



POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

APRIL 2021

Environmental Monitoring and Technical Services
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Public Utilities Department

Environmental Monitoring & Technical Services Division

May 31, 2021

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 April 2021 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, appearing to read "Peter S. Vroom".

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

PV/ss

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

INTRODUCTION

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

MATERIALS AND METHODS

Shore Stations

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

- Station D8 was replaced by alternate station D8-A during July 2016, which was subsequently replaced by station D8-B in March 2018, after which sampling at station D8-A resumed in December 2020. Due to recent access issues at D8-A, sampling resumed at D8-B during February 2021.

Seawater samples are collected from the surf zone at each station on a weekly basis. These samples are subsequently transported to the City's Marine Microbiology Laboratory and analyzed for the presence of several types of fecal indicator bacteria (FIB), including total coliforms, fecal coliforms, and *Enterococcus*. Visual observations of water color and clarity, surf height, human or animal activity, and weather conditions are also recorded at the time of sample collection. Wind speed and direction are measured using a hand-held anemometer with a compass.

Kelp Bed Stations

The eight kelp stations are sampled weekly according to permit specifications to monitor water quality conditions within the Point Loma kelp forest. These stations include three sites located along the inshore edge of the kelp bed paralleling the 9-m depth contour (i.e., stations C4, C5 and C6), and five sites located near the offshore edge of the kelp bed along the 18-m depth contour (i.e., stations A1, A6, A7, C7 and C8).

Routine weekly monitoring at each of the kelp bed sites consists primarily of collecting seawater samples at discrete depths to determine concentrations of fecal indicator bacteria (i.e., total coliforms, fecal coliforms, and *Enterococcus*). Water column profiles of various physical/chemical parameters are also generated during each sampling event, and visual observations of weather and water conditions are recorded at each station.

Seawater samples at the kelp bed stations are collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses are drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column

profiles of temperature, transmissivity, dissolved oxygen, pH, salinity, density, chlorophyll *a* are generated using a Sea-Bird conductivity, temperature and depth instrument (CTD), which collects these data at a rate of ≥ 4 scans per second. These scans are then internally averaged to create water column profiles with data readings at a rate of one per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

Offshore water quality sampling is conducted quarterly typically during the months of February, May, August and November. A total of 36 offshore stations (F01–F36) are sampled during each survey usually over a 3-day period. Three of the stations (F01–F03) are located along the 18 m depth contour, while 11 stations are located along each of the following contours: 60 m (stations F04–F14), 80 m (stations F15–F25), and 98 m (stations F26–F36). Of these 36 stations, 15 (F01–F03, F06–F14, F18–F20) are located within State jurisdictional waters (i.e., within 3 nautical miles of shore) and are subject to the California Ocean Plan's compliance standards. Monitoring at all offshore sites includes measurements of *Enterococcus* bacteria, water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, chromomorphic dissolved organic matter (CDOM), and visual observations of weather and water conditions.

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

Bacteriological Reporting and Quality Assurance

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

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

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

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

Single Sample Maximums:

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2021 Quality Assurance Report, which will be completed in March 2022.

SUMMARY OF RESULTS

As of October 2020, new 2019 Ocean Plan Water Quality Objectives are included for a six-week rolling geometric mean of *Enterococcus* density, which shall not exceed 30 cfu/100 ml, and a Statistical Threshold Value (STV) for *Enterococcus*, which shall not exceed 110 cfu/100 ml for more than 10% of samples per month (see Appendix B).

Shore Stations

- The eight shore stations (D4, D5, D7, D8-B, D9, D10, D11, D12) were sampled on April 1, 7, 14, 21, and 28.
- During April, each of the shore stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Nothing of sewage origin was observed at any of the shore stations.
- Over the years, elevated bacteria levels at shore and kelp bed stations have tended to be associated with rainfall events, heavy recreational use, or the presence of seabirds or decaying kelp and surf grass. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (<https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports>).

Kelp Bed Stations

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled on April 1, 6, 13/15, 20, and 27. Due to equipment loss on April 13, stations C4, C5 and C6 were sampled on April 15.
- During April, each of the kelp stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.

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

- Water column temperatures ranged from 10.43 to 17.38°C. The difference between surface and bottom waters ranged from 1.67 to 6.34°C.
- Chlorophyll *a* concentrations ranged from 0.45 to 12.01 µg/L.
- Nothing of sewage origin was observed at any of the kelp stations.

Offshore Stations

- Quarterly water quality sampling was not conducted during April at the offshore stations. The next quarterly sampling is scheduled for May 2021.



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 Apr 2021	9	20	9	23	13	18	20	13
02 Apr 2021	13	20	13	24	17	18	20	11
03 Apr 2021	13	20	13	24	17	18	20	11
04 Apr 2021	13	20	13	24	17	18	20	11
05 Apr 2021	13	20	13	24	17	18	20	11
06 Apr 2021	13	20	13	24	17	18	20	11
07 Apr 2021	9	13	9	14	13	18	13	8
08 Apr 2021	9	13	9	14	13	18	13	8
09 Apr 2021	6	11	8	11	13	20	11	11
10 Apr 2021	6	11	8	11	13	20	11	11
11 Apr 2021	6	11	8	11	13	20	11	11
12 Apr 2021	6	11	8	11	13	20	11	11
13 Apr 2021	6	11	8	11	13	20	11	11
14 Apr 2021	5	8	6	13	13	14	13	8
15 Apr 2021	5	8	6	13	13	14	13	8
16 Apr 2021	4	6	8	11	11	13	11	6
17 Apr 2021	4	6	8	11	11	13	11	6
18 Apr 2021	4	6	8	11	11	13	11	6
19 Apr 2021	4	6	8	11	11	13	11	6
20 Apr 2021	4	6	8	11	11	13	11	6
21 Apr 2021	3	5	9	13	13	14	17	6
22 Apr 2021	3	5	9	13	13	14	17	6
23 Apr 2021	4	4	6	11	11	13	16	4
24 Apr 2021	4	4	6	11	11	13	16	4
25 Apr 2021	4	4	6	11	11	13	16	4
26 Apr 2021	4	4	6	11	11	13	16	4
27 Apr 2021	4	4	6	11	11	13	16	4
28 Apr 2021	5	5	8	14	13	14	19	6
29 Apr 2021	5	5	8	14	13	14	19	6
30 Apr 2021	5	5	8	14	13	14	19	6

* Geometric mean calculated using n<5

ns = not sampled

Table 2.2

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Apr 2021	3	3	3	3	2	3	4	2
02 Apr 2021	4	2	3	3	2	2	4	2
03 Apr 2021	4	2	3	3	2	2	4	2
04 Apr 2021	4	2	3	3	2	2	4	2
05 Apr 2021	4	2	3	3	2	2	4	2
06 Apr 2021	4	2	3	3	2	2	4	2
07 Apr 2021	3	2	3	3	2	2	4	2
08 Apr 2021	3	2	3	3	2	2	4	2
09 Apr 2021	2	2	3	2	2	2	2	2
10 Apr 2021	2	2	3	2	2	2	2	2
11 Apr 2021	2	2	3	2	2	2	2	2
12 Apr 2021	2	2	3	2	2	2	2	2
13 Apr 2021	2	2	3	2	2	2	2	2
14 Apr 2021	2	2	3	2	3	2	2	2
15 Apr 2021	2	2	3	2	3	2	2	2
16 Apr 2021	2	2	3	3	3	2	2	2
17 Apr 2021	2	2	3	3	3	2	2	2
18 Apr 2021	2	2	3	3	3	2	2	2
19 Apr 2021	2	2	3	3	3	2	2	2
20 Apr 2021	2	2	3	3	3	2	2	2
21 Apr 2021	2	2	3	2	3	3	3	2
22 Apr 2021	2	2	3	2	3	3	3	2
23 Apr 2021	2	2	2	3	3	3	4	2
24 Apr 2021	2	2	2	3	3	3	4	2
25 Apr 2021	2	2	2	3	3	3	4	2
26 Apr 2021	2	2	2	3	3	3	4	2
27 Apr 2021	2	2	2	3	3	3	4	2
28 Apr 2021	2	2	2	2	3	3	4	2
29 Apr 2021	2	2	2	2	3	3	4	2
30 Apr 2021	2	2	2	2	3	3	4	2

* Geometric mean calculated using n<5

ns = not sampled

Table 2.3

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

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Apr 2021	2	2	3	2	2	2	3	2
02 Apr 2021	2	2	4	2	2	2	3	3
03 Apr 2021	2	2	4	2	2	2	3	3
04 Apr 2021	2	2	4	2	2	2	3	3
05 Apr 2021	2	2	4	2	2	2	3	3
06 Apr 2021	2	2	4	2	2	2	3	3
07 Apr 2021	2	2	3	2	2	2	2	2
08 Apr 2021	2	2	3	2	2	2	2	2
09 Apr 2021	2	2	4	2	2	2	2	3
10 Apr 2021	2	2	4	2	2	2	2	3
11 Apr 2021	2	2	4	2	2	2	2	3
12 Apr 2021	2	2	4	2	2	2	2	3
13 Apr 2021	2	2	4	2	2	2	2	3
14 Apr 2021	2	2	3	2	2	3	2	2
15 Apr 2021	2	2	3	2	2	3	2	2
16 Apr 2021	2	2	4	2	2	3	2	2
17 Apr 2021	2	2	4	2	2	3	2	2
18 Apr 2021	2	2	4	2	2	3	2	2
19 Apr 2021	2	2	4	2	2	3	2	2
20 Apr 2021	2	2	4	2	2	3	2	2
21 Apr 2021	2	2	3	2	2	3	2	2
22 Apr 2021	2	2	3	2	2	3	2	2
23 Apr 2021	2	2	2	2	2	3	2	2
24 Apr 2021	2	2	2	2	2	3	2	2
25 Apr 2021	2	2	2	2	2	3	2	2
26 Apr 2021	2	2	2	2	2	3	2	2
27 Apr 2021	2	2	2	2	2	3	2	2
28 Apr 2021	2	2	3	2	3	3	3	2
29 Apr 2021	2	2	3	2	3	3	3	2
30 Apr 2021	2	2	3	2	3	3	3	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
01 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
07 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
14 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
21 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
28 Apr 2021	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
01 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
07 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
14 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
21 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
28 Apr 2021	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
01 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
07 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
14 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
21 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
28 Apr 2021	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
01 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
07 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
14 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
21 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
28 Apr 2021	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	01 Apr 2021	945	<20	2e	<2	0.10
	07 Apr 2021	1041	<2	<2	<2	1.00
	14 Apr 2021	830	2e	<2	<2	1.00
	21 Apr 2021	1118	<2	<2	<2	1.00
	28 Apr 2021	848	<20	<2	6e	0.10
D5	01 Apr 2021	925	<20	<2	<2	0.10
	07 Apr 2021	1014	<2	<2	<2	1.00
	14 Apr 2021	805	2e	2e	<2	1.00
	21 Apr 2021	1100	<2	<2	<2	1.00
	28 Apr 2021	838	<20	<2	<2	0.10
D7	01 Apr 2021	1005	<20	2e	<2	0.10
	07 Apr 2021	947	<2	<2	2e	1.00
	14 Apr 2021	900	<2	<2	<2	1.00
	21 Apr 2021	1007	<20	2e	<2	0.10
	28 Apr 2021	911	<20	6e	12e	0.30
D8-B	01 Apr 2021	1030	<20	2e	<2	0.10
	07 Apr 2021	915	2e	<2	<2	1.00
	14 Apr 2021	920	<20	6e	<2	0.30
	21 Apr 2021	942	<20	<2	<2	0.10
	28 Apr 2021	927	40e	<2	2e	0.05
D9	01 Apr 2021	1042	<20	4e	<2	0.20
	07 Apr 2021	858	4e	<2	<2	0.50
	14 Apr 2021	935	10e	4e	<2	0.40
	21 Apr 2021	930	20e	<2	<2	0.10
	28 Apr 2021	939	<20	<2	12e	0.10
D10	01 Apr 2021	1055	<20	<2	<2	0.10
	07 Apr 2021	843	<20	2e	4e	0.10
	14 Apr 2021	1035	4e	2e	4e	0.50
	21 Apr 2021	853	<20	10e	<2	0.50
	28 Apr 2021	950	20e	4e	8e	0.20
D11	01 Apr 2021	1110	<20	2e	<2	0.10
	07 Apr 2021	826	2e	2e	<2	1.00
	14 Apr 2021	1020	20e	<2	<2	0.10
	21 Apr 2021	824	80e	20e	4e	0.25
	28 Apr 2021	1002	40e	10e	10e	0.25
D12	01 Apr 2021	1145	<20	<2	<2	0.10
	07 Apr 2021	807	2e	<2	2e	1.00
	14 Apr 2021	1055	<2	<2	<2	1.00
	21 Apr 2021	754	4e	<2	<2	0.50
	28 Apr 2021	1046	<20	4e	<2	0.20

ns = not sampled

ND = no data

Table 2.9

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

Station	Date	Parameter	Value
D4	01 Apr 2021	Arrive Time	945
D4	01 Apr 2021	Weather	Sunny
D4	01 Apr 2021	Wind Speed (kts)	3.8
D4	01 Apr 2021	Wind Dir	North
D4	01 Apr 2021	Animal Life	5 Cormorants; 3 Pelicans
D4	01 Apr 2021	Floatables	None
D4	01 Apr 2021	Water Color	Green
D4	01 Apr 2021	Current Direction	S
D4	01 Apr 2021	Water Temp (C)	17.8
D4	01 Apr 2021	Wave Height Low (ft)	2
D4	01 Apr 2021	High Tide (ft)	3.38
D4	01 Apr 2021	High Tide Time	1301
D4	01 Apr 2021	Low Tide (ft)	-0.43
D4	01 Apr 2021	Low Tide Time	652
D4	01 Apr 2021	Comments	7 Boats; Water clear; Seagrass; Kelp; Algae; 3 Surfers
D4	07 Apr 2021	Arrive Time	1041
D4	07 Apr 2021	Weather	Sunny
D4	07 Apr 2021	Wind Speed (kts)	4
D4	07 Apr 2021	Wind Dir	N
D4	07 Apr 2021	Animal Life	1 Seal
D4	07 Apr 2021	Floatables	None
D4	07 Apr 2021	Water Color	Green
D4	07 Apr 2021	Current Direction	S
D4	07 Apr 2021	Water Temp (C)	19.8
D4	07 Apr 2021	Wave Height Low (ft)	2
D4	07 Apr 2021	High Tide (ft)	4.82
D4	07 Apr 2021	High Tide Time	657
D4	07 Apr 2021	Low Tide (ft)	-0.49
D4	07 Apr 2021	Low Tide Time	1350
D4	07 Apr 2021	Comments	Water clear; Kelp; Seagrass; Algae; Trash-1
D4	14 Apr 2021	Arrive Time	945
D4	14 Apr 2021	Weather	Sunny
D4	14 Apr 2021	Wind Speed (kts)	3.8
D4	14 Apr 2021	Wind Dir	North
D4	14 Apr 2021	Animal Life	5 Cormorants; 3 Pelicans
D4	14 Apr 2021	Floatables	None
D4	14 Apr 2021	Water Color	Green
D4	14 Apr 2021	Current Direction	S
D4	14 Apr 2021	Water Temp (C)	17.8
D4	14 Apr 2021	Wave Height Low (ft)	2
D4	14 Apr 2021	High Tide (ft)	4.29
D4	14 Apr 2021	High Tide Time	1007
D4	14 Apr 2021	Low Tide (ft)	0.02
D4	14 Apr 2021	Low Tide Time	410
D4	14 Apr 2021	Comments	7 Boats; Water clear; Seagrass; Kelp; Algae; 3 Surfers
D4	21 Apr 2021	Arrive Time	1118
D4	21 Apr 2021	Weather	Partly Cloudy
D4	21 Apr 2021	Wind Speed (kts)	6.2
D4	21 Apr 2021	Wind Dir	W
D4	21 Apr 2021	Animal Life	1 Seagull
D4	21 Apr 2021	Floatables	Film
D4	21 Apr 2021	Water Color	Green
D4	21 Apr 2021	Current Direction	N

Station	Date	Parameter	Value
D4	21 Apr 2021	Water Temp (C)	16
D4	21 Apr 2021	Wave Height Low (ft)	3
D4	21 Apr 2021	High Tide (ft)	4.13
D4	21 Apr 2021	High Tide Time	450
D4	21 Apr 2021	Low Tide (ft)	0.05
D4	21 Apr 2021	Low Tide Time	1217
D4	21 Apr 2021	Comments	Water clear; Trash-1; Seagrass; Kelp; Algae
D4	28 Apr 2021	Arrive Time	848
D4	28 Apr 2021	Weather	Sunny
D4	28 Apr 2021	Wind Speed (kts)	0.7
D4	28 Apr 2021	Wind Dir	W
D4	28 Apr 2021	Animal Life	None
D4	28 Apr 2021	Floatables	Foam
D4	28 Apr 2021	Water Color	Green
D4	28 Apr 2021	Current Direction	N
D4	28 Apr 2021	Water Temp (C)	15.3
D4	28 Apr 2021	Wave Height Low (ft)	1
D4	28 Apr 2021	High Tide (ft)	4.16
D4	28 Apr 2021	High Tide Time	1103
D4	28 Apr 2021	Low Tide (ft)	-1.3
D4	28 Apr 2021	Low Tide Time	454
D4	28 Apr 2021	Comments	Water clear; Kelp; Algae; Seagrass
D5	01 Apr 2021	Arrive Time	925
D5	01 Apr 2021	Weather	Sunny
D5	01 Apr 2021	Wind Speed (kts)	3.6
D5	01 Apr 2021	Wind Dir	N
D5	01 Apr 2021	Animal Life	3 Seagulls
D5	01 Apr 2021	Floatables	Foam
D5	01 Apr 2021	Water Color	Green
D5	01 Apr 2021	Current Direction	S
D5	01 Apr 2021	Water Temp (C)	17.8
D5	01 Apr 2021	Wave Height Low (ft)	2
D5	01 Apr 2021	High Tide (ft)	3.38
D5	01 Apr 2021	High Tide Time	1301
D5	01 Apr 2021	Low Tide (ft)	-0.43
D5	01 Apr 2021	Low Tide Time	652
D5	01 Apr 2021	Comments	Water turbid; Algae
D5	07 Apr 2021	Arrive Time	1014
D5	07 Apr 2021	Weather	Sunny
D5	07 Apr 2021	Wind Speed (kts)	2.7
D5	07 Apr 2021	Wind Dir	N
D5	07 Apr 2021	Animal Life	3 Cormorants
D5	07 Apr 2021	Floatables	Film
D5	07 Apr 2021	Water Color	Green
D5	07 Apr 2021	Current Direction	S
D5	07 Apr 2021	Water Temp (C)	17.2
D5	07 Apr 2021	Wave Height Low (ft)	1
D5	07 Apr 2021	High Tide (ft)	4.82
D5	07 Apr 2021	High Tide Time	657
D5	07 Apr 2021	Low Tide (ft)	-0.49
D5	07 Apr 2021	Low Tide Time	1350
D5	07 Apr 2021	Comments	Water clear; Kelp; Seagrass; Algae; Trash-1; 1 Boat
D5	14 Apr 2021	Arrive Time	925
D5	14 Apr 2021	Weather	Sunny
D5	14 Apr 2021	Wind Speed (kts)	3.6
D5	14 Apr 2021	Wind Dir	N
D5	14 Apr 2021	Animal Life	3 Seagulls

