92.54	5.6	33.43	7.9	25.3	0.75
F26	15 Nov 2022	48	12.57	92.57	5.5	33.44	7.9	25.3	0.75
F26	15 Nov 2022	49	12.51	92.63	5.5	33.44	7.9	25.3	0.76
F26	15 Nov 2022	50	12.42	92.59	5.5	33.45	7.9	25.3	0.77
F26	15 Nov 2022	51	12.38	92.66	5.4	33.45	7.9	25.3	0.69
F26	15 Nov 2022	52	12.33	92.71	5.4	33.46	7.9	25.3	0.68
F26	15 Nov 2022	53	12.28	92.57	5.3	33.47	7.9	25.3	0.66
F26	15 Nov 2022	54	12.25	92.63	5.3	33.47	7.9	25.4	0.62
F26	15 Nov 2022	55	12.22	92.62	5.3	33.47	7.9	25.4	0.62
F26	15 Nov 2022	56	12.21	92.63	5.3	33.47	7.9	25.4	0.61
F26	15 Nov 2022	57	12.20	92.64	5.3	33.48	7.9	25.4	0.59
F26	15 Nov 2022	58	12.20	92.64	5.3	33.48	7.9	25.4	0.60
F26	15 Nov 2022	59	12.16	92.61	5.3	33.48	7.9	25.4	0.58
F26	15 Nov 2022	60	12.12	92.65	5.2	33.48	7.9	25.4	0.59
F26	15 Nov 2022	61	12.08	92.63	5.2	33.49	7.9	25.4	0.58
F26	15 Nov 2022	62	12.04	92.60	5.2	33.50	7.9	25.4	0.56
F26	15 Nov 2022	63	12.02	92.55	5.1	33.51	7.9	25.4	0.54
F26	15 Nov 2022	64	12.01	92.47	5.0	33.51	7.9	25.4	0.54
F26	15 Nov 2022	65	12.00	92.45	5.0	33.51	7.9	25.4	0.53
F26	15 Nov 2022	66	11.98	92.45	4.9	33.52	7.9	25.4	0.52
F26	15 Nov 2022	67	11.94	92.40	4.9	33.53	7.9	25.5	0.51
F26	15 Nov 2022	68	11.87	92.45	4.8	33.54	7.9	25.5	0.52
F26	15 Nov 2022	69	11.80	92.39	4.7	33.55	7.9	25.5	0.49
F26	15 Nov 2022	70	11.74	92.45	4.7	33.57	7.8	25.5	0.46
F26	15 Nov 2022	71	11.68	92.40	4.6	33.58	7.8	25.5	0.48
F26	15 Nov 2022	72	11.64	92.43	4.6	33.59	7.8	25.6	0.43
F26	15 Nov 2022	73	11.56	92.43	4.5	33.61	7.8	25.6	0.43
F26	15 Nov 2022	74	11.49	92.46	4.4	33.62	7.8	25.6	0.40
F26	15 Nov 2022	75	11.47	92.46	4.4	33.63	7.8	25.6	0.39
F26	15 Nov 2022	76	11.44	92.50	4.4	33.63	7.8	25.6	0.39
F26	15 Nov 2022	77	11.40	92.49	4.3	33.65	7.8	25.6	0.37
F26	15 Nov 2022	78	11.33	92.51	4.2	33.66	7.8	25.7	0.38
F26	15 Nov 2022	79	11.30	92.53	4.2	33.67	7.8	25.7	0.37
F26	15 Nov 2022	80	11.29	92.53	4.2	33.67	7.8	25.7	0.35
F26	15 Nov 2022	81	11.27	92.55	4.2	33.68	7.8	25.7	0.35
F26	15 Nov 2022	82	11.24	92.58	4.1	33.69	7.8	25.7	0.34
F26	15 Nov 2022	83	11.22	92.54	4.1	33.70	7.8	25.7	0.34
F26	15 Nov 2022	84	11.21	92.45	4.1	33.70	7.8	25.7	0.33
F26	15 Nov 2022	85	11.21	92.47	4.0	33.70	7.8	25.7	0.34
F26	15 Nov 2022	86	11.20	92.52	4.0	33.70	7.8	25.7	0.34
F26	15 Nov 2022	87	11.18	92.49	4.0	33.71	7.8	25.7	0.35
F26	15 Nov 2022	88	11.17	92.50	4.0	33.71	7.8	25.7	0.35
F26	15 Nov 2022	89	11.15	92.50	4.0	33.72	7.8	25.8	0.34
F26	15 Nov 2022	90	11.13	92.46	3.9	33.73	7.8	25.8	0.33
F26	15 Nov 2022	91	11.07	92.30	3.9	33.74	7.8	25.8	0.34
F26	15 Nov 2022	92	11.05	92.09	3.9	33.75	7.8	25.8	0.34
F26	15 Nov 2022	93	11.05	92.08	3.8	33.75	7.8	25.8	0.33
F26	15 Nov 2022	94	11.04	91.99	3.8	33.75	7.8	25.8	0.34
F26	15 Nov 2022	95	11.03	91.99	3.8	33.75	7.8	25.8	0.33
F26	15 Nov 2022	96	11.02	91.88	3.8	33.76	7.8	25.8	0.33
F26	15 Nov 2022	97	11.02	91.80	3.8	33.76	7.8	25.8	0.34
F26	15 Nov 2022	98	11.01	91.73	3.8	33.76	7.8	25.8	0.34
F26	15 Nov 2022	99	10.95	91.47	3.8	33.77	7.8	25.8	0.34

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F26	15 Nov 2022	100	10.98	90.86	3.7	33.77	7.8	25.8	0.34
F27	15 Nov 2022	1	16.77	87.77	7.8	33.49	8.2	24.4	1.25
F27	15 Nov 2022	2	16.77	87.62	7.8	33.49	8.2	24.4	1.28
F27	15 Nov 2022	3	16.75	87.78	7.8	33.49	8.2	24.4	1.40
F27	15 Nov 2022	4	16.71	87.57	7.8	33.48	8.2	24.4	1.50
F27	15 Nov 2022	5	16.65	87.31	7.8	33.48	8.2	24.4	1.79
F27	15 Nov 2022	6	16.60	87.13	7.8	33.48	8.2	24.4	2.13
F27	15 Nov 2022	7	16.54	87.03	7.8	33.47	8.2	24.4	2.12
F27	15 Nov 2022	8	16.42	86.78	7.9	33.47	8.2	24.5	2.31
F27	15 Nov 2022	9	16.40	86.22	7.8	33.46	8.2	24.5	2.30
F27	15 Nov 2022	10	16.39	85.59	7.8	33.46	8.2	24.5	2.46
F27	15 Nov 2022	11	16.38	85.40	7.8	33.46	8.2	24.5	2.81
F27	15 Nov 2022	12	16.38	85.18	7.8	33.46	8.2	24.5	2.77
F27	15 Nov 2022	13	16.38	84.92	7.8	33.46	8.2	24.5	2.80
F27	15 Nov 2022	14	16.38	85.11	7.8	33.46	8.2	24.5	2.82
F27	15 Nov 2022	15	16.37	86.13	7.8	33.46	8.2	24.5	2.94
F27	15 Nov 2022	16	16.37	86.93	7.8	33.46	8.2	24.5	2.93
F27	15 Nov 2022	17	16.36	86.11	7.8	33.46	8.2	24.5	2.95
F27	15 Nov 2022	18	16.35	86.20	7.8	33.46	8.2	24.5	3.06
F27	15 Nov 2022	19	16.33	86.70	7.6	33.46	8.2	24.5	3.03
F27	15 Nov 2022	20	16.33	88.35	7.5	33.46	8.2	24.5	2.96
F27	15 Nov 2022	21	16.24	88.93	7.4	33.45	8.1	24.5	2.69
F27	15 Nov 2022	22	16.16	90.35	7.3	33.44	8.1	24.5	2.56
F27	15 Nov 2022	23	16.06	90.27	7.2	33.43	8.1	24.5	2.18
F27	15 Nov 2022	24	15.93	90.58	7.1	33.43	8.1	24.6	1.75
F27	15 Nov 2022	25	15.67	90.44	6.9	33.41	8.1	24.6	1.86
F27	15 Nov 2022	26	15.11	90.69	6.8	33.40	8.1	24.7	1.50
F27	15 Nov 2022	27	14.45	91.65	6.8	33.39	8.1	24.9	1.59
F27	15 Nov 2022	28	14.12	92.05	6.7	33.36	8.1	24.9	1.40
F27	15 Nov 2022	29	13.60	92.06	6.6	33.36	8.0	25.0	1.14
F27	15 Nov 2022	30	13.52	92.10	6.5	33.36	8.0	25.0	1.11
F27	15 Nov 2022	31	13.46	92.17	6.4	33.36	8.0	25.0	1.03
F27	15 Nov 2022	32	13.38	92.33	6.4	33.36	8.0	25.0	0.97
F27	15 Nov 2022	33	13.27	92.42	6.2	33.37	8.0	25.1	0.94
F27	15 Nov 2022	34	13.25	92.30	6.1	33.38	8.0	25.1	0.94
F27	15 Nov 2022	35	13.24	92.36	6.0	33.38	8.0	25.1	0.91
F27	15 Nov 2022	36	13.21	92.42	6.0	33.39	8.0	25.1	0.89
F27	15 Nov 2022	37	13.17	92.38	5.9	33.39	8.0	25.1	0.90
F27	15 Nov 2022	38	13.00	92.25	6.0	33.38	8.0	25.1	0.89
F27	15 Nov 2022	39	12.94	92.34	6.0	33.38	8.0	25.1	0.91
F27	15 Nov 2022	40	12.87	92.41	6.0	33.38	8.0	25.2	0.93
F27	15 Nov 2022	41	12.80	92.55	5.9	33.39	8.0	25.2	0.88
F27	15 Nov 2022	42	12.73	92.44	5.8	33.39	8.0	25.2	0.85
F27	15 Nov 2022	43	12.67	92.35	5.8	33.40	8.0	25.2	0.90
F27	15 Nov 2022	44	12.62	92.35	5.7	33.41	7.9	25.2	0.82
F27	15 Nov 2022	45	12.60	92.52	5.6	33.41	7.9	25.2	0.80
F27	15 Nov 2022	46	12.53	92.38	5.6	33.42	7.9	25.3	0.78
F27	15 Nov 2022	47	12.42	92.55	5.5	33.44	7.9	25.3	0.76
F27	15 Nov 2022	48	12.38	92.52	5.5	33.44	7.9	25.3	0.75
F27	15 Nov 2022	49	12.33	92.60	5.4	33.45	7.9	25.3	0.71
F27	15 Nov 2022	50	12.31	92.56	5.4	33.45	7.9	25.3	0.69
F27	15 Nov 2022	51	12.30	92.58	5.4	33.45	7.9	25.3	0.70
F27	15 Nov 2022	52	12.30	92.63	5.4	33.45	7.9	25.3	0.69
F27	15 Nov 2022	53	12.29	92.62	5.4	33.45	7.9	25.3	0.68
F27	15 Nov 2022	54	12.27	92.67	5.4	33.45	7.9	25.3	0.69
F27	15 Nov 2022	55	12.23	92.68	5.4	33.46	7.9	25.4	0.65
F27	15 Nov 2022	56	12.20	92.68	5.3	33.47	7.9	25.4	0.65
F27	15 Nov 2022	57	12.15	92.63	5.2	33.48	7.9	25.4	0.63
F27	15 Nov 2022	58	12.10	92.62	5.2	33.49	7.9	25.4	0.61
F27	15 Nov 2022	59	12.02	92.62	5.1	33.50	7.9	25.4	0.59

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F27	15 Nov 2022	60	12.01	92.45	5.0	33.50	7.9	25.4	0.58
F27	15 Nov 2022	61	12.00	92.40	5.0	33.51	7.9	25.4	0.56
F27	15 Nov 2022	62	11.98	92.34	4.9	33.51	7.9	25.4	0.56
F27	15 Nov 2022	63	11.97	92.26	4.8	33.51	7.9	25.4	0.55
F27	15 Nov 2022	64	11.90	92.19	4.8	33.52	7.9	25.5	0.54
F27	15 Nov 2022	65	11.85	91.87	4.7	33.53	7.9	25.5	0.53
F27	15 Nov 2022	66	11.81	91.97	4.7	33.53	7.9	25.5	0.51
F27	15 Nov 2022	67	11.77	92.18	4.6	33.55	7.9	25.5	0.49
F27	15 Nov 2022	68	11.77	92.31	4.7	33.55	7.8	25.5	0.47
F27	15 Nov 2022	69	11.76	92.43	4.7	33.55	7.8	25.5	0.47
F27	15 Nov 2022	70	11.75	92.46	4.7	33.56	7.8	25.5	0.47
F27	15 Nov 2022	71	11.72	92.53	4.6	33.56	7.8	25.5	0.47
F27	15 Nov 2022	72	11.67	92.56	4.6	33.58	7.8	25.5	0.45
F27	15 Nov 2022	73	11.58	92.55	4.5	33.60	7.8	25.6	0.44
F27	15 Nov 2022	74	11.52	92.50	4.5	33.62	7.8	25.6	0.44
F27	15 Nov 2022	75	11.49	92.23	4.4	33.62	7.8	25.6	0.44
F27	15 Nov 2022	76	11.47	91.55	4.3	33.63	7.8	25.6	0.44
F27	15 Nov 2022	77	11.46	91.02	4.3	33.63	7.8	25.6	0.43
F27	15 Nov 2022	78	11.46	90.84	4.3	33.63	7.8	25.6	0.50
F27	15 Nov 2022	79	11.44	90.88	4.3	33.63	7.8	25.6	0.57
F27	15 Nov 2022	80	11.41	90.72	4.2	33.64	7.8	25.6	0.52
F27	15 Nov 2022	81	11.39	90.96	4.2	33.65	7.8	25.7	0.47
F27	15 Nov 2022	82	11.38	91.67	4.2	33.65	7.8	25.7	0.43
F27	15 Nov 2022	83	11.35	91.74	4.2	33.66	7.8	25.7	0.41
F27	15 Nov 2022	84	11.32	91.79	4.2	33.66	7.8	25.7	0.40
F27	15 Nov 2022	85	11.26	91.99	4.2	33.68	7.8	25.7	0.39
F27	15 Nov 2022	86	11.22	92.15	4.1	33.69	7.8	25.7	0.39
F27	15 Nov 2022	87	11.22	92.11	4.0	33.70	7.8	25.7	0.38
F27	15 Nov 2022	88	11.21	91.83	4.0	33.71	7.8	25.7	0.39
F27	15 Nov 2022	89	11.19	91.17	3.9	33.71	7.8	25.7	0.41
F27	15 Nov 2022	90	11.17	90.53	3.9	33.72	7.8	25.7	0.41
F27	15 Nov 2022	91	11.16	90.90	3.9	33.73	7.8	25.8	0.40
F27	15 Nov 2022	92	11.15	91.18	3.8	33.73	7.8	25.8	0.39
F27	15 Nov 2022	93	11.15	91.37	3.8	33.73	7.8	25.8	0.39
F27	15 Nov 2022	94	11.15	91.35	3.8	33.73	7.8	25.8	0.39
F27	15 Nov 2022	95	11.13	91.17	3.8	33.73	7.8	25.8	0.40
F27	15 Nov 2022	96	11.12	90.63	3.8	33.74	7.8	25.8	0.39
F27	15 Nov 2022	97	11.11	90.35	3.7	33.74	7.8	25.8	0.41
F27	15 Nov 2022	98	11.04	89.90	3.7	33.75	7.8	25.8	0.39
F27	15 Nov 2022	99	11.00	89.04	3.7	33.76	7.8	25.8	0.40
F27	15 Nov 2022	100	10.98	88.29	3.6	33.77	7.8	25.8	0.39
F27	15 Nov 2022	101	10.99	88.09	3.6	33.76	7.8	25.8	0.40
F28	15 Nov 2022	1	17.14	90.59	7.7	33.53	8.2	24.4	0.75
F28	15 Nov 2022	2	17.12	90.60	7.6	33.53	8.2	24.4	0.77
F28	15 Nov 2022	3	16.97	90.51	7.6	33.53	8.2	24.4	0.82
F28	15 Nov 2022	4	16.95	90.31	7.6	33.52	8.2	24.4	0.90
F28	15 Nov 2022	5	16.92	90.20	7.6	33.53	8.2	24.4	0.91
F28	15 Nov 2022	6	16.91	90.14	7.6	33.53	8.2	24.4	0.96
F28	15 Nov 2022	7	16.90	90.17	7.6	33.53	8.2	24.4	1.00
F28	15 Nov 2022	8	16.89	90.07	7.6	33.53	8.2	24.4	1.13
F28	15 Nov 2022	9	16.87	90.04	7.6	33.52	8.2	24.4	1.17
F28	15 Nov 2022	10	16.86	89.71	7.6	33.52	8.2	24.4	1.25
F28	15 Nov 2022	11	16.82	89.91	7.6	33.52	8.2	24.4	1.36
F28	15 Nov 2022	12	16.81	90.24	7.6	33.52	8.2	24.4	1.31
F28	15 Nov 2022	13	16.77	90.35	7.5	33.51	8.2	24.4	1.33
F28	15 Nov 2022	14	16.65	90.47	7.3	33.49	8.1	24.4	1.28
F28	15 Nov 2022	15	16.40	90.74	7.3	33.48	8.1	24.5	1.27
F28	15 Nov 2022	16	16.12	91.03	7.1	33.45	8.1	24.5	1.29
F28	15 Nov 2022	17	15.93	91.28	7.1	33.45	8.1	24.6	1.23
F28	15 Nov 2022	18	15.80	91.39	7.0	33.44	8.1	24.6	1.25

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F28	15 Nov 2022	19	15.54	91.50	6.9	33.42	8.1	24.6	1.12
F28	15 Nov 2022	20	15.34	91.69	6.7	33.42	8.1	24.7	1.16
F28	15 Nov 2022	21	14.94	92.01	6.6	33.39	8.1	24.7	1.13
F28	15 Nov 2022	22	14.22	92.29	6.5	33.39	8.1	24.9	0.98
F28	15 Nov 2022	23	14.00	92.48	6.5	33.39	8.0	24.9	0.92
F28	15 Nov 2022	24	13.97	92.54	6.4	33.38	8.0	24.9	0.93
F28	15 Nov 2022	25	13.60	92.58	6.3	33.39	8.0	25.0	0.93
F28	15 Nov 2022	26	13.59	92.52	6.2	33.39	8.0	25.0	0.93
F28	15 Nov 2022	27	13.32	92.50	6.1	33.39	8.0	25.1	0.97
F28	15 Nov 2022	28	13.28	92.46	6.0	33.39	8.0	25.1	0.96
F28	15 Nov 2022	29	13.27	92.46	6.0	33.39	8.0	25.1	0.97
F28	15 Nov 2022	30	13.26	92.46	6.0	33.39	8.0	25.1	0.98
F28	15 Nov 2022	31	13.25	92.50	6.0	33.39	8.0	25.1	0.99
F28	15 Nov 2022	32	13.19	92.42	6.0	33.39	8.0	25.1	0.98
F28	15 Nov 2022	33	13.17	92.46	6.0	33.39	8.0	25.1	1.00
F28	15 Nov 2022	34	12.89	92.46	6.0	33.39	8.0	25.2	1.00
F28	15 Nov 2022	35	12.85	92.54	6.0	33.40	8.0	25.2	1.02
F28	15 Nov 2022	36	12.81	92.60	5.9	33.40	8.0	25.2	0.97
F28	15 Nov 2022	37	12.73	92.62	5.8	33.41	8.0	25.2	0.95
F28	15 Nov 2022	38	12.65	92.63	5.8	33.41	7.9	25.2	0.90
F28	15 Nov 2022	39	12.62	92.63	5.8	33.42	7.9	25.2	0.90
F28	15 Nov 2022	40	12.58	92.69	5.7	33.42	7.9	25.3	0.88
F28	15 Nov 2022	41	12.50	92.65	5.6	33.44	7.9	25.3	0.86
F28	15 Nov 2022	42	12.45	92.65	5.5	33.44	7.9	25.3	0.87
F28	15 Nov 2022	43	12.42	92.67	5.5	33.45	7.9	25.3	0.95
F28	15 Nov 2022	44	12.39	92.68	5.4	33.45	7.9	25.3	0.86
F28	15 Nov 2022	45	12.29	92.60	5.4	33.46	7.9	25.3	0.81
F28	15 Nov 2022	46	12.25	92.68	5.4	33.46	7.9	25.3	0.76
F28	15 Nov 2022	47	12.23	92.69	5.4	33.46	7.9	25.3	0.74
F28	15 Nov 2022	48	12.23	92.67	5.4	33.46	7.9	25.3	0.72
F28	15 Nov 2022	49	12.23	92.67	5.4	33.46	7.9	25.4	0.73
F28	15 Nov 2022	50	12.23	92.70	5.4	33.47	7.9	25.4	0.71
F28	15 Nov 2022	51	12.23	92.69	5.4	33.47	7.9	25.4	0.72
F28	15 Nov 2022	52	12.23	92.71	5.4	33.47	7.9	25.4	0.72
F28	15 Nov 2022	53	12.21	92.67	5.3	33.47	7.9	25.4	0.73
F28	15 Nov 2022	54	12.18	92.67	5.2	33.49	7.9	25.4	0.71
F28	15 Nov 2022	55	12.16	92.63	5.1	33.49	7.9	25.4	0.70
F28	15 Nov 2022	56	12.16	92.60	5.1	33.49	7.9	25.4	0.70
F28	15 Nov 2022	57	12.13	92.49	5.1	33.49	7.9	25.4	0.69
F28	15 Nov 2022	58	12.11	92.50	5.0	33.50	7.9	25.4	0.69
F28	15 Nov 2022	59	12.06	92.52	5.0	33.51	7.9	25.4	0.67
F28	15 Nov 2022	60	12.00	92.47	4.9	33.52	7.9	25.4	0.64
F28	15 Nov 2022	61	11.92	92.33	4.8	33.53	7.9	25.5	0.63
F28	15 Nov 2022	62	11.85	92.26	4.7	33.54	7.8	25.5	0.59
F28	15 Nov 2022	63	11.80	92.18	4.7	33.55	7.8	25.5	0.57
F28	15 Nov 2022	64	11.80	92.37	4.6	33.55	7.8	25.5	0.56
F28	15 Nov 2022	65	11.71	92.39	4.6	33.57	7.8	25.5	0.55
F28	15 Nov 2022	66	11.67	91.86	4.5	33.58	7.8	25.6	0.55
F28	15 Nov 2022	67	11.63	91.60	4.4	33.59	7.8	25.6	0.54
F28	15 Nov 2022	68	11.58	91.39	4.4	33.59	7.8	25.6	0.52
F28	15 Nov 2022	69	11.55	91.40	4.3	33.59	7.8	25.6	0.50
F28	15 Nov 2022	70	11.55	91.39	4.3	33.59	7.8	25.6	0.50
F28	15 Nov 2022	71	11.56	91.37	4.3	33.59	7.8	25.6	0.54
F28	15 Nov 2022	72	11.56	91.40	4.3	33.60	7.8	25.6	0.50
F28	15 Nov 2022	73	11.53	91.27	4.3	33.60	7.8	25.6	0.50
F28	15 Nov 2022	74	11.47	91.39	4.3	33.60	7.8	25.6	0.49
F28	15 Nov 2022	75	11.43	91.49	4.2	33.61	7.8	25.6	0.48
F28	15 Nov 2022	76	11.40	91.51	4.2	33.61	7.8	25.6	0.48
F28	15 Nov 2022	77	11.31	91.25	4.1	33.60	7.8	25.6	0.49
F28	15 Nov 2022	78	11.27	90.71	4.0	33.61	7.8	25.6	0.46
F28	15 Nov 2022	79	11.32	90.85	4.0	33.63	7.8	25.7	0.46

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F28	15 Nov 2022	80	11.30	91.67	4.0	33.63	7.8	25.7	0.45
F28	15 Nov 2022	81	11.27	91.68	4.0	33.63	7.8	25.7	0.46
F28	15 Nov 2022	82	11.23	91.37	3.9	33.64	7.8	25.7	0.46
F28	15 Nov 2022	83	11.22	91.02	3.9	33.64	7.8	25.7	0.45
F28	15 Nov 2022	84	11.24	91.33	4.0	33.66	7.8	25.7	0.46
F28	15 Nov 2022	85	11.24	91.68	4.0	33.66	7.8	25.7	0.44
F28	15 Nov 2022	86	11.22	91.65	4.0	33.67	7.8	25.7	0.45
F28	15 Nov 2022	87	11.22	91.66	4.0	33.67	7.8	25.7	0.45
F28	15 Nov 2022	88	11.17	91.49	4.0	33.68	7.8	25.7	0.44
F28	15 Nov 2022	89	11.16	91.27	3.9	33.69	7.8	25.7	0.45
F28	15 Nov 2022	90	11.16	91.36	3.9	33.70	7.8	25.7	0.45
F28	15 Nov 2022	91	11.14	91.32	3.9	33.71	7.8	25.7	0.44
F28	15 Nov 2022	92	11.13	91.50	3.9	33.72	7.8	25.8	0.45
F28	15 Nov 2022	93	11.13	91.78	3.9	33.72	7.8	25.8	0.44
F28	15 Nov 2022	94	11.12	91.81	3.9	33.72	7.8	25.8	0.45
F28	15 Nov 2022	95	11.12	91.69	3.9	33.72	7.8	25.8	0.47
F28	15 Nov 2022	96	11.11	90.74	3.9	33.72	7.8	25.8	0.45
F28	15 Nov 2022	97	11.10	91.67	3.9	33.73	7.8	25.8	0.45
F28	15 Nov 2022	98	11.09	91.48	3.8	33.73	7.8	25.8	0.46
F28	15 Nov 2022	99	11.07	91.30	3.8	33.73	7.8	25.8	0.45
F28	15 Nov 2022	100	10.96	90.80	3.7	33.76	7.8	25.8	0.47
F28	15 Nov 2022	101	10.88	89.77	3.7	33.78	7.8	25.8	0.48
F29	15 Nov 2022	1	17.29	91.02	7.7	33.54	8.2	24.3	0.65
F29	15 Nov 2022	2	17.24	91.04	7.6	33.54	8.2	24.3	0.65
F29	15 Nov 2022	3	17.18	91.00	7.7	33.54	8.2	24.3	0.67
F29	15 Nov 2022	4	17.11	90.98	7.6	33.53	8.2	24.4	0.67
F29	15 Nov 2022	5	17.09	90.89	7.6	33.53	8.2	24.4	0.70
F29	15 Nov 2022	6	17.08	90.85	7.6	33.53	8.2	24.4	0.73
F29	15 Nov 2022	7	17.07	90.81	7.6	33.53	8.2	24.4	0.76
F29	15 Nov 2022	8	17.06	90.83	7.6	33.53	8.2	24.4	0.77
F29	15 Nov 2022	9	17.06	90.72	7.6	33.53	8.2	24.4	0.81
F29	15 Nov 2022	10	17.05	90.75	7.6	33.53	8.2	24.4	0.86
F29	15 Nov 2022	11	17.05	90.81	7.6	33.53	8.2	24.4	0.88
F29	15 Nov 2022	12	17.04	90.77	7.6	33.53	8.2	24.4	0.91
F29	15 Nov 2022	13	17.04	90.64	7.6	33.53	8.2	24.4	0.98
F29	15 Nov 2022	14	17.03	90.72	7.6	33.53	8.2	24.4	0.98
F29	15 Nov 2022	15	17.02	90.72	7.6	33.53	8.2	24.4	1.03
F29	15 Nov 2022	16	17.01	90.66	7.6	33.53	8.2	24.4	1.11
F29	15 Nov 2022	17	17.00	90.65	7.6	33.53	8.2	24.4	1.15
F29	15 Nov 2022	18	16.96	90.57	7.5	33.53	8.2	24.4	1.19
F29	15 Nov 2022	19	16.91	90.62	7.5	33.52	8.2	24.4	1.25
F29	15 Nov 2022	20	16.71	90.76	7.3	33.51	8.2	24.4	1.27
F29	15 Nov 2022	21	16.33	90.75	7.1	33.47	8.1	24.5	1.35
F29	15 Nov 2022	22	15.68	90.81	7.0	33.45	8.1	24.6	1.38
F29	15 Nov 2022	23	15.46	91.27	6.9	33.44	8.1	24.7	1.24
F29	15 Nov 2022	24	15.40	91.54	6.8	33.43	8.1	24.7	1.18
F29	15 Nov 2022	25	15.36	91.61	6.8	33.43	8.1	24.7	1.17
F29	15 Nov 2022	26	15.29	91.65	6.7	33.43	8.1	24.7	1.16
F29	15 Nov 2022	27	15.12	91.69	6.6	33.41	8.1	24.7	1.13
F29	15 Nov 2022	28	14.66	91.81	6.6	33.40	8.1	24.8	1.05
F29	15 Nov 2022	29	14.32	91.90	6.6	33.40	8.0	24.9	1.04
F29	15 Nov 2022	30	14.21	92.15	6.6	33.39	8.0	24.9	1.04
F29	15 Nov 2022	31	14.10	92.42	6.6	33.39	8.0	24.9	1.02
F29	15 Nov 2022	32	13.96	92.34	6.5	33.38	8.0	24.9	0.99
F29	15 Nov 2022	33	13.84	92.43	6.4	33.38	8.0	25.0	1.22
F29	15 Nov 2022	34	13.76	92.50	6.4	33.39	8.0	25.0	0.97
F29	15 Nov 2022	35	13.62	92.61	6.3	33.39	8.0	25.0	0.95
F29	15 Nov 2022	36	13.55	92.66	6.2	33.39	8.0	25.0	0.94
F29	15 Nov 2022	37	13.36	92.66	6.1	33.40	8.0	25.1	0.94
F29	15 Nov 2022	38	13.32	92.70	6.1	33.40	8.0	25.1	0.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F29	15 Nov 2022	39	13.27	92.65	6.0	33.40	8.0	25.1	0.94
F29	15 Nov 2022	40	13.22	92.65	5.9	33.40	8.0	25.1	0.91
F29	15 Nov 2022	41	13.15	92.69	5.8	33.41	8.0	25.1	0.89
F29	15 Nov 2022	42	12.87	92.76	5.7	33.43	8.0	25.2	0.89
F29	15 Nov 2022	43	12.75	92.74	5.6	33.44	7.9	25.2	0.84
F29	15 Nov 2022	44	12.73	92.76	5.5	33.44	7.9	25.2	0.82
F29	15 Nov 2022	45	12.72	92.77	5.5	33.45	7.9	25.2	0.82
F29	15 Nov 2022	46	12.69	92.78	5.5	33.45	7.9	25.3	0.82
F29	15 Nov 2022	47	12.63	92.78	5.4	33.45	7.9	25.3	0.81
F29	15 Nov 2022	48	12.52	92.78	5.3	33.46	7.9	25.3	0.80
F29	15 Nov 2022	49	12.36	92.74	5.2	33.48	7.9	25.3	0.78
F29	15 Nov 2022	50	12.29	92.73	5.2	33.48	7.9	25.4	0.74
F29	15 Nov 2022	51	12.18	92.72	5.1	33.50	7.9	25.4	0.72
F29	15 Nov 2022	52	12.09	92.66	5.0	33.51	7.9	25.4	0.71
F29	15 Nov 2022	53	12.03	92.60	5.0	33.51	7.9	25.4	0.66
F29	15 Nov 2022	54	11.97	92.44	4.9	33.52	7.9	25.4	0.66
F29	15 Nov 2022	55	11.90	92.25	4.8	33.53	7.9	25.5	0.62
F29	15 Nov 2022	56	11.73	92.02	4.6	33.54	7.9	25.5	0.59
F29	15 Nov 2022	57	11.57	91.18	4.4	33.55	7.8	25.5	0.54
F29	15 Nov 2022	58	11.48	90.02	4.2	33.53	7.8	25.5	0.51
F29	15 Nov 2022	59	11.47	89.04	4.1	33.54	7.8	25.6	0.50
F29	15 Nov 2022	60	11.47	89.04	4.1	33.54	7.8	25.6	0.49
F29	15 Nov 2022	61	11.42	89.16	4.0	33.54	7.8	25.6	0.48
F29	15 Nov 2022	62	11.39	88.78	4.0	33.54	7.8	25.6	0.48
F29	15 Nov 2022	63	11.39	88.60	4.0	33.54	7.8	25.6	0.46
F29	15 Nov 2022	64	11.38	88.95	4.0	33.55	7.8	25.6	0.46
F29	15 Nov 2022	65	11.35	89.22	3.9	33.54	7.8	25.6	0.46
F29	15 Nov 2022	66	11.33	88.82	3.9	33.55	7.8	25.6	0.45
F29	15 Nov 2022	67	11.31	88.59	3.8	33.55	7.8	25.6	0.46
F29	15 Nov 2022	68	11.30	88.62	3.8	33.55	7.8	25.6	0.45
F29	15 Nov 2022	69	11.28	88.53	3.8	33.55	7.8	25.6	0.45
F29	15 Nov 2022	70	11.27	87.81	3.8	33.55	7.8	25.6	0.44
F29	15 Nov 2022	71	11.23	87.55	3.7	33.55	7.8	25.6	0.45
F29	15 Nov 2022	72	11.23	87.34	3.7	33.55	7.8	25.6	0.45
F29	15 Nov 2022	73	11.23	87.45	3.7	33.55	7.8	25.6	0.45
F29	15 Nov 2022	74	11.27	87.46	3.8	33.56	7.8	25.6	0.45
F29	15 Nov 2022	75	11.29	88.27	3.8	33.57	7.8	25.6	0.44
F29	15 Nov 2022	76	11.28	89.37	3.8	33.58	7.8	25.6	0.44
F29	15 Nov 2022	77	11.28	89.87	3.9	33.62	7.8	25.6	0.44
F29	15 Nov 2022	78	11.25	91.00	4.0	33.63	7.8	25.7	0.43
F29	15 Nov 2022	79	11.24	90.94	4.0	33.64	7.8	25.7	0.43
F29	15 Nov 2022	80	11.25	91.08	4.0	33.66	7.8	25.7	0.43
F29	15 Nov 2022	81	11.25	91.69	4.0	33.67	7.8	25.7	0.44
F29	15 Nov 2022	82	11.25	91.92	4.0	33.68	7.8	25.7	0.44
F29	15 Nov 2022	83	11.24	91.96	4.0	33.68	7.8	25.7	0.44
F29	15 Nov 2022	84	11.23	91.95	4.0	33.68	7.8	25.7	0.43
F29	15 Nov 2022	85	11.22	92.02	4.0	33.69	7.8	25.7	0.44
F29	15 Nov 2022	86	11.21	92.15	4.0	33.69	7.8	25.7	0.43
F29	15 Nov 2022	87	11.18	92.22	4.0	33.70	7.8	25.7	0.43
F29	15 Nov 2022	88	11.11	92.21	3.9	33.73	7.8	25.8	0.42
F29	15 Nov 2022	89	11.08	92.30	3.9	33.74	7.8	25.8	0.41
F29	15 Nov 2022	90	11.07	92.30	3.9	33.74	7.8	25.8	0.42
F29	15 Nov 2022	91	11.07	92.25	3.9	33.74	7.8	25.8	0.41
F29	15 Nov 2022	92	11.05	92.30	3.8	33.75	7.8	25.8	0.42
F29	15 Nov 2022	93	11.04	92.29	3.8	33.75	7.8	25.8	0.42
F29	15 Nov 2022	94	11.04	92.31	3.8	33.75	7.8	25.8	0.42
F29	15 Nov 2022	95	11.03	92.28	3.8	33.75	7.8	25.8	0.41
F29	15 Nov 2022	96	11.03	92.16	3.8	33.75	7.8	25.8	0.41
F29	15 Nov 2022	97	11.03	92.13	3.8	33.75	7.8	25.8	0.42
F29	15 Nov 2022	98	11.01	92.13	3.8	33.76	7.8	25.8	0.42
F29	15 Nov 2022	99	10.95	91.44	3.7	33.77	7.8	25.8	0.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F29	15 Nov 2022	100	10.90	90.64	3.7	33.78	7.8	25.8	0.44
F30	15 Nov 2022	1	17.34	90.73	7.7	33.54	8.2	24.3	0.56
F30	15 Nov 2022	2	17.28	90.75	7.7	33.54	8.2	24.3	0.58
F30	15 Nov 2022	3	17.22	90.70	7.7	33.54	8.2	24.3	0.60
F30	15 Nov 2022	4	17.21	90.66	7.7	33.54	8.2	24.3	0.61
F30	15 Nov 2022	5	17.19	90.64	7.6	33.54	8.2	24.3	0.62
F30	15 Nov 2022	6	17.19	90.64	7.6	33.54	8.2	24.3	0.62
F30	15 Nov 2022	7	17.15	90.64	7.6	33.53	8.2	24.4	0.65
F30	15 Nov 2022	8	17.11	90.60	7.6	33.54	8.2	24.4	0.69
F30	15 Nov 2022	9	17.10	90.63	7.7	33.53	8.2	24.4	0.72
F30	15 Nov 2022	10	17.09	90.57	7.6	33.53	8.2	24.4	0.78
F30	15 Nov 2022	11	17.09	90.48	7.6	33.53	8.2	24.4	0.81
F30	15 Nov 2022	12	17.08	90.50	7.7	33.53	8.2	24.4	0.86
F30	15 Nov 2022	13	17.07	90.57	7.6	33.53	8.2	24.4	0.91
F30	15 Nov 2022	14	17.06	90.48	7.6	33.53	8.2	24.4	0.98
F30	15 Nov 2022	15	17.02	90.49	7.6	33.53	8.2	24.4	1.02
F30	15 Nov 2022	16	16.99	90.57	7.5	33.53	8.2	24.4	1.08
F30	15 Nov 2022	17	16.96	90.46	7.5	33.52	8.2	24.4	1.15
F30	15 Nov 2022	18	16.92	90.37	7.5	33.52	8.2	24.4	1.27
F30	15 Nov 2022	19	16.91	90.33	7.5	33.52	8.2	24.4	1.42
F30	15 Nov 2022	20	16.88	90.41	7.5	33.52	8.2	24.4	1.38
F30	15 Nov 2022	21	16.85	90.42	7.5	33.51	8.2	24.4	1.40
F30	15 Nov 2022	22	16.83	90.50	7.4	33.51	8.2	24.4	1.41
F30	15 Nov 2022	23	16.79	90.54	7.2	33.50	8.2	24.4	1.52
F30	15 Nov 2022	24	16.12	90.60	7.1	33.45	8.1	24.5	1.44
F30	15 Nov 2022	25	15.66	90.82	7.0	33.45	8.1	24.6	1.40
F30	15 Nov 2022	26	15.50	91.05	7.0	33.44	8.1	24.7	1.43
F30	15 Nov 2022	27	15.31	91.18	6.9	33.43	8.1	24.7	1.43
F30	15 Nov 2022	28	15.19	91.32	6.8	33.43	8.1	24.7	1.26
F30	15 Nov 2022	29	15.12	91.41	6.7	33.42	8.1	24.7	1.20
F30	15 Nov 2022	30	14.88	91.53	6.6	33.42	8.1	24.8	1.16
F30	15 Nov 2022	31	14.74	91.74	6.5	33.41	8.1	24.8	1.12
F30	15 Nov 2022	32	14.51	91.81	6.5	33.40	8.0	24.8	1.07
F30	15 Nov 2022	33	14.32	92.02	6.5	33.40	8.0	24.9	1.07
F30	15 Nov 2022	34	14.08	92.19	6.4	33.39	8.0	24.9	1.03
F30	15 Nov 2022	35	13.83	92.24	6.3	33.38	8.0	25.0	1.00
F30	15 Nov 2022	36	13.63	92.34	6.2	33.39	8.0	25.0	0.96
F30	15 Nov 2022	37	13.44	92.45	6.1	33.40	8.0	25.1	0.94
F30	15 Nov 2022	38	13.38	92.54	6.0	33.40	8.0	25.1	0.96
F30	15 Nov 2022	39	13.33	92.56	6.0	33.40	8.0	25.1	0.98
F30	15 Nov 2022	40	13.32	92.59	5.9	33.40	8.0	25.1	0.93
F30	15 Nov 2022	41	13.25	92.61	5.8	33.40	8.0	25.1	0.91
F30	15 Nov 2022	42	13.00	92.63	5.8	33.41	8.0	25.2	0.92
F30	15 Nov 2022	43	12.90	92.49	5.6	33.41	8.0	25.2	0.89
F30	15 Nov 2022	44	12.76	92.54	5.6	33.42	7.9	25.2	0.86
F30	15 Nov 2022	45	12.69	92.65	5.5	33.43	7.9	25.2	0.84
F30	15 Nov 2022	46	12.63	92.68	5.5	33.43	7.9	25.3	0.83
F30	15 Nov 2022	47	12.61	92.66	5.5	33.44	7.9	25.3	0.81
F30	15 Nov 2022	48	12.55	92.66	5.4	33.45	7.9	25.3	0.83
F30	15 Nov 2022	49	12.47	92.65	5.3	33.45	7.9	25.3	0.79
F30	15 Nov 2022	50	12.39	92.63	5.3	33.46	7.9	25.3	0.76
F30	15 Nov 2022	51	12.36	92.63	5.3	33.47	7.9	25.3	0.72
F30	15 Nov 2022	52	12.27	92.58	5.2	33.48	7.9	25.4	0.70
F30	15 Nov 2022	53	12.21	92.62	5.1	33.48	7.9	25.4	0.69
F30	15 Nov 2022	54	12.14	92.59	5.0	33.49	7.9	25.4	0.65
F30	15 Nov 2022	55	11.93	92.55	4.8	33.52	7.9	25.5	0.62
F30	15 Nov 2022	56	11.57	91.93	4.5	33.53	7.9	25.5	0.55
F30	15 Nov 2022	57	11.43	90.70	4.3	33.53	7.8	25.6	0.50
F30	15 Nov 2022	58	11.36	90.03	4.2	33.53	7.8	25.6	0.47
F30	15 Nov 2022	59	11.33	89.82	4.1	33.53	7.8	25.6	0.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
F30	15 Nov 2022	60	11.32	89.60	4.1	33.53	7.8	25.6	0.44
F30	15 Nov 2022	61	11.30	89.54	4.1	33.54	7.8	25.6	0.43
F30	15 Nov 2022	62	11.29	89.52	4.0	33.54	7.8	25.6	0.42
F30	15 Nov 2022	63	11.27	89.40	4.0	33.54	7.8	25.6	0.42
F30	15 Nov 2022	64	11.26	89.33	4.0	33.54	7.8	25.6	0.42
F30	15 Nov 2022	65	11.25	89.40	4.0	33.56	7.8	25.6	0.41
F30	15 Nov 2022	66	11.24	89.49	3.9	33.56	7.8	25.6	0.41
F30	15 Nov 2022	67	11.24	89.49	3.9	33.57	7.8	25.6	0.41
F30	15 Nov 2022	68	11.24	89.45	4.0	33.57	7.8	25.6	0.41
F30	15 Nov 2022	69	11.24	89.48	4.0	33.57	7.8	25.6	0.40
F30	15 Nov 2022	70	11.24	89.51	3.9	33.57	7.8	25.6	0.40
F30	15 Nov 2022	71	11.24	89.55	3.9	33.57	7.8	25.6	0.40
F30	15 Nov 2022	72	11.24	89.60	3.9	33.57	7.8	25.6	0.41
F30	15 Nov 2022	73	11.24	89.70	3.9	33.57	7.8	25.6	0.40
F30	15 Nov 2022	74	11.24	89.68	3.9	33.58	7.8	25.6	0.41
F30	15 Nov 2022	75	11.24	89.74	4.0	33.58	7.8	25.6	0.40
F30	15 Nov 2022	76	11.24	89.82	4.0	33.58	7.8	25.6	0.40
F30	15 Nov 2022	77	11.24	89.74	3.9	33.58	7.8	25.6	0.41
F30	15 Nov 2022	78	11.24	89.79	3.9	33.59	7.8	25.6	0.40
F30	15 Nov 2022	79	11.25	90.11	4.0	33.60	7.8	25.6	0.40
F30	15 Nov 2022	80	11.29	90.52	4.0	33.62	7.8	25.6	0.40
F30	15 Nov 2022	81	11.31	91.08	4.0	33.64	7.8	25.7	0.40
F30	15 Nov 2022	82	11.31	91.47	4.0	33.64	7.8	25.7	0.40
F30	15 Nov 2022	83	11.30	91.78	4.1	33.64	7.8	25.7	0.40
F30	15 Nov 2022	84	11.29	91.68	4.1	33.65	7.8	25.7	0.40
F30	15 Nov 2022	85	11.27	91.55	4.0	33.66	7.8	25.7	0.40
F30	15 Nov 2022	86	11.19	91.50	4.0	33.70	7.8	25.7	0.41
F30	15 Nov 2022	87	11.10	91.78	3.9	33.73	7.8	25.8	0.40
F30	15 Nov 2022	88	10.98	92.01	3.8	33.76	7.8	25.8	0.39
F30	15 Nov 2022	89	10.93	92.22	3.8	33.77	7.8	25.8	0.38
F30	15 Nov 2022	90	10.91	92.05	3.8	33.78	7.8	25.8	0.37
F30	15 Nov 2022	91	10.89	91.56	3.8	33.78	7.8	25.8	0.37
F30	15 Nov 2022	92	10.87	91.26	3.7	33.78	7.8	25.9	0.38
F30	15 Nov 2022	93	10.86	91.73	3.7	33.79	7.8	25.9	0.39
F30	15 Nov 2022	94	10.86	91.47	3.7	33.79	7.8	25.9	0.41
F30	15 Nov 2022	95	10.86	91.30	3.7	33.79	7.8	25.9	0.40
F30	15 Nov 2022	96	10.86	91.09	3.7	33.79	7.8	25.9	0.38
F30	15 Nov 2022	97	10.86	91.16	3.7	33.79	7.8	25.9	0.38
F30	15 Nov 2022	98	10.86	91.15	3.7	33.79	7.8	25.9	0.38
F30	15 Nov 2022	99	10.86	63.28	3.7	33.79	7.8	25.9	0.38
F31	15 Nov 2022	1	17.39	90.71	7.6	33.54	8.2	24.3	0.60
F31	15 Nov 2022	2	17.24	90.70	7.6	33.54	8.2	24.3	0.61
F31	15 Nov 2022	3	17.19	90.52	7.6	33.54	8.2	24.3	0.63
F31	15 Nov 2022	4	17.16	90.33	7.6	33.54	8.2	24.4	0.66
F31	15 Nov 2022	5	17.15	90.33	7.6	33.54	8.2	24.4	0.69
F31	15 Nov 2022	6	17.14	90.56	7.6	33.54	8.2	24.4	0.71
F31	15 Nov 2022	7	17.12	90.60	7.6	33.54	8.2	24.4	0.74
F31	15 Nov 2022	8	17.11	90.54	7.6	33.53	8.2	24.4	0.79
F31	15 Nov 2022	9	17.10	90.57	7.6	33.53	8.2	24.4	0.84
F31	15 Nov 2022	10	17.04	90.43	7.6	33.53	8.2	24.4	0.93
F31	15 Nov 2022	11	16.96	90.33	7.6	33.52	8.2	24.4	1.05
F31	15 Nov 2022	12	16.85	90.21	7.5	33.52	8.2	24.4	1.13
F31	15 Nov 2022	13	16.81	90.30	7.5	33.51	8.2	24.4	1.18
F31	15 Nov 2022	14	16.72	90.44	7.4	33.50	8.2	24.4	1.29
F31	15 Nov 2022	15	16.53	90.51	7.3	33.49	8.1	24.5	1.25
F31	15 Nov 2022	16	16.20	91.00	7.1	33.46	8.1	24.5	1.24
F31	15 Nov 2022	17	15.59	90.87	7.1	33.44	8.1	24.6	1.39
F31	15 Nov 2022	18	15.39	90.79	7.1	33.43	8.1	24.7	1.43
F31	15 Nov 2022	19	15.27	90.86	7.0	33.42	8.1	24.7	1.53
F31	15 Nov 2022	20	15.22	90.84	7.0	33.42	8.1	24.7	1.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F31	15 Nov 2022	21	15.17	90.88	7.0	33.42	8.1	24.7	1.58
F31	15 Nov 2022	22	15.08	90.92	7.0	33.41	8.1	24.7	1.53
F31	15 Nov 2022	23	15.00	91.01	7.0	33.42	8.1	24.8	1.51
F31	15 Nov 2022	24	14.95	91.13	6.9	33.41	8.1	24.8	1.51
F31	15 Nov 2022	25	14.86	91.19	6.8	33.41	8.1	24.8	1.46
F31	15 Nov 2022	26	14.73	91.33	6.7	33.41	8.1	24.8	1.42
F31	15 Nov 2022	27	14.60	91.47	6.6	33.41	8.0	24.8	1.33
F31	15 Nov 2022	28	14.44	91.67	6.4	33.41	8.0	24.9	1.22
F31	15 Nov 2022	29	14.08	91.81	6.3	33.40	8.0	24.9	1.11
F31	15 Nov 2022	30	13.91	92.09	6.2	33.40	8.0	25.0	1.12
F31	15 Nov 2022	31	13.85	92.35	6.2	33.40	8.0	25.0	1.00
F31	15 Nov 2022	32	13.82	92.45	6.1	33.40	8.0	25.0	0.97
F31	15 Nov 2022	33	13.45	92.41	6.1	33.39	8.0	25.1	0.97
F31	15 Nov 2022	34	13.30	92.54	6.0	33.40	8.0	25.1	0.96
F31	15 Nov 2022	35	13.26	92.61	5.9	33.40	8.0	25.1	0.93
F31	15 Nov 2022	36	13.22	92.62	5.9	33.41	8.0	25.1	0.90
F31	15 Nov 2022	37	13.17	92.63	5.8	33.41	8.0	25.1	0.91
F31	15 Nov 2022	38	13.10	92.64	5.8	33.41	8.0	25.1	0.91
F31	15 Nov 2022	39	13.02	92.65	5.8	33.41	8.0	25.2	0.92
F31	15 Nov 2022	40	12.99	92.66	5.8	33.41	7.9	25.2	0.90
F31	15 Nov 2022	41	12.87	92.48	5.7	33.42	7.9	25.2	0.90
F31	15 Nov 2022	42	12.79	92.59	5.6	33.43	7.9	25.2	0.87
F31	15 Nov 2022	43	12.75	92.65	5.6	33.43	7.9	25.2	0.86
F31	15 Nov 2022	44	12.67	92.67	5.5	33.44	7.9	25.2	0.85
F31	15 Nov 2022	45	12.65	92.65	5.5	33.44	7.9	25.3	0.85
F31	15 Nov 2022	46	12.59	92.61	5.4	33.44	7.9	25.3	0.85
F31	15 Nov 2022	47	12.55	92.58	5.4	33.45	7.9	25.3	0.82
F31	15 Nov 2022	48	12.52	92.61	5.4	33.45	7.9	25.3	0.80
F31	15 Nov 2022	49	12.45	92.63	5.3	33.46	7.9	25.3	0.78
F31	15 Nov 2022	50	12.40	92.68	5.3	33.47	7.9	25.3	0.78
F31	15 Nov 2022	51	12.26	92.66	5.2	33.48	7.9	25.4	0.75
F31	15 Nov 2022	52	12.19	92.65	5.1	33.49	7.9	25.4	0.71
F31	15 Nov 2022	53	12.16	92.53	5.1	33.49	7.9	25.4	0.70
F31	15 Nov 2022	54	12.15	92.43	5.1	33.49	7.9	25.4	0.68
F31	15 Nov 2022	55	12.15	92.61	5.1	33.49	7.9	25.4	0.67
F31	15 Nov 2022	56	12.03	92.53	5.0	33.52	7.9	25.4	0.64
F31	15 Nov 2022	57	12.02	92.53	4.9	33.52	7.9	25.4	0.63
F31	15 Nov 2022	58	12.00	92.51	4.9	33.52	7.9	25.4	0.62
F31	15 Nov 2022	59	11.95	92.51	4.8	33.53	7.9	25.5	0.61
F31	15 Nov 2022	60	11.89	92.53	4.8	33.54	7.9	25.5	0.58
F31	15 Nov 2022	61	11.87	92.55	4.8	33.55	7.8	25.5	0.58
F31	15 Nov 2022	62	11.78	92.41	4.7	33.56	7.8	25.5	0.58
F31	15 Nov 2022	63	11.74	92.38	4.6	33.56	7.8	25.5	0.54
F31	15 Nov 2022	64	11.72	92.26	4.6	33.56	7.8	25.5	0.53
F31	15 Nov 2022	65	11.68	92.29	4.6	33.57	7.8	25.5	0.52
F31	15 Nov 2022	66	11.62	92.32	4.5	33.58	7.8	25.6	0.50
F31	15 Nov 2022	67	11.59	92.36	4.5	33.58	7.8	25.6	0.49
F31	15 Nov 2022	68	11.53	92.33	4.4	33.59	7.8	25.6	0.48
F31	15 Nov 2022	69	11.53	92.33	4.4	33.60	7.8	25.6	0.47
F31	15 Nov 2022	70	11.53	92.36	4.4	33.60	7.8	25.6	0.46
F31	15 Nov 2022	71	11.53	92.42	4.4	33.60	7.8	25.6	0.47
F31	15 Nov 2022	72	11.53	92.49	4.4	33.60	7.8	25.6	0.46
F31	15 Nov 2022	73	11.52	92.45	4.4	33.61	7.8	25.6	0.46
F31	15 Nov 2022	74	11.50	92.52	4.4	33.61	7.8	25.6	0.45
F31	15 Nov 2022	75	11.49	92.47	4.4	33.62	7.8	25.6	0.45
F31	15 Nov 2022	76	11.45	92.58	4.3	33.63	7.8	25.6	0.45
F31	15 Nov 2022	77	11.38	92.61	4.3	33.64	7.8	25.6	0.43
F31	15 Nov 2022	78	11.38	92.57	4.3	33.64	7.8	25.7	0.43
F31	15 Nov 2022	79	11.37	92.53	4.3	33.65	7.8	25.7	0.43
F31	15 Nov 2022	80	11.36	92.46	4.2	33.65	7.8	25.7	0.43
F31	15 Nov 2022	81	11.34	92.44	4.2	33.65	7.8	25.7	0.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F31	15 Nov 2022	82	11.31	92.33	4.2	33.66	7.8	25.7	0.42
F31	15 Nov 2022	83	11.29	92.22	4.1	33.66	7.8	25.7	0.43
F31	15 Nov 2022	84	11.28	92.18	4.1	33.66	7.8	25.7	0.43
F31	15 Nov 2022	85	11.27	92.21	4.1	33.67	7.8	25.7	0.43
F31	15 Nov 2022	86	11.22	92.12	4.1	33.69	7.8	25.7	0.43
F31	15 Nov 2022	87	11.21	91.81	4.0	33.69	7.8	25.7	0.42
F31	15 Nov 2022	88	11.20	91.65	4.0	33.69	7.8	25.7	0.42
F31	15 Nov 2022	89	11.19	91.54	4.0	33.69	7.8	25.7	0.43
F31	15 Nov 2022	90	11.18	91.43	4.0	33.70	7.8	25.7	0.43
F31	15 Nov 2022	91	11.17	91.42	4.0	33.70	7.8	25.7	0.43
F31	15 Nov 2022	92	11.17	91.39	4.0	33.70	7.8	25.7	0.42
F31	15 Nov 2022	93	11.16	91.49	4.0	33.70	7.8	25.7	0.42
F31	15 Nov 2022	94	11.14	91.34	3.9	33.70	7.8	25.7	0.42
F31	15 Nov 2022	95	11.07	90.90	3.9	33.73	7.8	25.8	0.43
F31	15 Nov 2022	96	11.06	90.44	3.9	33.73	7.8	25.8	0.43
F31	15 Nov 2022	97	10.95	90.50	3.8	33.76	7.8	25.8	0.42
F31	15 Nov 2022	98	10.88	91.17	3.8	33.78	7.8	25.8	0.42
F31	15 Nov 2022	99	10.84	90.71	3.7	33.79	7.8	25.9	0.41
F31	15 Nov 2022	100	10.87	90.14	3.7	33.78	7.8	25.8	0.41
F32	15 Nov 2022	1	17.40	90.99	7.7	33.54	8.2	24.3	0.61
F32	15 Nov 2022	2	17.30	91.00	7.6	33.54	8.2	24.3	0.62
F32	15 Nov 2022	3	17.19	90.78	7.7	33.54	8.2	24.3	0.64
F32	15 Nov 2022	4	17.18	90.53	7.6	33.54	8.2	24.4	0.67
F32	15 Nov 2022	5	17.16	90.43	7.6	33.54	8.2	24.4	0.71
F32	15 Nov 2022	6	17.15	90.41	7.6	33.54	8.2	24.4	0.73
F32	15 Nov 2022	7	17.15	90.49	7.5	33.54	8.2	24.4	0.78
F32	15 Nov 2022	8	17.14	90.48	7.5	33.54	8.2	24.4	0.79
F32	15 Nov 2022	9	17.14	90.53	7.6	33.54	8.2	24.4	0.82
F32	15 Nov 2022	10	17.14	90.49	7.6	33.54	8.2	24.4	0.88
F32	15 Nov 2022	11	17.13	90.39	7.6	33.54	8.2	24.4	0.87
F32	15 Nov 2022	12	17.12	90.51	7.6	33.54	8.2	24.4	0.96
F32	15 Nov 2022	13	17.11	90.39	7.6	33.54	8.2	24.4	1.02
F32	15 Nov 2022	14	17.09	90.30	7.6	33.53	8.2	24.4	1.05
F32	15 Nov 2022	15	17.07	90.15	7.6	33.53	8.2	24.4	1.16
F32	15 Nov 2022	16	17.05	90.18	7.6	33.53	8.2	24.4	1.25
F32	15 Nov 2022	17	17.04	90.08	7.6	33.53	8.2	24.4	1.32
F32	15 Nov 2022	18	16.92	90.05	7.6	33.52	8.2	24.4	1.38
F32	15 Nov 2022	19	16.79	90.18	7.5	33.51	8.2	24.4	1.44
F32	15 Nov 2022	20	16.67	90.33	7.5	33.50	8.2	24.4	1.50
F32	15 Nov 2022	21	16.60	90.50	7.5	33.49	8.1	24.4	1.51
F32	15 Nov 2022	22	16.40	90.59	7.4	33.48	8.1	24.5	1.76
F32	15 Nov 2022	23	16.06	90.50	7.3	33.46	8.1	24.6	1.84
F32	15 Nov 2022	24	15.55	90.39	7.2	33.42	8.1	24.6	1.87
F32	15 Nov 2022	25	14.87	90.47	7.0	33.40	8.1	24.8	1.82
F32	15 Nov 2022	26	14.68	90.61	6.9	33.39	8.1	24.8	1.80
F32	15 Nov 2022	27	14.59	90.61	6.8	33.39	8.1	24.8	1.81
F32	15 Nov 2022	28	14.44	90.91	6.7	33.38	8.1	24.8	1.76
F32	15 Nov 2022	29	14.06	91.05	6.6	33.38	8.0	24.9	1.67
F32	15 Nov 2022	30	13.89	91.55	6.4	33.38	8.0	25.0	1.50
F32	15 Nov 2022	31	13.65	92.00	6.2	33.39	8.0	25.0	1.28
F32	15 Nov 2022	32	13.56	92.37	6.1	33.39	8.0	25.0	1.12
F32	15 Nov 2022	33	13.49	92.42	6.1	33.39	8.0	25.0	1.02
F32	15 Nov 2022	34	13.36	92.46	6.1	33.39	8.0	25.1	0.98
F32	15 Nov 2022	35	13.26	92.58	6.0	33.38	8.0	25.1	0.98
F32	15 Nov 2022	36	13.07	92.40	5.9	33.38	8.0	25.1	1.07
F32	15 Nov 2022	37	13.01	92.31	5.7	33.38	8.0	25.1	1.16
F32	15 Nov 2022	38	12.79	92.41	5.6	33.40	7.9	25.2	1.09
F32	15 Nov 2022	39	12.73	92.54	5.6	33.41	7.9	25.2	0.99
F32	15 Nov 2022	40	12.65	92.61	5.5	33.41	7.9	25.2	0.91
F32	15 Nov 2022	41	12.59	92.59	5.5	33.42	7.9	25.2	0.86