Station	Date	Parameter	Value
D5	14 Apr 2021	Floatables	Foam
D5	14 Apr 2021	Water Color	Green
D5	14 Apr 2021	Current Direction	S
D5	14 Apr 2021	Water Temp (C)	17.8
D5	14 Apr 2021	Wave Height Low (ft)	2
D5	14 Apr 2021	High Tide (ft)	4.29
D5	14 Apr 2021	High Tide Time	1007
D5	14 Apr 2021	Low Tide (ft)	0.02
D5	14 Apr 2021	Low Tide Time	410
D5	14 Apr 2021	Comments	Water turbid; Algae
D5	21 Apr 2021	Arrive Time	1100
D5	21 Apr 2021	Weather	Partly Cloudy
D5	21 Apr 2021	Wind Speed (kts)	1.5
D5	21 Apr 2021	Wind Dir	W
D5	21 Apr 2021	Animal Life	6 Terns
D5	21 Apr 2021	Floatables	Foam
D5	21 Apr 2021	Water Color	Green
D5	21 Apr 2021	Current Direction	N
D5	21 Apr 2021	Water Temp (C)	15
D5	21 Apr 2021	Wave Height Low (ft)	2
D5	21 Apr 2021	High Tide (ft)	4.13
D5	21 Apr 2021	High Tide Time	450
D5	21 Apr 2021	Low Tide (ft)	0.05
D5	21 Apr 2021	Low Tide Time	1217
D5	21 Apr 2021	Comments	Kelp; Seagrass; Algae; Trash-1; Water clear
D5	28 Apr 2021	Arrive Time	838
D5	28 Apr 2021	Weather	Sunny
D5	28 Apr 2021	Wind Speed (kts)	2.1
D5	28 Apr 2021	Wind Dir	NW
D5	28 Apr 2021	Animal Life	None
D5	28 Apr 2021	Floatables	Foam
D5	28 Apr 2021	Water Color	Green
D5	28 Apr 2021	Current Direction	N
D5	28 Apr 2021	Water Temp (C)	16.1
D5	28 Apr 2021	Wave Height Low (ft)	1
D5	28 Apr 2021	High Tide (ft)	4.16
D5	28 Apr 2021	High Tide Time	1103
D5	28 Apr 2021	Low Tide (ft)	-1.3
D5	28 Apr 2021	Low Tide Time	454
D5	28 Apr 2021	Comments	Water turbid; Kelp; Algae; Seagrass
D7	01 Apr 2021	Arrive Time	1005
D7	01 Apr 2021	Weather	Sunny
D7	01 Apr 2021	Wind Speed (kts)	4.2
D7	01 Apr 2021	Wind Dir	N
D7	01 Apr 2021	Animal Life	2 Pigeons; 1 Wren
D7	01 Apr 2021	Floatables	None
D7	01 Apr 2021	Water Color	Green
D7	01 Apr 2021	Current Direction	N
D7	01 Apr 2021	Water Temp (C)	18.3
D7	01 Apr 2021	Wave Height Low (ft)	4
D7	01 Apr 2021	High Tide (ft)	3.38
D7	01 Apr 2021	High Tide Time	1301
D7	01 Apr 2021	Low Tide (ft)	-0.43
D7	01 Apr 2021	Low Tide Time	652
D7	01 Apr 2021	Comments	Water Clear; Seagrass; Kelp; Algae; 21 Surfers
D7	07 Apr 2021	Arrive Time	947
D7	07 Apr 2021	Weather	Sunny

Station	Date	Parameter	Value
D7	07 Apr 2021	Wind Speed (kts)	0.5
D7	07 Apr 2021	Wind Dir	W
D7	07 Apr 2021	Animal Life	None
D7	07 Apr 2021	Floatables	None
D7	07 Apr 2021	Water Color	Green
D7	07 Apr 2021	Current Direction	S
D7	07 Apr 2021	Water Temp (C)	17.8
D7	07 Apr 2021	Wave Height Low (ft)	4
D7	07 Apr 2021	High Tide (ft)	4.82
D7	07 Apr 2021	High Tide Time	657
D7	07 Apr 2021	Low Tide (ft)	-0.49
D7	07 Apr 2021	Low Tide Time	1350
D7	07 Apr 2021	Comments	Water clear; Trash-1; 13 Surfers
D7	14 Apr 2021	Arrive Time	1005
D7	14 Apr 2021	Weather	Sunny
D7	14 Apr 2021	Wind Speed (kts)	4.2
D7	14 Apr 2021	Wind Dir	N
D7	14 Apr 2021	Animal Life	2 Pigeons; 1 Wren
D7	14 Apr 2021	Floatables	None
D7	14 Apr 2021	Water Color	Green
D7	14 Apr 2021	Current Direction	N
D7	14 Apr 2021	Water Temp (C)	18.3
D7	14 Apr 2021	Wave Height Low (ft)	4
D7	14 Apr 2021	High Tide (ft)	4.29
D7	14 Apr 2021	High Tide Time	1007
D7	14 Apr 2021	Low Tide (ft)	0.02
D7	14 Apr 2021	Low Tide Time	410
D7	14 Apr 2021	Comments	Water Clear; Seagrass; Kelp; Algae; 21 Surfers
D7	21 Apr 2021	Arrive Time	1007
D7	21 Apr 2021	Weather	Overcast
D7	21 Apr 2021	Wind Speed (kts)	3.6
D7	21 Apr 2021	Wind Dir	W
D7	21 Apr 2021	Animal Life	1 Seagull
D7	21 Apr 2021	Floatables	Foam
D7	21 Apr 2021	Water Color	Green
D7	21 Apr 2021	Current Direction	N
D7	21 Apr 2021	Water Temp (C)	14
D7	21 Apr 2021	Wave Height Low (ft)	4
D7	21 Apr 2021	High Tide (ft)	4.13
D7	21 Apr 2021	High Tide Time	450
D7	21 Apr 2021	Low Tide (ft)	0.05
D7	21 Apr 2021	Low Tide Time	1217
D7	21 Apr 2021	Comments	Kelp; Algae; Seagrass; Water clear; Trash-1; 2 Surfers
D7	28 Apr 2021	Arrive Time	911
D7	28 Apr 2021	Weather	Sunny
D7	28 Apr 2021	Wind Speed (kts)	0.5
D7	28 Apr 2021	Wind Dir	W
D7	28 Apr 2021	Animal Life	None
D7	28 Apr 2021	Floatables	None
D7	28 Apr 2021	Water Color	Green
D7	28 Apr 2021	Current Direction	S
D7	28 Apr 2021	Water Temp (C)	16.6
D7	28 Apr 2021	Wave Height Low (ft)	2
D7	28 Apr 2021	High Tide (ft)	4.16
D7	28 Apr 2021	High Tide Time	1103
D7	28 Apr 2021	Low Tide (ft)	-1.3
D7	28 Apr 2021	Low Tide Time	454
D7	28 Apr 2021	Comments	Kelp; Algae; Seagrass; Water clear; 6 Surfers

Station	Date	Parameter	Value
D8-B	01 Apr 2021	Arrive Time	1030
D8-B	01 Apr 2021	Weather	Sunny
D8-B	01 Apr 2021	Wind Speed (kts)	
D8-B	01 Apr 2021	Wind Dir	
D8-B	01 Apr 2021	Animal Life	50 Flies
D8-B	01 Apr 2021	Floatables	Foam
D8-B	01 Apr 2021	Water Color	Green
D8-B	01 Apr 2021	Current Direction	N
D8-B	01 Apr 2021	Water Temp (C)	17.6
D8-B	01 Apr 2021	Wave Height Low (ft)	4
D8-B	01 Apr 2021	High Tide (ft)	3.38
D8-B	01 Apr 2021	High Tide Time	1301
D8-B	01 Apr 2021	Low Tide (ft)	-0.43
D8-B	01 Apr 2021	Low Tide Time	652
D8-B	01 Apr 2021	Comments	Algae; Water turbid; 10 Surfers
D8-B	07 Apr 2021	Arrive Time	915
D8-B	07 Apr 2021	Weather	Sunny
D8-B	07 Apr 2021	Wind Speed (kts)	1.3
D8-B	07 Apr 2021	Wind Dir	W
D8-B	07 Apr 2021	Animal Life	None
D8-B	07 Apr 2021	Floatables	None
D8-B	07 Apr 2021	Water Color	Green
D8-B	07 Apr 2021	Current Direction	S
D8-B	07 Apr 2021	Water Temp (C)	17.9
D8-B	07 Apr 2021	Wave Height Low (ft)	4
D8-B	07 Apr 2021	High Tide (ft)	4.82
D8-B	07 Apr 2021	High Tide Time	657
D8-B	07 Apr 2021	Low Tide (ft)	-0.49
D8-B	07 Apr 2021	Low Tide Time	1350
D8-B	07 Apr 2021	Comments	Water clear; Algae; Trash-1; Debris
D8-B	14 Apr 2021	Arrive Time	1030
D8-B	14 Apr 2021	Weather	Sunny
D8-B	14 Apr 2021	Wind Speed (kts)	
D8-B	14 Apr 2021	Wind Dir	
D8-B	14 Apr 2021	Animal Life	50 Flies
D8-B	14 Apr 2021	Floatables	Foam
D8-B	14 Apr 2021	Water Color	Green
D8-B	14 Apr 2021	Current Direction	N
D8-B	14 Apr 2021	Water Temp (C)	17.6
D8-B	14 Apr 2021	Wave Height Low (ft)	4
D8-B	14 Apr 2021	High Tide (ft)	4.29
D8-B	14 Apr 2021	High Tide Time	1007
D8-B	14 Apr 2021	Low Tide (ft)	0.02
D8-B	14 Apr 2021	Low Tide Time	410
D8-B	14 Apr 2021	Comments	Algae; Water turbid; 10 Surfers
D8-B	21 Apr 2021	Arrive Time	942
D8-B	21 Apr 2021	Weather	Overcast
D8-B	21 Apr 2021	Wind Speed (kts)	4.8
D8-B	21 Apr 2021	Wind Dir	SW
D8-B	21 Apr 2021	Animal Life	6 Pelicans
D8-B	21 Apr 2021	Floatables	Foam; Film
D8-B	21 Apr 2021	Water Color	Green
D8-B	21 Apr 2021	Current Direction	N
D8-B	21 Apr 2021	Water Temp (C)	13
D8-B	21 Apr 2021	Wave Height Low (ft)	3
D8-B	21 Apr 2021	High Tide (ft)	4.13
D8-B	21 Apr 2021	High Tide Time	450

Station	Date	Parameter	Value
D8-B	21 Apr 2021	Low Tide (ft)	0.05
D8-B	21 Apr 2021	Low Tide Time	1217
D8-B	21 Apr 2021	Comments	Water clear; Algae; Trash-1
D8-B	28 Apr 2021	Arrive Time	927
D8-B	28 Apr 2021	Weather	Sunny
D8-B	28 Apr 2021	Wind Speed (kts)	3.6
D8-B	28 Apr 2021	Wind Dir	W
D8-B	28 Apr 2021	Animal Life	3 Seagulls
D8-B	28 Apr 2021	Floatables	Foam
D8-B	28 Apr 2021	Water Color	Green
D8-B	28 Apr 2021	Current Direction	S
D8-B	28 Apr 2021	Water Temp (C)	16
D8-B	28 Apr 2021	Wave Height Low (ft)	2
D8-B	28 Apr 2021	High Tide (ft)	4.16
D8-B	28 Apr 2021	High Tide Time	1103
D8-B	28 Apr 2021	Low Tide (ft)	-1.3
D8-B	28 Apr 2021	Low Tide Time	454
D8-B	28 Apr 2021	Comments	Kelp; Algae; Water turbid
D9	01 Apr 2021	Arrive Time	1042
D9	01 Apr 2021	Weather	Sunny
D9	01 Apr 2021	Wind Speed (kts)	3.1
D9	01 Apr 2021	Wind Dir	S
D9	01 Apr 2021	Animal Life	20 Seagulls; 50 Flies
D9	01 Apr 2021	Floatables	Foam
D9	01 Apr 2021	Water Color	Green
D9	01 Apr 2021	Current Direction	S
D9	01 Apr 2021	Water Temp (C)	17.6
D9	01 Apr 2021	Wave Height Low (ft)	4
D9	01 Apr 2021	High Tide (ft)	3.38
D9	01 Apr 2021	High Tide Time	1301
D9	01 Apr 2021	Low Tide (ft)	-0.43
D9	01 Apr 2021	Low Tide Time	652
D9	01 Apr 2021	Comments	Algae; Water turbid; 6 Surfers; 3 Persons
D9	07 Apr 2021	Arrive Time	858
D9	07 Apr 2021	Weather	Partly Cloudy
D9	07 Apr 2021	Wind Speed (kts)	1.3
D9	07 Apr 2021	Wind Dir	W
D9	07 Apr 2021	Animal Life	None
D9	07 Apr 2021	Floatables	None
D9	07 Apr 2021	Water Color	Blue
D9	07 Apr 2021	Current Direction	S
D9	07 Apr 2021	Water Temp (C)	17.2
D9	07 Apr 2021	Wave Height Low (ft)	3
D9	07 Apr 2021	High Tide (ft)	4.82
D9	07 Apr 2021	High Tide Time	657
D9	07 Apr 2021	Low Tide (ft)	-0.49
D9	07 Apr 2021	Low Tide Time	1350
D9	07 Apr 2021	Comments	Water clear; Algae; 1 Surfer
D9	14 Apr 2021	Arrive Time	1042
D9	14 Apr 2021	Weather	Sunny
D9	14 Apr 2021	Wind Speed (kts)	3.1
D9	14 Apr 2021	Wind Dir	S
D9	14 Apr 2021	Animal Life	20 Seagulls; 50 Flies
D9	14 Apr 2021	Floatables	Foam
D9	14 Apr 2021	Water Color	Green
D9	14 Apr 2021	Current Direction	S
D9	14 Apr 2021	Water Temp (C)	17.6

Station	Date	Parameter	Value
D9	14 Apr 2021	Wave Height Low (ft)	4
D9	14 Apr 2021	High Tide (ft)	4.29
D9	14 Apr 2021	High Tide Time	1007
D9	14 Apr 2021	Low Tide (ft)	0.02
D9	14 Apr 2021	Low Tide Time	410
D9	14 Apr 2021	Comments	Algae; Water turbid; 6 Surfers; 3 Persons
D9	21 Apr 2021	Arrive Time	930
D9	21 Apr 2021	Weather	Overcast
D9	21 Apr 2021	Wind Speed (kts)	2.9
D9	21 Apr 2021	Wind Dir	NW
D9	21 Apr 2021	Animal Life	None
D9	21 Apr 2021	Floatables	Foam
D9	21 Apr 2021	Water Color	Green
D9	21 Apr 2021	Current Direction	N
D9	21 Apr 2021	Water Temp (C)	13
D9	21 Apr 2021	Wave Height Low (ft)	3
D9	21 Apr 2021	High Tide (ft)	4.13
D9	21 Apr 2021	High Tide Time	450
D9	21 Apr 2021	Low Tide (ft)	0.05
D9	21 Apr 2021	Low Tide Time	1217
D9	21 Apr 2021	Comments	Water clear; Algae; Trash-1
D9	28 Apr 2021	Arrive Time	939
D9	28 Apr 2021	Weather	Sunny
D9	28 Apr 2021	Wind Speed (kts)	6.8
D9	28 Apr 2021	Wind Dir	W
D9	28 Apr 2021	Animal Life	None
D9	28 Apr 2021	Floatables	Foam
D9	28 Apr 2021	Water Color	Green
D9	28 Apr 2021	Current Direction	S
D9	28 Apr 2021	Water Temp (C)	16.9
D9	28 Apr 2021	Wave Height Low (ft)	3
D9	28 Apr 2021	High Tide (ft)	4.16
D9	28 Apr 2021	High Tide Time	1103
D9	28 Apr 2021	Low Tide (ft)	-1.3
D9	28 Apr 2021	Low Tide Time	454
D9	28 Apr 2021	Comments	Water turbid; Kelp; Algae; 2 Surfers
D10	01 Apr 2021	Arrive Time	1055
D10	01 Apr 2021	Weather	Sunny
D10	01 Apr 2021	Wind Speed (kts)	2.9
D10	01 Apr 2021	Wind Dir	SW
D10	01 Apr 2021	Animal Life	None
D10	01 Apr 2021	Floatables	None
D10	01 Apr 2021	Water Color	Green
D10	01 Apr 2021	Current Direction	S
D10	01 Apr 2021	Water Temp (C)	17.5
D10	01 Apr 2021	Wave Height Low (ft)	4
D10	01 Apr 2021	High Tide (ft)	3.38
D10	01 Apr 2021	High Tide Time	1301
D10	01 Apr 2021	Low Tide (ft)	-0.43
D10	01 Apr 2021	Low Tide Time	652
D10	01 Apr 2021	Comments	Seagrass; Water turbid; 35 Persons; 20 Surfers; 3 Swimmers
D10	07 Apr 2021	Arrive Time	843
D10	07 Apr 2021	Weather	Overcast
D10	07 Apr 2021	Wind Speed (kts)	0.7
D10	07 Apr 2021	Wind Dir	W
D10	07 Apr 2021	Animal Life	1 Seagull
D10	07 Apr 2021	Floatables	Foam

Station	Date	Parameter	Value
D10	07 Apr 2021	Water Color	Blue
D10	07 Apr 2021	Current Direction	N
D10	07 Apr 2021	Water Temp (C)	16.9
D10	07 Apr 2021	Wave Height Low (ft)	4
D10	07 Apr 2021	High Tide (ft)	4.82
D10	07 Apr 2021	High Tide Time	657
D10	07 Apr 2021	Low Tide (ft)	-0.49
D10	07 Apr 2021	Low Tide Time	1350
D10	07 Apr 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 4 Persons, 16 Surfers; 2 Fisherman
D10	14 Apr 2021	Arrive Time	1055
D10	14 Apr 2021	Weather	Sunny
D10	14 Apr 2021	Wind Speed (kts)	2.9
D10	14 Apr 2021	Wind Dir	SW
D10	14 Apr 2021	Animal Life	None
D10	14 Apr 2021	Floatables	None
D10	14 Apr 2021	Water Color	Green
D10	14 Apr 2021	Current Direction	S
D10	14 Apr 2021	Water Temp (C)	17.5
D10	14 Apr 2021	Wave Height Low (ft)	4
D10	14 Apr 2021	High Tide (ft)	4.29
D10	14 Apr 2021	High Tide Time	1007
D10	14 Apr 2021	Low Tide (ft)	0.02
D10	14 Apr 2021	Low Tide Time	410
D10	14 Apr 2021	Comments	Seagrass; Water turbid; 35 Persons; 20 Surfers; 3 Swimmers
D10	21 Apr 2021	Arrive Time	853
D10	21 Apr 2021	Weather	Overcast
D10	21 Apr 2021	Wind Speed (kts)	6.9
D10	21 Apr 2021	Wind Dir	SW
D10	21 Apr 2021	Animal Life	1 Dog
D10	21 Apr 2021	Floatables	Foam; Film
D10	21 Apr 2021	Water Color	Green
D10	21 Apr 2021	Current Direction	N
D10	21 Apr 2021	Water Temp (C)	13
D10	21 Apr 2021	Wave Height Low (ft)	4
D10	21 Apr 2021	High Tide (ft)	4.13
D10	21 Apr 2021	High Tide Time	450
D10	21 Apr 2021	Low Tide (ft)	0.05
D10	21 Apr 2021	Low Tide Time	1217
D10	21 Apr 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 2 Joggers; 4 Surfers; 3 People
D10	28 Apr 2021	Arrive Time	950
D10	28 Apr 2021	Weather	Sunny
D10	28 Apr 2021	Wind Speed (kts)	5
D10	28 Apr 2021	Wind Dir	W
D10	28 Apr 2021	Animal Life	1 Seagull
D10	28 Apr 2021	Floatables	None
D10	28 Apr 2021	Water Color	Green
D10	28 Apr 2021	Current Direction	S
D10	28 Apr 2021	Water Temp (C)	16.9
D10	28 Apr 2021	Wave Height Low (ft)	3
D10	28 Apr 2021	High Tide (ft)	4.16
D10	28 Apr 2021	High Tide Time	1103
D10	28 Apr 2021	Low Tide (ft)	-1.3
D10	28 Apr 2021	Low Tide Time	454
D10	28 Apr 2021	Comments	Kelp; Seagrass; Water clear; 4 Persons; 27 Surfers
D11	01 Apr 2021	Arrive Time	1110