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F32	15 Nov 2022	42	12.59	92.58	5.5	33.42	7.9	25.2	0.85
F32	15 Nov 2022	43	12.51	92.61	5.4	33.43	7.9	25.3	0.83
F32	15 Nov 2022	44	12.45	92.57	5.5	33.43	7.9	25.3	0.80
F32	15 Nov 2022	45	12.43	92.60	5.5	33.44	7.9	25.3	0.79
F32	15 Nov 2022	46	12.41	92.65	5.4	33.44	7.9	25.3	0.79
F32	15 Nov 2022	47	12.37	92.67	5.4	33.44	7.9	25.3	0.76
F32	15 Nov 2022	48	12.32	92.66	5.4	33.45	7.9	25.3	0.75
F32	15 Nov 2022	49	12.22	92.61	5.4	33.46	7.9	25.4	0.71
F32	15 Nov 2022	50	12.17	92.66	5.3	33.47	7.9	25.4	0.68
F32	15 Nov 2022	51	12.14	92.75	5.3	33.47	7.9	25.4	0.66
F32	15 Nov 2022	52	12.12	92.75	5.3	33.47	7.9	25.4	0.64
F32	15 Nov 2022	53	12.11	92.78	5.3	33.48	7.9	25.4	0.65
F32	15 Nov 2022	54	12.09	92.76	5.3	33.48	7.9	25.4	0.63
F32	15 Nov 2022	55	12.04	92.79	5.3	33.48	7.9	25.4	0.62
F32	15 Nov 2022	56	12.04	92.79	5.2	33.50	7.9	25.4	0.62
F32	15 Nov 2022	57	12.04	92.60	5.0	33.51	7.9	25.4	0.62
F32	15 Nov 2022	58	11.97	92.42	4.8	33.53	7.9	25.5	0.60
F32	15 Nov 2022	59	11.92	92.31	4.8	33.54	7.9	25.5	0.59
F32	15 Nov 2022	60	11.88	92.15	4.7	33.55	7.8	25.5	0.57
F32	15 Nov 2022	61	11.87	92.02	4.7	33.55	7.8	25.5	0.57
F32	15 Nov 2022	62	11.86	92.02	4.7	33.55	7.8	25.5	0.55
F32	15 Nov 2022	63	11.82	92.10	4.6	33.56	7.8	25.5	0.56
F32	15 Nov 2022	64	11.72	92.09	4.5	33.57	7.8	25.5	0.53
F32	15 Nov 2022	65	11.64	92.02	4.5	33.58	7.8	25.6	0.50
F32	15 Nov 2022	66	11.60	92.06	4.5	33.59	7.8	25.6	0.49
F32	15 Nov 2022	67	11.57	92.34	4.5	33.59	7.8	25.6	0.47
F32	15 Nov 2022	68	11.55	92.47	4.5	33.60	7.8	25.6	0.46
F32	15 Nov 2022	69	11.55	92.59	4.5	33.60	7.8	25.6	0.45
F32	15 Nov 2022	70	11.55	92.63	4.5	33.60	7.8	25.6	0.45
F32	15 Nov 2022	71	11.54	92.69	4.5	33.60	7.8	25.6	0.45
F32	15 Nov 2022	72	11.53	92.75	4.4	33.61	7.8	25.6	0.44
F32	15 Nov 2022	73	11.46	92.76	4.4	33.62	7.8	25.6	0.44
F32	15 Nov 2022	74	11.37	92.77	4.3	33.65	7.8	25.7	0.42
F32	15 Nov 2022	75	11.36	92.68	4.3	33.65	7.8	25.7	0.41
F32	15 Nov 2022	76	11.32	92.64	4.2	33.66	7.8	25.7	0.41
F32	15 Nov 2022	77	11.32	92.59	4.2	33.66	7.8	25.7	0.42
F32	15 Nov 2022	78	11.31	92.54	4.2	33.66	7.8	25.7	0.41
F32	15 Nov 2022	79	11.31	92.47	4.2	33.67	7.8	25.7	0.42
F32	15 Nov 2022	80	11.30	92.46	4.2	33.67	7.8	25.7	0.42
F32	15 Nov 2022	81	11.29	92.40	4.2	33.67	7.8	25.7	0.42
F32	15 Nov 2022	82	11.27	92.35	4.1	33.68	7.8	25.7	0.43
F32	15 Nov 2022	83	11.25	92.27	4.1	33.68	7.8	25.7	0.41
F32	15 Nov 2022	84	11.22	92.19	4.1	33.69	7.8	25.7	0.42
F32	15 Nov 2022	85	11.18	92.07	4.0	33.70	7.8	25.7	0.42
F32	15 Nov 2022	86	11.15	92.01	4.0	33.71	7.8	25.7	0.41
F32	15 Nov 2022	87	11.13	91.90	4.0	33.71	7.8	25.8	0.42
F32	15 Nov 2022	88	11.12	91.83	4.0	33.72	7.8	25.8	0.41
F32	15 Nov 2022	89	11.09	91.77	3.9	33.72	7.8	25.8	0.41
F32	15 Nov 2022	90	11.08	91.78	3.9	33.73	7.8	25.8	0.41
F32	15 Nov 2022	91	11.07	91.83	3.9	33.73	7.8	25.8	0.40
F32	15 Nov 2022	92	11.04	91.85	3.9	33.73	7.8	25.8	0.41
F32	15 Nov 2022	93	11.00	91.27	3.8	33.75	7.8	25.8	0.41
F32	15 Nov 2022	94	10.93	90.93	3.8	33.76	7.8	25.8	0.41
F32	15 Nov 2022	95	10.87	90.19	3.7	33.78	7.8	25.8	0.40
F32	15 Nov 2022	96	10.83	90.01	3.7	33.79	7.8	25.9	0.40
F32	15 Nov 2022	97	10.79	90.68	3.7	33.80	7.8	25.9	0.40
F32	15 Nov 2022	98	10.78	91.31	3.7	33.80	7.8	25.9	0.39
F32	15 Nov 2022	99	10.77	91.45	3.7	33.80	7.8	25.9	0.39
F32	15 Nov 2022	100	10.73	91.47	3.6	33.81	7.8	25.9	0.39
F33	15 Nov 2022	1	17.47	90.88	7.6	33.55	8.2	24.3	0.59

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F33	15 Nov 2022	2	17.31	90.86	7.7	33.54	8.2	24.3	0.61
F33	15 Nov 2022	3	17.28	90.56	7.7	33.54	8.2	24.3	0.63
F33	15 Nov 2022	4	17.26	90.37	7.6	33.54	8.2	24.3	0.66
F33	15 Nov 2022	5	17.25	90.33	7.6	33.54	8.2	24.3	0.69
F33	15 Nov 2022	6	17.25	90.33	7.6	33.54	8.2	24.3	0.71
F33	15 Nov 2022	7	17.24	90.35	7.7	33.54	8.2	24.3	0.74
F33	15 Nov 2022	8	17.24	90.34	7.6	33.54	8.2	24.3	0.77
F33	15 Nov 2022	9	17.23	90.36	7.6	33.54	8.2	24.3	0.80
F33	15 Nov 2022	10	17.23	90.35	7.7	33.54	8.2	24.3	0.84
F33	15 Nov 2022	11	17.22	90.29	7.6	33.54	8.2	24.3	0.88
F33	15 Nov 2022	12	17.22	90.31	7.6	33.54	8.2	24.3	0.92
F33	15 Nov 2022	13	17.21	90.33	7.6	33.54	8.2	24.3	0.97
F33	15 Nov 2022	14	17.20	90.31	7.7	33.54	8.2	24.3	1.02
F33	15 Nov 2022	15	17.20	90.26	7.7	33.54	8.2	24.3	1.08
F33	15 Nov 2022	16	17.19	90.25	7.6	33.54	8.2	24.3	1.13
F33	15 Nov 2022	17	17.19	90.21	7.6	33.54	8.2	24.3	1.18
F33	15 Nov 2022	18	17.18	90.19	7.6	33.54	8.2	24.3	1.23
F33	15 Nov 2022	19	17.17	90.14	7.6	33.54	8.2	24.4	1.30
F33	15 Nov 2022	20	17.14	90.16	7.6	33.53	8.2	24.4	1.41
F33	15 Nov 2022	21	17.13	90.16	7.6	33.53	8.2	24.4	1.46
F33	15 Nov 2022	22	17.12	90.20	7.6	33.53	8.2	24.4	1.46
F33	15 Nov 2022	23	17.11	90.30	7.5	33.53	8.2	24.4	1.51
F33	15 Nov 2022	24	16.79	90.33	7.2	33.48	8.2	24.4	1.59
F33	15 Nov 2022	25	15.70	90.14	7.3	33.43	8.1	24.6	1.84
F33	15 Nov 2022	26	15.04	89.91	7.2	33.40	8.1	24.7	2.00
F33	15 Nov 2022	27	14.62	90.06	7.0	33.38	8.1	24.8	2.07
F33	15 Nov 2022	28	14.30	90.21	6.9	33.36	8.1	24.9	2.10
F33	15 Nov 2022	29	14.12	90.26	6.7	33.35	8.1	24.9	2.14
F33	15 Nov 2022	30	13.89	90.41	6.6	33.35	8.0	24.9	2.07
F33	15 Nov 2022	31	13.72	90.66	6.5	33.35	8.0	25.0	2.00
F33	15 Nov 2022	32	13.67	90.99	6.4	33.35	8.0	25.0	1.97
F33	15 Nov 2022	33	13.61	91.11	6.3	33.35	8.0	25.0	1.91
F33	15 Nov 2022	34	13.48	91.22	6.2	33.35	8.0	25.0	1.87
F33	15 Nov 2022	35	13.34	91.35	6.2	33.36	8.0	25.1	1.78
F33	15 Nov 2022	36	13.30	91.50	6.1	33.36	8.0	25.1	1.72
F33	15 Nov 2022	37	13.23	91.60	6.0	33.36	8.0	25.1	1.63
F33	15 Nov 2022	38	13.14	91.78	5.9	33.37	8.0	25.1	1.54
F33	15 Nov 2022	39	13.06	91.97	5.8	33.38	8.0	25.1	1.44
F33	15 Nov 2022	40	13.01	92.10	5.8	33.38	8.0	25.1	1.31
F33	15 Nov 2022	41	12.94	92.28	5.7	33.39	8.0	25.2	1.21
F33	15 Nov 2022	42	12.89	92.39	5.7	33.40	7.9	25.2	1.13
F33	15 Nov 2022	43	12.85	92.46	5.6	33.40	7.9	25.2	1.04
F33	15 Nov 2022	44	12.82	92.51	5.6	33.40	7.9	25.2	1.01
F33	15 Nov 2022	45	12.76	92.52	5.6	33.41	7.9	25.2	0.96
F33	15 Nov 2022	46	12.72	92.56	5.5	33.41	7.9	25.2	0.90
F33	15 Nov 2022	47	12.64	92.58	5.5	33.42	7.9	25.2	0.86
F33	15 Nov 2022	48	12.55	92.63	5.4	33.43	7.9	25.3	0.80
F33	15 Nov 2022	49	12.42	92.72	5.4	33.43	7.9	25.3	0.75
F33	15 Nov 2022	50	12.28	92.75	5.5	33.45	7.9	25.3	0.70
F33	15 Nov 2022	51	12.24	92.80	5.6	33.45	7.9	25.3	0.68
F33	15 Nov 2022	52	12.23	92.84	5.5	33.45	7.9	25.3	0.67
F33	15 Nov 2022	53	12.18	92.83	5.3	33.47	7.9	25.4	0.65
F33	15 Nov 2022	54	12.06	92.75	5.2	33.49	7.9	25.4	0.63
F33	15 Nov 2022	55	11.99	92.73	5.1	33.50	7.9	25.4	0.60
F33	15 Nov 2022	56	11.92	92.75	5.0	33.51	7.9	25.4	0.57
F33	15 Nov 2022	57	11.88	92.75	5.0	33.52	7.9	25.5	0.55
F33	15 Nov 2022	58	11.85	92.78	4.9	33.53	7.9	25.5	0.54
F33	15 Nov 2022	59	11.78	92.81	4.9	33.54	7.9	25.5	0.52
F33	15 Nov 2022	60	11.75	92.81	4.9	33.54	7.9	25.5	0.51
F33	15 Nov 2022	61	11.73	92.85	4.9	33.55	7.9	25.5	0.50
F33	15 Nov 2022	62	11.68	92.84	4.8	33.56	7.9	25.5	0.48

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F33	15 Nov 2022	63	11.64	92.86	4.7	33.57	7.9	25.5	0.46
F33	15 Nov 2022	64	11.58	92.86	4.6	33.59	7.8	25.6	0.45
F33	15 Nov 2022	65	11.57	92.80	4.5	33.60	7.8	25.6	0.44
F33	15 Nov 2022	66	11.56	92.82	4.5	33.60	7.8	25.6	0.44
F33	15 Nov 2022	67	11.56	92.83	4.5	33.60	7.8	25.6	0.44
F33	15 Nov 2022	68	11.55	92.82	4.5	33.60	7.8	25.6	0.42
F33	15 Nov 2022	69	11.55	92.83	4.5	33.60	7.8	25.6	0.50
F33	15 Nov 2022	70	11.53	92.76	4.5	33.61	7.8	25.6	0.44
F33	15 Nov 2022	71	11.47	92.76	4.4	33.62	7.8	25.6	0.42
F33	15 Nov 2022	72	11.37	92.81	4.3	33.65	7.8	25.7	0.41
F33	15 Nov 2022	73	11.34	92.77	4.3	33.66	7.8	25.7	0.40
F33	15 Nov 2022	74	11.30	92.72	4.2	33.67	7.8	25.7	0.39
F33	15 Nov 2022	75	11.28	92.70	4.2	33.68	7.8	25.7	0.39
F33	15 Nov 2022	76	11.27	92.71	4.2	33.68	7.8	25.7	0.40
F33	15 Nov 2022	77	11.26	92.65	4.1	33.68	7.8	25.7	0.40
F33	15 Nov 2022	78	11.24	92.58	4.1	33.69	7.8	25.7	0.40
F33	15 Nov 2022	79	11.24	92.51	4.1	33.69	7.8	25.7	0.40
F33	15 Nov 2022	80	11.22	92.45	4.1	33.69	7.8	25.7	0.40
F33	15 Nov 2022	81	11.17	92.39	4.0	33.70	7.8	25.7	0.40
F33	15 Nov 2022	82	11.10	92.20	4.0	33.73	7.8	25.8	0.40
F33	15 Nov 2022	83	11.08	92.30	4.0	33.73	7.8	25.8	0.39
F33	15 Nov 2022	84	11.06	92.39	3.9	33.74	7.8	25.8	0.39
F33	15 Nov 2022	85	11.05	92.36	3.9	33.74	7.8	25.8	0.38
F33	15 Nov 2022	86	11.04	92.36	3.9	33.74	7.8	25.8	0.38
F33	15 Nov 2022	87	11.03	92.31	3.9	33.74	7.8	25.8	0.39
F33	15 Nov 2022	88	11.01	92.16	3.9	33.75	7.8	25.8	0.38
F33	15 Nov 2022	89	10.98	91.97	3.9	33.75	7.8	25.8	0.39
F33	15 Nov 2022	90	10.96	91.78	3.8	33.76	7.8	25.8	0.39
F33	15 Nov 2022	91	10.93	91.79	3.8	33.76	7.8	25.8	0.39
F33	15 Nov 2022	92	10.91	91.68	3.8	33.77	7.8	25.8	0.39
F33	15 Nov 2022	93	10.89	91.45	3.8	33.77	7.8	25.8	0.38
F33	15 Nov 2022	94	10.87	91.52	3.8	33.78	7.8	25.8	0.38
F33	15 Nov 2022	95	10.85	91.63	3.8	33.78	7.8	25.9	0.39
F33	15 Nov 2022	96	10.83	91.79	3.8	33.79	7.8	25.9	0.40
F33	15 Nov 2022	97	10.82	91.77	3.7	33.79	7.8	25.9	0.42
F33	15 Nov 2022	98	10.81	91.67	3.7	33.79	7.8	25.9	0.39
F33	15 Nov 2022	99	10.75	91.72	3.7	33.81	7.8	25.9	0.38
F33	15 Nov 2022	100	10.67	91.86	3.6	33.83	7.8	25.9	0.37
F34	15 Nov 2022	1	17.46	90.93	7.6	33.54	8.2	24.3	0.65
F34	15 Nov 2022	2	17.44	91.00	7.6	33.54	8.2	24.3	0.65
F34	15 Nov 2022	3	17.37	90.88	7.6	33.54	8.2	24.3	0.68
F34	15 Nov 2022	4	17.35	90.84	7.6	33.54	8.2	24.3	0.71
F34	15 Nov 2022	5	17.35	90.77	7.6	33.54	8.2	24.3	0.73
F34	15 Nov 2022	6	17.34	90.69	7.6	33.54	8.2	24.3	0.76
F34	15 Nov 2022	7	17.34	90.72	7.6	33.54	8.2	24.3	0.78
F34	15 Nov 2022	8	17.33	90.72	7.6	33.54	8.2	24.3	0.80
F34	15 Nov 2022	9	17.33	90.71	7.6	33.54	8.2	24.3	0.85
F34	15 Nov 2022	10	17.33	90.69	7.6	33.54	8.2	24.3	0.87
F34	15 Nov 2022	11	17.33	90.70	7.6	33.54	8.2	24.3	0.92
F34	15 Nov 2022	12	17.32	90.68	7.6	33.54	8.2	24.3	0.95
F34	15 Nov 2022	13	17.32	90.65	7.5	33.54	8.2	24.3	0.98
F34	15 Nov 2022	14	17.32	90.71	7.5	33.54	8.2	24.3	1.02
F34	15 Nov 2022	15	17.32	90.67	7.5	33.54	8.2	24.3	1.06
F34	15 Nov 2022	16	17.31	90.68	7.6	33.54	8.2	24.3	1.15
F34	15 Nov 2022	17	17.31	90.67	7.6	33.54	8.2	24.3	1.17
F34	15 Nov 2022	18	17.31	90.69	7.5	33.54	8.2	24.3	1.20
F34	15 Nov 2022	19	17.29	90.66	7.5	33.54	8.2	24.3	1.23
F34	15 Nov 2022	20	17.29	90.71	7.5	33.54	8.2	24.3	1.27
F34	15 Nov 2022	21	17.21	90.69	7.5	33.53	8.2	24.3	1.34
F34	15 Nov 2022	22	16.97	90.62	7.5	33.51	8.2	24.4	1.51

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F34	15 Nov 2022	23	16.60	90.33	7.5	33.48	8.1	24.4	1.75
F34	15 Nov 2022	24	16.05	89.90	7.3	33.45	8.1	24.5	1.98
F34	15 Nov 2022	25	15.27	89.76	7.2	33.41	8.1	24.7	2.11
F34	15 Nov 2022	26	14.67	89.87	7.2	33.39	8.1	24.8	2.18
F34	15 Nov 2022	27	14.43	89.97	7.0	33.37	8.1	24.8	2.23
F34	15 Nov 2022	28	13.94	90.05	6.8	33.35	8.0	24.9	2.28
F34	15 Nov 2022	29	13.84	90.12	6.6	33.35	8.0	24.9	2.22
F34	15 Nov 2022	30	13.81	90.39	6.5	33.35	8.0	24.9	2.16
F34	15 Nov 2022	31	13.69	90.69	6.4	33.35	8.0	25.0	2.10
F34	15 Nov 2022	32	13.47	90.86	6.3	33.36	8.0	25.0	1.98
F34	15 Nov 2022	33	13.44	91.10	6.2	33.36	8.0	25.0	1.90
F34	15 Nov 2022	34	13.41	91.30	6.2	33.36	8.0	25.0	1.83
F34	15 Nov 2022	35	13.26	91.40	6.1	33.37	8.0	25.1	1.72
F34	15 Nov 2022	36	13.20	91.62	6.0	33.37	8.0	25.1	1.61
F34	15 Nov 2022	37	13.17	91.82	5.9	33.37	8.0	25.1	1.51
F34	15 Nov 2022	38	13.11	91.94	5.8	33.38	8.0	25.1	1.41
F34	15 Nov 2022	39	12.96	92.13	5.8	33.39	8.0	25.2	1.31
F34	15 Nov 2022	40	12.87	92.34	5.7	33.40	7.9	25.2	1.14
F34	15 Nov 2022	41	12.84	92.52	5.6	33.40	7.9	25.2	1.05
F34	15 Nov 2022	42	12.80	92.55	5.6	33.40	7.9	25.2	1.02
F34	15 Nov 2022	43	12.74	92.57	5.5	33.41	7.9	25.2	0.97
F34	15 Nov 2022	44	12.66	92.62	5.5	33.42	7.9	25.2	0.91
F34	15 Nov 2022	45	12.61	92.67	5.5	33.42	7.9	25.2	0.85
F34	15 Nov 2022	46	12.52	92.71	5.4	33.43	7.9	25.3	0.86
F34	15 Nov 2022	47	12.37	92.74	5.5	33.45	7.9	25.3	0.78
F34	15 Nov 2022	48	12.26	92.78	5.5	33.45	7.9	25.3	0.72
F34	15 Nov 2022	49	12.22	92.81	5.5	33.46	7.9	25.3	0.68
F34	15 Nov 2022	50	12.16	92.85	5.5	33.46	7.9	25.4	0.66
F34	15 Nov 2022	51	12.09	92.86	5.4	33.47	7.9	25.4	0.65
F34	15 Nov 2022	52	12.07	92.88	5.2	33.49	7.9	25.4	0.63
F34	15 Nov 2022	53	12.06	92.80	5.1	33.49	7.9	25.4	0.61
F34	15 Nov 2022	54	12.01	92.77	5.0	33.50	7.9	25.4	0.59
F34	15 Nov 2022	55	11.94	92.77	5.0	33.52	7.9	25.4	0.57
F34	15 Nov 2022	56	11.92	92.74	4.9	33.52	7.9	25.5	0.56
F34	15 Nov 2022	57	11.86	92.76	4.9	33.53	7.9	25.5	0.55
F34	15 Nov 2022	58	11.85	92.72	4.9	33.54	7.9	25.5	0.53
F34	15 Nov 2022	59	11.83	92.69	4.8	33.54	7.9	25.5	0.53
F34	15 Nov 2022	60	11.80	92.76	4.8	33.55	7.8	25.5	0.51
F34	15 Nov 2022	61	11.79	92.74	4.8	33.55	7.8	25.5	0.50
F34	15 Nov 2022	62	11.78	92.73	4.8	33.55	7.8	25.5	0.50
F34	15 Nov 2022	63	11.69	92.73	4.7	33.58	7.8	25.5	0.48
F34	15 Nov 2022	64	11.63	92.73	4.6	33.59	7.8	25.6	0.46
F34	15 Nov 2022	65	11.62	92.73	4.5	33.59	7.8	25.6	0.46
F34	15 Nov 2022	66	11.60	92.74	4.5	33.59	7.8	25.6	0.44
F34	15 Nov 2022	67	11.59	92.71	4.5	33.60	7.8	25.6	0.44
F34	15 Nov 2022	68	11.58	92.74	4.5	33.60	7.8	25.6	0.44
F34	15 Nov 2022	69	11.56	92.75	4.5	33.60	7.8	25.6	0.43
F34	15 Nov 2022	70	11.56	92.73	4.5	33.60	7.8	25.6	0.43
F34	15 Nov 2022	71	11.52	92.75	4.4	33.61	7.8	25.6	0.43
F34	15 Nov 2022	72	11.42	92.75	4.4	33.63	7.8	25.6	0.42
F34	15 Nov 2022	73	11.36	92.74	4.3	33.65	7.8	25.7	0.41
F34	15 Nov 2022	74	11.32	92.76	4.3	33.66	7.8	25.7	0.40
F34	15 Nov 2022	75	11.31	92.78	4.2	33.66	7.8	25.7	0.40
F34	15 Nov 2022	76	11.29	92.80	4.2	33.67	7.8	25.7	0.40
F34	15 Nov 2022	77	11.27	92.81	4.2	33.68	7.8	25.7	0.39
F34	15 Nov 2022	78	11.26	92.83	4.1	33.69	7.8	25.7	0.39
F34	15 Nov 2022	79	11.24	92.85	4.1	33.70	7.8	25.7	0.39
F34	15 Nov 2022	80	11.21	92.86	4.0	33.70	7.8	25.7	0.38
F34	15 Nov 2022	81	11.19	92.87	4.0	33.71	7.8	25.7	0.38
F34	15 Nov 2022	82	11.15	92.84	4.0	33.72	7.8	25.8	0.39
F34	15 Nov 2022	83	11.06	92.91	3.9	33.74	7.8	25.8	0.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F34	15 Nov 2022	84	11.01	92.95	3.9	33.75	7.8	25.8	0.38
F34	15 Nov 2022	85	10.96	92.90	3.9	33.76	7.8	25.8	0.38
F34	15 Nov 2022	86	10.95	92.78	3.9	33.76	7.8	25.8	0.38
F34	15 Nov 2022	87	10.95	92.62	3.8	33.76	7.8	25.8	0.37
F34	15 Nov 2022	88	10.94	92.52	3.8	33.76	7.8	25.8	0.38
F34	15 Nov 2022	89	10.93	92.40	3.8	33.76	7.8	25.8	0.38
F34	15 Nov 2022	90	10.93	92.27	3.8	33.77	7.8	25.8	0.38
F34	15 Nov 2022	91	10.90	92.18	3.8	33.77	7.8	25.8	0.38
F34	15 Nov 2022	92	10.89	92.02	3.8	33.77	7.8	25.8	0.38
F34	15 Nov 2022	93	10.87	91.88	3.8	33.78	7.8	25.8	0.38
F34	15 Nov 2022	94	10.84	91.72	3.8	33.78	7.8	25.9	0.38
F34	15 Nov 2022	95	10.83	91.83	3.8	33.79	7.8	25.9	0.37
F34	15 Nov 2022	96	10.80	91.89	3.7	33.79	7.8	25.9	0.36
F34	15 Nov 2022	97	10.78	91.75	3.7	33.80	7.8	25.9	0.36
F34	15 Nov 2022	98	10.74	91.68	3.7	33.81	7.8	25.9	0.36
F34	15 Nov 2022	99	10.70	91.93	3.7	33.82	7.8	25.9	0.36
F34	15 Nov 2022	100	10.69	92.03	3.6	33.82	7.8	25.9	0.36
F34	15 Nov 2022	101	10.69	91.89	3.6	33.82	7.8	25.9	0.36
F35	15 Nov 2022	1	17.53	91.33	7.6	33.55	8.2	24.3	0.58
F35	15 Nov 2022	2	17.47	91.26	7.6	33.54	8.2	24.3	0.59
F35	15 Nov 2022	3	17.40	91.14	7.6	33.54	8.2	24.3	0.60
F35	15 Nov 2022	4	17.39	91.04	7.6	33.54	8.2	24.3	0.64
F35	15 Nov 2022	5	17.38	90.91	7.6	33.54	8.2	24.3	0.67
F35	15 Nov 2022	6	17.38	90.85	7.6	33.54	8.2	24.3	0.70
F35	15 Nov 2022	7	17.38	90.82	7.6	33.54	8.2	24.3	0.72
F35	15 Nov 2022	8	17.37	90.84	7.6	33.54	8.2	24.3	0.76
F35	15 Nov 2022	9	17.37	90.84	7.6	33.54	8.2	24.3	0.79
F35	15 Nov 2022	10	17.37	90.82	7.6	33.54	8.2	24.3	0.84
F35	15 Nov 2022	11	17.37	90.81	7.6	33.54	8.2	24.3	0.87
F35	15 Nov 2022	12	17.37	90.88	7.6	33.54	8.2	24.3	0.90
F35	15 Nov 2022	13	17.37	90.86	7.6	33.54	8.2	24.3	0.95
F35	15 Nov 2022	14	17.36	90.88	7.6	33.54	8.2	24.3	0.98
F35	15 Nov 2022	15	17.36	90.87	7.6	33.54	8.2	24.3	1.01
F35	15 Nov 2022	16	17.37	90.86	7.6	33.54	8.2	24.3	1.03
F35	15 Nov 2022	17	17.36	90.89	7.6	33.54	8.2	24.3	1.06
F35	15 Nov 2022	18	17.36	90.86	7.6	33.54	8.2	24.3	1.10
F35	15 Nov 2022	19	17.36	90.86	7.6	33.54	8.2	24.3	1.13
F35	15 Nov 2022	20	17.36	90.88	7.6	33.54	8.2	24.3	1.15
F35	15 Nov 2022	21	17.34	90.88	7.6	33.54	8.2	24.3	1.17
F35	15 Nov 2022	22	17.27	90.93	7.5	33.54	8.2	24.3	1.24
F35	15 Nov 2022	23	16.92	90.80	7.5	33.51	8.2	24.4	1.48
F35	15 Nov 2022	24	16.65	90.37	7.4	33.49	8.1	24.4	1.74
F35	15 Nov 2022	25	16.13	90.05	7.4	33.45	8.1	24.5	1.98
F35	15 Nov 2022	26	15.77	89.75	7.4	33.43	8.1	24.6	2.13
F35	15 Nov 2022	27	15.10	89.60	7.3	33.40	8.1	24.7	2.23
F35	15 Nov 2022	28	14.63	89.73	7.2	33.38	8.1	24.8	2.28
F35	15 Nov 2022	29	14.23	89.92	7.0	33.37	8.1	24.9	2.30
F35	15 Nov 2022	30	14.05	90.16	6.8	33.36	8.0	24.9	2.32
F35	15 Nov 2022	31	13.92	90.12	6.7	33.35	8.0	24.9	2.35
F35	15 Nov 2022	32	13.87	90.18	6.6	33.35	8.0	24.9	2.34
F35	15 Nov 2022	33	13.86	90.35	6.6	33.35	8.0	24.9	2.28
F35	15 Nov 2022	34	13.82	90.47	6.5	33.36	8.0	25.0	2.26
F35	15 Nov 2022	35	13.76	90.55	6.4	33.36	8.0	25.0	2.21
F35	15 Nov 2022	36	13.53	90.64	6.3	33.36	8.0	25.0	2.09
F35	15 Nov 2022	37	13.37	90.95	6.2	33.37	8.0	25.1	1.94
F35	15 Nov 2022	38	13.31	91.31	6.0	33.37	8.0	25.1	1.75
F35	15 Nov 2022	39	13.19	91.74	5.9	33.38	8.0	25.1	1.60
F35	15 Nov 2022	40	13.10	91.98	5.8	33.38	8.0	25.1	1.44
F35	15 Nov 2022	41	13.06	92.07	5.8	33.38	8.0	25.1	1.32
F35	15 Nov 2022	42	12.97	92.19	5.7	33.39	7.9	25.2	1.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F35	15 Nov 2022	43	12.93	92.37	5.7	33.40	7.9	25.2	1.11
F35	15 Nov 2022	44	12.92	92.40	5.7	33.40	7.9	25.2	1.08
F35	15 Nov 2022	45	12.86	92.33	5.6	33.40	7.9	25.2	1.02
F35	15 Nov 2022	46	12.74	92.52	5.6	33.41	7.9	25.2	0.96
F35	15 Nov 2022	47	12.66	92.63	5.5	33.41	7.9	25.2	0.87
F35	15 Nov 2022	48	12.62	92.71	5.5	33.42	7.9	25.2	0.81
F35	15 Nov 2022	49	12.47	92.70	5.4	33.44	7.9	25.3	0.76
F35	15 Nov 2022	50	12.26	92.76	5.5	33.45	7.9	25.3	0.69
F35	15 Nov 2022	51	12.19	92.80	5.5	33.46	7.9	25.4	0.65
F35	15 Nov 2022	52	12.13	92.79	5.4	33.46	7.9	25.4	0.63
F35	15 Nov 2022	53	12.05	92.79	5.4	33.47	7.9	25.4	0.62
F35	15 Nov 2022	54	11.99	92.78	5.4	33.48	7.9	25.4	0.59
F35	15 Nov 2022	55	11.96	92.86	5.2	33.50	7.9	25.4	0.58
F35	15 Nov 2022	56	11.91	92.85	5.0	33.52	7.9	25.5	0.55
F35	15 Nov 2022	57	11.89	92.82	4.9	33.53	7.9	25.5	0.53
F35	15 Nov 2022	58	11.87	92.80	4.9	33.53	7.9	25.5	0.52
F35	15 Nov 2022	59	11.86	92.80	4.8	33.53	7.9	25.5	0.52
F35	15 Nov 2022	60	11.84	92.82	4.8	33.54	7.9	25.5	0.51
F35	15 Nov 2022	61	11.79	92.79	4.8	33.55	7.9	25.5	0.51
F35	15 Nov 2022	62	11.77	92.84	4.8	33.55	7.8	25.5	0.49
F35	15 Nov 2022	63	11.70	92.85	4.7	33.57	7.8	25.5	0.49
F35	15 Nov 2022	64	11.65	92.84	4.6	33.59	7.8	25.6	0.47
F35	15 Nov 2022	65	11.62	92.83	4.5	33.59	7.8	25.6	0.46
F35	15 Nov 2022	66	11.60	92.82	4.5	33.60	7.8	25.6	0.44
F35	15 Nov 2022	67	11.58	92.84	4.5	33.60	7.8	25.6	0.43
F35	15 Nov 2022	68	11.58	92.85	4.5	33.60	7.8	25.6	0.44
F35	15 Nov 2022	69	11.56	92.86	4.5	33.61	7.8	25.6	0.43
F35	15 Nov 2022	70	11.54	92.86	4.4	33.61	7.8	25.6	0.43
F35	15 Nov 2022	71	11.47	92.85	4.4	33.63	7.8	25.6	0.42
F35	15 Nov 2022	72	11.43	92.88	4.4	33.63	7.8	25.6	0.41
F35	15 Nov 2022	73	11.42	92.89	4.4	33.63	7.8	25.6	0.41
F35	15 Nov 2022	74	11.39	92.90	4.3	33.64	7.8	25.6	0.40
F35	15 Nov 2022	75	11.37	92.91	4.3	33.65	7.8	25.7	0.40
F35	15 Nov 2022	76	11.34	92.92	4.3	33.66	7.8	25.7	0.40
F35	15 Nov 2022	77	11.30	92.92	4.2	33.67	7.8	25.7	0.39
F35	15 Nov 2022	78	11.28	92.92	4.2	33.67	7.8	25.7	0.39
F35	15 Nov 2022	79	11.28	92.94	4.2	33.68	7.8	25.7	0.39
F35	15 Nov 2022	80	11.25	92.92	4.2	33.68	7.8	25.7	0.38
F35	15 Nov 2022	81	11.22	92.90	4.1	33.69	7.8	25.7	0.38
F35	15 Nov 2022	82	11.19	92.98	4.1	33.71	7.8	25.7	0.38
F35	15 Nov 2022	83	11.18	92.96	4.0	33.72	7.8	25.7	0.38
F35	15 Nov 2022	84	11.11	92.93	4.0	33.73	7.8	25.8	0.37
F35	15 Nov 2022	85	11.07	92.97	3.9	33.74	7.8	25.8	0.36
F35	15 Nov 2022	86	11.00	93.03	3.9	33.75	7.8	25.8	0.37
F35	15 Nov 2022	87	10.96	93.01	3.9	33.75	7.8	25.8	0.36
F35	15 Nov 2022	88	10.92	93.01	3.9	33.75	7.8	25.8	0.36
F35	15 Nov 2022	89	10.86	93.04	3.9	33.76	7.8	25.8	0.36
F35	15 Nov 2022	90	10.85	93.08	3.9	33.76	7.8	25.8	0.37
F35	15 Nov 2022	91	10.85	93.07	3.9	33.77	7.8	25.8	0.36
F35	15 Nov 2022	92	10.85	93.03	3.9	33.77	7.8	25.8	0.36
F35	15 Nov 2022	93	10.84	92.98	3.8	33.78	7.8	25.9	0.36
F35	15 Nov 2022	94	10.82	92.76	3.8	33.79	7.8	25.9	0.36
F35	15 Nov 2022	95	10.80	92.54	3.7	33.79	7.8	25.9	0.36
F35	15 Nov 2022	96	10.79	92.10	3.7	33.80	7.8	25.9	0.36
F35	15 Nov 2022	97	10.78	91.53	3.7	33.80	7.8	25.9	0.36
F35	15 Nov 2022	98	10.78	91.17	3.7	33.80	7.8	25.9	0.36
F35	15 Nov 2022	99	10.78	90.98	3.7	33.80	7.8	25.9	0.36
F35	15 Nov 2022	100	10.78	90.58	3.7	33.80	7.8	25.9	0.36
F36	15 Nov 2022	1	17.55	91.27	7.6	33.55	8.1	24.3	0.57
F36	15 Nov 2022	2	17.56	91.24	7.6	33.55	8.1	24.3	0.57