Station	Date	Parameter	Value
D11	01 Apr 2021	Weather	Sunny
D11	01 Apr 2021	Wind Speed (kts)	2.7
D11	01 Apr 2021	Wind Dir	SW
D11	01 Apr 2021	Animal Life	None
D11	01 Apr 2021	Floatables	None
D11	01 Apr 2021	Water Color	Green
D11	01 Apr 2021	Current Direction	S
D11	01 Apr 2021	Water Temp (C)	18.3
D11	01 Apr 2021	Wave Height Low (ft)	3
D11	01 Apr 2021	High Tide (ft)	3.38
D11	01 Apr 2021	High Tide Time	1301
D11	01 Apr 2021	Low Tide (ft)	-0.43
D11	01 Apr 2021	Low Tide Time	652
D11	01 Apr 2021	Comments	Seagrass; Algae; Water clear; 55 Persons; 8 Swimmers; 28 Surfers
D11	07 Apr 2021	Arrive Time	826
D11	07 Apr 2021	Weather	Overcast
D11	07 Apr 2021	Wind Speed (kts)	1.7
D11	07 Apr 2021	Wind Dir	W
D11	07 Apr 2021	Animal Life	2 Birds; 2 Seagulls
D11	07 Apr 2021	Floatables	None
D11	07 Apr 2021	Water Color	Blue
D11	07 Apr 2021	Current Direction	S
D11	07 Apr 2021	Water Temp (C)	17.1
D11	07 Apr 2021	Wave Height Low (ft)	3
D11	07 Apr 2021	High Tide (ft)	4.82
D11	07 Apr 2021	High Tide Time	657
D11	07 Apr 2021	Low Tide (ft)	-0.49
D11	07 Apr 2021	Low Tide Time	1350
D11	07 Apr 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 8 Surfers; 3 Persons
D11	14 Apr 2021	Arrive Time	1110
D11	14 Apr 2021	Weather	Sunny
D11	14 Apr 2021	Wind Speed (kts)	2.7
D11	14 Apr 2021	Wind Dir	SW
D11	14 Apr 2021	Animal Life	None
D11	14 Apr 2021	Floatables	None
D11	14 Apr 2021	Water Color	Green
D11	14 Apr 2021	Current Direction	S
D11	14 Apr 2021	Water Temp (C)	18.3
D11	14 Apr 2021	Wave Height Low (ft)	3
D11	14 Apr 2021	High Tide (ft)	4.29
D11	14 Apr 2021	High Tide Time	1007
D11	14 Apr 2021	Low Tide (ft)	0.02
D11	14 Apr 2021	Low Tide Time	410
D11	14 Apr 2021	Comments	Seagrass; Algae; Water clear; 55 Persons; 8 Swimmers; 28 Surfers
D11	21 Apr 2021	Arrive Time	824
D11	21 Apr 2021	Weather	Overcast
D11	21 Apr 2021	Wind Speed (kts)	6
D11	21 Apr 2021	Wind Dir	W
D11	21 Apr 2021	Animal Life	1 Godwit; 1 Seagull
D11	21 Apr 2021	Floatables	Foam; Film
D11	21 Apr 2021	Water Color	Gray
D11	21 Apr 2021	Current Direction	N
D11	21 Apr 2021	Water Temp (C)	12
D11	21 Apr 2021	Wave Height Low (ft)	4
D11	21 Apr 2021	High Tide (ft)	4.13
D11	21 Apr 2021	High Tide Time	450

Station	Date	Parameter	Value
D11	21 Apr 2021	Low Tide (ft)	0.05
D11	21 Apr 2021	Low Tide Time	1217
D11	21 Apr 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; 3 Surfers; 2 People
D11	28 Apr 2021	Arrive Time	1002
D11	28 Apr 2021	Weather	Sunny
D11	28 Apr 2021	Wind Speed (kts)	5.6
D11	28 Apr 2021	Wind Dir	W
D11	28 Apr 2021	Animal Life	2 Seagulls; 4 Dogs
D11	28 Apr 2021	Floatables	Foam
D11	28 Apr 2021	Water Color	Green
D11	28 Apr 2021	Current Direction	S
D11	28 Apr 2021	Water Temp (C)	18.1
D11	28 Apr 2021	Wave Height Low (ft)	3
D11	28 Apr 2021	High Tide (ft)	4.16
D11	28 Apr 2021	High Tide Time	1103
D11	28 Apr 2021	Low Tide (ft)	-1.3
D11	28 Apr 2021	Low Tide Time	454
D11	28 Apr 2021	Comments	Water clear; Kelp; Seagrass; 7 Persons; 22 Surfers
D12	01 Apr 2021	Arrive Time	1145
D12	01 Apr 2021	Weather	Sunny
D12	01 Apr 2021	Wind Speed (kts)	3.8
D12	01 Apr 2021	Wind Dir	W
D12	01 Apr 2021	Animal Life	1 Pigeon
D12	01 Apr 2021	Floatables	None
D12	01 Apr 2021	Water Color	Green
D12	01 Apr 2021	Current Direction	S
D12	01 Apr 2021	Water Temp (C)	21.7
D12	01 Apr 2021	Wave Height Low (ft)	2
D12	01 Apr 2021	High Tide (ft)	3.38
D12	01 Apr 2021	High Tide Time	1301
D12	01 Apr 2021	Low Tide (ft)	-0.43
D12	01 Apr 2021	Low Tide Time	652
D12	01 Apr 2021	Comments	Seagrass; Kelp; Water clear; Trash-1; 20 Swimmers; 50 Persons
D12	07 Apr 2021	Arrive Time	807
D12	07 Apr 2021	Weather	Overcast
D12	07 Apr 2021	Wind Speed (kts)	2.7
D12	07 Apr 2021	Wind Dir	W
D12	07 Apr 2021	Animal Life	None
D12	07 Apr 2021	Floatables	Foam
D12	07 Apr 2021	Water Color	Green
D12	07 Apr 2021	Current Direction	S
D12	07 Apr 2021	Water Temp (C)	16.9
D12	07 Apr 2021	Wave Height Low (ft)	2
D12	07 Apr 2021	High Tide (ft)	4.82
D12	07 Apr 2021	High Tide Time	657
D12	07 Apr 2021	Low Tide (ft)	-0.49
D12	07 Apr 2021	Low Tide Time	1350
D12	07 Apr 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 2 Joggers; 7 Persons; 7 Surfers; 4 Fisherman
D12	14 Apr 2021	Arrive Time	1145
D12	14 Apr 2021	Weather	Sunny
D12	14 Apr 2021	Wind Speed (kts)	3.8
D12	14 Apr 2021	Wind Dir	W
D12	14 Apr 2021	Animal Life	1 Pigeon
D12	14 Apr 2021	Floatables	None
D12	14 Apr 2021	Water Color	Green

Station	Date	Parameter	Value
D12	14 Apr 2021	Current Direction	S
D12	14 Apr 2021	Water Temp (C)	21.7
D12	14 Apr 2021	Wave Height Low (ft)	2
D12	14 Apr 2021	High Tide (ft)	4.29
D12	14 Apr 2021	High Tide Time	1007
D12	14 Apr 2021	Low Tide (ft)	0.02
D12	14 Apr 2021	Low Tide Time	410
D12	14 Apr 2021	Comments	Seagrass; Kelp; Water clear; Trash-1; 20 Swimmers; 50 Persons
D12	21 Apr 2021	Arrive Time	754
D12	21 Apr 2021	Weather	Overcast
D12	21 Apr 2021	Wind Speed (kts)	2.7
D12	21 Apr 2021	Wind Dir	SW
D12	21 Apr 2021	Animal Life	None
D12	21 Apr 2021	Floatables	Foam
D12	21 Apr 2021	Water Color	Gray
D12	21 Apr 2021	Current Direction	N
D12	21 Apr 2021	Water Temp (C)	13
D12	21 Apr 2021	Wave Height Low (ft)	3
D12	21 Apr 2021	High Tide (ft)	4.13
D12	21 Apr 2021	High Tide Time	450
D12	21 Apr 2021	Low Tide (ft)	0.05
D12	21 Apr 2021	Low Tide Time	1217
D12	21 Apr 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; 2 People
D12	28 Apr 2021	Arrive Time	1046
D12	28 Apr 2021	Weather	Sunny
D12	28 Apr 2021	Wind Speed (kts)	5.6
D12	28 Apr 2021	Wind Dir	W
D12	28 Apr 2021	Animal Life	2 Seagulls
D12	28 Apr 2021	Floatables	None
D12	28 Apr 2021	Water Color	Green
D12	28 Apr 2021	Current Direction	S
D12	28 Apr 2021	Water Temp (C)	20.5
D12	28 Apr 2021	Wave Height Low (ft)	3
D12	28 Apr 2021	High Tide (ft)	4.16
D12	28 Apr 2021	High Tide Time	1103
D12	28 Apr 2021	Low Tide (ft)	-1.3
D12	28 Apr 2021	Low Tide Time	454
D12	28 Apr 2021	Comments	Water clear; Kelp; Seagrass; 4 Joggers; 13 Persons; 1 Surfer

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 Apr 2021	9	6	6	8	3	3	36	8
02 Apr 2021	9	6	6	8	3	3	36	8
03 Apr 2021	9	6	6	8	3	3	36	8
04 Apr 2021	9	6	6	8	3	3	36	8
05 Apr 2021	9	6	6	8	3	3	36	8
06 Apr 2021	20	11	12	6	3	4	27	7
07 Apr 2021	34	18	19	3	2	5	10	10
08 Apr 2021	34	18	19	3	2	5	10	10
09 Apr 2021	34	18	19	3	2	5	10	10
10 Apr 2021	34	18	19	3	2	5	10	10
11 Apr 2021	34	18	19	3	2	5	10	10
12 Apr 2021	34	18	19	3	2	5	10	10
13 Apr 2021	20	17	13	3	2	5	7	7
14 Apr 2021	20	17	13	3	2	5	7	7
15 Apr 2021	20	17	13	3	2	5	7	7
16 Apr 2021	20	17	13	3	2	5	7	7
17 Apr 2021	12	14	9	2	2	4	4	6
18 Apr 2021	12	14	9	2	2	4	4	6
19 Apr 2021	12	14	9	2	2	4	4	6
20 Apr 2021	15	18	12	3	2	5	4	5
21 Apr 2021	15	18	12	3	2	5	4	5
22 Apr 2021	15	18	12	3	2	5	4	5
23 Apr 2021	21	30	18	4	2	7	4	4
24 Apr 2021	21	30	18	4	2	7	4	4
25 Apr 2021	21	30	18	4	2	7	4	4
26 Apr 2021	21	30	18	4	2	7	4	4
27 Apr 2021	22	25	17	3	2	5	4	4
28 Apr 2021	22	25	17	3	2	5	4	4
29 Apr 2021	22	25	17	3	2	5	4	4
30 Apr 2021	22	25	17	3	2	5	4	4

* Geometric mean calculated using n<5

Table 3.2

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Apr 2021	3	3	4	5	2	2	14	2
02 Apr 2021	3	3	4	5	2	2	14	2
03 Apr 2021	3	3	4	5	2	2	14	2
04 Apr 2021	3	3	4	5	2	2	14	2
05 Apr 2021	3	3	4	5	2	2	14	2
06 Apr 2021	6	4	6	4	2	2	10	2
07 Apr 2021	7	5	8	2	2	2	2	2
08 Apr 2021	7	5	8	2	2	2	2	2
09 Apr 2021	7	5	8	2	2	2	2	2
10 Apr 2021	7	5	8	2	2	2	2	2
11 Apr 2021	7	5	8	2	2	2	2	2
12 Apr 2021	7	5	8	2	2	2	2	2
13 Apr 2021	6	4	6	2	2	2	2	2
14 Apr 2021	6	4	6	2	2	2	2	2
15 Apr 2021	6	4	6	2	2	2	2	2
16 Apr 2021	6	4	6	2	2	2	2	2
17 Apr 2021	4	4	5	2	2	2	2	2
18 Apr 2021	4	4	5	2	2	2	2	2
19 Apr 2021	4	4	5	2	2	2	2	2
20 Apr 2021	4	5	5	2	2	2	2	2
21 Apr 2021	4	5	5	2	2	2	2	2
22 Apr 2021	4	5	5	2	2	2	2	2
23 Apr 2021	5	6	6	2	2	2	2	2
24 Apr 2021	5	6	6	2	2	2	2	2
25 Apr 2021	5	6	6	2	2	2	2	2
26 Apr 2021	5	6	6	2	2	2	2	2
27 Apr 2021	5	5	5	2	2	2	2	2
28 Apr 2021	5	5	5	2	2	2	2	2
29 Apr 2021	5	5	5	2	2	2	2	2
30 Apr 2021	5	5	5	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 Apr 2021	3	2	2	2	2	2	5	2
02 Apr 2021	3	2	2	2	2	2	5	2
03 Apr 2021	3	2	2	2	2	2	5	2
04 Apr 2021	3	2	2	2	2	2	5	2
05 Apr 2021	3	2	2	2	2	2	5	2
06 Apr 2021	4	3	4	2	2	2	4	2
07 Apr 2021	5	3	4	2	2	2	2	2
08 Apr 2021	5	3	4	2	2	2	2	2
09 Apr 2021	5	3	4	2	2	2	2	2
10 Apr 2021	5	3	4	2	2	2	2	2
11 Apr 2021	5	3	4	2	2	2	2	2
12 Apr 2021	5	3	4	2	2	2	2	2
13 Apr 2021	4	3	4	2	2	2	2	2
14 Apr 2021	4	3	4	2	2	2	2	2
15 Apr 2021	4	3	4	2	2	2	2	2
16 Apr 2021	4	3	4	2	2	2	2	2
17 Apr 2021	3	3	3	2	2	2	2	2
18 Apr 2021	3	3	3	2	2	2	2	2
19 Apr 2021	3	3	3	2	2	2	2	2
20 Apr 2021	3	3	3	2	2	2	2	2
21 Apr 2021	3	3	3	2	2	2	2	2
22 Apr 2021	3	3	3	2	2	2	2	2
23 Apr 2021	3	3	3	2	2	2	2	2
24 Apr 2021	3	3	3	2	2	2	2	2
25 Apr 2021	3	3	3	2	2	2	2	2
26 Apr 2021	3	3	3	2	2	2	2	2
27 Apr 2021	3	3	3	2	2	2	2	2
28 Apr 2021	3	3	3	2	2	2	2	2
29 Apr 2021	3	3	3	2	2	2	2	2
30 Apr 2021	3	3	3	2	2	2	2	2

* Geometric mean calculated using n<5

Table 3.4

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Apr 2021	IC							
06 Apr 2021	IC							
13 Apr 2021	IC	IC	IC	ns	ns	ns	IC	IC
15 Apr 2021	ns	ns	ns	IC	IC	IC	ns	ns
20 Apr 2021	IC							
27 Apr 2021	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 Apr 2021	IC							
06 Apr 2021	IC							
13 Apr 2021	IC	IC	IC	ns	ns	ns	IC	IC
15 Apr 2021	ns	ns	ns	IC	IC	IC	ns	ns
20 Apr 2021	IC							
27 Apr 2021	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 Apr 2021	IC							
06 Apr 2021	IC							
13 Apr 2021	IC	IC	IC	ns	ns	ns	IC	IC
15 Apr 2021	ns	ns	ns	IC	IC	IC	ns	ns
20 Apr 2021	IC							
27 Apr 2021	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 Apr 2021	IC							
06 Apr 2021	IC							
13 Apr 2021	IC	IC	IC	ns	ns	ns	IC	IC
15 Apr 2021	ns	ns	ns	IC	IC	IC	ns	ns
20 Apr 2021	IC							
27 Apr 2021	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 Apr 2021	836	1	<2	<2	<2	1.00	14.8	81.24	8.0	33.63	8.0
A1	01 Apr 2021	836	12	2e	<2	<2	1.00	12.4	84.78	5.7	33.68	7.8
A1	01 Apr 2021	836	18	6e	<2	<2	0.33	12.2	85.39	5.5	33.69	7.8
A1	06 Apr 2021	817	1	<20	4e	<2	0.20	15.2	79.46	7.9	33.63	8.1
A1	06 Apr 2021	817	12	200e	10e	4e	0.05	11.6	84.91	4.6	33.77	7.8
A1	06 Apr 2021	817	18	1400e	120e	28e	0.09	10.6	84.08	3.8	33.84	7.7
A1	13 Apr 2021	825	1	<2	<2	<2	1.00	16.4	74.37	8.4	33.68	8.2
A1	13 Apr 2021	825	12	2e	<2	<2	1.00	13.5	77.62	6.7	33.69	8.0
A1	13 Apr 2021	825	18	4e	<2	<2	0.50	12.8	81.11	6.1	33.71	7.9
A1	20 Apr 2021	800	1	2e	<2	<2	1.00	16.2	76.26	8.4	33.69	8.2
A1	20 Apr 2021	800	12	10e	<2	<2	0.20	11.2	84.94	4.7	33.74	7.8
A1	20 Apr 2021	800	18	120e	4e	4e	0.03	10.6	85.25	4.3	33.80	7.8
A1	27 Apr 2021	828	1	<2	<2	<2	1.00	14.1	80.98	7.2	33.68	8.1
A1	27 Apr 2021	828	12	40	<2	2e	0.05	10.7	87.79	4.3	33.78	7.8
A1	27 Apr 2021	828	18	24e	10e	<2	0.42	10.5	86.69	4.4	33.79	7.8
A6	01 Apr 2021	909	1	<20	<2	<2	0.10	14.8	81.15	7.9	33.63	8.0
A6	01 Apr 2021	909	12	4e	<2	<2	0.50	13.5	83.56	6.6	33.66	7.9
A6	01 Apr 2021	909	18	12e	2e	<2	0.17	13.2	84.43	6.3	33.67	7.8
A6	06 Apr 2021	849	1	<20	<2	<2	0.10	15.6	81.16	8.0	33.62	8.1
A6	06 Apr 2021	849	12	20e	6e	2e	0.30	12.0	84.51	5.1	33.77	7.9
A6	06 Apr 2021	849	18	300e	86	16e	0.29	10.7	84.73	4.0	33.82	7.7
A6	13 Apr 2021	900	1	<2	<2	<2	1.00	17.0	74.36	8.7	33.67	8.2
A6	13 Apr 2021	900	12	<20	<2	<2	0.10	15.0	71.60	8.0	33.67	8.1
A6	13 Apr 2021	900	18	<20	<2	2e	0.10	13.4	80.72	6.2	33.71	8.0
A6	20 Apr 2021	836	1	<2	<2	<2	1.00	16.8	76.66	8.8	33.69	8.2
A6	20 Apr 2021	836	12	14e	<2	<2	0.14	11.9	85.31	4.7	33.71	7.9
A6	20 Apr 2021	836	18	120e	22e	2e	0.18	10.5	83.85	4.0	33.83	7.8
A6	27 Apr 2021	900	1	<2	<2	<2	1.00	15.2	79.85	7.6	33.69	8.2
A6	27 Apr 2021	900	12	14e	<2	2e	0.14	10.8	86.21	4.6	33.74	7.9
A6	27 Apr 2021	900	18	20e	4e	<2	0.20	10.5	86.96	4.4	33.78	7.8
A7	01 Apr 2021	848	1	<2	<2	<2	1.00	14.9	80.09	8.3	33.62	8.0
A7	01 Apr 2021	848	12	<2	<2	<2	1.00	13.7	82.22	7.1	33.65	7.9
A7	01 Apr 2021	848	18	6e	<2	<2	0.33	12.7	85.30	6.0	33.70	7.8
A7	06 Apr 2021	835	1	<2	<2	8e	1.00	15.6	81.05	8.1	33.62	8.1
A7	06 Apr 2021	835	12	100e	30e	14e	0.30	11.5	85.20	4.8	33.77	7.8
A7	06 Apr 2021	835	18	700	100e	30e	0.14	10.4	84.71	3.7	33.85	7.7
A7	13 Apr 2021	837	1	<2	<2	<2	1.00	16.9	75.62	8.5	33.67	8.2
A7	13 Apr 2021	837	12	2e	2e	<2	1.00	14.9	76.21	7.5	33.69	8.1
A7	13 Apr 2021	837	18	4e	2e	<2	0.50	13.2	83.56	6.0	33.68	7.9