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F36	15 Nov 2022	3	17.51	91.25	7.6	33.55	8.1	24.3	0.59
F36	15 Nov 2022	4	17.50	91.17	7.6	33.55	8.1	24.3	0.61
F36	15 Nov 2022	5	17.49	91.07	7.6	33.55	8.1	24.3	0.65
F36	15 Nov 2022	6	17.49	91.04	7.5	33.55	8.1	24.3	0.66
F36	15 Nov 2022	7	17.48	90.95	7.6	33.55	8.1	24.3	0.68
F36	15 Nov 2022	8	17.48	90.97	7.6	33.55	8.1	24.3	0.71
F36	15 Nov 2022	9	17.47	91.04	7.5	33.55	8.1	24.3	0.75
F36	15 Nov 2022	10	17.47	91.01	7.5	33.55	8.1	24.3	0.78
F36	15 Nov 2022	11	17.47	90.86	7.5	33.55	8.1	24.3	0.84
F36	15 Nov 2022	12	17.46	91.03	7.5	33.55	8.1	24.3	0.86
F36	15 Nov 2022	13	17.46	91.06	7.5	33.55	8.1	24.3	0.88
F36	15 Nov 2022	14	17.46	91.02	7.5	33.55	8.1	24.3	0.91
F36	15 Nov 2022	15	17.45	91.00	7.6	33.55	8.1	24.3	0.93
F36	15 Nov 2022	16	17.44	91.02	7.5	33.55	8.1	24.3	0.98
F36	15 Nov 2022	17	17.42	90.98	7.5	33.55	8.1	24.3	1.01
F36	15 Nov 2022	18	17.41	90.93	7.6	33.55	8.1	24.3	1.07
F36	15 Nov 2022	19	17.41	90.93	7.6	33.55	8.1	24.3	1.12
F36	15 Nov 2022	20	17.40	90.93	7.5	33.54	8.1	24.3	1.15
F36	15 Nov 2022	21	17.38	90.89	7.5	33.54	8.1	24.3	1.19
F36	15 Nov 2022	22	17.35	90.82	7.6	33.54	8.1	24.3	1.25
F36	15 Nov 2022	23	17.30	90.86	7.6	33.53	8.1	24.3	1.31
F36	15 Nov 2022	24	17.26	90.84	7.6	33.53	8.1	24.3	1.37
F36	15 Nov 2022	25	17.21	90.78	7.5	33.53	8.1	24.3	1.42
F36	15 Nov 2022	26	17.14	90.71	7.5	33.52	8.1	24.3	1.46
F36	15 Nov 2022	27	17.00	90.63	7.3	33.51	8.1	24.4	1.53
F36	15 Nov 2022	28	16.46	90.52	7.2	33.45	8.1	24.4	1.63
F36	15 Nov 2022	29	15.17	90.29	7.4	33.41	8.1	24.7	1.92
F36	15 Nov 2022	30	14.82	89.82	7.3	33.39	8.1	24.8	2.16
F36	15 Nov 2022	31	14.38	89.75	7.1	33.37	8.0	24.8	2.28
F36	15 Nov 2022	32	14.01	89.86	6.9	33.35	8.0	24.9	2.38
F36	15 Nov 2022	33	13.84	89.96	6.7	33.34	8.0	24.9	2.37
F36	15 Nov 2022	34	13.79	90.15	6.6	33.35	8.0	25.0	2.30
F36	15 Nov 2022	35	13.76	90.34	6.6	33.35	8.0	25.0	2.23
F36	15 Nov 2022	36	13.67	90.46	6.5	33.35	8.0	25.0	2.13
F36	15 Nov 2022	37	13.57	90.73	6.4	33.35	8.0	25.0	1.98
F36	15 Nov 2022	38	13.40	91.06	6.2	33.36	8.0	25.0	1.84
F36	15 Nov 2022	39	13.25	91.23	6.1	33.36	7.9	25.1	1.68
F36	15 Nov 2022	40	13.20	91.58	6.0	33.37	7.9	25.1	1.57
F36	15 Nov 2022	41	13.13	91.85	5.9	33.37	7.9	25.1	1.41
F36	15 Nov 2022	42	13.02	91.99	5.8	33.38	7.9	25.1	1.27
F36	15 Nov 2022	43	12.88	92.20	5.7	33.39	7.9	25.2	1.13
F36	15 Nov 2022	44	12.78	92.41	5.6	33.40	7.9	25.2	1.00
F36	15 Nov 2022	45	12.70	92.51	5.5	33.40	7.9	25.2	0.90
F36	15 Nov 2022	46	12.47	92.60	5.5	33.43	7.9	25.3	0.81
F36	15 Nov 2022	47	12.33	92.67	5.6	33.44	7.9	25.3	0.73
F36	15 Nov 2022	48	12.27	92.75	5.6	33.44	7.9	25.3	0.67
F36	15 Nov 2022	49	12.18	92.75	5.7	33.44	7.9	25.3	0.64
F36	15 Nov 2022	50	12.11	92.81	5.7	33.45	7.9	25.4	0.62
F36	15 Nov 2022	51	12.06	92.79	5.6	33.46	7.9	25.4	0.61
F36	15 Nov 2022	52	11.97	92.81	5.6	33.46	7.9	25.4	0.60
F36	15 Nov 2022	53	11.92	92.85	5.6	33.47	7.9	25.4	0.58
F36	15 Nov 2022	54	11.92	92.90	5.6	33.47	7.9	25.4	0.58
F36	15 Nov 2022	55	11.73	92.90	5.5	33.49	7.9	25.5	0.56
F36	15 Nov 2022	56	11.62	92.97	5.5	33.51	7.9	25.5	0.55
F36	15 Nov 2022	57	11.58	93.03	5.5	33.51	7.9	25.5	0.54
F36	15 Nov 2022	58	11.51	93.09	5.4	33.52	7.9	25.5	0.53
F36	15 Nov 2022	59	11.47	93.08	5.3	33.53	7.9	25.5	0.51
F36	15 Nov 2022	60	11.47	93.10	5.3	33.53	7.8	25.5	0.50
F36	15 Nov 2022	61	11.46	93.11	5.2	33.54	7.8	25.6	0.50
F36	15 Nov 2022	62	11.45	93.10	5.2	33.55	7.8	25.6	0.48
F36	15 Nov 2022	63	11.46	93.06	5.0	33.57	7.8	25.6	0.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F36	15 Nov 2022	64	11.46	93.02	4.9	33.57	7.8	25.6	0.45
F36	15 Nov 2022	65	11.43	93.01	4.9	33.58	7.8	25.6	0.45
F36	15 Nov 2022	66	11.42	92.99	4.9	33.58	7.8	25.6	0.44
F36	15 Nov 2022	67	11.40	93.00	4.9	33.59	7.8	25.6	0.44
F36	15 Nov 2022	68	11.38	93.00	4.8	33.59	7.8	25.6	0.43
F36	15 Nov 2022	69	11.38	92.99	4.7	33.62	7.8	25.6	0.41
F36	15 Nov 2022	70	11.38	92.99	4.6	33.62	7.8	25.6	0.41
F36	15 Nov 2022	71	11.36	92.97	4.5	33.63	7.8	25.6	0.40
F36	15 Nov 2022	72	11.34	92.97	4.5	33.63	7.8	25.6	0.39
F36	15 Nov 2022	73	11.34	92.98	4.5	33.64	7.8	25.7	0.39
F36	15 Nov 2022	74	11.33	92.96	4.4	33.64	7.8	25.7	0.39
F36	15 Nov 2022	75	11.32	92.98	4.4	33.64	7.8	25.7	0.38
F36	15 Nov 2022	76	11.28	92.98	4.5	33.64	7.8	25.7	0.38
F36	15 Nov 2022	77	11.23	92.99	4.5	33.65	7.8	25.7	0.39
F36	15 Nov 2022	78	11.22	93.01	4.4	33.66	7.8	25.7	0.38
F36	15 Nov 2022	79	11.22	93.00	4.3	33.68	7.8	25.7	0.37
F36	15 Nov 2022	80	11.21	92.98	4.2	33.70	7.8	25.7	0.37
F36	15 Nov 2022	81	11.18	93.00	4.1	33.71	7.8	25.7	0.36
F36	15 Nov 2022	82	11.18	92.99	4.1	33.72	7.8	25.7	0.35
F36	15 Nov 2022	83	11.17	92.99	4.0	33.72	7.8	25.8	0.36
F36	15 Nov 2022	84	11.14	92.98	4.0	33.73	7.8	25.8	0.35
F36	15 Nov 2022	85	11.08	92.95	3.9	33.75	7.8	25.8	0.36
F36	15 Nov 2022	86	11.04	92.98	3.9	33.76	7.8	25.8	0.36
F36	15 Nov 2022	87	11.01	93.04	3.9	33.76	7.8	25.8	0.35
F36	15 Nov 2022	88	10.94	93.03	3.9	33.76	7.8	25.8	0.36
F36	15 Nov 2022	89	10.87	93.00	3.9	33.76	7.8	25.8	0.35
F36	15 Nov 2022	90	10.85	93.00	3.9	33.77	7.8	25.8	0.35
F36	15 Nov 2022	91	10.83	92.97	3.9	33.78	7.8	25.9	0.35
F36	15 Nov 2022	92	10.83	92.89	3.8	33.78	7.7	25.9	0.34
F36	15 Nov 2022	93	10.82	92.79	3.8	33.79	7.7	25.9	0.34
F36	15 Nov 2022	94	10.81	92.74	3.8	33.79	7.7	25.9	0.34
F36	15 Nov 2022	95	10.80	92.62	3.8	33.79	7.7	25.9	0.34
F36	15 Nov 2022	96	10.80	92.39	3.8	33.79	7.7	25.9	0.34
F36	15 Nov 2022	97	10.80	92.21	3.8	33.79	7.7	25.9	0.34
F36	15 Nov 2022	98	10.80	92.06	3.8	33.79	7.7	25.9	0.34
F36	15 Nov 2022	99	10.80	91.94	3.8	33.79	7.7	25.9	0.34
F36	15 Nov 2022	100	10.80	91.77	3.7	33.80	7.7	25.9	0.34