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
A7	20 Apr 2021	817	1	<2	<2	<2	1.00	16.7	75.28	8.9	33.69	8.2
A7	20 Apr 2021	817	12	60e	6e	2e	0.10	11.0	85.61	4.2	33.79	7.8
A7	20 Apr 2021	817	18	80e	12e	2e	0.15	10.6	84.91	4.0	33.81	7.8
A7	27 Apr 2021	848	1	<2	<2	<2	1.00	14.9	79.14	7.9	33.70	8.2
A7	27 Apr 2021	848	12	20e	4e	2e	0.20	10.8	86.52	4.5	33.77	7.8
A7	27 Apr 2021	848	18	<20	2e	2e	0.10	10.5	86.52	4.3	33.79	7.8
C4	01 Apr 2021	1013	1	<2	<2	<2	1.00	14.8	82.82	7.9	33.63	8.0
C4	01 Apr 2021	1013	3	<2	<2	<2	1.00	14.7	82.43	7.9	33.64	8.0
C4	01 Apr 2021	1013	9	<2	<2	<2	1.00	13.6	83.81	6.6	33.73	7.9
C4	06 Apr 2021	957	1	6e	<2	<2	0.33	15.4	71.99	7.9	33.64	8.1
C4	06 Apr 2021	957	3	2e	4e	<2	2.00	15.3	73.49	7.9	33.64	8.1
C4	06 Apr 2021	957	9	2e	<2	<2	1.00	12.8	81.21	5.5	33.73	7.9
C4	15 Apr 2021	841	1	<2	<2	<2	1.00	16.4	75.60	8.2	33.71	8.2
C4	15 Apr 2021	841	3	<2	<2	<2	1.00	16.1	75.20	8.4	33.72	8.2
C4	15 Apr 2021	841	9	<2	<2	<2	1.00	13.3	80.85	4.2	33.68	7.8
C4	20 Apr 2021	945	1	<20	<2	<2	0.10	16.9	71.16	8.2	33.67	8.2
C4	20 Apr 2021	945	3	<20	<2	<2	0.10	16.2	73.04	7.7	33.74	8.2
C4	20 Apr 2021	945	9	<2	<2	<2	1.00	12.1	69.49	4.8	33.68	7.8
C4	27 Apr 2021	1016	1	<2	2e	2e	1.00	15.5	75.93	7.6	33.72	8.2
C4	27 Apr 2021	1016	3	<2	<2	<2	1.00	14.6	79.56	7.5	33.72	8.1
C4	27 Apr 2021	1016	9	<2	<2	<2	1.00	11.1	82.47	4.5	33.72	7.9
C5	01 Apr 2021	1003	1	<2	<2	<2	1.00	15.0	81.56	8.0	33.63	8.0
C5	01 Apr 2021	1003	3	<2	<2	<2	1.00	14.9	81.54	8.0	33.64	8.0
C5	01 Apr 2021	1003	9	<2	<2	<2	1.00	13.1	84.34	6.3	33.71	7.9
C5	06 Apr 2021	947	1	<2	<2	4e	1.00	15.6	78.72	8.0	33.63	8.1
C5	06 Apr 2021	947	3	<2	<2	<2	1.00	15.5	77.88	7.9	33.63	8.1
C5	06 Apr 2021	947	9	<2	2e	<2	1.00	13.2	80.54	6.2	33.69	8.0
C5	15 Apr 2021	830	1	<2	<2	<2	1.00	16.0	72.21	8.9	33.69	8.2
C5	15 Apr 2021	830	3	2e	<2	<2	1.00	15.7	70.26	8.4	33.71	8.2
C5	15 Apr 2021	830	9	4e	<2	<2	0.50	13.2	80.78	5.6	33.70	8.0
C5	20 Apr 2021	933	1	<2	<2	<2	1.00	16.8	72.75	8.6	33.69	8.2
C5	20 Apr 2021	933	3	<2	<2	<2	1.00	16.7	75.57	8.5	33.69	8.2
C5	20 Apr 2021	933	9	<2	<2	<2	1.00	12.6	70.63	5.2	33.72	7.9
C5	27 Apr 2021	953	1	<2	<2	<2	1.00	15.1	78.91	8.0	33.70	8.2
C5	27 Apr 2021	953	3	<2	<2	<2	1.00	14.9	78.44	7.8	33.71	8.2
C5	27 Apr 2021	953	9	<2	<2	<2	1.00	11.9	82.68	5.4	33.73	8.0
C6	01 Apr 2021	953	1	<2	<2	<2	1.00	15.4	81.05	7.9	33.63	8.1
C6	01 Apr 2021	953	3	<2	<2	<2	1.00	15.0	80.99	8.0	33.64	8.0
C6	01 Apr 2021	953	9	<2	<2	<2	1.00	13.1	84.70	6.6	33.64	7.9
C6	06 Apr 2021	936	1	<2	<2	<2	1.00	15.6	75.69	7.6	33.63	8.1
C6	06 Apr 2021	936	3	<2	<2	<2	1.00	15.6	76.61	7.7	33.63	8.1
C6	06 Apr 2021	936	9	<20	<2	<2	0.10	12.8	78.02	5.4	33.71	7.9
C6	15 Apr 2021	820	1	<20	<2	<2	0.10	16.4	76.51	8.3	33.70	8.2
C6	15 Apr 2021	820	3	2e	<2	<2	1.00	16.1	75.88	8.0	33.73	8.2
C6	15 Apr 2021	820	9	<2	<2	<2	1.00	12.5	82.18	5.3	33.67	7.9
C6	20 Apr 2021	922	1	<20	<2	<2	0.10	17.0	73.12	7.4	33.69	8.2

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
C6	20 Apr 2021	922	3	<20	<2	<2	0.10	16.8	73.76	7.3	33.71	8.2
C6	20 Apr 2021	922	9	<2	<2	2e	1.00	12.7	73.93	4.9	33.63	7.9
C6	27 Apr 2021	945	1	<2	<2	<2	1.00	15.4	75.22	8.2	33.71	8.2
C6	27 Apr 2021	945	3	<2	<2	<2	1.00	15.2	75.44	8.2	33.70	8.2
C6	27 Apr 2021	945	9	<2	<2	<2	1.00	12.1	82.08	5.6	33.70	7.9
C7	01 Apr 2021	922	1	<2	<2	<2	1.00	15.1	82.92	8.6	33.60	8.0
C7	01 Apr 2021	922	12	2e	<2	<2	1.00	14.3	80.59	7.9	33.63	8.0
C7	01 Apr 2021	922	18	2e	<2	<2	1.00	11.7	85.42	5.1	33.75	7.8
C7	06 Apr 2021	902	1	<2	<2	<2	1.00	15.8	79.67	8.3	33.62	8.1
C7	06 Apr 2021	902	12	4e	<2	2e	0.50	12.7	82.85	6.1	33.67	8.0
C7	06 Apr 2021	902	18	20e	2e	<2	0.10	11.8	85.29	5.2	33.69	7.8
C7	13 Apr 2021	918	1	<2	<2	<2	1.00	17.3	73.35	8.4	33.65	8.2
C7	13 Apr 2021	918	12	<2	<2	<2	1.00	13.7	75.19	6.8	33.66	8.0
C7	13 Apr 2021	918	18	<2	2e	<2	1.00	12.2	85.19	5.2	33.68	7.9
C7	20 Apr 2021	848	1	<2	<2	<2	1.00	16.8	73.94	8.9	33.69	8.2
C7	20 Apr 2021	848	12	<2	<2	<2	1.00	11.9	82.79	5.2	33.65	7.9
C7	20 Apr 2021	848	18	10e	<2	<2	0.20	11.1	84.80	4.5	33.72	7.8
C7	27 Apr 2021	916	1	<2	<2	<2	1.00	15.4	78.80	8.1	33.68	8.2
C7	27 Apr 2021	916	12	4e	<2	<2	0.50	11.6	82.31	5.3	33.69	7.9
C7	27 Apr 2021	916	18	18e	4e	<2	0.22	10.9	86.19	4.6	33.74	7.8
C8	01 Apr 2021	935	1	<2	<2	<2	1.00	15.3	83.42	8.5	33.59	8.0
C8	01 Apr 2021	935	12	<2	<2	2e	1.00	13.9	78.32	7.4	33.64	8.0
C8	01 Apr 2021	935	18	<20	2e	<2	0.10	11.9	84.27	5.4	33.70	7.8
C8	06 Apr 2021	917	1	<2	<2	<2	1.00	15.5	75.97	8.4	33.62	8.1
C8	06 Apr 2021	917	12	8e	<2	<2	0.25	12.1	84.36	5.5	33.70	7.9
C8	06 Apr 2021	917	18	8e	<2	<2	0.25	11.8	84.87	5.2	33.69	7.8
C8	13 Apr 2021	931	1	<2	<2	<2	1.00	17.4	75.95	8.7	33.67	8.2
C8	13 Apr 2021	931	12	2e	<2	<2	1.00	13.4	75.65	6.8	33.68	8.0
C8	13 Apr 2021	931	18	<2	<2	<2	1.00	12.2	84.07	5.6	33.67	7.9
C8	20 Apr 2021	901	1	<2	<2	2e	1.00	16.9	72.30	8.7	33.68	8.2
C8	20 Apr 2021	901	12	<2	<2	<2	1.00	11.9	84.15	5.2	33.66	7.9
C8	20 Apr 2021	901	18	<2	<2	<2	1.00	11.4	83.97	4.9	33.68	7.8
C8	27 Apr 2021	926	1	<2	<2	<2	1.00	15.3	77.75	8.1	33.66	8.2
C8	27 Apr 2021	926	12	4e	<2	2e	0.50	11.6	81.67	5.2	33.69	7.9
C8	27 Apr 2021	926	18	18e	4e	<2	0.22	11.0	85.68	4.6	33.73	7.8

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
C6	13 Apr 2021			Lost CTD; C4, C5, C6, and all SBOO stations were sampled on 4/15/21

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 Apr 2021	Depth (m)	18.3
A1	01 Apr 2021	Arrive Time	836
A1	01 Apr 2021	Depart Time	840
A1	01 Apr 2021	Air Temp (C)	19.2
A1	01 Apr 2021	Weather	Partly Cloudy
A1	01 Apr 2021	Visibility (mi)	12
A1	01 Apr 2021	Wind Speed (kts)	3.6
A1	01 Apr 2021	Wind Dir	NW
A1	01 Apr 2021	Water Color	Blue green
A1	01 Apr 2021	Wave Ht Low (ft)	3
A1	01 Apr 2021	Wave Period (sec)	17
A1	01 Apr 2021	Sea State	Calm
A1	01 Apr 2021	High Tide (ft)	5.51208
A1	01 Apr 2021	High Tide Time	6
A1	01 Apr 2021	Low Tide (ft)	-0.49215
A1	01 Apr 2021	Low Tide Time	648
A1	01 Apr 2021	Comments	Kelp
A1	06 Apr 2021	Depth (m)	17.6
A1	06 Apr 2021	Arrive Time	817
A1	06 Apr 2021	Depart Time	826
A1	06 Apr 2021	Air Temp (C)	14.3
A1	06 Apr 2021	Weather	Partly Cloudy
A1	06 Apr 2021	Visibility (mi)	10
A1	06 Apr 2021	Wind Speed (kts)	0
A1	06 Apr 2021	Wind Dir	NE
A1	06 Apr 2021	Water Color	Greenish-Blue
A1	06 Apr 2021	Wave Ht Low (ft)	3
A1	06 Apr 2021	Wave Period (sec)	8
A1	06 Apr 2021	Sea State	Light Chop
A1	06 Apr 2021	High Tide (ft)	4.5934
A1	06 Apr 2021	High Tide Time	548
A1	06 Apr 2021	Low Tide (ft)	-0.55777
A1	06 Apr 2021	Low Tide Time	1300
A1	06 Apr 2021	Comments	Kelp
A1	13 Apr 2021	Depth (m)	17.4
A1	13 Apr 2021	Arrive Time	825
A1	13 Apr 2021	Depart Time	827
A1	13 Apr 2021	Air Temp (C)	13.8
A1	13 Apr 2021	Weather	Overcast
A1	13 Apr 2021	Visibility (mi)	11
A1	13 Apr 2021	Wind Speed (kts)	9.4
A1	13 Apr 2021	Wind Dir	SW
A1	13 Apr 2021	Water Color	Green
A1	13 Apr 2021	Wave Ht Low (ft)	4
A1	13 Apr 2021	Wave Period (sec)	10
A1	13 Apr 2021	Sea State	Confused Swell
A1	13 Apr 2021	High Tide (ft)	5.05274
A1	13 Apr 2021	High Tide Time	2212
A1	13 Apr 2021	Low Tide (ft)	-0.09843
A1	13 Apr 2021	Low Tide Time	424
A1	13 Apr 2021	Comments	none
A1	20 Apr 2021	Depth (m)	17.4
A1	20 Apr 2021	Arrive Time	800

Station	Date	Parameter	Value
A1	20 Apr 2021	Depart Time	813
A1	20 Apr 2021	Air Temp (C)	14.1
A1	20 Apr 2021	Weather	Overcast
A1	20 Apr 2021	Visibility (mi)	4
A1	20 Apr 2021	Wind Speed (kts)	6.9
A1	20 Apr 2021	Wind Dir	S
A1	20 Apr 2021	Water Color	Green
A1	20 Apr 2021	Wave Ht Low (ft)	5
A1	20 Apr 2021	Wave Period (sec)	8
A1	20 Apr 2021	Sea State	Confused Swell
A1	20 Apr 2021	High Tide (ft)	3.90439
A1	20 Apr 2021	High Tide Time	254
A1	20 Apr 2021	Low Tide (ft)	0.26248
A1	20 Apr 2021	Low Tide Time	1112
A1	20 Apr 2021	Comments	Kelp
A1	27 Apr 2021	Depth (m)	18.7
A1	27 Apr 2021	Arrive Time	828
A1	27 Apr 2021	Depart Time	833
A1	27 Apr 2021	Air Temp (C)	14
A1	27 Apr 2021	Weather	Partly Cloudy
A1	27 Apr 2021	Visibility (mi)	18
A1	27 Apr 2021	Wind Speed (kts)	0
A1	27 Apr 2021	Wind Dir	N
A1	27 Apr 2021	Water Color	Green
A1	27 Apr 2021	Wave Ht Low (ft)	5
A1	27 Apr 2021	Wave Period (sec)	7
A1	27 Apr 2021	Sea State	Confused Swell
A1	27 Apr 2021	High Tide (ft)	6.2339
A1	27 Apr 2021	High Tide Time	2148
A1	27 Apr 2021	Low Tide (ft)	-1.14835
A1	27 Apr 2021	Low Tide Time	406
A1	27 Apr 2021	Comments	none
A6	01 Apr 2021	Depth (m)	15.2
A6	01 Apr 2021	Arrive Time	909
A6	01 Apr 2021	Depart Time	912
A6	01 Apr 2021	Air Temp (C)	17.5
A6	01 Apr 2021	Weather	Partly Cloudy
A6	01 Apr 2021	Visibility (mi)	12
A6	01 Apr 2021	Wind Speed (kts)	4
A6	01 Apr 2021	Wind Dir	NW
A6	01 Apr 2021	Water Color	Green
A6	01 Apr 2021	Wave Ht Low (ft)	3
A6	01 Apr 2021	Wave Period (sec)	17
A6	01 Apr 2021	Sea State	Calm
A6	01 Apr 2021	High Tide (ft)	5.51208
A6	01 Apr 2021	High Tide Time	6
A6	01 Apr 2021	Low Tide (ft)	-0.49215
A6	01 Apr 2021	Low Tide Time	648
A6	01 Apr 2021	Comments	Kelp Debris; Kelp
A6	06 Apr 2021	Depth (m)	18.1
A6	06 Apr 2021	Arrive Time	849
A6	06 Apr 2021	Depart Time	854
A6	06 Apr 2021	Air Temp (C)	14.8
A6	06 Apr 2021	Weather	Partly Cloudy
A6	06 Apr 2021	Visibility (mi)	10
A6	06 Apr 2021	Wind Speed (kts)	0.6
A6	06 Apr 2021	Wind Dir	E
A6	06 Apr 2021	Water Color	Greenish-Blue

Station	Date	Parameter	Value
A6	06 Apr 2021	Wave Ht Low (ft)	3
A6	06 Apr 2021	Wave Period (sec)	8
A6	06 Apr 2021	Sea State	Light Chop
A6	06 Apr 2021	High Tide (ft)	4.5934
A6	06 Apr 2021	High Tide Time	548
A6	06 Apr 2021	Low Tide (ft)	-0.55777
A6	06 Apr 2021	Low Tide Time	1300
A6	06 Apr 2021	Comments	Kelp
A6	13 Apr 2021	Depth (m)	17.5
A6	13 Apr 2021	Arrive Time	900
A6	13 Apr 2021	Depart Time	908
A6	13 Apr 2021	Air Temp (C)	13.7
A6	13 Apr 2021	Weather	Overcast
A6	13 Apr 2021	Visibility (mi)	11
A6	13 Apr 2021	Wind Speed (kts)	8.6
A6	13 Apr 2021	Wind Dir	S
A6	13 Apr 2021	Water Color	Green
A6	13 Apr 2021	Wave Ht Low (ft)	4
A6	13 Apr 2021	Wave Period (sec)	10
A6	13 Apr 2021	Sea State	Confused Swell
A6	13 Apr 2021	High Tide (ft)	5.05274
A6	13 Apr 2021	High Tide Time	2212
A6	13 Apr 2021	Low Tide (ft)	-0.09843
A6	13 Apr 2021	Low Tide Time	424
A6	13 Apr 2021	Comments	3rd cast: had trouble getting depth
A6	20 Apr 2021	Depth (m)	17.2
A6	20 Apr 2021	Arrive Time	836
A6	20 Apr 2021	Depart Time	838
A6	20 Apr 2021	Air Temp (C)	14.2
A6	20 Apr 2021	Weather	Overcast
A6	20 Apr 2021	Visibility (mi)	4
A6	20 Apr 2021	Wind Speed (kts)	5.5
A6	20 Apr 2021	Wind Dir	SE
A6	20 Apr 2021	Water Color	Green
A6	20 Apr 2021	Wave Ht Low (ft)	5
A6	20 Apr 2021	Wave Period (sec)	8
A6	20 Apr 2021	Sea State	Confused Swell
A6	20 Apr 2021	High Tide (ft)	3.90439
A6	20 Apr 2021	High Tide Time	254
A6	20 Apr 2021	Low Tide (ft)	0.26248
A6	20 Apr 2021	Low Tide Time	1112
A6	20 Apr 2021	Comments	Kelp
A6	27 Apr 2021	Depth (m)	18.8
A6	27 Apr 2021	Arrive Time	900
A6	27 Apr 2021	Depart Time	908
A6	27 Apr 2021	Air Temp (C)	14.6
A6	27 Apr 2021	Weather	Partly Cloudy
A6	27 Apr 2021	Visibility (mi)	18
A6	27 Apr 2021	Wind Speed (kts)	1.4
A6	27 Apr 2021	Wind Dir	NE
A6	27 Apr 2021	Water Color	Green
A6	27 Apr 2021	Wave Ht Low (ft)	5
A6	27 Apr 2021	Wave Period (sec)	7
A6	27 Apr 2021	Sea State	Confused Swell
A6	27 Apr 2021	High Tide (ft)	6.2339
A6	27 Apr 2021	High Tide Time	2148
A6	27 Apr 2021	Low Tide (ft)	-1.14835
A6	27 Apr 2021	Low Tide Time	406

Station	Date	Parameter	Value
A6	27 Apr 2021	Comments	Cast 2x; Temperature and salinity spike @ 6m consistent both casts; Kelp; Kelp Debris
A7	01 Apr 2021	Depth (m)	17.8
A7	01 Apr 2021	Arrive Time	848
A7	01 Apr 2021	Depart Time	851
A7	01 Apr 2021	Air Temp (C)	17.6
A7	01 Apr 2021	Weather	Partly Cloudy
A7	01 Apr 2021	Visibility (mi)	12
A7	01 Apr 2021	Wind Speed (kts)	2.7
A7	01 Apr 2021	Wind Dir	NW
A7	01 Apr 2021	Water Color	Green
A7	01 Apr 2021	Wave Ht Low (ft)	3
A7	01 Apr 2021	Wave Period (sec)	17
A7	01 Apr 2021	Sea State	Calm
A7	01 Apr 2021	High Tide (ft)	5.51208
A7	01 Apr 2021	High Tide Time	6
A7	01 Apr 2021	Low Tide (ft)	-0.49215
A7	01 Apr 2021	Low Tide Time	648
A7	01 Apr 2021	Comments	Kelp
A7	06 Apr 2021	Depth (m)	18.8
A7	06 Apr 2021	Arrive Time	835
A7	06 Apr 2021	Depart Time	839
A7	06 Apr 2021	Air Temp (C)	14.5
A7	06 Apr 2021	Weather	Partly Cloudy
A7	06 Apr 2021	Visibility (mi)	10
A7	06 Apr 2021	Wind Speed (kts)	0
A7	06 Apr 2021	Wind Dir	NE
A7	06 Apr 2021	Water Color	Greenish-Blue
A7	06 Apr 2021	Wave Ht Low (ft)	3
A7	06 Apr 2021	Wave Period (sec)	8
A7	06 Apr 2021	Sea State	Light Chop
A7	06 Apr 2021	High Tide (ft)	4.5934
A7	06 Apr 2021	High Tide Time	548
A7	06 Apr 2021	Low Tide (ft)	-0.55777
A7	06 Apr 2021	Low Tide Time	1300
A7	06 Apr 2021	Comments	Kelp
A7	13 Apr 2021	Depth (m)	19.1
A7	13 Apr 2021	Arrive Time	837
A7	13 Apr 2021	Depart Time	842
A7	13 Apr 2021	Air Temp (C)	13.7
A7	13 Apr 2021	Weather	Overcast
A7	13 Apr 2021	Visibility (mi)	11
A7	13 Apr 2021	Wind Speed (kts)	7.9
A7	13 Apr 2021	Wind Dir	S
A7	13 Apr 2021	Water Color	Green
A7	13 Apr 2021	Wave Ht Low (ft)	4
A7	13 Apr 2021	Wave Period (sec)	10
A7	13 Apr 2021	Sea State	Confused Swell
A7	13 Apr 2021	High Tide (ft)	5.05274
A7	13 Apr 2021	High Tide Time	2212
A7	13 Apr 2021	Low Tide (ft)	-0.09843
A7	13 Apr 2021	Low Tide Time	424
A7	13 Apr 2021	Comments	none
A7	20 Apr 2021	Depth (m)	19.2
A7	20 Apr 2021	Arrive Time	817
A7	20 Apr 2021	Depart Time	823
A7	20 Apr 2021	Air Temp (C)	14.3

Station	Date	Parameter	Value
A7	20 Apr 2021	Weather	Overcast
A7	20 Apr 2021	Visibility (mi)	4
A7	20 Apr 2021	Wind Speed (kts)	12.8
A7	20 Apr 2021	Wind Dir	SW
A7	20 Apr 2021	Water Color	Green
A7	20 Apr 2021	Wave Ht Low (ft)	5
A7	20 Apr 2021	Wave Period (sec)	8
A7	20 Apr 2021	Sea State	Confused Swell
A7	20 Apr 2021	High Tide (ft)	3.90439
A7	20 Apr 2021	High Tide Time	254
A7	20 Apr 2021	Low Tide (ft)	0.26248
A7	20 Apr 2021	Low Tide Time	1112
A7	20 Apr 2021	Comments	Kelp
A7	27 Apr 2021	Depth (m)	19
A7	27 Apr 2021	Arrive Time	848
A7	27 Apr 2021	Depart Time	851
A7	27 Apr 2021	Air Temp (C)	14.1
A7	27 Apr 2021	Weather	Partly Cloudy
A7	27 Apr 2021	Visibility (mi)	18
A7	27 Apr 2021	Wind Speed (kts)	1.6
A7	27 Apr 2021	Wind Dir	N
A7	27 Apr 2021	Water Color	Green
A7	27 Apr 2021	Wave Ht Low (ft)	5
A7	27 Apr 2021	Wave Period (sec)	7
A7	27 Apr 2021	Sea State	Confused Swell
A7	27 Apr 2021	High Tide (ft)	6.2339
A7	27 Apr 2021	High Tide Time	2148
A7	27 Apr 2021	Low Tide (ft)	-1.14835
A7	27 Apr 2021	Low Tide Time	406
A7	27 Apr 2021	Comments	Kelp
C4	01 Apr 2021	Depth (m)	10.8
C4	01 Apr 2021	Arrive Time	1013
C4	01 Apr 2021	Depart Time	1016
C4	01 Apr 2021	Air Temp (C)	18.7
C4	01 Apr 2021	Weather	Partly Cloudy
C4	01 Apr 2021	Visibility (mi)	12
C4	01 Apr 2021	Wind Speed (kts)	4.1
C4	01 Apr 2021	Wind Dir	W
C4	01 Apr 2021	Water Color	Green
C4	01 Apr 2021	Wave Ht Low (ft)	3
C4	01 Apr 2021	Wave Period (sec)	17
C4	01 Apr 2021	Sea State	Calm
C4	01 Apr 2021	High Tide (ft)	5.51208
C4	01 Apr 2021	High Tide Time	6
C4	01 Apr 2021	Low Tide (ft)	-0.49215
C4	01 Apr 2021	Low Tide Time	648
C4	01 Apr 2021	Comments	Boats on station; Kelp
C4	06 Apr 2021	Depth (m)	11
C4	06 Apr 2021	Arrive Time	957
C4	06 Apr 2021	Depart Time	1000
C4	06 Apr 2021	Air Temp (C)	14.8
C4	06 Apr 2021	Weather	Partly Cloudy
C4	06 Apr 2021	Visibility (mi)	10
C4	06 Apr 2021	Wind Speed (kts)	0
C4	06 Apr 2021	Wind Dir	NE
C4	06 Apr 2021	Water Color	Greenish-Brown
C4	06 Apr 2021	Wave Ht Low (ft)	3
C4	06 Apr 2021	Wave Period (sec)	8

Station	Date	Parameter	Value
C4	06 Apr 2021	Sea State	Light Chop
C4	06 Apr 2021	High Tide (ft)	4.5934
C4	06 Apr 2021	High Tide Time	548
C4	06 Apr 2021	Low Tide (ft)	-0.55777
C4	06 Apr 2021	Low Tide Time	1300
C4	06 Apr 2021	Comments	Kelp Debris
C4	15 Apr 2021	Depth (m)	11
C4	15 Apr 2021	Arrive Time	841
C4	15 Apr 2021	Depart Time	846
C4	15 Apr 2021	Air Temp (C)	13
C4	15 Apr 2021	Weather	Partly Cloudy
C4	15 Apr 2021	Visibility (mi)	12
C4	15 Apr 2021	Wind Speed (kts)	8
C4	15 Apr 2021	Wind Dir	SE
C4	15 Apr 2021	Water Color	Green
C4	15 Apr 2021	Wave Ht Low (ft)	4
C4	15 Apr 2021	Wave Period (sec)	16
C4	15 Apr 2021	Sea State	Calm
C4	15 Apr 2021	High Tide (ft)	3.2
C4	15 Apr 2021	High Tide Time	1201
C4	15 Apr 2021	Low Tide (ft)	0.1
C4	15 Apr 2021	Low Tide Time	552
C4	15 Apr 2021	Comments	Boats; Kelp debris
C4	20 Apr 2021	Depth (m)	9.5
C4	20 Apr 2021	Arrive Time	945
C4	20 Apr 2021	Depart Time	949
C4	20 Apr 2021	Air Temp (C)	13.7
C4	20 Apr 2021	Weather	Overcast
C4	20 Apr 2021	Visibility (mi)	4
C4	20 Apr 2021	Wind Speed (kts)	6.1
C4	20 Apr 2021	Wind Dir	SE
C4	20 Apr 2021	Water Color	Green
C4	20 Apr 2021	Wave Ht Low (ft)	5
C4	20 Apr 2021	Wave Period (sec)	8
C4	20 Apr 2021	Sea State	Confused Swell
C4	20 Apr 2021	High Tide (ft)	3.90439
C4	20 Apr 2021	High Tide Time	254
C4	20 Apr 2021	Low Tide (ft)	0.26248
C4	20 Apr 2021	Low Tide Time	1112
C4	20 Apr 2021	Comments	Kelp
C4	27 Apr 2021	Depth (m)	10.9
C4	27 Apr 2021	Arrive Time	1016
C4	27 Apr 2021	Depart Time	1020
C4	27 Apr 2021	Air Temp (C)	14.5
C4	27 Apr 2021	Weather	Partly Cloudy
C4	27 Apr 2021	Visibility (mi)	18
C4	27 Apr 2021	Wind Speed (kts)	17.8
C4	27 Apr 2021	Wind Dir	W
C4	27 Apr 2021	Water Color	Green
C4	27 Apr 2021	Wave Ht Low (ft)	5
C4	27 Apr 2021	Wave Period (sec)	7
C4	27 Apr 2021	Sea State	Confused Swell
C4	27 Apr 2021	High Tide (ft)	6.2339
C4	27 Apr 2021	High Tide Time	2148
C4	27 Apr 2021	Low Tide (ft)	-1.14835
C4	27 Apr 2021	Low Tide Time	406
C4	27 Apr 2021	Comments	Recast due to strong salinity spike.; Kelp; Kelp Debris

Station	Date	Parameter	Value
C5	01 Apr 2021	Depth (m)	10.8
C5	01 Apr 2021	Arrive Time	1003
C5	01 Apr 2021	Depart Time	1006
C5	01 Apr 2021	Air Temp (C)	18.8
C5	01 Apr 2021	Weather	Partly Cloudy
C5	01 Apr 2021	Visibility (mi)	12
C5	01 Apr 2021	Wind Speed (kts)	3
C5	01 Apr 2021	Wind Dir	W
C5	01 Apr 2021	Water Color	Green
C5	01 Apr 2021	Wave Ht Low (ft)	3
C5	01 Apr 2021	Wave Period (sec)	17
C5	01 Apr 2021	Sea State	Calm
C5	01 Apr 2021	High Tide (ft)	5.51208
C5	01 Apr 2021	High Tide Time	6
C5	01 Apr 2021	Low Tide (ft)	-0.49215
C5	01 Apr 2021	Low Tide Time	648
C5	01 Apr 2021	Comments	Kelp; Kelp Debris
C5	06 Apr 2021	Depth (m)	10.9
C5	06 Apr 2021	Arrive Time	947
C5	06 Apr 2021	Depart Time	950
C5	06 Apr 2021	Air Temp (C)	14.8
C5	06 Apr 2021	Weather	Partly Cloudy
C5	06 Apr 2021	Visibility (mi)	10
C5	06 Apr 2021	Wind Speed (kts)	1.2
C5	06 Apr 2021	Wind Dir	SE
C5	06 Apr 2021	Water Color	Green
C5	06 Apr 2021	Wave Ht Low (ft)	3
C5	06 Apr 2021	Wave Period (sec)	8
C5	06 Apr 2021	Sea State	Light Chop
C5	06 Apr 2021	High Tide (ft)	4.5934
C5	06 Apr 2021	High Tide Time	548
C5	06 Apr 2021	Low Tide (ft)	-0.55777
C5	06 Apr 2021	Low Tide Time	1300
C5	06 Apr 2021	Comments	none
C5	15 Apr 2021	Depth (m)	11
C5	15 Apr 2021	Arrive Time	830
C5	15 Apr 2021	Depart Time	834
C5	15 Apr 2021	Air Temp (C)	13
C5	15 Apr 2021	Weather	Partly Cloudy
C5	15 Apr 2021	Visibility (mi)	12
C5	15 Apr 2021	Wind Speed (kts)	5
C5	15 Apr 2021	Wind Dir	SE
C5	15 Apr 2021	Water Color	Green
C5	15 Apr 2021	Wave Ht Low (ft)	4
C5	15 Apr 2021	Wave Period (sec)	16
C5	15 Apr 2021	Sea State	Calm
C5	15 Apr 2021	High Tide (ft)	3.2
C5	15 Apr 2021	High Tide Time	1201
C5	15 Apr 2021	Low Tide (ft)	0.1
C5	15 Apr 2021	Low Tide Time	552
C5	15 Apr 2021	Comments	Kelp
C5	20 Apr 2021	Depth (m)	11.1
C5	20 Apr 2021	Arrive Time	933
C5	20 Apr 2021	Depart Time	936
C5	20 Apr 2021	Air Temp (C)	13.6
C5	20 Apr 2021	Weather	Overcast
C5	20 Apr 2021	Visibility (mi)	4
C5	20 Apr 2021	Wind Speed (kts)	7

Station	Date	Parameter	Value
C5	20 Apr 2021	Wind Dir	S
C5	20 Apr 2021	Water Color	Green
C5	20 Apr 2021	Wave Ht Low (ft)	5
C5	20 Apr 2021	Wave Period (sec)	8
C5	20 Apr 2021	Sea State	Confused Swell
C5	20 Apr 2021	High Tide (ft)	3.90439
C5	20 Apr 2021	High Tide Time	254
C5	20 Apr 2021	Low Tide (ft)	0.26248
C5	20 Apr 2021	Low Tide Time	1112
C5	20 Apr 2021	Comments	Kelp
C5	27 Apr 2021	Depth (m)	10
C5	27 Apr 2021	Arrive Time	953
C5	27 Apr 2021	Depart Time	957
C5	27 Apr 2021	Air Temp (C)	14
C5	27 Apr 2021	Weather	Partly Cloudy
C5	27 Apr 2021	Visibility (mi)	18
C5	27 Apr 2021	Wind Speed (kts)	0
C5	27 Apr 2021	Wind Dir	SW
C5	27 Apr 2021	Water Color	Green
C5	27 Apr 2021	Wave Ht Low (ft)	5
C5	27 Apr 2021	Wave Period (sec)	7
C5	27 Apr 2021	Sea State	Confused Swell
C5	27 Apr 2021	High Tide (ft)	6.2339
C5	27 Apr 2021	High Tide Time	2148
C5	27 Apr 2021	Low Tide (ft)	-1.14835
C5	27 Apr 2021	Low Tide Time	406
C5	27 Apr 2021	Comments	Kelp; Kelp Debris
C6	01 Apr 2021	Depth (m)	9.1
C6	01 Apr 2021	Arrive Time	953
C6	01 Apr 2021	Depart Time	957
C6	01 Apr 2021	Air Temp (C)	19.1
C6	01 Apr 2021	Weather	Partly Cloudy
C6	01 Apr 2021	Visibility (mi)	12
C6	01 Apr 2021	Wind Speed (kts)	2.4
C6	01 Apr 2021	Wind Dir	NW
C6	01 Apr 2021	Water Color	Green
C6	01 Apr 2021	Wave Ht Low (ft)	3
C6	01 Apr 2021	Wave Period (sec)	17
C6	01 Apr 2021	Sea State	Calm
C6	01 Apr 2021	High Tide (ft)	5.51208
C6	01 Apr 2021	High Tide Time	6
C6	01 Apr 2021	Low Tide (ft)	-0.49215
C6	01 Apr 2021	Low Tide Time	648
C6	01 Apr 2021	Comments	Kelp
C6	06 Apr 2021	Depth (m)	9.9
C6	06 Apr 2021	Arrive Time	936
C6	06 Apr 2021	Depart Time	938
C6	06 Apr 2021	Air Temp (C)	14.6
C6	06 Apr 2021	Weather	Partly Cloudy
C6	06 Apr 2021	Visibility (mi)	10
C6	06 Apr 2021	Wind Speed (kts)	1.7
C6	06 Apr 2021	Wind Dir	E
C6	06 Apr 2021	Water Color	Green
C6	06 Apr 2021	Wave Ht Low (ft)	3
C6	06 Apr 2021	Wave Period (sec)	8
C6	06 Apr 2021	Sea State	Light Chop
C6	06 Apr 2021	High Tide (ft)	4.5934
C6	06 Apr 2021	High Tide Time	548

Station	Date	Parameter	Value
C6	06 Apr 2021	Low Tide (ft)	-0.55777
C6	06 Apr 2021	Low Tide Time	1300
C6	06 Apr 2021	Comments	Kelp Debris
C6	15 Apr 2021	Depth (m)	10
C6	15 Apr 2021	Arrive Time	820
C6	15 Apr 2021	Depart Time	823
C6	15 Apr 2021	Air Temp (C)	14
C6	15 Apr 2021	Weather	Partly Cloudy
C6	15 Apr 2021	Visibility (mi)	10
C6	15 Apr 2021	Wind Speed (kts)	4
C6	15 Apr 2021	Wind Dir	E
C6	15 Apr 2021	Water Color	Green
C6	15 Apr 2021	Wave Ht Low (ft)	3
C6	15 Apr 2021	Wave Period (sec)	9
C6	15 Apr 2021	Sea State	Calm
C6	15 Apr 2021	High Tide (ft)	3.2
C6	15 Apr 2021	High Tide Time	1201
C6	15 Apr 2021	Low Tide (ft)	0.1
C6	15 Apr 2021	Low Tide Time	552
C6	15 Apr 2021	Comments	Kelp WQ stations not completed on 4/13/2021 are being sampled today.; Kelp; Kelp debris
C6	20 Apr 2021	Depth (m)	9.9
C6	20 Apr 2021	Arrive Time	922
C6	20 Apr 2021	Depart Time	928
C6	20 Apr 2021	Air Temp (C)	14
C6	20 Apr 2021	Weather	Overcast
C6	20 Apr 2021	Visibility (mi)	4
C6	20 Apr 2021	Wind Speed (kts)	6.7
C6	20 Apr 2021	Wind Dir	SE
C6	20 Apr 2021	Water Color	Green
C6	20 Apr 2021	Wave Ht Low (ft)	5
C6	20 Apr 2021	Wave Period (sec)	8
C6	20 Apr 2021	Sea State	Confused Swell
C6	20 Apr 2021	High Tide (ft)	3.90439
C6	20 Apr 2021	High Tide Time	254
C6	20 Apr 2021	Low Tide (ft)	0.26248
C6	20 Apr 2021	Low Tide Time	1112
C6	20 Apr 2021	Comments	Kelp; Bottles collected on 1st cast; Recast to check salinity spikes
C6	27 Apr 2021	Depth (m)	9.6
C6	27 Apr 2021	Arrive Time	945
C6	27 Apr 2021	Depart Time	949
C6	27 Apr 2021	Air Temp (C)	14.7
C6	27 Apr 2021	Weather	Partly Cloudy
C6	27 Apr 2021	Visibility (mi)	18
C6	27 Apr 2021	Wind Speed (kts)	0.8
C6	27 Apr 2021	Wind Dir	N
C6	27 Apr 2021	Water Color	Green
C6	27 Apr 2021	Wave Ht Low (ft)	5
C6	27 Apr 2021	Wave Period (sec)	7
C6	27 Apr 2021	Sea State	Confused Swell
C6	27 Apr 2021	High Tide (ft)	6.2339
C6	27 Apr 2021	High Tide Time	2148
C6	27 Apr 2021	Low Tide (ft)	-1.14835
C6	27 Apr 2021	Low Tide Time	406
C6	27 Apr 2021	Comments	Kelp; Kelp Debris
C7	01 Apr 2021	Depth (m)	

Station	Date	Parameter	Value
C7	01 Apr 2021	Arrive Time	922
C7	01 Apr 2021	Depart Time	928
C7	01 Apr 2021	Air Temp (C)	16.1
C7	01 Apr 2021	Weather	Partly Cloudy
C7	01 Apr 2021	Visibility (mi)	12
C7	01 Apr 2021	Wind Speed (kts)	3.9
C7	01 Apr 2021	Wind Dir	NW
C7	01 Apr 2021	Water Color	Green
C7	01 Apr 2021	Wave Ht Low (ft)	3
C7	01 Apr 2021	Wave Period (sec)	17
C7	01 Apr 2021	Sea State	Calm
C7	01 Apr 2021	High Tide (ft)	5.51208
C7	01 Apr 2021	High Tide Time	6
C7	01 Apr 2021	Low Tide (ft)	-0.49215
C7	01 Apr 2021	Low Tide Time	648
C7	01 Apr 2021	Comments	Kelp
C7	06 Apr 2021	Depth (m)	18.6
C7	06 Apr 2021	Arrive Time	902
C7	06 Apr 2021	Depart Time	907
C7	06 Apr 2021	Air Temp (C)	14.6
C7	06 Apr 2021	Weather	Partly Cloudy
C7	06 Apr 2021	Visibility (mi)	10
C7	06 Apr 2021	Wind Speed (kts)	0.8
C7	06 Apr 2021	Wind Dir	E
C7	06 Apr 2021	Water Color	Green
C7	06 Apr 2021	Wave Ht Low (ft)	3
C7	06 Apr 2021	Wave Period (sec)	8
C7	06 Apr 2021	Sea State	Light Chop
C7	06 Apr 2021	High Tide (ft)	4.5934
C7	06 Apr 2021	High Tide Time	548
C7	06 Apr 2021	Low Tide (ft)	-0.55777
C7	06 Apr 2021	Low Tide Time	1300
C7	06 Apr 2021	Comments	Kelp Debris
C7	13 Apr 2021	Depth (m)	18.2
C7	13 Apr 2021	Arrive Time	918
C7	13 Apr 2021	Depart Time	926
C7	13 Apr 2021	Air Temp (C)	14
C7	13 Apr 2021	Weather	Overcast
C7	13 Apr 2021	Visibility (mi)	11
C7	13 Apr 2021	Wind Speed (kts)	7.2
C7	13 Apr 2021	Wind Dir	S
C7	13 Apr 2021	Water Color	Green
C7	13 Apr 2021	Wave Ht Low (ft)	4
C7	13 Apr 2021	Wave Period (sec)	10
C7	13 Apr 2021	Sea State	Confused Swell
C7	13 Apr 2021	High Tide (ft)	5.05274
C7	13 Apr 2021	High Tide Time	2212
C7	13 Apr 2021	Low Tide (ft)	-0.09843
C7	13 Apr 2021	Low Tide Time	424
C7	13 Apr 2021	Comments	Recast required: salinity spikes.; Kelp Debris
C7	20 Apr 2021	Depth (m)	17.5
C7	20 Apr 2021	Arrive Time	848
C7	20 Apr 2021	Depart Time	853
C7	20 Apr 2021	Air Temp (C)	14.3
C7	20 Apr 2021	Weather	Overcast
C7	20 Apr 2021	Visibility (mi)	4
C7	20 Apr 2021	Wind Speed (kts)	5.6
C7	20 Apr 2021	Wind Dir	S