NA = not available

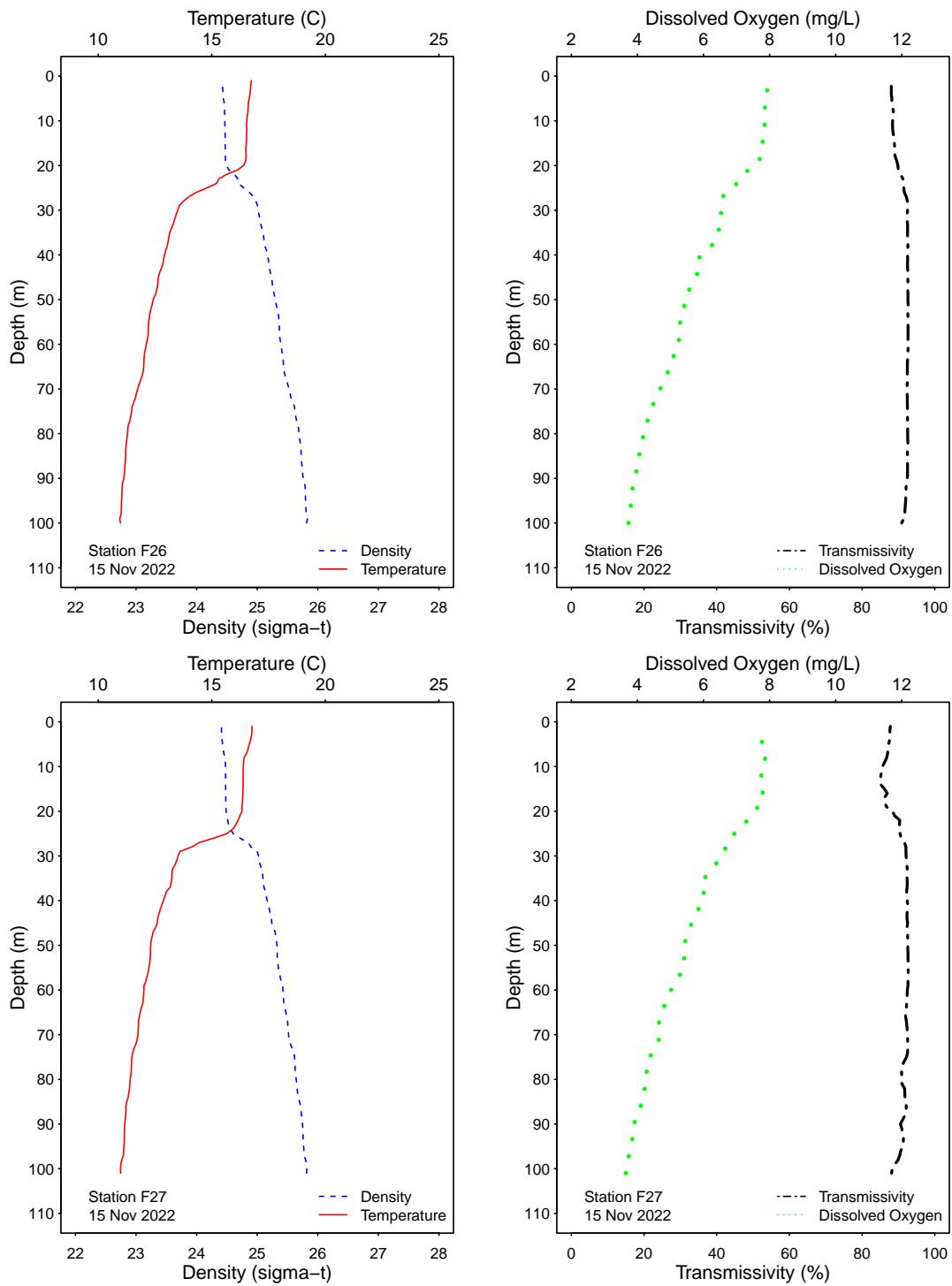


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

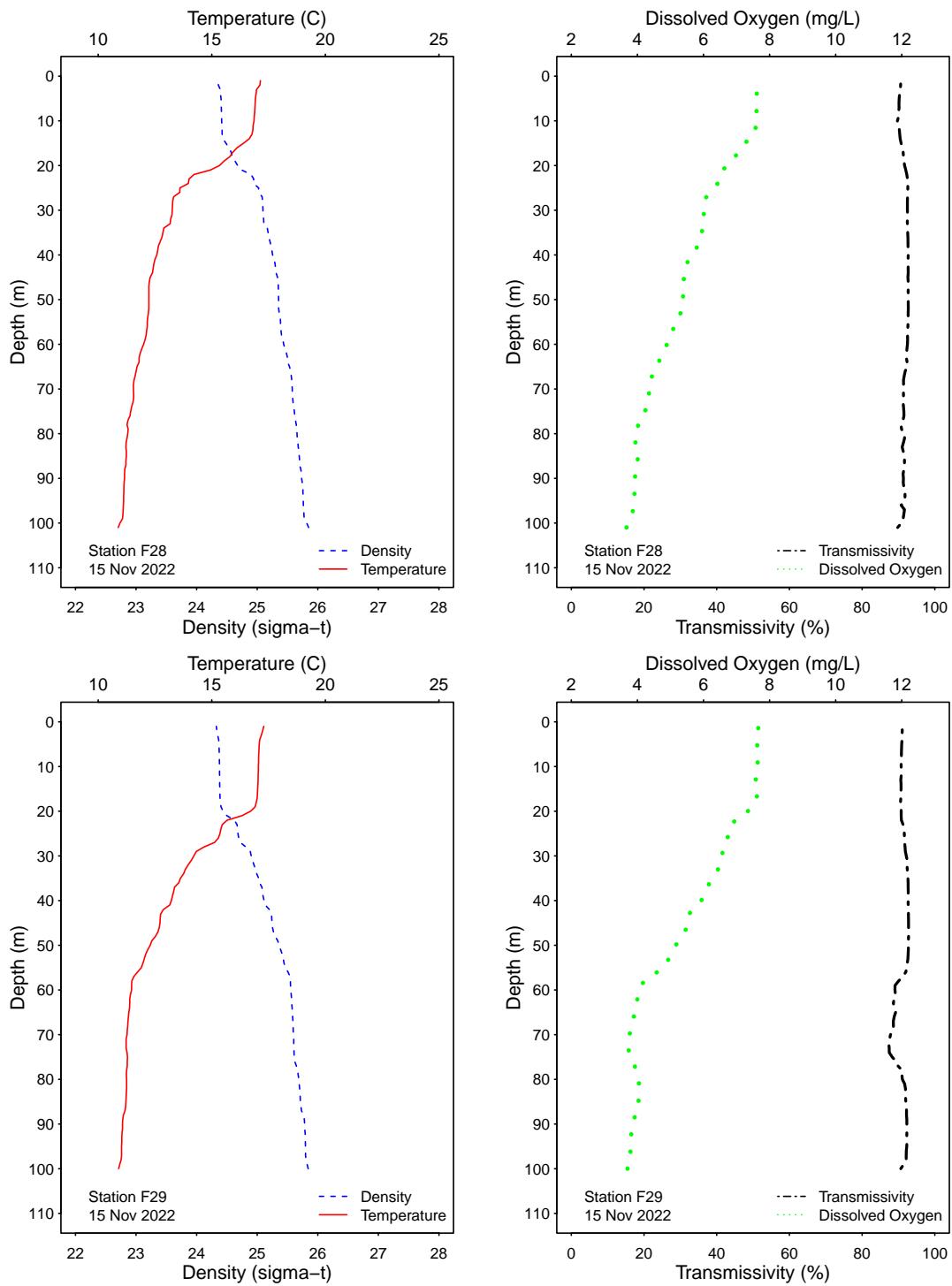


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

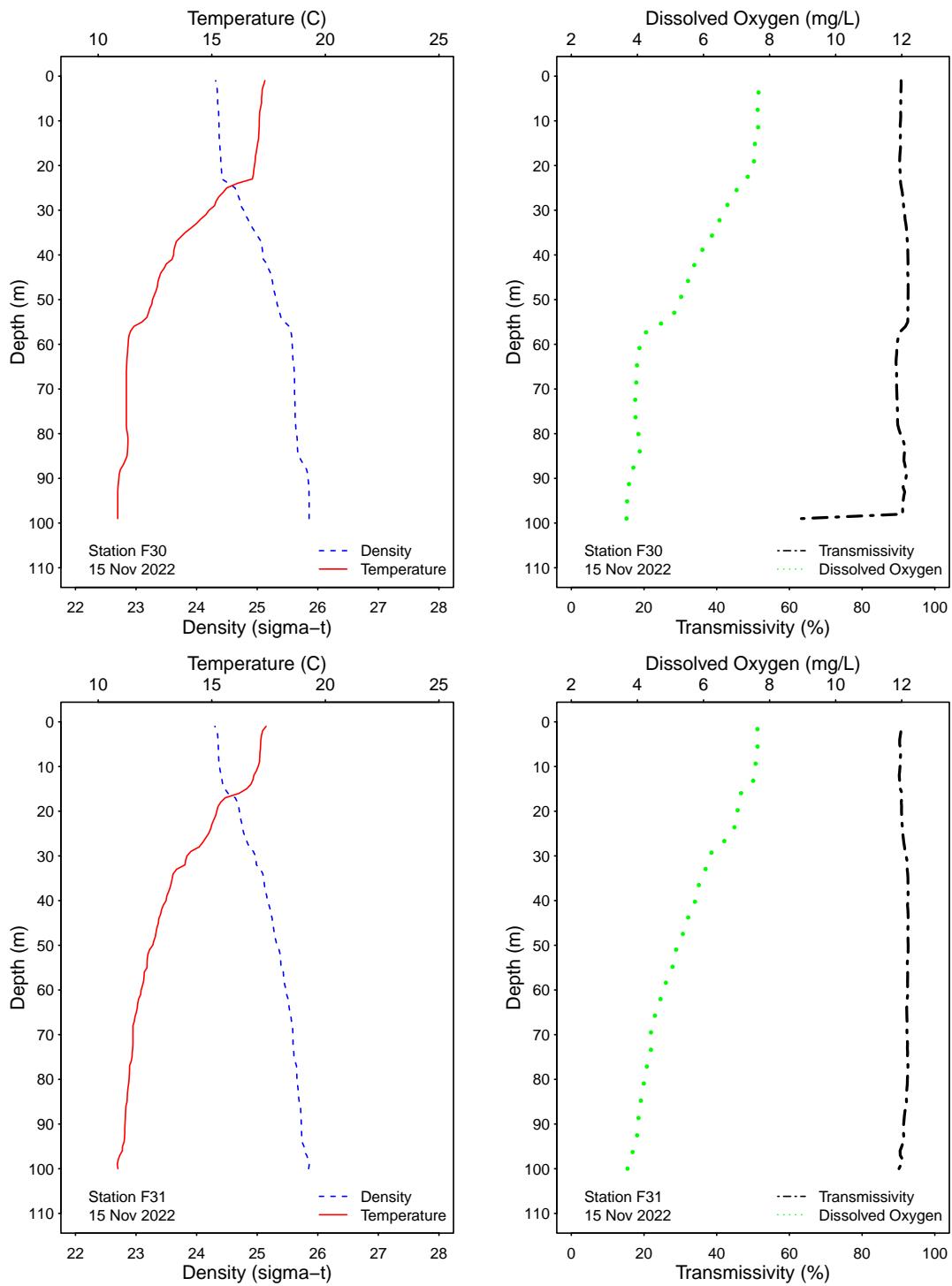


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

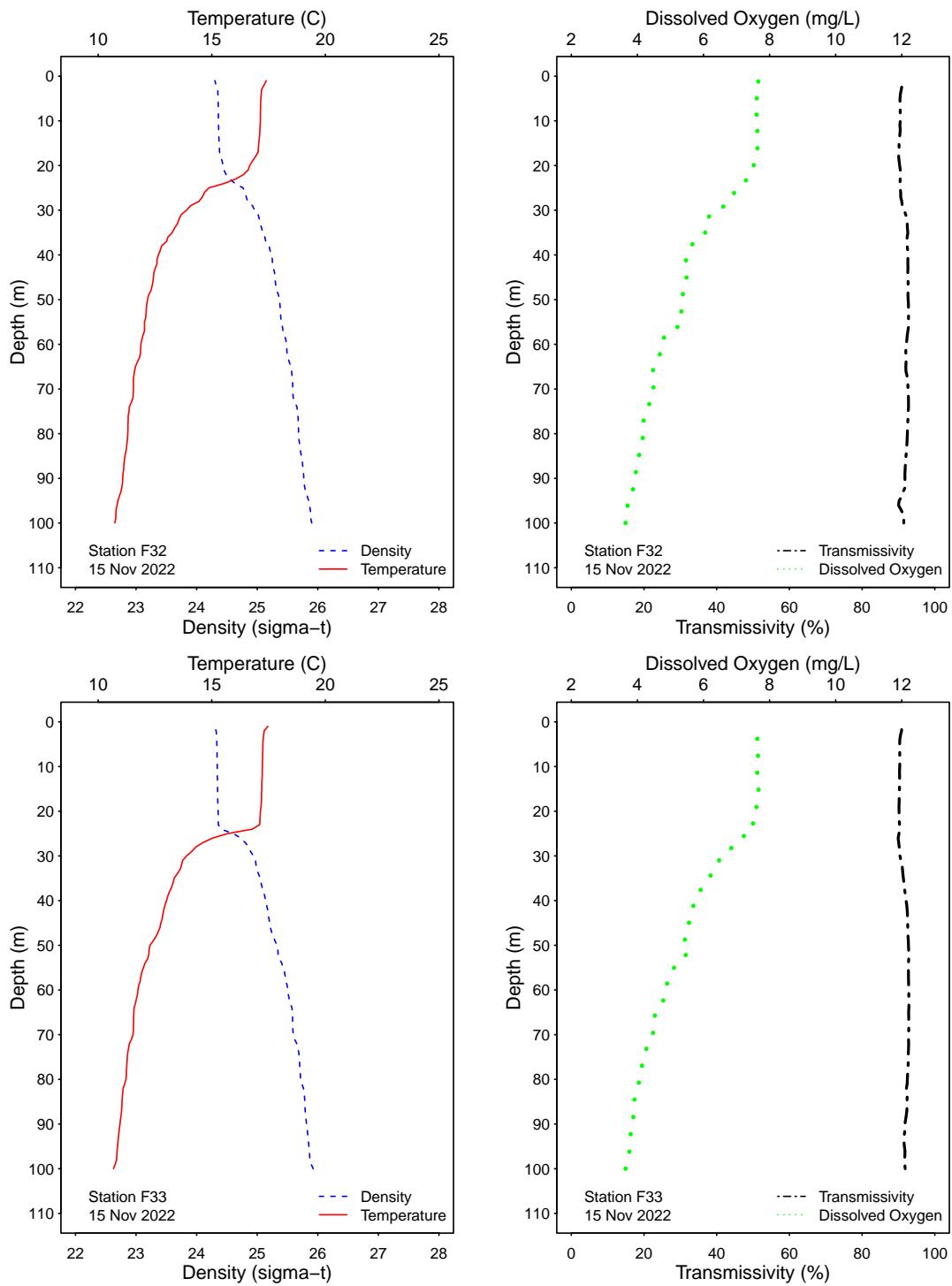


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

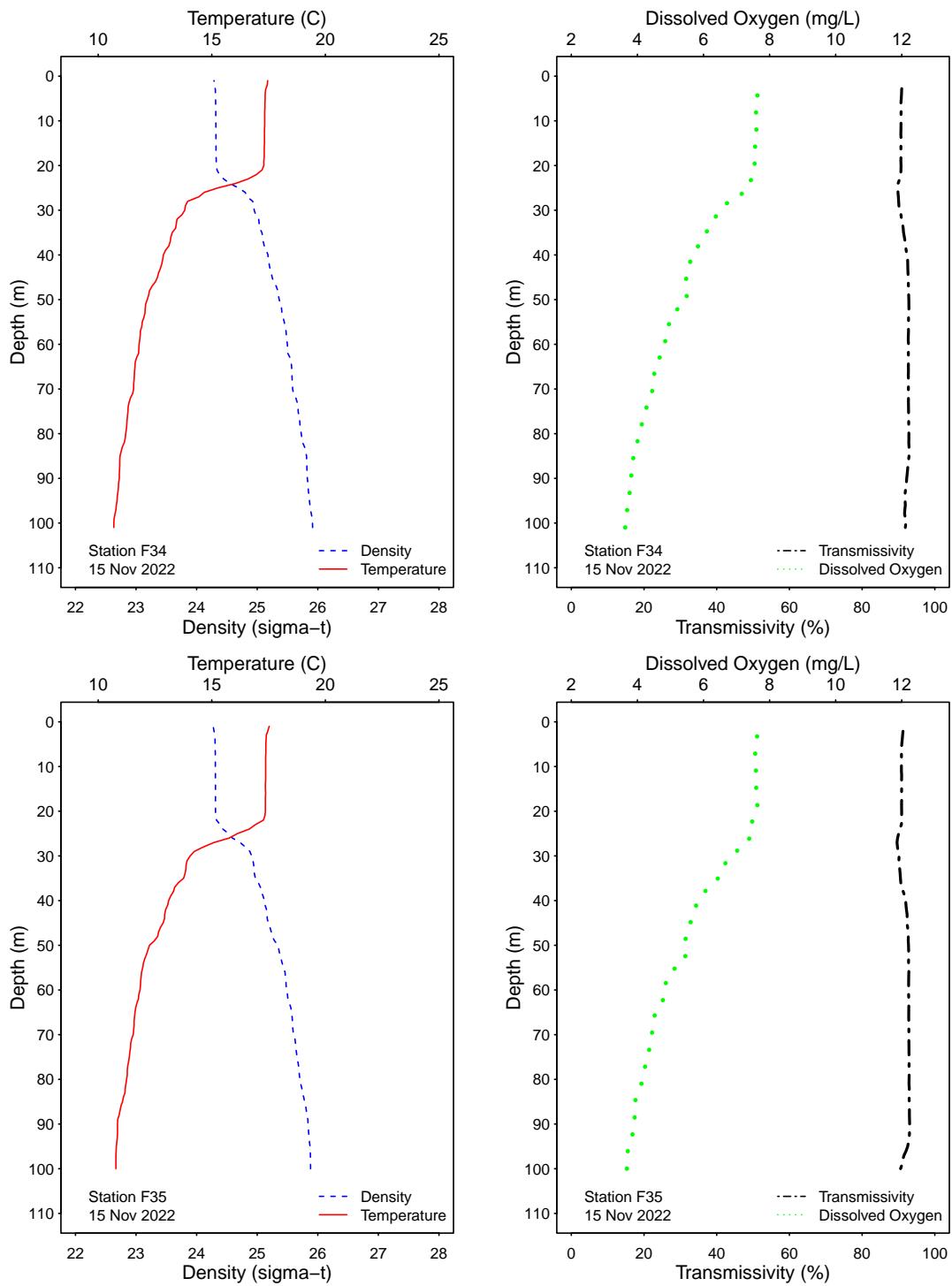


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

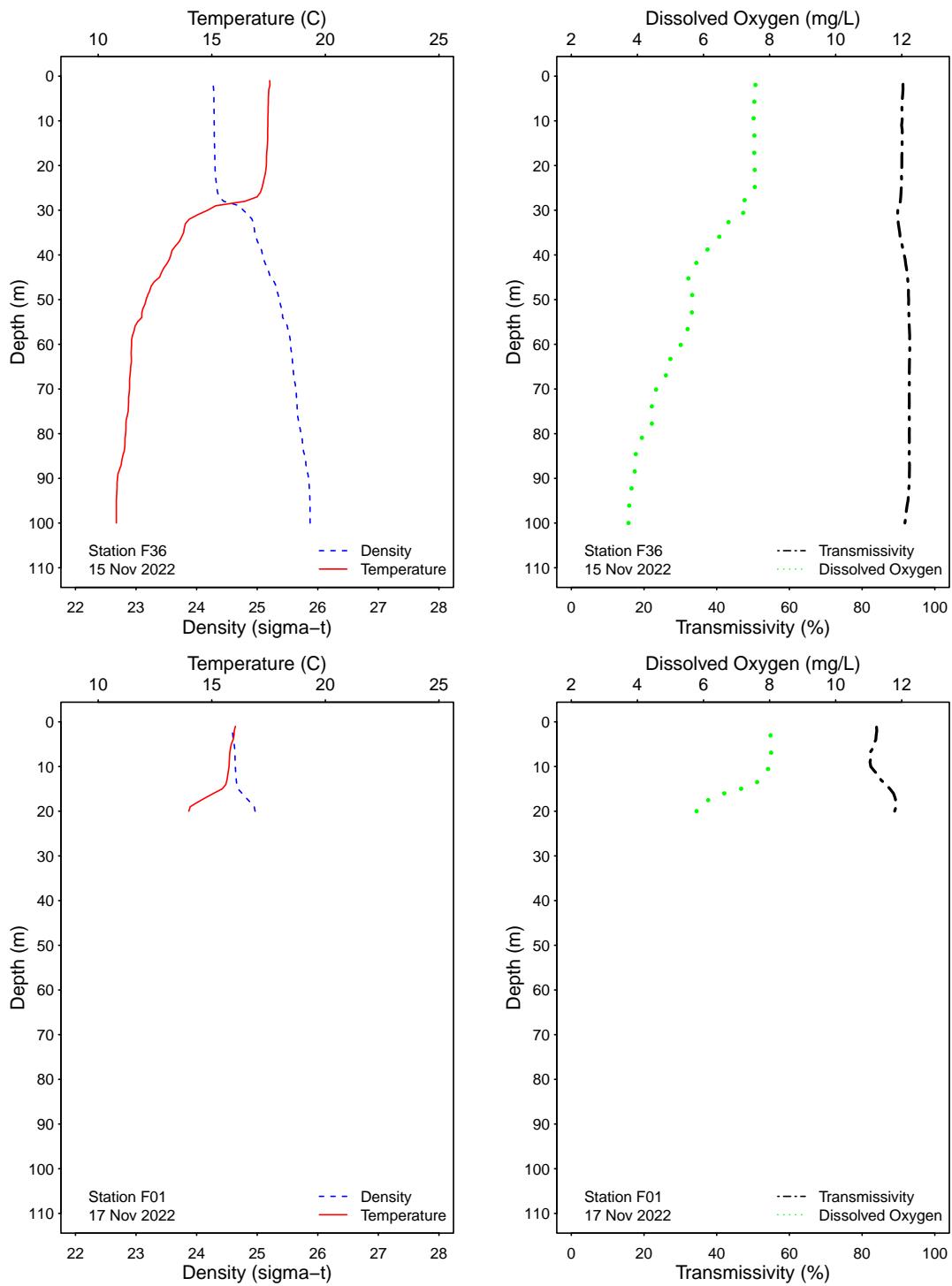


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

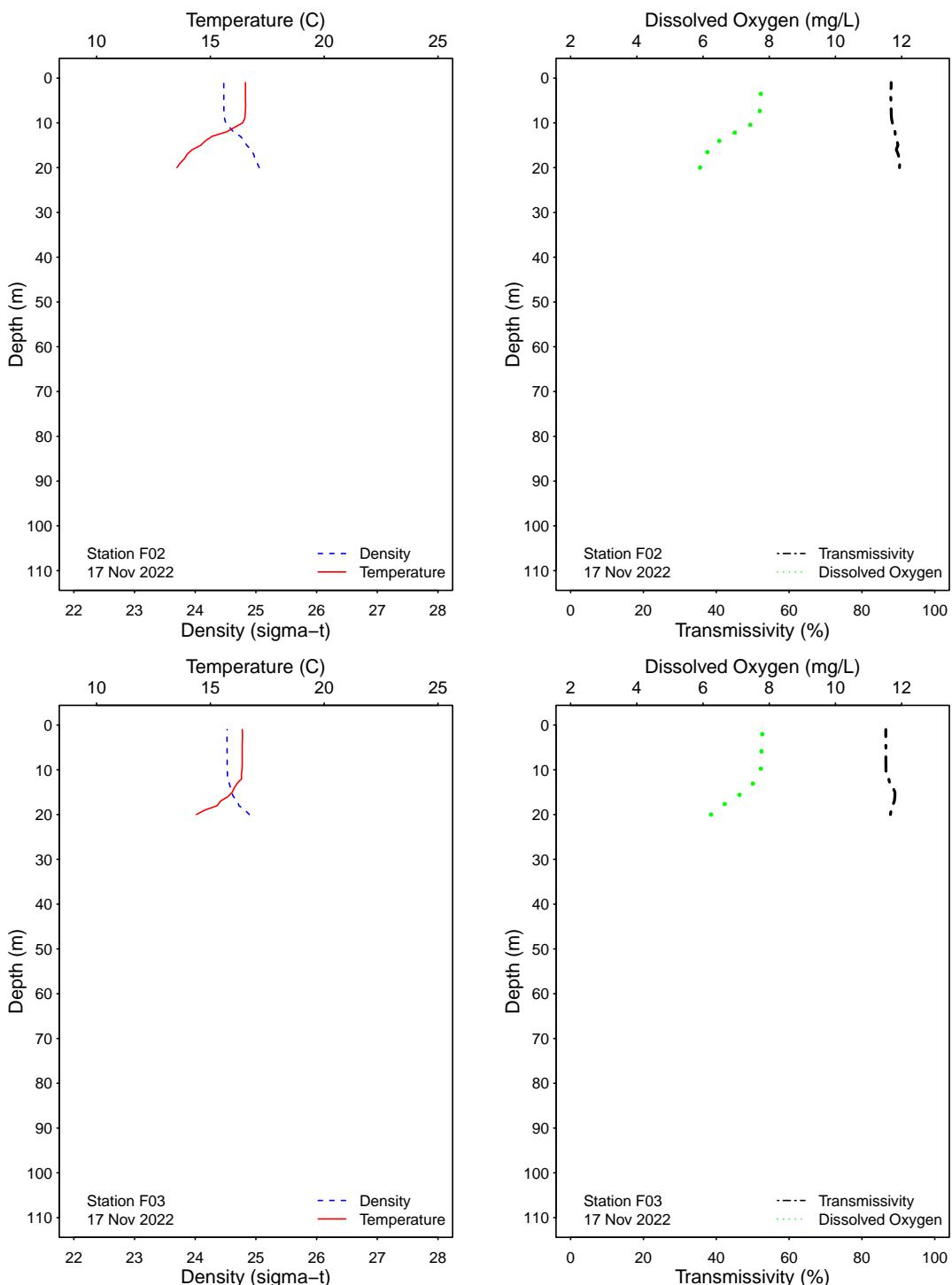


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

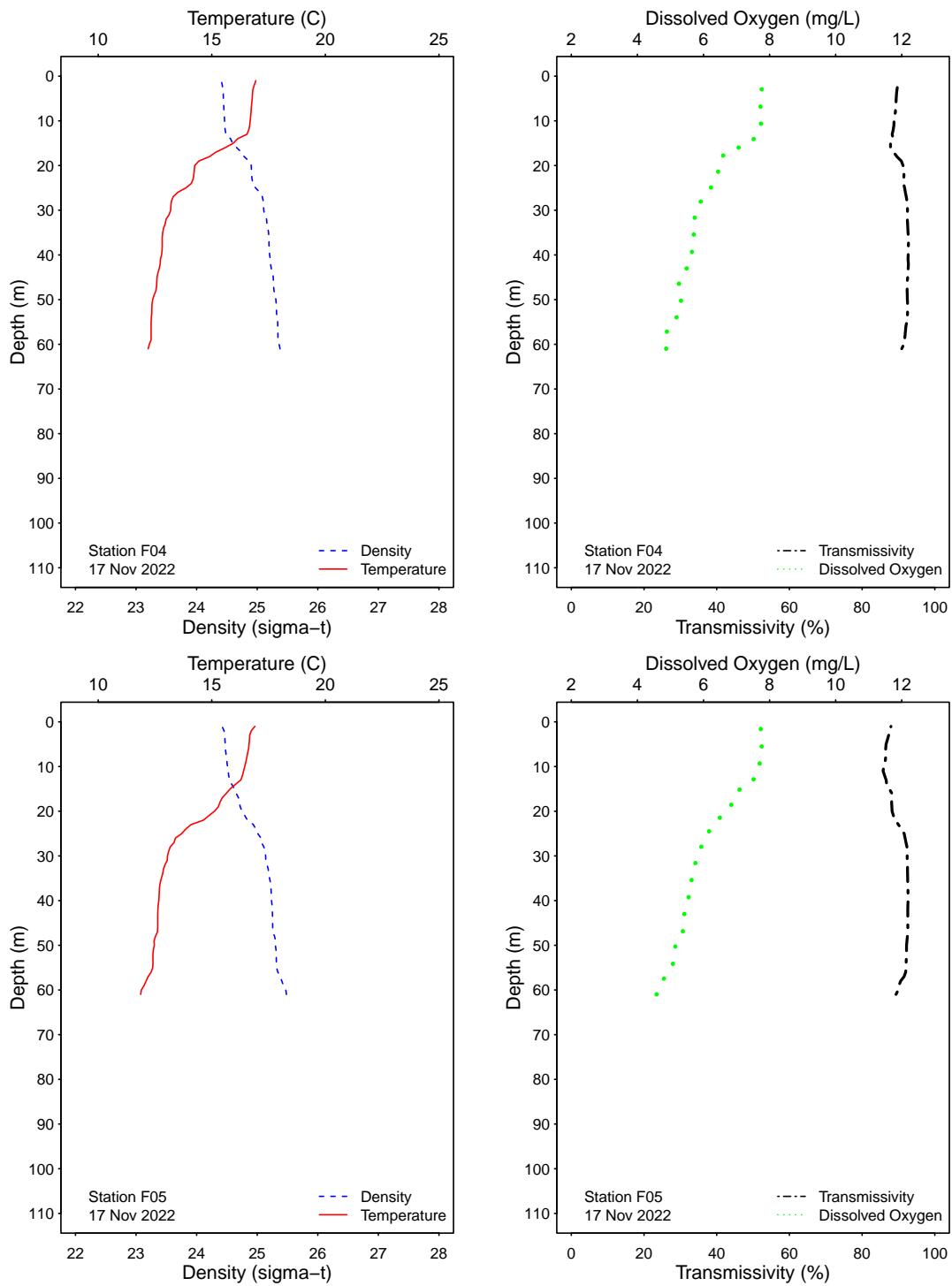


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

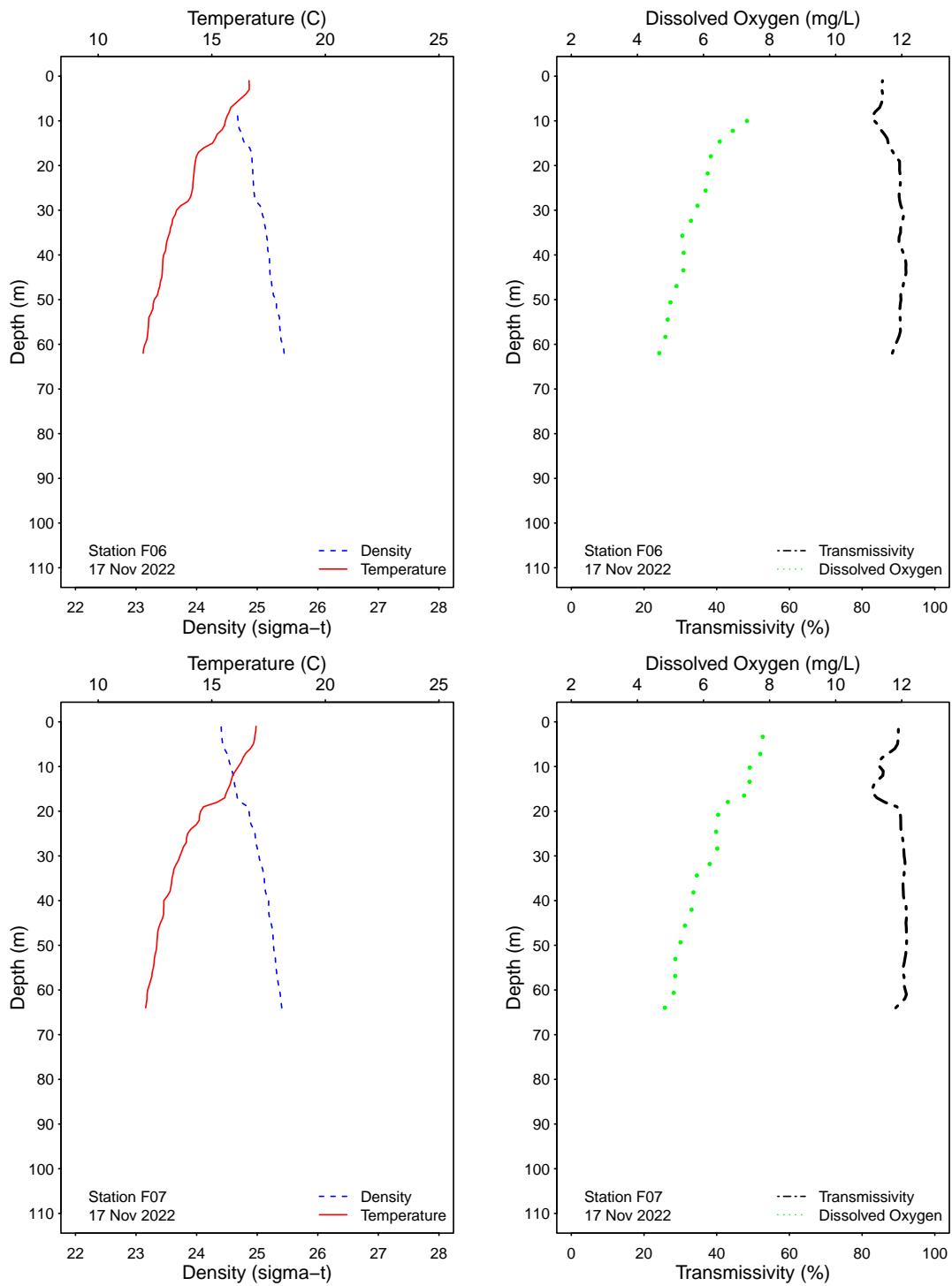


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

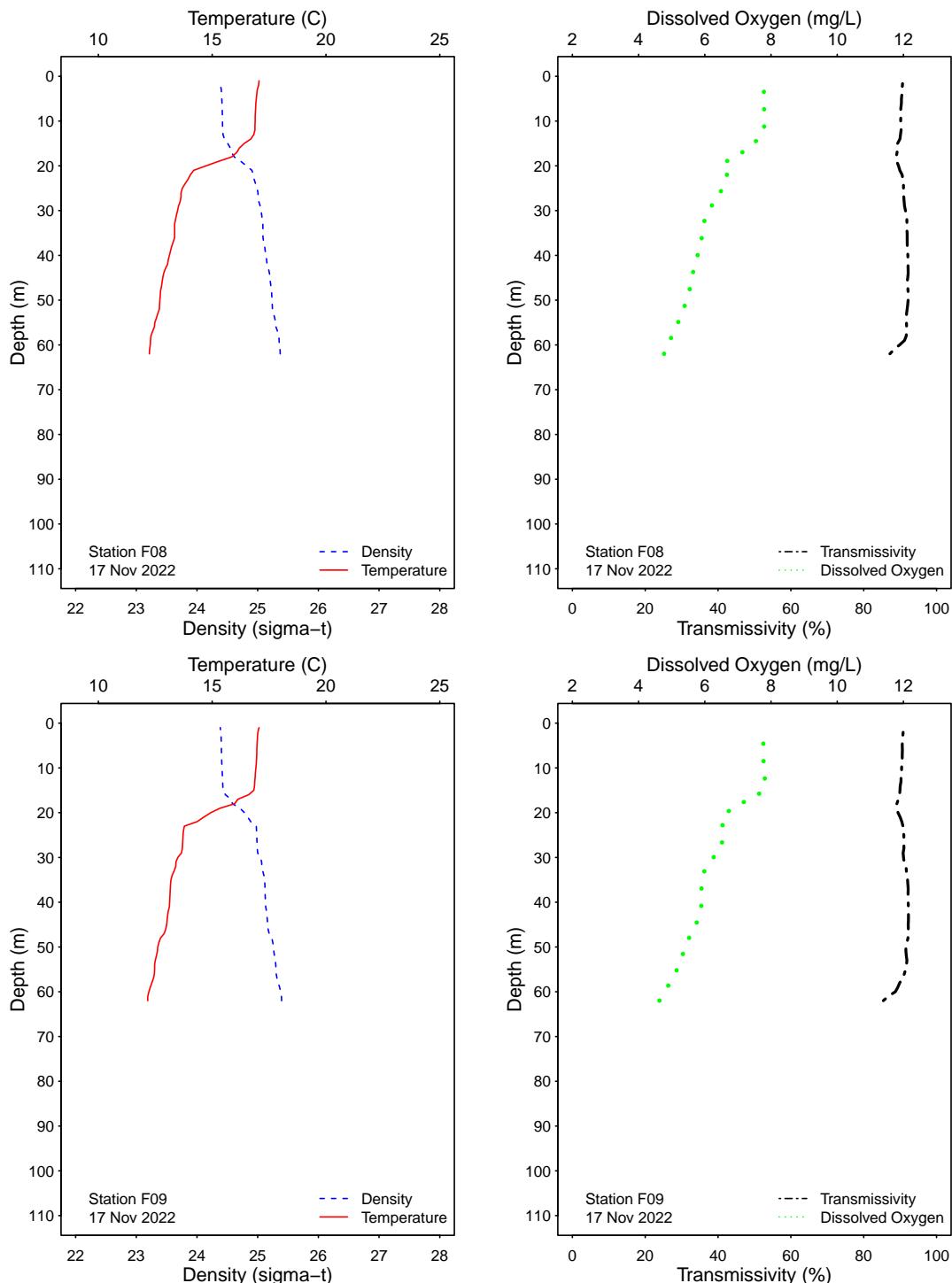


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

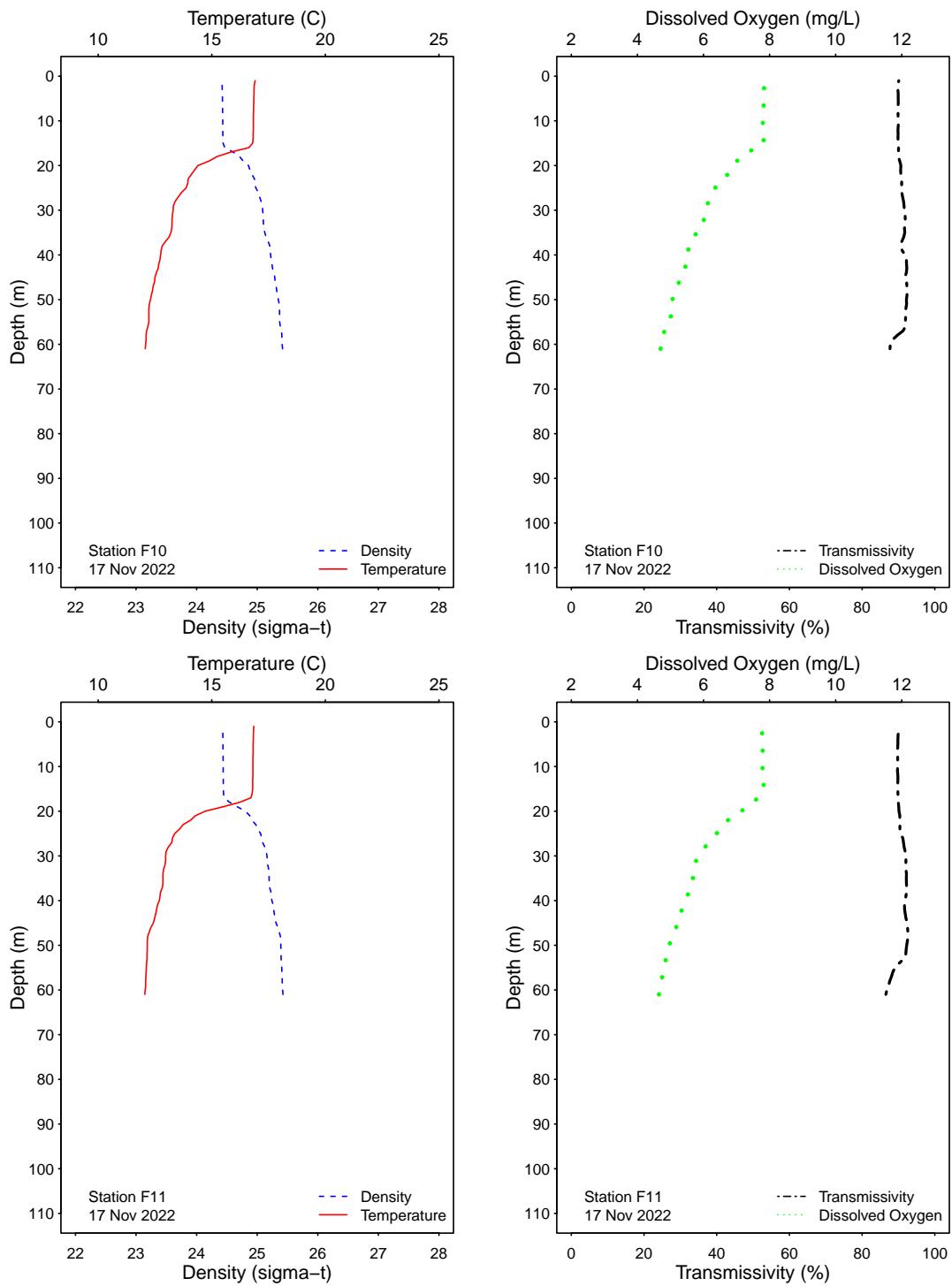


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

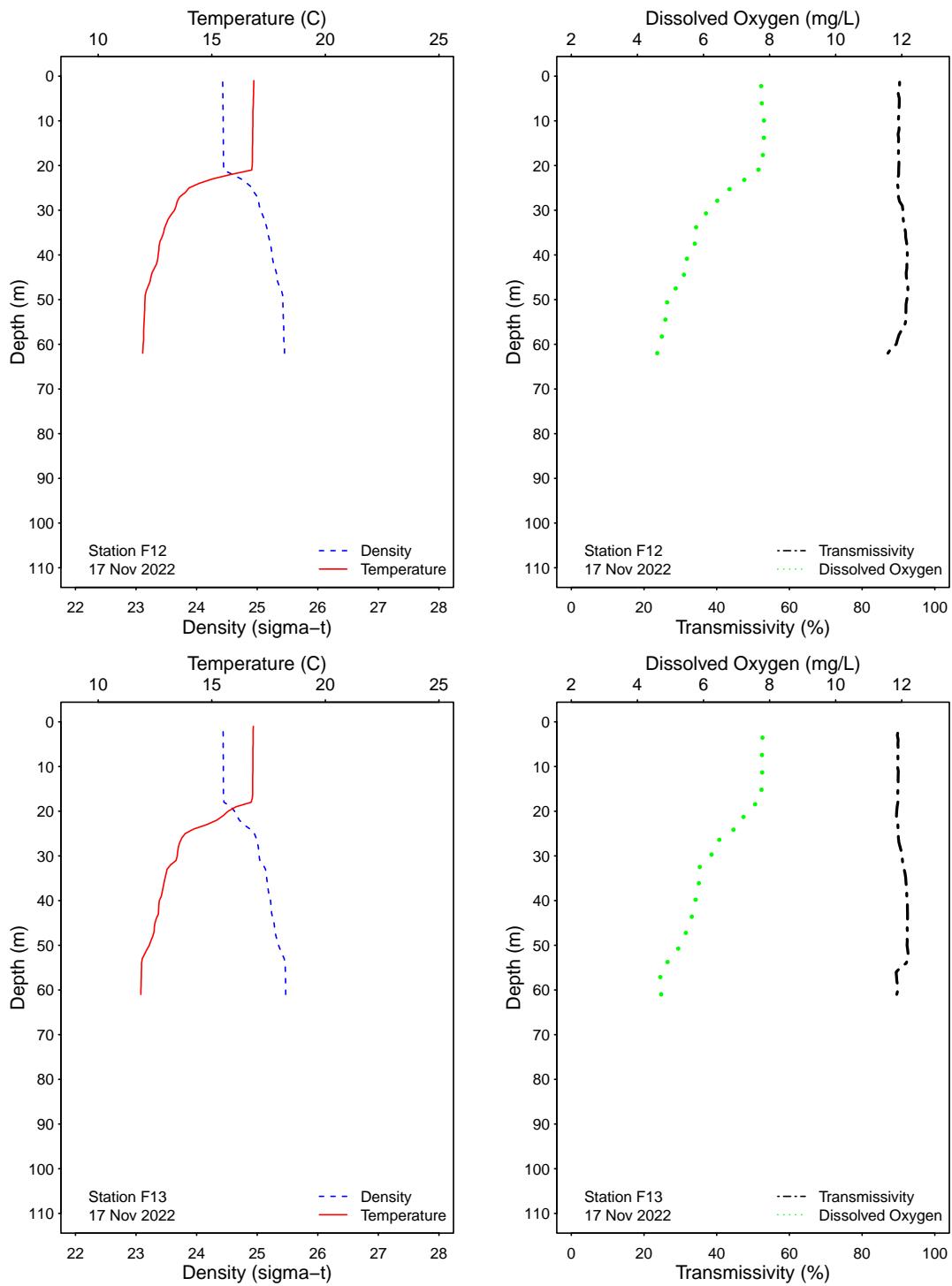


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

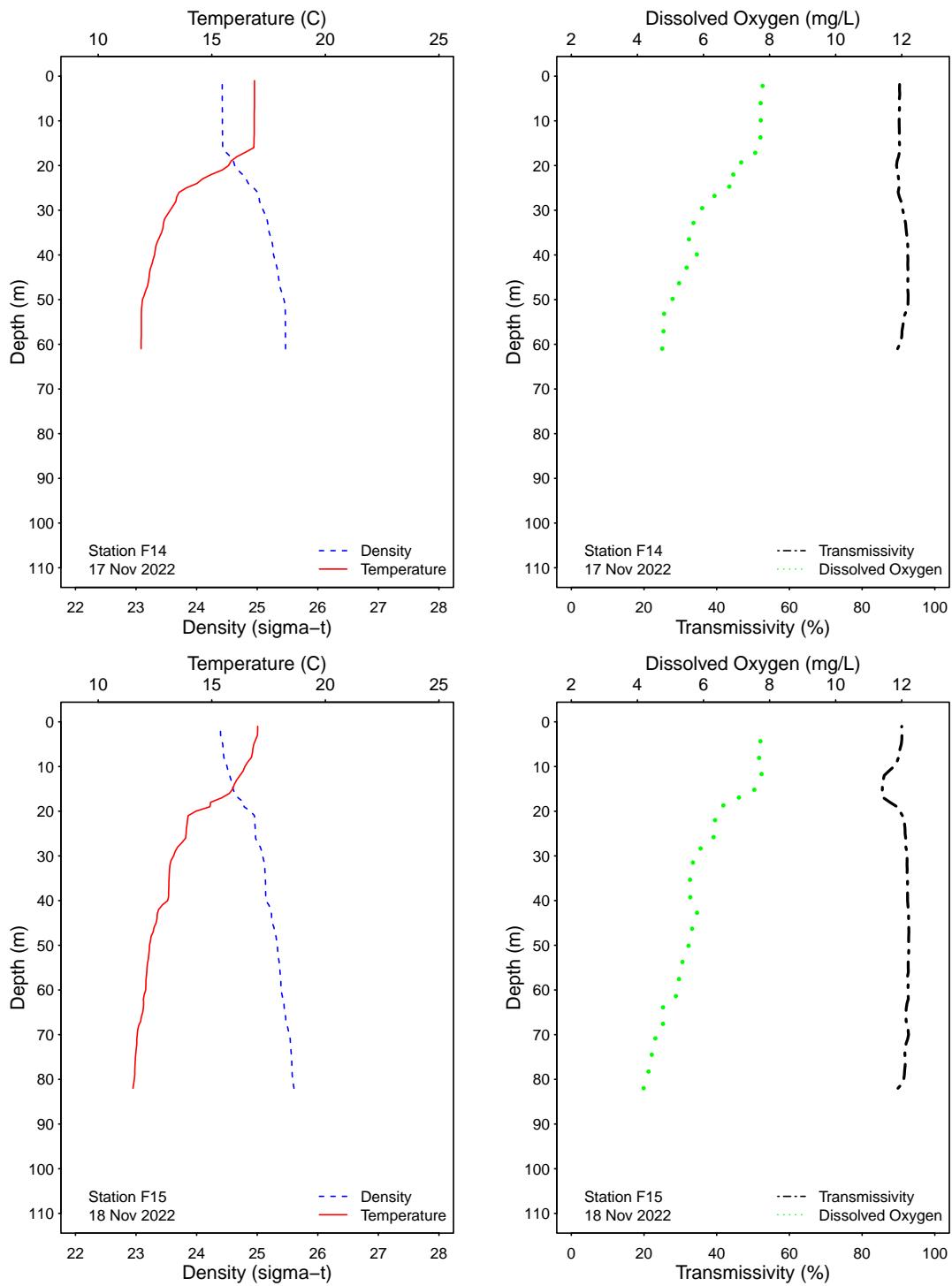


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

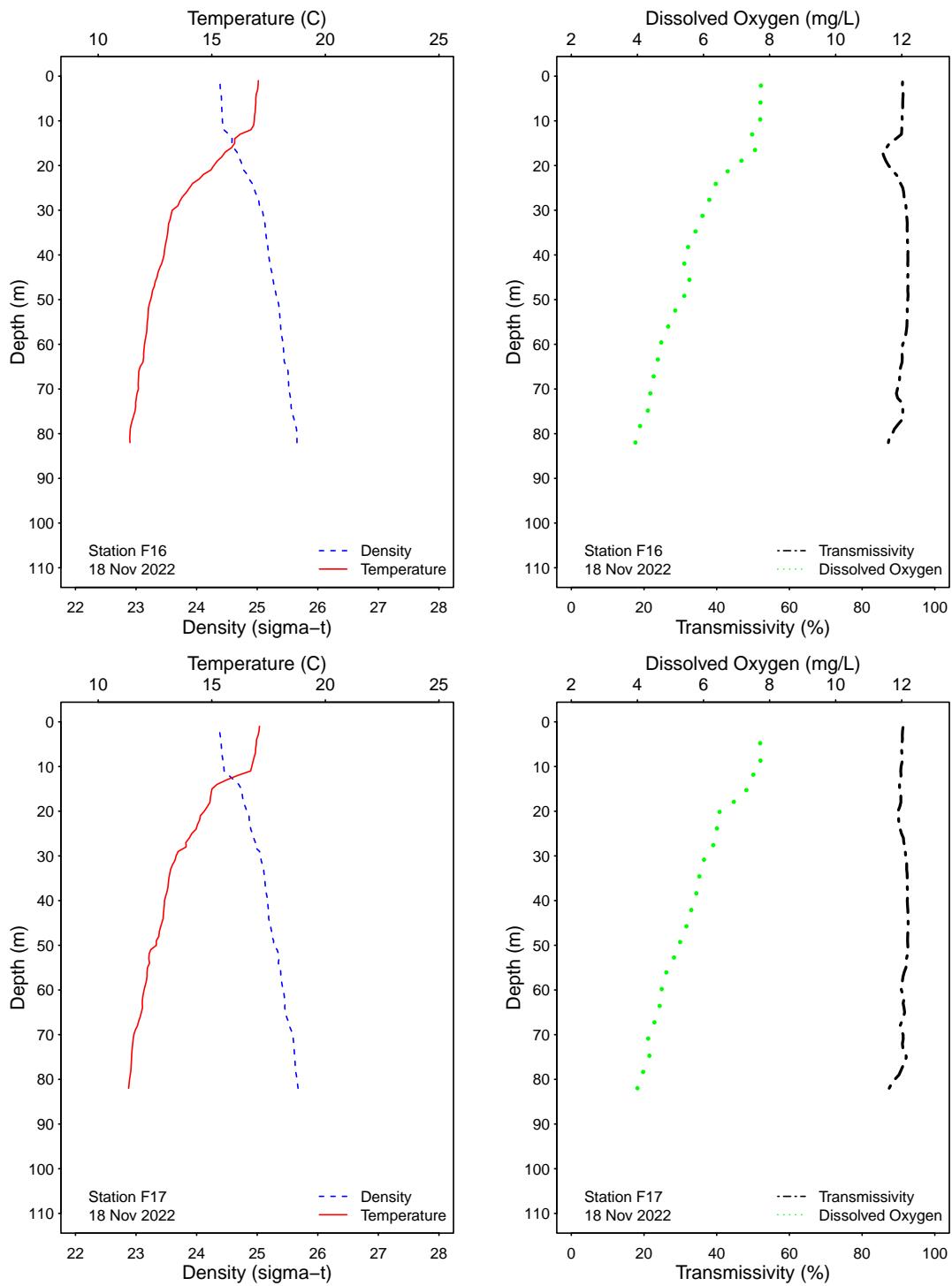


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

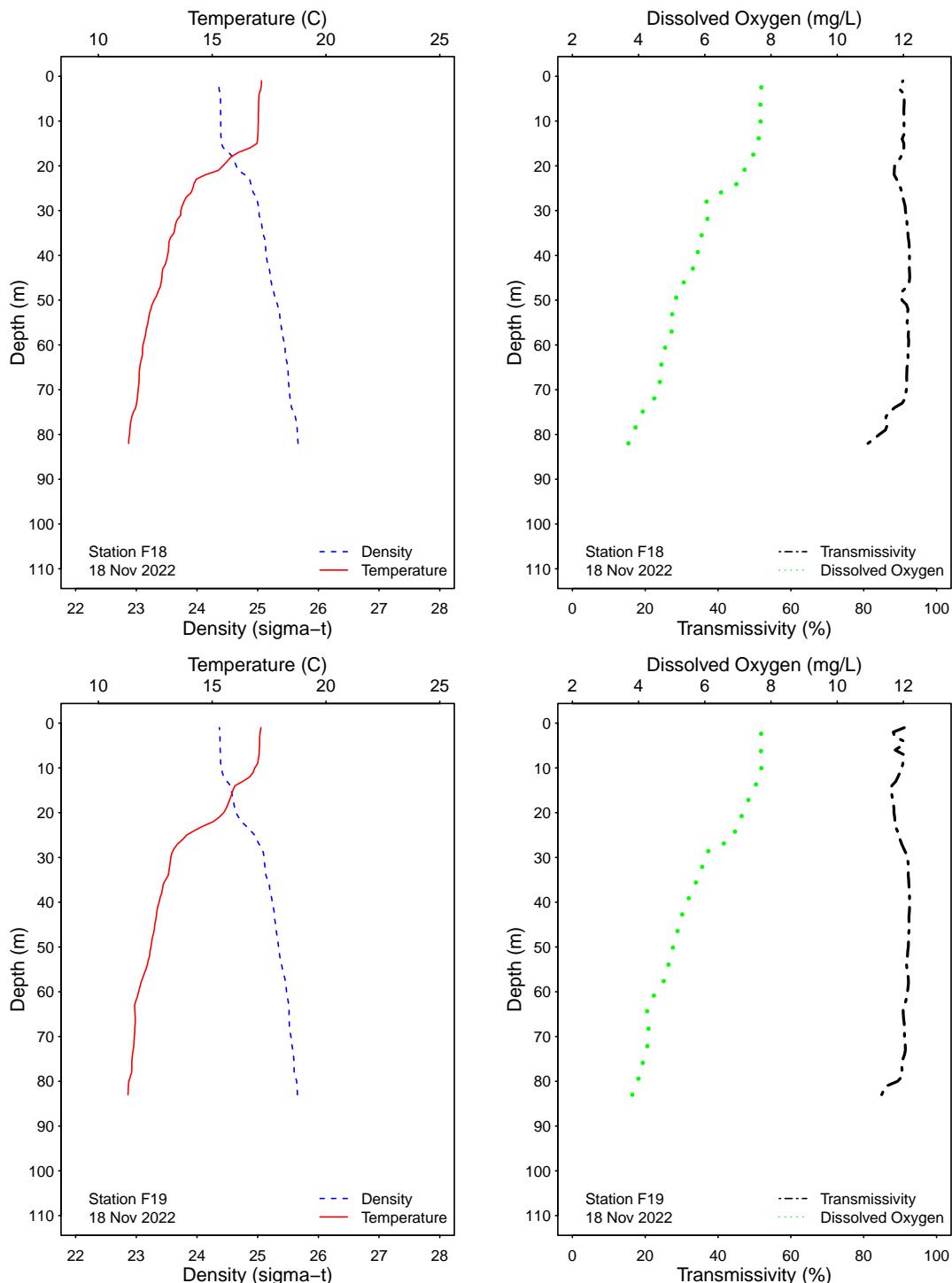


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

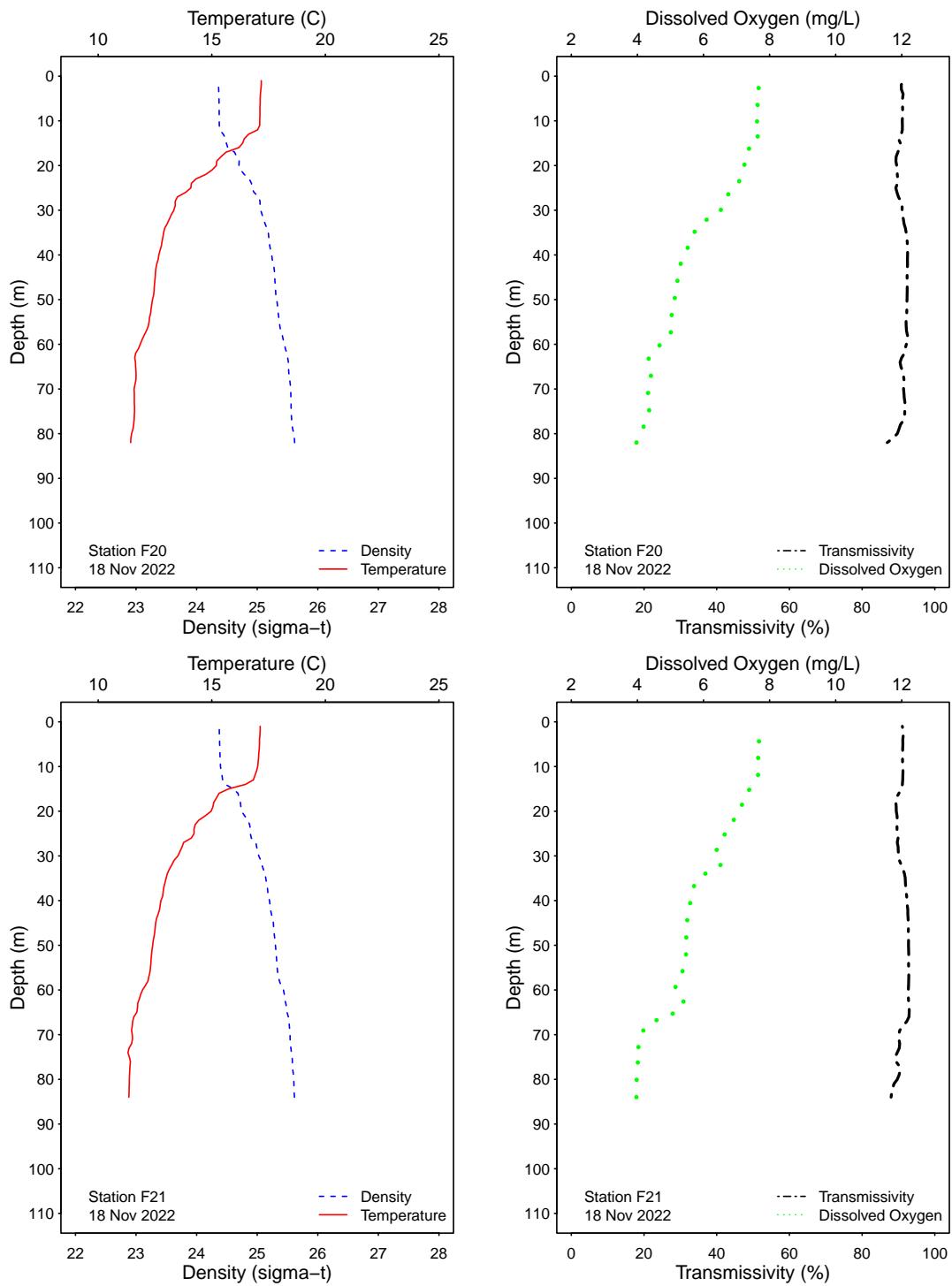


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

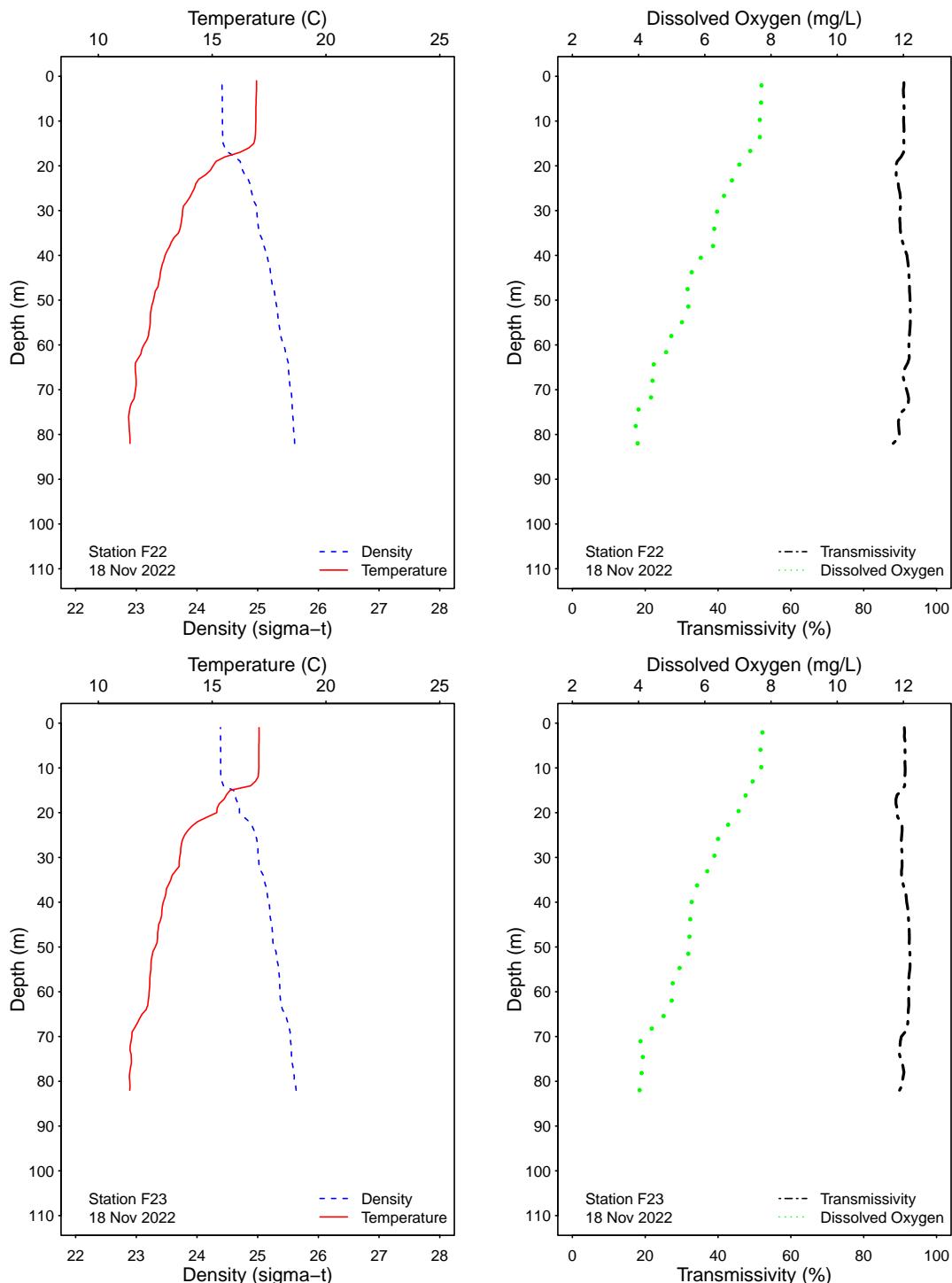


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

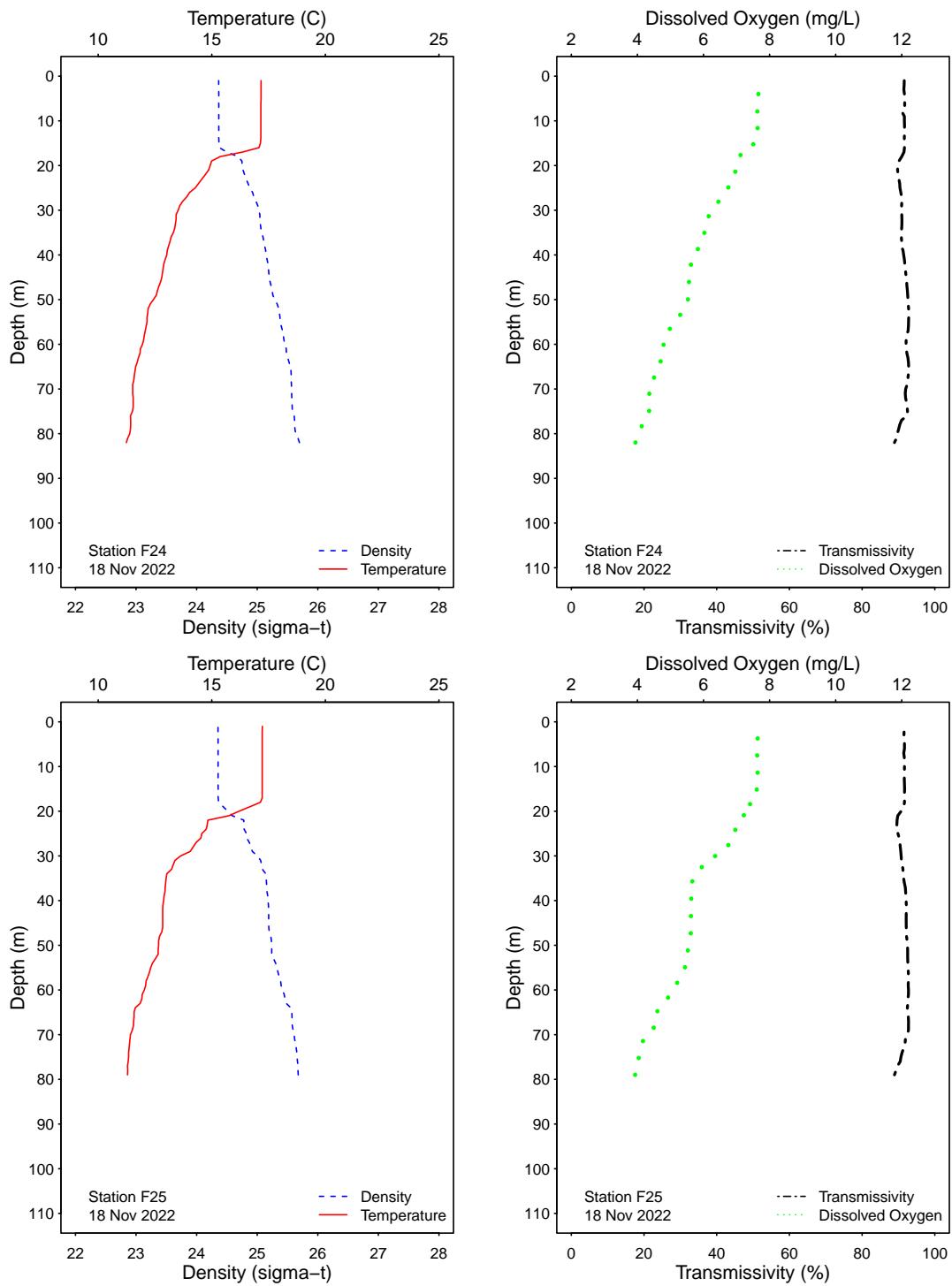


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.



## 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.

<b>Station</b>	<b>Date</b>	<b>Depth</b>	<b>Analyst</b>	<b>Procedure</b>	<b>Total</b>	<b>Fecal</b>	<b>Entero</b>
A7	01 Nov 2022	18	CRE	LAB DUPLICATE	10e	2e	<2
A7	07 Nov 2022	18	KA	LAB DUPLICATE	<2	<2	<2
A7	14 Nov 2022	18	KT	LAB DUPLICATE	4e	<2	<2
A7	21 Nov 2022	18	CRE	LAB DUPLICATE	14e	<2	<2
C7	01 Nov 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
C7	07 Nov 2022	18	KA	LAB DUPLICATE	2e	2e	<2
C7	14 Nov 2022	18	KT	LAB DUPLICATE	10e	4e	<2
C7	21 Nov 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
C8	01 Nov 2022	12	CRE	LAB DUPLICATE	<2	<2	<2
C8	07 Nov 2022	12	KA	LAB DUPLICATE	<2	<2	<2
C8	14 Nov 2022	12	KT	LAB DUPLICATE	<2	2e	<2
C8	21 Nov 2022	12	CRE	LAB DUPLICATE	<2	2e	<2
D12	02 Nov 2022		KT	FIELD DUPLICATE	<2	2e	2e
D12	02 Nov 2022		KT	LAB DUPLICATE	<2	<2	<2
D12	09 Nov 2022		KA	FIELD DUPLICATE	20e	12e	10e
D12	09 Nov 2022		KA	LAB DUPLICATE	10e	8e	6e
D12	16 Nov 2022		KA	FIELD DUPLICATE	6e	<2	2e
D12	16 Nov 2022		KA	LAB DUPLICATE	<2	<2	2e
D12	21 Nov 2022		CRE	FIELD DUPLICATE	<20	2e	<2
D12	21 Nov 2022		CRE	LAB DUPLICATE	<20	<2	2e
D12	30 Nov 2022		JF	FIELD DUPLICATE	4e	<2	2e
D12	30 Nov 2022		JF	LAB DUPLICATE	4e	<2	<2
F01	17 Nov 2022	12	BS	LAB DUPLICATE	ns	ns	<2
F02	17 Nov 2022	12	BS	LAB DUPLICATE	ns	ns	4e
F07	17 Nov 2022	60	KT	LAB DUPLICATE	ns	ns	<2
F08	17 Nov 2022	60	KT	LAB DUPLICATE	ns	ns	4e
F11	17 Nov 2022	60	KT	LAB DUPLICATE	ns	ns	<2
F17	18 Nov 2022	80	CRE	LAB DUPLICATE	ns	ns	<2
F18	18 Nov 2022	60	BS	LAB DUPLICATE	ns	ns	<2
F19	18 Nov 2022	60	BS	LAB DUPLICATE	ns	ns	140e
F20	18 Nov 2022	60	BS	LAB DUPLICATE	ns	ns	80
F21	18 Nov 2022	80	KT	LAB DUPLICATE	ns	ns	60e
F28	15 Nov 2022	60	BS	LAB DUPLICATE	ns	ns	46
F29	15 Nov 2022	60	BS	LAB DUPLICATE	ns	ns	820
F30	15 Nov 2022	60	BS	LAB DUPLICATE	ns	ns	26e
F31	15 Nov 2022	80	BS	LAB DUPLICATE	ns	ns	14e
F32	15 Nov 2022	80	BS	LAB DUPLICATE	ns	ns	2e
F34	15 Nov 2022	60	KA	LAB DUPLICATE	ns	ns	<2

ns = not sampled

ND = no data



## **APPENDIX B**

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



# Shore Stations



**Table B.1**

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Nov 2022	4	3	3	8	2	11	9	5
02 Nov 2022	4	5	6	29	2	13	9	5
03 Nov 2022	4	5	6	23	2	13	9	5
04 Nov 2022	4	5	6	23	2	13	9	5
05 Nov 2022	4	5	6	23	2	13	9	5
06 Nov 2022	4	5	6	23	2	13	9	5
07 Nov 2022	4	5	6	23	2	13	9	5
08 Nov 2022	4	5	6	23	2	13	9	5
09 Nov 2022	3	10	6	44	5	23	14	3
10 Nov 2022	3	11	6	40	5	19	10	3
11 Nov 2022	3	11	6	40	5	19	10	3
12 Nov 2022	3	11	6	40	5	19	10	3
13 Nov 2022	3	11	6	40	5	19	10	3
14 Nov 2022	3	11	6	40	5	19	10	3
15 Nov 2022	3	11	6	40	5	19	10	3
16 Nov 2022	3	8	6	40	5	19	10	3
17 Nov 2022	3	8	6	40	5	19	10	3
18 Nov 2022	3	8	6	40	5	19	10	3
19 Nov 2022	3	8	6	40	5	19	10	3
20 Nov 2022	3	8	6	40	5	19	10	3
21 Nov 2022	4	7	8	43	4	17	10	3
22 Nov 2022	4	7	8	43	4	17	10	3
23 Nov 2022	5	8	8	32	5	15	7	3
24 Nov 2022	5	8	8	35	5	15	7	3
25 Nov 2022	5	8	8	35	5	15	7	3
26 Nov 2022	5	8	8	35	5	15	7	3
27 Nov 2022	5	8	8	35	5	15	7	3
28 Nov 2022	5	8	8	35	5	15	7	3
29 Nov 2022	5	8	8	35	5	15	7	3
30 Nov 2022	4	8	8	35	4	13	7	3

\* Geometric mean calculated using n<5

ns = not sampled

**Table B.2**

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table B.3**

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Nov 2022	<b>200</b>	20	<b>200</b>	<b>200</b>	20	<b>200</b>	<b>110</b>	20
02 Nov 2022	<b>200</b>	20	<b>200</b>	<b>200</b>	20	<b>200</b>	20	20
03 Nov 2022	<b>200</b>	20	<b>200</b>	<b>200</b>	20	<b>200</b>	20	20
04 Nov 2022	<b>110</b>	20	<b>200</b>	<b>200</b>	20	<b>160</b>	<b>110</b>	20
05 Nov 2022	<b>110</b>	20	<b>200</b>	<b>200</b>	20	<b>160</b>	<b>110</b>	20
06 Nov 2022	<b>110</b>	20	<b>200</b>	<b>200</b>	20	<b>160</b>	<b>110</b>	20
07 Nov 2022	<b>110</b>	20	<b>200</b>	<b>200</b>	20	<b>160</b>	<b>110</b>	20
08 Nov 2022	<b>110</b>	20	<b>200</b>	<b>200</b>	20	<b>160</b>	<b>110</b>	20
09 Nov 2022	20	20	<b>200</b>	<b>400</b>	20	<b>200</b>	<b>200</b>	20
10 Nov 2022	20	20	<b>200</b>	<b>600</b>	20	<b>200</b>	<b>200</b>	20
11 Nov 2022	<b>110</b>	<b>110</b>	<b>200</b>	<b>500</b>	20	<b>200</b>	<b>110</b>	20
12 Nov 2022	<b>110</b>	<b>110</b>	<b>200</b>	<b>500</b>	20	<b>200</b>	<b>110</b>	20
13 Nov 2022	<b>110</b>	<b>110</b>	<b>200</b>	<b>500</b>	20	<b>200</b>	<b>110</b>	20
14 Nov 2022	<b>110</b>	<b>110</b>	<b>200</b>	<b>500</b>	20	<b>200</b>	<b>110</b>	20
15 Nov 2022	<b>110</b>	<b>110</b>	<b>200</b>	<b>500</b>	20	<b>200</b>	<b>110</b>	20
16 Nov 2022	20	20	<b>200</b>	<b>200</b>	20	<b>200</b>	20	20
17 Nov 2022	20	20	<b>200</b>	<b>200</b>	20	<b>200</b>	20	20
18 Nov 2022	20	<b>110</b>	<b>110</b>	<b>500</b>	20	<b>140</b>	<b>110</b>	12
19 Nov 2022	20	<b>110</b>	<b>110</b>	<b>500</b>	20	<b>140</b>	<b>110</b>	12
20 Nov 2022	20	<b>110</b>	<b>110</b>	<b>500</b>	20	<b>140</b>	<b>110</b>	12
21 Nov 2022	20	<b>200</b>	<b>200</b>	<b>200</b>	20	<b>200</b>	20	4
22 Nov 2022	20	<b>200</b>	<b>200</b>	<b>200</b>	20	<b>200</b>	20	4
23 Nov 2022	20	<b>200</b>	<b>200</b>	<b>200</b>	20	<b>200</b>	20	4
24 Nov 2022	20	<b>200</b>	<b>200</b>	<b>200</b>	20	<b>200</b>	20	4
25 Nov 2022	20	<b>200</b>	<b>110</b>	<b>500</b>	20	<b>140</b>	20	3
26 Nov 2022	20	<b>200</b>	<b>110</b>	<b>500</b>	20	<b>140</b>	20	3
27 Nov 2022	20	<b>200</b>	<b>110</b>	<b>500</b>	20	<b>140</b>	20	3
28 Nov 2022	20	<b>200</b>	<b>110</b>	<b>500</b>	20	<b>140</b>	20	3
29 Nov 2022	20	<b>200</b>	<b>110</b>	<b>500</b>	20	<b>140</b>	20	3
30 Nov 2022	20	<b>200</b>	20	<b>200</b>	20	<b>80</b>	20	4

\* 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