Station	Date	Parameter	Value
C7	20 Apr 2021	Water Color	Green
C7	20 Apr 2021	Wave Ht Low (ft)	5
C7	20 Apr 2021	Wave Period (sec)	8
C7	20 Apr 2021	Sea State	Confused Swell
C7	20 Apr 2021	High Tide (ft)	3.90439
C7	20 Apr 2021	High Tide Time	254
C7	20 Apr 2021	Low Tide (ft)	0.26248
C7	20 Apr 2021	Low Tide Time	1112
C7	20 Apr 2021	Comments	Kelp
C7	27 Apr 2021	Depth (m)	18.8
C7	27 Apr 2021	Arrive Time	916
C7	27 Apr 2021	Depart Time	922
C7	27 Apr 2021	Air Temp (C)	14
C7	27 Apr 2021	Weather	Partly Cloudy
C7	27 Apr 2021	Visibility (mi)	18
C7	27 Apr 2021	Wind Speed (kts)	3.1
C7	27 Apr 2021	Wind Dir	W
C7	27 Apr 2021	Water Color	Green
C7	27 Apr 2021	Wave Ht Low (ft)	5
C7	27 Apr 2021	Wave Period (sec)	7
C7	27 Apr 2021	Sea State	Confused Swell
C7	27 Apr 2021	High Tide (ft)	6.2339
C7	27 Apr 2021	High Tide Time	2148
C7	27 Apr 2021	Low Tide (ft)	-1.14835
C7	27 Apr 2021	Low Tide Time	406
C7	27 Apr 2021	Comments	Extra bottle (9m) captured for Chl-a; Kelp; Kelp Debris
C8	01 Apr 2021	Depth (m)	18.7
C8	01 Apr 2021	Arrive Time	935
C8	01 Apr 2021	Depart Time	939
C8	01 Apr 2021	Air Temp (C)	16.3
C8	01 Apr 2021	Weather	Partly Cloudy
C8	01 Apr 2021	Visibility (mi)	12
C8	01 Apr 2021	Wind Speed (kts)	2.8
C8	01 Apr 2021	Wind Dir	N
C8	01 Apr 2021	Water Color	Green
C8	01 Apr 2021	Wave Ht Low (ft)	3
C8	01 Apr 2021	Wave Period (sec)	17
C8	01 Apr 2021	Sea State	Calm
C8	01 Apr 2021	High Tide (ft)	5.51208
C8	01 Apr 2021	High Tide Time	6
C8	01 Apr 2021	Low Tide (ft)	-0.49215
C8	01 Apr 2021	Low Tide Time	648
C8	01 Apr 2021	Comments	Kelp Debris; Kelp
C8	06 Apr 2021	Depth (m)	19.6
C8	06 Apr 2021	Arrive Time	917
C8	06 Apr 2021	Depart Time	920
C8	06 Apr 2021	Air Temp (C)	14.5
C8	06 Apr 2021	Weather	Partly Cloudy
C8	06 Apr 2021	Visibility (mi)	10
C8	06 Apr 2021	Wind Speed (kts)	0
C8	06 Apr 2021	Wind Dir	E
C8	06 Apr 2021	Water Color	Green
C8	06 Apr 2021	Wave Ht Low (ft)	3
C8	06 Apr 2021	Wave Period (sec)	8
C8	06 Apr 2021	Sea State	Light Chop
C8	06 Apr 2021	High Tide (ft)	4.5934
C8	06 Apr 2021	High Tide Time	548
C8	06 Apr 2021	Low Tide (ft)	-0.55777

Station	Date	Parameter	Value
C8	06 Apr 2021	Low Tide Time	1300
C8	06 Apr 2021	Comments	Kelp Debris
C8	13 Apr 2021	Depth (m)	19.9
C8	13 Apr 2021	Arrive Time	931
C8	13 Apr 2021	Depart Time	933
C8	13 Apr 2021	Air Temp (C)	14
C8	13 Apr 2021	Weather	Overcast
C8	13 Apr 2021	Visibility (mi)	11
C8	13 Apr 2021	Wind Speed (kts)	7.4
C8	13 Apr 2021	Wind Dir	S
C8	13 Apr 2021	Water Color	Green
C8	13 Apr 2021	Wave Ht Low (ft)	4
C8	13 Apr 2021	Wave Period (sec)	10
C8	13 Apr 2021	Sea State	Confused Swell
C8	13 Apr 2021	High Tide (ft)	5.05274
C8	13 Apr 2021	High Tide Time	2212
C8	13 Apr 2021	Low Tide (ft)	-0.09843
C8	13 Apr 2021	Low Tide Time	424
C8	13 Apr 2021	Comments	12m bottle collected by side davit
C8	20 Apr 2021	Depth (m)	18.8
C8	20 Apr 2021	Arrive Time	901
C8	20 Apr 2021	Depart Time	908
C8	20 Apr 2021	Air Temp (C)	14.1
C8	20 Apr 2021	Weather	Overcast
C8	20 Apr 2021	Visibility (mi)	4
C8	20 Apr 2021	Wind Speed (kts)	7.9
C8	20 Apr 2021	Wind Dir	SE
C8	20 Apr 2021	Water Color	Green
C8	20 Apr 2021	Wave Ht Low (ft)	5
C8	20 Apr 2021	Wave Period (sec)	8
C8	20 Apr 2021	Sea State	Confused Swell
C8	20 Apr 2021	High Tide (ft)	3.90439
C8	20 Apr 2021	High Tide Time	254
C8	20 Apr 2021	Low Tide (ft)	0.26248
C8	20 Apr 2021	Low Tide Time	1112
C8	20 Apr 2021	Comments	none
C8	27 Apr 2021	Depth (m)	20.2
C8	27 Apr 2021	Arrive Time	926
C8	27 Apr 2021	Depart Time	929
C8	27 Apr 2021	Air Temp (C)	14.4
C8	27 Apr 2021	Weather	Partly Cloudy
C8	27 Apr 2021	Visibility (mi)	18
C8	27 Apr 2021	Wind Speed (kts)	2.9
C8	27 Apr 2021	Wind Dir	E
C8	27 Apr 2021	Water Color	Green
C8	27 Apr 2021	Wave Ht Low (ft)	5
C8	27 Apr 2021	Wave Period (sec)	7
C8	27 Apr 2021	Sea State	Confused Swell
C8	27 Apr 2021	High Tide (ft)	6.2339
C8	27 Apr 2021	High Tide Time	2148
C8	27 Apr 2021	Low Tide (ft)	-1.14835
C8	27 Apr 2021	Low Tide Time	406
C8	27 Apr 2021	Comments	Kelp; Kelp Debris; Seagrass

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 ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
A1	01 Apr 2021	1	14.81	81.24	8.0	33.63	8.0	25.0	1.56
A1	01 Apr 2021	2	14.73	81.58	7.9	33.63	8.0	25.0	1.63
A1	01 Apr 2021	3	14.61	81.96	7.7	33.63	8.0	25.0	1.70
A1	01 Apr 2021	4	14.36	81.88	7.5	33.66	8.0	25.1	1.84
A1	01 Apr 2021	5	13.98	82.31	7.1	33.66	8.0	25.2	1.83
A1	01 Apr 2021	6	13.56	82.92	6.7	33.68	7.9	25.3	1.81
A1	01 Apr 2021	7	13.16	83.48	6.4	33.68	7.9	25.3	1.73
A1	01 Apr 2021	8	12.91	83.62	6.2	33.68	7.9	25.4	1.56
A1	01 Apr 2021	9	12.68	84.00	6.0	33.68	7.8	25.4	1.54
A1	01 Apr 2021	10	12.57	84.49	5.9	33.68	7.8	25.5	1.73
A1	01 Apr 2021	11	12.41	84.56	5.8	33.68	7.8	25.5	1.48
A1	01 Apr 2021	12	12.38	84.78	5.7	33.68	7.8	25.5	1.49
A1	01 Apr 2021	13	12.28	84.95	5.6	33.69	7.8	25.5	1.42
A1	01 Apr 2021	14	12.17	85.17	5.5	33.69	7.8	25.5	1.34
A1	01 Apr 2021	15	12.15	85.33	5.5	33.69	7.8	25.5	1.29
A1	01 Apr 2021	16	12.16	85.41	5.5	33.69	7.8	25.5	1.22
A1	01 Apr 2021	17	12.16	85.42	5.5	33.69	7.8	25.5	1.24
A1	01 Apr 2021	18	12.16	85.39	5.5	33.69	7.8	25.5	1.27
A1	06 Apr 2021	1	15.16	79.46	7.9	33.63	8.1	24.9	2.24
A1	06 Apr 2021	2	15.13	79.68	7.8	33.63	8.1	24.9	2.43
A1	06 Apr 2021	3	14.82	79.88	7.5	33.65	8.1	25.0	2.56
A1	06 Apr 2021	4	14.16	81.21	6.9	33.70	8.0	25.1	2.35
A1	06 Apr 2021	5	13.35	82.24	6.3	33.71	8.0	25.3	2.01
A1	06 Apr 2021	6	13.24	82.81	6.1	33.68	7.9	25.3	1.90
A1	06 Apr 2021	7	12.77	83.15	5.8	33.72	7.9	25.4	1.87
A1	06 Apr 2021	8	12.57	83.30	5.6	33.70	7.9	25.5	1.84
A1	06 Apr 2021	9	12.29	84.16	5.3	33.73	7.9	25.5	1.55
A1	06 Apr 2021	10	12.20	84.74	5.2	33.72	7.8	25.6	1.40
A1	06 Apr 2021	11	11.89	84.77	4.9	33.75	7.8	25.6	1.24
A1	06 Apr 2021	12	11.60	84.91	4.6	33.77	7.8	25.7	1.06
A1	06 Apr 2021	13	11.25	84.99	4.5	33.78	7.8	25.8	1.00
A1	06 Apr 2021	14	11.20	84.97	4.4	33.82	7.8	25.8	1.02
A1	06 Apr 2021	15	10.84	84.74	4.1	33.80	7.8	25.9	0.83
A1	06 Apr 2021	16	10.73	84.51	4.0	33.82	7.7	25.9	0.73
A1	06 Apr 2021	17	10.59	84.03	3.9	33.84	7.7	25.9	0.69
A1	06 Apr 2021	18	10.57	84.08	3.8	33.84	7.7	25.9	0.70
A1	06 Apr 2021	19	10.51	84.27	3.7	33.85	7.7	26.0	0.55
A1	06 Apr 2021	20	10.50	84.29	3.7	33.85	7.7	26.0	0.54
A1	13 Apr 2021	1	16.36	74.37	8.4	33.68	8.2	24.7	4.31
A1	13 Apr 2021	2	16.34	74.31	8.4	33.68	8.2	24.7	4.61
A1	13 Apr 2021	3	16.03	73.39	8.2	33.70	8.1	24.7	5.22
A1	13 Apr 2021	4	15.49	72.32	7.9	33.72	8.1	24.9	5.32
A1	13 Apr 2021	5	14.95	74.11	7.6	33.72	8.1	25.0	4.88
A1	13 Apr 2021	6	14.80	75.18	7.4	33.68	8.1	25.0	4.75
A1	13 Apr 2021	7	14.45	75.33	7.1	33.72	8.1	25.1	4.59
A1	13 Apr 2021	8	13.89	76.32	6.9	33.70	8.0	25.2	4.36
A1	13 Apr 2021	9	13.75	77.40	6.7	33.69	8.0	25.2	4.05
A1	13 Apr 2021	10	13.62	77.69	6.7	33.69	8.0	25.2	3.81
A1	13 Apr 2021	11	13.55	77.79	6.7	33.69	8.0	25.3	3.83
A1	13 Apr 2021	12	13.50	77.62	6.7	33.69	8.0	25.3	3.71
A1	13 Apr 2021	13	13.37	78.19	6.5	33.70	8.0	25.3	3.45
A1	13 Apr 2021	14	13.09	79.06	6.3	33.70	8.0	25.4	3.28
A1	13 Apr 2021	15	13.01	78.51	6.3	33.70	8.0	25.4	3.21
A1	13 Apr 2021	16	12.99	79.86	6.3	33.69	8.0	25.4	2.99

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
A1	13 Apr 2021	17	12.94	78.36	6.2	33.69	8.0	25.4	3.25
A1	13 Apr 2021	18	12.83	81.11	6.1	33.71	7.9	25.4	2.93
A1	13 Apr 2021	19	12.51	83.63	6.0	33.71	7.9	25.5	2.49
A1	20 Apr 2021	1	16.25	76.26	8.4	33.69	8.2	24.7	3.20
A1	20 Apr 2021	2	16.24	76.27	8.3	33.69	8.2	24.7	3.36
A1	20 Apr 2021	3	16.09	75.22	8.2	33.70	8.2	24.7	4.16
A1	20 Apr 2021	4	15.05	73.04	7.5	33.75	8.1	25.0	6.05
A1	20 Apr 2021	5	13.95	74.24	6.5	33.76	8.1	25.2	5.25
A1	20 Apr 2021	6	13.14	76.75	6.1	33.76	8.0	25.4	4.03
A1	20 Apr 2021	7	13.08	79.57	6.0	33.66	7.9	25.3	3.21
A1	20 Apr 2021	8	12.39	81.83	5.6	33.73	7.9	25.5	2.47
A1	20 Apr 2021	9	12.17	82.57	5.3	33.71	7.9	25.6	1.92
A1	20 Apr 2021	10	11.77	82.65	5.1	33.72	7.9	25.6	1.78
A1	20 Apr 2021	11	11.48	83.34	5.0	33.72	7.9	25.7	1.60
A1	20 Apr 2021	12	11.18	84.94	4.7	33.74	7.8	25.8	1.18
A1	20 Apr 2021	13	10.99	85.59	4.5	33.76	7.8	25.8	0.79
A1	20 Apr 2021	14	10.84	85.53	4.4	33.77	7.8	25.8	0.67
A1	20 Apr 2021	15	10.76	85.51	4.4	33.77	7.8	25.9	0.64
A1	20 Apr 2021	16	10.69	85.27	4.4	33.78	7.8	25.9	0.58
A1	20 Apr 2021	17	10.77	85.43	4.4	33.77	7.8	25.9	0.60
A1	20 Apr 2021	18	10.65	85.25	4.3	33.80	7.8	25.9	0.55
A1	20 Apr 2021	19	10.63	84.96	4.2	33.80	7.8	25.9	0.51
A1	27 Apr 2021	1	14.07	80.98	7.2	33.68	8.1	25.2	1.24
A1	27 Apr 2021	2	13.36	80.15	6.5	33.74	8.1	25.3	1.81
A1	27 Apr 2021	3	12.41	78.41	6.1	33.67	8.0	25.5	3.05
A1	27 Apr 2021	4	12.17	77.87	5.9	33.67	8.0	25.5	3.53
A1	27 Apr 2021	5	11.96	79.73	5.6	33.67	8.0	25.6	3.53
A1	27 Apr 2021	6	11.47	82.28	5.1	33.73	7.9	25.7	2.65
A1	27 Apr 2021	7	11.09	84.75	4.8	33.74	7.9	25.8	1.82
A1	27 Apr 2021	8	10.93	85.55	4.7	33.74	7.9	25.8	1.26
A1	27 Apr 2021	9	10.86	86.10	4.6	33.75	7.9	25.8	1.06
A1	27 Apr 2021	10	10.67	87.43	4.4	33.77	7.8	25.9	0.79
A1	27 Apr 2021	11	10.67	87.76	4.3	33.77	7.8	25.9	0.66
A1	27 Apr 2021	12	10.67	87.79	4.3	33.78	7.8	25.9	0.61
A1	27 Apr 2021	13	10.67	87.75	4.3	33.78	7.8	25.9	0.63
A1	27 Apr 2021	14	10.60	87.58	4.3	33.79	7.8	25.9	0.59
A1	27 Apr 2021	15	10.57	87.28	4.4	33.79	7.8	25.9	0.60
A1	27 Apr 2021	16	10.55	87.27	4.4	33.79	7.8	25.9	0.60
A1	27 Apr 2021	17	10.54	87.23	4.4	33.79	7.8	25.9	0.57
A1	27 Apr 2021	18	10.54	86.69	4.4	33.79	7.8	25.9	0.57
A6	01 Apr 2021	1	14.84	81.15	7.9	33.63	8.0	25.0	1.25
A6	01 Apr 2021	2	14.40	80.90	7.6	33.65	8.0	25.1	1.57
A6	01 Apr 2021	3	14.27	80.68	7.4	33.64	8.0	25.1	1.91
A6	01 Apr 2021	4	14.25	80.62	7.4	33.64	8.0	25.1	2.28
A6	01 Apr 2021	5	14.20	80.53	7.3	33.64	8.0	25.1	2.61
A6	01 Apr 2021	6	14.01	80.68	7.1	33.65	7.9	25.1	2.69
A6	01 Apr 2021	7	13.78	80.85	7.0	33.67	7.9	25.2	2.71
A6	01 Apr 2021	8	13.60	81.84	6.8	33.66	7.9	25.2	2.45
A6	01 Apr 2021	9	13.57	82.41	6.8	33.65	7.9	25.2	2.23
A6	01 Apr 2021	10	13.54	82.73	6.7	33.66	7.9	25.2	2.15
A6	01 Apr 2021	11	13.49	83.00	6.6	33.66	7.9	25.3	1.92
A6	01 Apr 2021	12	13.46	83.56	6.6	33.66	7.9	25.3	1.71
A6	01 Apr 2021	13	13.45	83.45	6.6	33.66	7.9	25.3	1.76
A6	01 Apr 2021	14	13.42	83.60	6.6	33.66	7.9	25.3	1.72
A6	01 Apr 2021	15	13.37	83.69	6.5	33.66	7.9	25.3	1.64
A6	01 Apr 2021	16	13.26	84.15	6.4	33.67	7.9	25.3	1.56
A6	01 Apr 2021	17	13.17	84.10	6.3	33.67	7.9	25.3	1.54
A6	01 Apr 2021	18	13.18	84.43	6.3	33.67	7.8	25.3	1.39