November	IC	E	E	E	E	E	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

# Kelp Stations



**Table B.5**

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Nov 2022	2	2	2	2	2	2	2	3
02 Nov 2022	2	2	2	2	2	2	2	3
03 Nov 2022	2	2	2	2	2	2	2	3
04 Nov 2022	2	2	2	2	2	2	2	3
05 Nov 2022	2	2	2	2	2	2	2	3
06 Nov 2022	2	2	2	2	2	2	2	3
07 Nov 2022	2	2	2	2	2	2	3	2
08 Nov 2022	2	2	2	2	2	2	3	2
09 Nov 2022	2	2	2	2	2	2	3	2
10 Nov 2022	2	2	2	2	2	2	3	3
11 Nov 2022	2	2	2	2	2	2	3	3
12 Nov 2022	2	2	2	2	2	2	3	3
13 Nov 2022	2	2	2	2	2	2	3	3
14 Nov 2022	2	2	2	2	2	2	3	2
15 Nov 2022	2	2	2	2	2	2	3	2
16 Nov 2022	2	2	2	2	2	2	3	2
17 Nov 2022	2	2	2	2	2	2	3	2
18 Nov 2022	2	2	2	2	2	2	3	2
19 Nov 2022	2	2	2	2	2	2	3	2
20 Nov 2022	2	2	2	2	2	2	3	2
21 Nov 2022	2	2	2	2	2	2	3	2
22 Nov 2022	2	2	2	2	2	2	3	2
23 Nov 2022	2	2	2	2	2	2	3	2
24 Nov 2022	2	2	2	2	2	2	3	2
25 Nov 2022	2	2	2	2	2	2	3	2
26 Nov 2022	2	2	2	2	2	2	3	2
27 Nov 2022	2	2	2	2	2	2	3	2
28 Nov 2022	2	2	2	2	2	2	3	2
29 Nov 2022	2	2	2	2	2	2	3	2
30 Nov 2022	2	2	2	2	2	2	3	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
November	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 Nov 2022	2	4	2	2	4	14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	4
02 Nov 2022	2	3	10	2	4	17	2	3	7	2	2	2	2	2	3	2	2	3	2	2	2	3	2	2	7
03 Nov 2022	2	3	10	2	4	17	2	3	7	2	2	2	2	2	3	2	2	3	2	2	2	3	2	2	7
04 Nov 2022	2	3	10	2	4	17	2	3	7	2	2	2	2	2	3	2	2	3	2	2	2	3	2	2	7
05 Nov 2022	2	3	10	2	4	17	2	3	7	2	2	2	2	2	3	2	2	3	2	2	2	3	2	2	7
06 Nov 2022	2	3	10	2	4	17	2	3	7	2	2	2	2	2	3	2	2	3	2	2	2	3	2	2	7
07 Nov 2022	2	2	18	2	4	14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	4
08 Nov 2022	2	2	18	2	4	14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	4
09 Nov 2022	2	2	18	2	4	14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	4
10 Nov 2022	2	3	20	2	3	8	2	3	7	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	3
11 Nov 2022	2	3	20	2	3	8	2	3	7	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	3
12 Nov 2022	2	3	20	2	3	8	2	3	7	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	3
13 Nov 2022	2	3	20	2	3	8	2	3	7	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	3
14 Nov 2022	2	2	18	2	4	14	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2
15 Nov 2022	2	2	18	2	4	14	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2
16 Nov 2022	2	2	18	2	4	14	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2
17 Nov 2022	2	3	20	2	5	21	2	3	11	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
18 Nov 2022	2	3	20	2	5	21	2	3	11	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
19 Nov 2022	2	3	20	2	5	21	2	3	11	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
20 Nov 2022	2	3	20	2	5	21	2	3	11	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
21 Nov 2022	2	2	18	2	4	14	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22 Nov 2022	2	2	18	2	4	14	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
23 Nov 2022	2	2	18	2	4	14	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24 Nov 2022	2	2	12	2	3	18	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25 Nov 2022	2	2	12	2	3	18	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
26 Nov 2022	2	2	12	2	3	18	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
27 Nov 2022	2	2	12	2	3	18	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
28 Nov 2022	2	2	12	2	3	18	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
29 Nov 2022	2	2	12	2	3	18	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
30 Nov 2022	2	2	12	2	3	18	2	2	8	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2

**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
November	IC	E	IC												

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