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A6	06 Apr 2021	1	15.56	81.16	8.0	33.62	8.1	24.8	1.09
A6	06 Apr 2021	2	15.52	80.83	8.0	33.62	8.1	24.8	1.17
A6	06 Apr 2021	3	15.40	80.35	7.9	33.63	8.1	24.8	1.40
A6	06 Apr 2021	4	15.28	80.44	7.9	33.62	8.1	24.9	1.68
A6	06 Apr 2021	5	15.22	80.51	7.9	33.63	8.1	24.9	1.93
A6	06 Apr 2021	6	15.08	80.19	7.7	33.63	8.1	24.9	2.16
A6	06 Apr 2021	7	14.87	80.25	7.5	33.65	8.1	25.0	2.11
A6	06 Apr 2021	8	14.49	81.61	7.3	33.64	8.0	25.0	1.96
A6	06 Apr 2021	9	14.37	82.37	6.8	33.67	8.0	25.1	1.86
A6	06 Apr 2021	10	12.85	83.73	5.9	33.78	8.0	25.5	1.51
A6	06 Apr 2021	11	12.47	84.41	5.5	33.71	7.9	25.5	1.23
A6	06 Apr 2021	12	12.04	84.51	5.1	33.77	7.9	25.6	1.23
A6	06 Apr 2021	13	11.66	84.69	4.8	33.75	7.8	25.7	1.04
A6	06 Apr 2021	14	11.45	84.53	4.6	33.76	7.8	25.7	0.86
A6	06 Apr 2021	15	11.26	84.51	4.5	33.78	7.8	25.8	0.81
A6	06 Apr 2021	16	11.12	84.55	4.3	33.78	7.8	25.8	0.81
A6	06 Apr 2021	17	10.84	84.69	4.1	33.81	7.8	25.9	0.72
A6	06 Apr 2021	18	10.74	84.73	4.0	33.82	7.7	25.9	0.66
A6	13 Apr 2021	1	16.96	74.36	8.7	33.67	8.2	24.5	3.82
A6	13 Apr 2021	2	16.96	74.38	8.7	33.67	8.2	24.5	4.12
A6	13 Apr 2021	3	16.83	74.08	8.3	33.69	8.2	24.5	4.49
A6	13 Apr 2021	4	16.18	74.50	8.0	33.72	8.2	24.7	4.36
A6	13 Apr 2021	5	15.74	75.05	7.9	33.71	8.2	24.8	4.60
A6	13 Apr 2021	6	15.48	75.22	7.9	33.69	8.1	24.9	5.10
A6	13 Apr 2021	7	15.39	74.62	8.0	33.68	8.1	24.9	5.90
A6	13 Apr 2021	8	15.35	72.48	8.1	33.67	8.1	24.9	6.36
A6	13 Apr 2021	9	15.30	71.06	8.2	33.67	8.1	24.9	6.75
A6	13 Apr 2021	10	15.16	69.77	8.2	33.67	8.1	24.9	6.59
A6	13 Apr 2021	11	15.06	70.01	8.1	33.67	8.1	24.9	6.11
A6	13 Apr 2021	12	15.01	71.60	8.0	33.67	8.1	24.9	5.59
A6	13 Apr 2021	13	14.94	72.44	7.8	33.68	8.1	25.0	4.97
A6	13 Apr 2021	14	14.85	73.41	7.6	33.67	8.1	25.0	4.57
A6	13 Apr 2021	15	14.82	75.07	7.3	33.67	8.1	25.0	4.00
A6	13 Apr 2021	16	14.41	76.63	6.8	33.70	8.1	25.1	3.27
A6	13 Apr 2021	17	13.81	79.16	6.5	33.71	8.0	25.2	2.48
A6	13 Apr 2021	18	13.41	80.72	6.2	33.71	8.0	25.3	2.09
A6	20 Apr 2021	1	16.77	76.66	8.8	33.69	8.2	24.6	2.58
A6	20 Apr 2021	2	16.77	76.70	8.8	33.69	8.2	24.6	2.87
A6	20 Apr 2021	3	16.76	76.67	8.8	33.69	8.2	24.6	2.99
A6	20 Apr 2021	4	16.72	76.35	8.7	33.69	8.2	24.6	3.36
A6	20 Apr 2021	5	16.42	76.19	8.1	33.72	8.2	24.7	3.63
A6	20 Apr 2021	6	14.91	76.72	7.4	33.77	8.1	25.0	3.75
A6	20 Apr 2021	7	14.41	78.69	6.8	33.71	8.1	25.1	3.27
A6	20 Apr 2021	8	13.52	80.40	6.2	33.69	8.0	25.3	2.49
A6	20 Apr 2021	9	12.86	82.57	5.6	33.73	8.0	25.4	1.82
A6	20 Apr 2021	10	12.47	84.06	5.2	33.69	7.9	25.5	1.21
A6	20 Apr 2021	11	12.15	84.83	4.9	33.73	7.9	25.6	0.99
A6	20 Apr 2021	12	11.88	85.31	4.7	33.71	7.9	25.6	0.75
A6	20 Apr 2021	13	11.52	85.45	4.4	33.76	7.8	25.7	0.64
A6	20 Apr 2021	14	10.85	85.24	4.1	33.82	7.8	25.9	0.53
A6	20 Apr 2021	15	10.54	84.59	4.0	33.82	7.8	25.9	0.50
A6	20 Apr 2021	16	10.51	84.24	4.0	33.82	7.8	25.9	0.49
A6	20 Apr 2021	17	10.43	83.95	4.0	33.84	7.8	26.0	0.48
A6	20 Apr 2021	18	10.49	83.85	4.0	33.83	7.8	26.0	0.50
A6	27 Apr 2021	1	15.15	79.85	7.6	33.69	8.2	24.9	1.03
A6	27 Apr 2021	2	15.12	79.83	7.6	33.69	8.2	24.9	1.10
A6	27 Apr 2021	3	14.93	77.98	7.5	33.71	8.2	25.0	1.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A6	27 Apr 2021	4	13.77	75.77	6.6	33.81	8.1	25.3	2.85
A6	27 Apr 2021	5	12.13	77.38	5.6	33.85	8.0	25.7	3.57
A6	27 Apr 2021	6	12.16	82.30	5.4	33.65	7.9	25.5	2.56
A6	27 Apr 2021	7	11.77	83.28	5.4	33.78	7.9	25.7	2.47
A6	27 Apr 2021	8	11.40	83.82	5.0	33.73	7.9	25.7	1.93
A6	27 Apr 2021	9	11.37	84.69	4.9	33.72	7.9	25.7	1.63
A6	27 Apr 2021	10	10.98	85.91	4.7	33.75	7.9	25.8	1.34
A6	27 Apr 2021	11	10.88	86.09	4.6	33.74	7.9	25.8	0.97
A6	27 Apr 2021	12	10.82	86.21	4.6	33.74	7.9	25.8	0.89
A6	27 Apr 2021	13	10.67	86.63	4.5	33.76	7.8	25.9	0.74
A6	27 Apr 2021	14	10.65	86.93	4.5	33.76	7.8	25.9	0.64
A6	27 Apr 2021	15	10.60	86.96	4.4	33.77	7.8	25.9	0.61
A6	27 Apr 2021	16	10.57	86.90	4.4	33.78	7.8	25.9	0.57
A6	27 Apr 2021	17	10.55	86.92	4.4	33.78	7.8	25.9	0.55
A6	27 Apr 2021	18	10.54	86.96	4.4	33.78	7.8	25.9	0.56
A6	27 Apr 2021	19	10.55	86.96	4.4	33.78	7.8	25.9	0.56
A6	27 Apr 2021	20	10.53	86.92	4.4	33.78	7.8	25.9	0.58
A6	27 Apr 2021	21	10.54	86.92	4.4	33.78	7.8	25.9	0.56
A7	01 Apr 2021	1	14.90	80.09	8.3	33.62	8.0	24.9	1.85
A7	01 Apr 2021	2	14.82	79.53	8.3	33.62	8.0	24.9	2.00
A7	01 Apr 2021	3	14.74	79.55	8.2	33.62	8.0	25.0	2.34
A7	01 Apr 2021	4	14.72	79.57	8.2	33.62	8.0	25.0	2.57
A7	01 Apr 2021	5	14.70	79.58	8.1	33.62	8.0	25.0	2.93
A7	01 Apr 2021	6	14.21	79.55	7.6	33.67	8.0	25.1	3.04
A7	01 Apr 2021	7	13.92	80.96	7.3	33.64	7.9	25.2	2.89
A7	01 Apr 2021	8	13.79	81.72	7.2	33.65	7.9	25.2	2.73
A7	01 Apr 2021	9	13.76	82.08	7.1	33.64	7.9	25.2	2.46
A7	01 Apr 2021	10	13.77	82.17	7.1	33.64	7.9	25.2	2.41
A7	01 Apr 2021	11	13.76	82.28	7.1	33.64	7.9	25.2	2.29
A7	01 Apr 2021	12	13.74	82.22	7.1	33.65	7.9	25.2	2.32
A7	01 Apr 2021	13	13.69	81.83	7.0	33.65	7.9	25.2	2.23
A7	01 Apr 2021	14	13.62	82.84	6.9	33.66	7.9	25.2	2.10
A7	01 Apr 2021	15	13.54	83.45	6.8	33.66	7.9	25.2	1.92
A7	01 Apr 2021	16	13.41	84.05	6.6	33.66	7.9	25.3	1.58
A7	01 Apr 2021	17	13.13	84.73	6.3	33.69	7.9	25.4	1.33
A7	01 Apr 2021	18	12.72	85.30	6.0	33.70	7.8	25.4	1.05
A7	06 Apr 2021	1	15.57	81.05	8.1	33.62	8.1	24.8	1.30
A7	06 Apr 2021	2	15.54	80.82	8.1	33.63	8.1	24.8	1.42
A7	06 Apr 2021	3	15.48	80.92	8.0	33.63	8.1	24.8	1.70
A7	06 Apr 2021	4	15.41	81.04	7.8	33.63	8.1	24.8	1.84
A7	06 Apr 2021	5	15.12	81.27	7.5	33.65	8.1	24.9	1.82
A7	06 Apr 2021	6	14.58	81.62	7.0	33.69	8.0	25.0	1.78
A7	06 Apr 2021	7	13.78	82.58	6.7	33.69	8.0	25.2	1.55
A7	06 Apr 2021	8	13.69	83.05	6.4	33.66	8.0	25.2	1.48
A7	06 Apr 2021	9	12.78	83.73	5.8	33.75	8.0	25.5	1.38
A7	06 Apr 2021	10	12.15	84.21	5.4	33.73	7.9	25.6	1.39
A7	06 Apr 2021	11	12.03	84.91	5.2	33.69	7.8	25.6	1.35
A7	06 Apr 2021	12	11.54	85.20	4.8	33.77	7.8	25.7	1.15
A7	06 Apr 2021	13	11.23	85.17	4.5	33.76	7.8	25.8	0.98
A7	06 Apr 2021	14	11.17	85.22	4.4	33.77	7.8	25.8	0.93
A7	06 Apr 2021	15	11.01	85.16	4.3	33.79	7.8	25.8	0.77
A7	06 Apr 2021	16	10.95	85.11	4.1	33.81	7.8	25.9	0.74
A7	06 Apr 2021	17	10.51	84.85	3.8	33.86	7.7	26.0	0.58
A7	06 Apr 2021	18	10.45	84.71	3.7	33.85	7.7	26.0	0.52
A7	06 Apr 2021	19	10.45	84.68	3.7	33.85	7.7	26.0	0.51
A7	06 Apr 2021	20	10.51	84.63	3.8	33.85	7.7	26.0	0.53
A7	13 Apr 2021	1	16.94	75.62	8.5	33.67	8.2	24.5	3.04
A7	13 Apr 2021	2	16.93	75.87	8.5	33.67	8.2	24.5	3.22

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
A7	13 Apr 2021	3	16.88	75.41	8.5	33.68	8.2	24.5	3.72
A7	13 Apr 2021	4	16.47	75.16	8.5	33.72	8.2	24.7	4.41
A7	13 Apr 2021	5	16.06	73.10	8.6	33.69	8.2	24.7	5.03
A7	13 Apr 2021	6	15.78	71.51	8.7	33.69	8.2	24.8	5.42
A7	13 Apr 2021	7	15.63	70.87	8.7	33.67	8.2	24.8	5.46
A7	13 Apr 2021	8	15.61	71.46	8.6	33.67	8.2	24.8	5.61
A7	13 Apr 2021	9	15.58	71.87	8.5	33.67	8.2	24.8	5.34
A7	13 Apr 2021	10	15.50	72.44	8.3	33.68	8.2	24.8	5.01
A7	13 Apr 2021	11	15.22	73.72	7.9	33.71	8.1	24.9	4.39
A7	13 Apr 2021	12	14.87	76.21	7.5	33.69	8.1	25.0	3.87
A7	13 Apr 2021	13	14.64	77.27	6.9	33.70	8.1	25.0	3.23
A7	13 Apr 2021	14	13.65	79.94	6.3	33.76	8.0	25.3	2.25
A7	13 Apr 2021	15	13.33	82.90	5.9	33.70	8.0	25.3	1.70
A7	13 Apr 2021	16	13.26	83.41	5.9	33.68	7.9	25.3	1.51
A7	13 Apr 2021	17	13.23	83.43	5.9	33.68	7.9	25.3	1.40
A7	13 Apr 2021	18	13.19	83.56	6.0	33.68	7.9	25.3	1.40
A7	20 Apr 2021	1	16.66	75.28	8.9	33.69	8.2	24.6	3.75
A7	20 Apr 2021	2	16.66	75.44	8.9	33.69	8.2	24.6	3.97
A7	20 Apr 2021	3	16.66	75.43	8.9	33.69	8.2	24.6	4.10
A7	20 Apr 2021	4	16.62	75.41	8.6	33.70	8.2	24.6	4.43
A7	20 Apr 2021	5	16.03	75.16	8.0	33.75	8.2	24.8	4.69
A7	20 Apr 2021	6	14.77	78.27	7.0	33.75	8.1	25.1	4.24
A7	20 Apr 2021	7	13.65	82.02	6.0	33.75	8.0	25.3	2.69
A7	20 Apr 2021	8	12.59	83.81	5.3	33.75	7.9	25.5	1.56
A7	20 Apr 2021	9	12.27	84.26	5.0	33.72	7.9	25.5	1.13
A7	20 Apr 2021	10	11.95	84.91	4.8	33.73	7.8	25.6	0.81
A7	20 Apr 2021	11	11.61	85.32	4.4	33.74	7.8	25.7	0.67
A7	20 Apr 2021	12	10.97	85.61	4.2	33.79	7.8	25.8	0.62
A7	20 Apr 2021	13	10.75	85.55	4.2	33.78	7.8	25.9	0.57
A7	20 Apr 2021	14	10.64	85.50	4.2	33.80	7.8	25.9	0.53
A7	20 Apr 2021	15	10.54	84.96	4.1	33.81	7.8	25.9	0.49
A7	20 Apr 2021	16	10.55	84.88	4.0	33.81	7.8	25.9	0.48
A7	20 Apr 2021	17	10.53	84.85	4.0	33.82	7.8	25.9	0.45
A7	20 Apr 2021	18	10.56	84.91	4.0	33.81	7.8	25.9	0.45
A7	27 Apr 2021	1	14.92	79.14	7.9	33.70	8.2	25.0	1.44
A7	27 Apr 2021	2	14.60	78.89	7.4	33.73	8.1	25.1	2.27
A7	27 Apr 2021	3	13.18	77.97	6.5	33.74	8.1	25.4	4.09
A7	27 Apr 2021	4	12.22	76.42	5.9	33.68	8.0	25.5	4.26
A7	27 Apr 2021	5	11.78	79.80	5.5	33.68	8.0	25.6	3.39
A7	27 Apr 2021	6	11.97	81.31	5.6	33.62	7.9	25.5	2.91
A7	27 Apr 2021	7	11.50	83.86	5.3	33.74	7.9	25.7	2.54
A7	27 Apr 2021	8	11.17	84.47	5.0	33.71	7.9	25.7	2.14
A7	27 Apr 2021	9	11.34	84.65	5.0	33.69	7.9	25.7	2.02
A7	27 Apr 2021	10	10.91	85.55	4.8	33.76	7.9	25.8	1.50
A7	27 Apr 2021	11	10.84	86.21	4.6	33.74	7.8	25.8	1.10
A7	27 Apr 2021	12	10.76	86.52	4.5	33.77	7.8	25.9	0.92
A7	27 Apr 2021	13	10.60	86.62	4.4	33.77	7.8	25.9	0.72
A7	27 Apr 2021	14	10.59	86.63	4.4	33.77	7.8	25.9	0.61
A7	27 Apr 2021	15	10.59	86.64	4.4	33.77	7.8	25.9	0.59
A7	27 Apr 2021	16	10.56	86.57	4.4	33.78	7.8	25.9	0.57
A7	27 Apr 2021	17	10.53	86.50	4.3	33.78	7.8	25.9	0.54
A7	27 Apr 2021	18	10.53	86.52	4.3	33.79	7.8	25.9	0.55
A7	27 Apr 2021	19	10.54	86.34	4.3	33.79	7.8	25.9	0.53
C4	01 Apr 2021	1	14.84	82.82	7.9	33.63	8.0	25.0	0.78
C4	01 Apr 2021	2	14.77	82.65	7.9	33.64	8.0	25.0	0.85
C4	01 Apr 2021	3	14.73	82.43	7.9	33.64	8.0	25.0	0.97
C4	01 Apr 2021	4	14.67	82.17	7.9	33.64	8.0	25.0	1.17
C4	01 Apr 2021	5	14.62	82.15	7.8	33.64	8.0	25.0	1.30

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
C4	01 Apr 2021	6	14.54	82.58	7.7	33.65	8.0	25.0	1.31
C4	01 Apr 2021	7	14.47	82.89	7.6	33.65	8.0	25.0	1.29
C4	01 Apr 2021	8	14.34	83.29	7.4	33.66	8.0	25.1	1.20
C4	01 Apr 2021	9	13.64	83.81	6.6	33.73	7.9	25.3	1.00
C4	01 Apr 2021	10	12.63	84.02	6.0	33.71	7.8	25.5	0.70
C4	01 Apr 2021	11	12.60	82.89	6.0	33.69	7.8	25.5	0.64
C4	06 Apr 2021	1	15.40	71.99	7.9	33.64	8.1	24.8	0.84
C4	06 Apr 2021	2	15.37	73.36	7.9	33.64	8.1	24.8	0.92
C4	06 Apr 2021	3	15.34	73.49	7.9	33.64	8.1	24.9	1.04
C4	06 Apr 2021	4	15.34	73.44	7.8	33.65	8.1	24.9	1.11
C4	06 Apr 2021	5	15.10	73.76	7.7	33.66	8.1	24.9	1.35
C4	06 Apr 2021	6	14.90	78.11	7.4	33.64	8.1	24.9	1.60
C4	06 Apr 2021	7	13.89	80.00	6.7	33.76	8.1	25.2	1.85
C4	06 Apr 2021	8	13.27	81.04	6.1	33.72	8.0	25.3	1.75
C4	06 Apr 2021	9	12.80	81.21	5.5	33.73	7.9	25.4	1.28
C4	06 Apr 2021	10	12.50	77.28	5.2	33.71	7.9	25.5	0.96
C4	06 Apr 2021	11	12.49	73.72	5.2	33.70	7.9	25.5	0.85
C4	06 Apr 2021	12	12.68	73.28	5.4	33.68	7.9	25.4	0.89
C4	15 Apr 2021	1	16.41	75.60	8.2	33.71	8.2	24.7	1.91
C4	15 Apr 2021	2	16.32	75.43	8.3	33.72	8.2	24.7	2.42
C4	15 Apr 2021	3	16.15	75.20	8.4	33.72	8.2	24.7	3.50
C4	15 Apr 2021	4	15.71	73.49	8.0	33.72	8.2	24.8	4.69
C4	15 Apr 2021	5	15.09	73.10	7.2	33.72	8.1	25.0	4.12
C4	15 Apr 2021	6	14.62	74.67	6.1	33.72	8.1	25.1	2.73
C4	15 Apr 2021	7	13.93	79.93	5.1	33.72	8.0	25.2	1.77
C4	15 Apr 2021	8	13.56	81.43	4.5	33.70	7.9	25.3	1.34
C4	15 Apr 2021	9	13.33	80.85	4.2	33.68	7.8	25.3	1.07
C4	15 Apr 2021	10	13.31	78.78	4.2	33.67	7.8	25.3	0.99
C4	20 Apr 2021	1	16.85	71.16	8.2	33.67	8.2	24.4	1.29
C4	20 Apr 2021	2	16.80	73.39	8.1	33.70	8.2	24.6	1.87
C4	20 Apr 2021	3	16.24	73.04	7.7	33.74	8.2	24.7	2.67
C4	20 Apr 2021	4	15.67	70.44	7.2	33.74	8.1	24.8	1.71
C4	20 Apr 2021	5	14.80	68.97	6.6	33.76	8.1	25.1	1.36
C4	20 Apr 2021	6	13.88	77.09	6.0	33.74	8.1	25.2	1.42
C4	20 Apr 2021	7	12.88	79.81	5.3	33.75	8.0	25.4	1.15
C4	20 Apr 2021	8	12.23	78.94	4.8	33.72	7.9	25.5	0.85
C4	20 Apr 2021	9	12.11	69.49	4.8	33.68	7.8	25.5	0.76
C4	20 Apr 2021	10	12.96	68.99	5.2	33.65	7.9	25.4	0.88
C4	27 Apr 2021	1	15.51	75.93	7.6	33.72	8.2	24.9	0.64
C4	27 Apr 2021	2	15.10	74.73	7.6	33.73	8.2	25.0	0.81
C4	27 Apr 2021	3	14.61	79.56	7.5	33.72	8.1	25.1	1.07
C4	27 Apr 2021	4	14.25	80.01	7.3	33.71	8.1	25.1	1.27
C4	27 Apr 2021	5	13.65	81.18	6.6	33.73	8.1	25.3	1.22
C4	27 Apr 2021	6	12.14	83.11	5.4	33.78	8.0	25.6	1.03
C4	27 Apr 2021	7	11.48	83.52	4.9	33.70	7.9	25.7	0.78
C4	27 Apr 2021	8	11.23	83.23	4.7	33.72	7.9	25.7	0.65
C4	27 Apr 2021	9	11.14	82.47	4.5	33.72	7.9	25.8	0.55
C4	27 Apr 2021	10	11.10	81.72	4.5	33.72	7.8	25.8	0.52
C4	27 Apr 2021	11	11.18	80.82	4.6	33.73	7.9	25.8	0.54
C5	01 Apr 2021	1	15.00	81.56	8.0	33.63	8.0	24.9	0.96
C5	01 Apr 2021	2	14.97	81.81	8.0	33.64	8.0	24.9	0.98
C5	01 Apr 2021	3	14.90	81.54	8.0	33.64	8.0	24.9	1.12
C5	01 Apr 2021	4	14.77	81.25	7.8	33.64	8.0	25.0	1.34
C5	01 Apr 2021	5	14.69	81.58	7.7	33.64	8.0	25.0	1.44
C5	01 Apr 2021	6	14.40	82.45	7.5	33.65	8.0	25.1	1.32
C5	01 Apr 2021	7	14.07	82.98	7.1	33.68	8.0	25.2	1.22

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
C5	01 Apr 2021	8	13.27	83.95	6.6	33.70	7.9	25.3	0.94
C5	01 Apr 2021	9	13.05	84.34	6.3	33.71	7.9	25.4	0.79
C5	01 Apr 2021	10	12.22	83.73	6.0	33.73	7.8	25.6	0.63
C5	01 Apr 2021	11	12.17	83.16	5.9	33.70	7.8	25.5	0.59
C5	06 Apr 2021	1	15.55	78.72	8.0	33.63	8.1	24.8	1.07
C5	06 Apr 2021	2	15.51	78.37	8.0	33.63	8.1	24.8	1.18
C5	06 Apr 2021	3	15.46	77.88	7.9	33.63	8.1	24.8	1.28
C5	06 Apr 2021	4	15.32	78.87	7.7	33.64	8.1	24.9	1.29
C5	06 Apr 2021	5	14.73	79.64	7.5	33.69	8.1	25.0	1.22
C5	06 Apr 2021	6	14.68	78.01	7.2	33.62	8.0	25.0	1.21
C5	06 Apr 2021	7	13.74	81.19	6.7	33.75	8.0	25.3	1.19
C5	06 Apr 2021	8	13.34	82.11	6.4	33.70	8.0	25.3	1.11
C5	06 Apr 2021	9	13.18	80.54	6.2	33.69	8.0	25.3	1.01
C5	06 Apr 2021	10	12.78	74.29	6.0	33.73	8.0	25.5	0.88
C5	06 Apr 2021	11	12.65	64.52	5.8	33.69	7.9	25.4	0.90
C5	15 Apr 2021	1	16.03	72.21	8.9	33.69	8.2	24.7	4.76
C5	15 Apr 2021	2	16.00	71.87	8.8	33.69	8.2	24.7	5.75
C5	15 Apr 2021	3	15.74	70.26	8.4	33.71	8.2	24.8	9.14
C5	15 Apr 2021	4	15.36	67.73	8.1	33.70	8.2	24.9	8.97
C5	15 Apr 2021	5	14.92	68.23	7.5	33.70	8.1	25.0	7.04
C5	15 Apr 2021	6	14.32	72.69	7.0	33.70	8.1	25.1	4.97
C5	15 Apr 2021	7	14.17	74.70	6.6	33.68	8.0	25.1	3.67
C5	15 Apr 2021	8	13.86	75.98	6.1	33.71	8.0	25.2	2.59
C5	15 Apr 2021	9	13.21	80.78	5.6	33.70	8.0	25.3	1.69
C5	15 Apr 2021	10	12.66	81.30	5.4	33.69	7.9	25.4	1.31
C5	15 Apr 2021	11	12.97	79.61	5.6	33.64	7.9	25.3	1.34
C5	20 Apr 2021	1	16.75	72.75	8.6	33.69	8.2	24.6	2.41
C5	20 Apr 2021	2	16.74	75.79	8.6	33.69	8.2	24.6	3.11
C5	20 Apr 2021	3	16.71	75.57	8.5	33.69	8.2	24.6	3.86
C5	20 Apr 2021	4	16.57	74.39	8.1	33.70	8.2	24.6	5.00
C5	20 Apr 2021	5	15.51	77.65	6.9	33.80	8.2	24.9	3.75
C5	20 Apr 2021	6	14.01	80.41	6.1	33.77	8.1	25.2	2.07
C5	20 Apr 2021	7	13.27	80.54	5.8	33.72	8.0	25.3	1.30
C5	20 Apr 2021	8	13.13	77.30	5.5	33.69	8.0	25.4	0.95
C5	20 Apr 2021	9	12.63	70.63	5.2	33.72	7.9	25.5	0.80
C5	20 Apr 2021	10	12.37	65.24	5.0	33.68	7.9	25.5	0.72
C5	20 Apr 2021	11	12.38	63.30	5.0	33.68	7.9	25.5	0.79
C5	27 Apr 2021	1	15.07	78.91	8.0	33.70	8.2	25.0	1.09
C5	27 Apr 2021	2	14.98	79.09	7.9	33.71	8.2	25.0	1.25
C5	27 Apr 2021	3	14.86	78.44	7.8	33.71	8.2	25.0	1.59
C5	27 Apr 2021	4	14.64	79.78	7.5	33.69	8.1	25.0	1.87
C5	27 Apr 2021	5	14.08	81.18	6.8	33.80	8.1	25.2	1.93
C5	27 Apr 2021	6	12.74	81.19	6.1	33.76	8.1	25.5	2.15
C5	27 Apr 2021	7	12.66	80.41	5.9	33.68	8.0	25.4	2.49
C5	27 Apr 2021	8	12.49	82.37	5.7	33.75	8.0	25.5	2.17
C5	27 Apr 2021	9	11.94	82.68	5.4	33.73	8.0	25.6	1.58
C5	27 Apr 2021	10	12.05	80.61	5.5	33.70	7.9	25.6	1.15
C6	01 Apr 2021	1	15.44	81.05	7.9	33.63	8.1	24.8	0.67
C6	01 Apr 2021	2	15.23	80.92	8.0	33.66	8.1	24.9	0.73
C6	01 Apr 2021	3	14.99	80.99	8.0	33.64	8.0	24.9	1.05
C6	01 Apr 2021	4	14.91	80.90	7.9	33.64	8.0	24.9	1.38
C6	01 Apr 2021	5	14.70	80.75	7.7	33.66	8.0	25.0	1.67
C6	01 Apr 2021	6	14.41	81.34	7.4	33.66	8.0	25.1	1.75
C6	01 Apr 2021	7	14.09	82.58	6.9	33.70	8.0	25.2	1.60
C6	01 Apr 2021	8	13.12	83.94	6.5	33.78	7.9	25.4	1.02
C6	01 Apr 2021	9	13.14	84.70	6.6	33.64	7.9	25.3	0.69

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C6	06 Apr 2021	1	15.59	75.69	7.6	33.63	8.1	24.8	1.04
C6	06 Apr 2021	2	15.57	76.20	7.7	33.63	8.1	24.8	1.14
C6	06 Apr 2021	3	15.55	76.61	7.7	33.63	8.1	24.8	1.22
C6	06 Apr 2021	4	15.51	76.62	7.4	33.63	8.1	24.8	1.24
C6	06 Apr 2021	5	14.91	77.99	7.1	33.70	8.1	25.0	1.10
C6	06 Apr 2021	6	14.81	80.50	6.9	33.61	8.0	24.9	1.04
C6	06 Apr 2021	7	14.04	80.81	6.2	33.74	8.0	25.2	0.94
C6	06 Apr 2021	8	13.20	81.23	5.6	33.72	7.9	25.4	0.77
C6	06 Apr 2021	9	12.77	78.02	5.4	33.71	7.9	25.4	0.71
C6	06 Apr 2021	10	13.11	74.68	5.7	33.66	7.9	25.3	0.72
C6	15 Apr 2021	1	16.35	76.51	8.3	33.70	8.2	24.7	1.83
C6	15 Apr 2021	2	16.37	76.44	8.3	33.71	8.2	24.7	2.26
C6	15 Apr 2021	3	16.07	75.88	8.0	33.73	8.2	24.8	3.95
C6	15 Apr 2021	4	14.97	72.55	7.5	33.73	8.1	25.0	4.67
C6	15 Apr 2021	5	14.55	74.41	7.2	33.70	8.1	25.1	3.88
C6	15 Apr 2021	6	14.19	77.33	6.8	33.70	8.1	25.1	3.06
C6	15 Apr 2021	7	13.70	79.48	6.1	33.70	8.0	25.2	2.29
C6	15 Apr 2021	8	12.71	81.02	5.4	33.72	8.0	25.5	1.51
C6	15 Apr 2021	9	12.49	82.18	5.3	33.67	7.9	25.5	1.19
C6	20 Apr 2021	1	17.00	73.12	7.4	33.69	8.2	24.5	1.09
C6	20 Apr 2021	2	17.00	72.62	7.5	33.69	8.2	24.5	1.17
C6	20 Apr 2021	3	16.81	73.76	7.3	33.71	8.2	24.6	1.71
C6	20 Apr 2021	4	16.16	74.40	6.8	33.72	8.1	24.7	2.61
C6	20 Apr 2021	5	14.83	76.45	6.1	33.79	8.1	25.1	1.87
C6	20 Apr 2021	6	14.36	79.79	5.8	33.65	8.0	25.1	1.41
C6	20 Apr 2021	7	13.08	79.57	5.0	33.77	8.0	25.4	1.00
C6	20 Apr 2021	8	12.45	76.25	4.7	33.67	7.9	25.5	0.78
C6	20 Apr 2021	9	12.74	73.93	4.9	33.63	7.9	25.4	0.70
C6	27 Apr 2021	1	15.43	75.22	8.2	33.71	8.2	24.9	1.71
C6	27 Apr 2021	2	15.26	75.53	8.2	33.70	8.2	24.9	2.03
C6	27 Apr 2021	3	15.23	75.44	8.2	33.70	8.2	24.9	2.33
C6	27 Apr 2021	4	15.08	76.12	8.1	33.71	8.2	25.0	2.88
C6	27 Apr 2021	5	14.92	77.56	7.6	33.71	8.2	25.0	3.14
C6	27 Apr 2021	6	13.09	80.16	6.2	33.80	8.1	25.4	2.78
C6	27 Apr 2021	7	12.45	80.40	5.7	33.73	8.0	25.5	2.87
C6	27 Apr 2021	8	12.18	82.86	5.5	33.71	8.0	25.6	2.24
C6	27 Apr 2021	9	12.07	82.08	5.6	33.70	7.9	25.6	1.59
C6	27 Apr 2021	10	12.23	80.26	5.7	33.69	8.0	25.5	1.36
C7	01 Apr 2021	1	15.06	82.92	8.6	33.60	8.0	24.9	0.91
C7	01 Apr 2021	2	15.03	82.70	8.6	33.60	8.0	24.9	0.95
C7	01 Apr 2021	3	14.96	82.31	8.6	33.59	8.0	24.9	1.09
C7	01 Apr 2021	4	14.91	82.24	8.5	33.60	8.0	24.9	1.23
C7	01 Apr 2021	5	14.83	82.19	8.4	33.60	8.0	24.9	1.36
C7	01 Apr 2021	6	14.73	82.00	8.3	33.60	8.0	25.0	1.52
C7	01 Apr 2021	7	14.58	81.75	8.3	33.61	8.0	25.0	1.73
C7	01 Apr 2021	8	14.56	81.59	8.3	33.60	8.0	25.0	1.97
C7	01 Apr 2021	9	14.58	81.59	8.3	33.59	8.0	25.0	1.99
C7	01 Apr 2021	10	14.49	81.16	8.2	33.61	8.0	25.0	2.12
C7	01 Apr 2021	11	14.43	81.08	8.1	33.61	8.0	25.0	2.25
C7	01 Apr 2021	12	14.31	80.59	7.9	33.63	8.0	25.1	2.42
C7	01 Apr 2021	13	14.27	80.61	7.7	33.62	8.0	25.1	2.52
C7	01 Apr 2021	14	13.86	81.01	7.2	33.68	8.0	25.2	2.47
C7	01 Apr 2021	15	13.09	81.82	6.6	33.72	7.9	25.4	2.15
C7	01 Apr 2021	16	12.74	84.02	5.9	33.71	7.9	25.4	1.79
C7	01 Apr 2021	17	11.70	85.42	5.1	33.75	7.8	25.7	1.17

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
C7	06 Apr 2021	1	15.75	79.67	8.3	33.62	8.1	24.7	1.83
C7	06 Apr 2021	2	15.75	79.68	8.3	33.62	8.1	24.7	1.92
C7	06 Apr 2021	3	15.67	78.73	8.3	33.62	8.1	24.8	2.67
C7	06 Apr 2021	4	15.56	77.72	8.3	33.63	8.1	24.8	3.31
C7	06 Apr 2021	5	15.21	76.98	8.0	33.64	8.1	24.9	3.48
C7	06 Apr 2021	6	14.78	77.63	7.8	33.65	8.1	25.0	3.53
C7	06 Apr 2021	7	14.43	78.16	7.5	33.66	8.1	25.1	3.50
C7	06 Apr 2021	8	13.71	79.67	7.2	33.67	8.0	25.2	3.02
C7	06 Apr 2021	9	13.47	81.17	6.9	33.64	8.0	25.2	2.83
C7	06 Apr 2021	10	13.09	81.93	6.6	33.65	8.0	25.3	2.53
C7	06 Apr 2021	11	12.92	82.45	6.4	33.65	8.0	25.4	2.50
C7	06 Apr 2021	12	12.68	82.85	6.1	33.67	8.0	25.4	2.22
C7	06 Apr 2021	13	12.42	83.71	5.8	33.67	7.9	25.5	1.86
C7	06 Apr 2021	14	12.27	84.37	5.7	33.67	7.9	25.5	1.51
C7	06 Apr 2021	15	12.26	85.00	5.6	33.68	7.9	25.5	1.46
C7	06 Apr 2021	16	11.81	85.48	5.3	33.70	7.9	25.6	1.24
C7	06 Apr 2021	17	11.80	85.55	5.2	33.69	7.8	25.6	1.11
C7	06 Apr 2021	18	11.80	85.29	5.2	33.69	7.8	25.6	0.95
C7	13 Apr 2021	1	17.28	73.35	8.4	33.65	8.2	24.4	3.24
C7	13 Apr 2021	2	17.28	75.79	8.4	33.67	8.2	24.4	3.41
C7	13 Apr 2021	3	17.28	76.24	8.5	33.67	8.2	24.4	3.76
C7	13 Apr 2021	4	17.28	76.29	8.4	33.67	8.2	24.4	3.88
C7	13 Apr 2021	5	17.09	76.10	8.0	33.70	8.2	24.5	4.46
C7	13 Apr 2021	6	15.92	73.67	7.6	33.78	8.2	24.8	6.03
C7	13 Apr 2021	7	14.69	70.74	7.4	33.77	8.1	25.1	7.21
C7	13 Apr 2021	8	14.07	68.75	7.4	33.69	8.1	25.2	7.80
C7	13 Apr 2021	9	13.85	71.05	7.2	33.68	8.1	25.2	7.32
C7	13 Apr 2021	10	13.76	72.60	7.1	33.66	8.1	25.2	6.18
C7	13 Apr 2021	11	13.74	73.62	7.0	33.66	8.0	25.2	5.39
C7	13 Apr 2021	12	13.71	75.19	6.8	33.66	8.0	25.2	4.84
C7	13 Apr 2021	13	13.58	76.34	6.6	33.68	8.0	25.3	4.33
C7	13 Apr 2021	14	13.31	77.97	6.4	33.69	8.0	25.3	3.70
C7	13 Apr 2021	15	13.21	80.74	6.0	33.68	8.0	25.3	2.83
C7	13 Apr 2021	16	13.00	83.00	5.4	33.70	7.9	25.4	2.01
C7	13 Apr 2021	17	12.46	84.74	5.2	33.72	7.9	25.5	1.49
C7	13 Apr 2021	18	12.24	85.19	5.2	33.68	7.9	25.5	1.18
C7	20 Apr 2021	1	16.82	73.94	8.9	33.69	8.2	24.6	3.25
C7	20 Apr 2021	2	16.81	73.76	8.9	33.69	8.2	24.6	3.76
C7	20 Apr 2021	3	16.77	72.05	8.6	33.69	8.2	24.6	4.48
C7	20 Apr 2021	4	15.38	72.90	7.5	33.79	8.2	25.0	5.10
C7	20 Apr 2021	5	14.37	74.09	6.9	33.68	8.1	25.1	5.44
C7	20 Apr 2021	6	13.74	73.53	6.4	33.75	8.0	25.3	6.31
C7	20 Apr 2021	7	12.89	73.80	6.0	33.69	8.0	25.4	7.07
C7	20 Apr 2021	8	12.51	78.27	5.7	33.65	7.9	25.4	6.01
C7	20 Apr 2021	9	12.35	79.49	5.6	33.66	7.9	25.5	4.89
C7	20 Apr 2021	10	11.99	81.19	5.3	33.66	7.9	25.5	3.96
C7	20 Apr 2021	11	11.92	82.47	5.3	33.65	7.9	25.6	3.23
C7	20 Apr 2021	12	11.91	82.79	5.2	33.65	7.9	25.6	2.98
C7	20 Apr 2021	13	11.82	83.03	5.1	33.66	7.9	25.6	2.56
C7	20 Apr 2021	14	11.52	84.51	4.9	33.69	7.8	25.7	2.12
C7	20 Apr 2021	15	11.27	85.52	4.7	33.71	7.8	25.7	1.46
C7	20 Apr 2021	16	11.16	85.38	4.6	33.71	7.8	25.7	0.99
C7	20 Apr 2021	17	11.06	85.03	4.5	33.73	7.8	25.8	0.71
C7	20 Apr 2021	18	11.05	84.80	4.5	33.72	7.8	25.8	0.67
C7	27 Apr 2021	1	15.44	78.80	8.1	33.68	8.2	24.9	1.00
C7	27 Apr 2021	2	15.41	78.72	8.2	33.68	8.2	24.9	1.08
C7	27 Apr 2021	3	15.36	78.43	8.1	33.69	8.2	24.9	1.30
C7	27 Apr 2021	4	14.97	77.13	7.8	33.73	8.2	25.0	2.60

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C7	27 Apr 2021	5	14.35	72.34	7.3	33.72	8.1	25.1	5.86
C7	27 Apr 2021	6	13.23	71.69	6.9	33.78	8.1	25.4	9.99
C7	27 Apr 2021	7	13.01	73.72	6.5	33.68	8.0	25.4	12.01
C7	27 Apr 2021	8	12.00	78.32	5.8	33.75	8.0	25.6	8.28
C7	27 Apr 2021	9	11.83	79.97	5.5	33.69	7.9	25.6	5.95
C7	27 Apr 2021	10	11.79	80.59	5.4	33.68	7.9	25.6	5.13
C7	27 Apr 2021	11	11.72	81.32	5.4	33.69	7.9	25.6	4.31
C7	27 Apr 2021	12	11.64	82.31	5.3	33.69	7.9	25.6	3.55
C7	27 Apr 2021	13	11.46	84.04	5.2	33.70	7.9	25.7	2.76
C7	27 Apr 2021	14	11.30	84.60	5.0	33.70	7.9	25.7	2.06
C7	27 Apr 2021	15	10.96	85.49	4.8	33.75	7.9	25.8	1.49
C7	27 Apr 2021	16	10.92	85.71	4.7	33.73	7.8	25.8	1.06
C7	27 Apr 2021	17	10.94	85.65	4.7	33.73	7.8	25.8	1.01
C7	27 Apr 2021	18	10.89	86.19	4.6	33.74	7.8	25.8	0.83
C7	27 Apr 2021	19	10.95	86.02	4.7	33.73	7.8	25.8	0.87
C8	01 Apr 2021	1	15.33	83.42	8.5	33.59	8.0	24.8	0.75
C8	01 Apr 2021	2	15.20	83.35	8.5	33.60	8.0	24.8	0.79
C8	01 Apr 2021	3	15.12	83.07	8.5	33.59	8.0	24.9	0.90
C8	01 Apr 2021	4	15.05	82.79	8.4	33.59	8.0	24.9	1.10
C8	01 Apr 2021	5	14.99	82.52	8.3	33.60	8.0	24.9	1.37
C8	01 Apr 2021	6	14.82	81.39	8.2	33.61	8.0	24.9	1.77
C8	01 Apr 2021	7	14.76	79.64	8.0	33.60	8.0	24.9	2.13
C8	01 Apr 2021	8	14.54	78.81	7.9	33.62	8.0	25.0	2.41
C8	01 Apr 2021	9	14.39	77.77	7.7	33.61	8.0	25.0	2.71
C8	01 Apr 2021	10	14.13	77.55	7.6	33.62	8.0	25.1	2.84
C8	01 Apr 2021	11	14.07	78.04	7.5	33.61	8.0	25.1	3.04
C8	01 Apr 2021	12	13.87	78.32	7.4	33.64	8.0	25.2	3.13
C8	01 Apr 2021	13	13.50	79.52	7.3	33.65	8.0	25.2	3.05
C8	01 Apr 2021	14	13.18	81.24	6.8	33.67	7.9	25.3	2.79
C8	01 Apr 2021	15	12.60	81.77	6.2	33.69	7.9	25.5	2.50
C8	01 Apr 2021	16	12.28	82.72	5.7	33.71	7.8	25.5	2.27
C8	01 Apr 2021	17	11.92	84.23	5.5	33.70	7.8	25.6	1.73
C8	01 Apr 2021	18	11.92	84.27	5.4	33.70	7.8	25.6	1.52
C8	01 Apr 2021	19	11.89	84.42	5.4	33.70	7.8	25.6	1.48
C8	06 Apr 2021	1	15.47	75.97	8.4	33.62	8.1	24.8	2.27
C8	06 Apr 2021	2	15.39	75.63	8.3	33.63	8.1	24.8	2.58
C8	06 Apr 2021	3	14.91	75.44	8.0	33.66	8.1	25.0	3.08
C8	06 Apr 2021	4	14.54	77.07	7.7	33.63	8.1	25.0	3.21
C8	06 Apr 2021	5	14.15	78.37	7.3	33.66	8.1	25.1	3.25
C8	06 Apr 2021	6	13.53	79.26	6.9	33.67	8.0	25.3	3.07
C8	06 Apr 2021	7	13.43	80.73	6.8	33.62	8.0	25.2	2.88
C8	06 Apr 2021	8	12.96	81.80	6.4	33.69	8.0	25.4	2.80
C8	06 Apr 2021	9	12.53	83.25	6.0	33.66	7.9	25.4	2.35
C8	06 Apr 2021	10	12.31	84.26	5.8	33.67	7.9	25.5	2.16
C8	06 Apr 2021	11	12.30	84.32	5.7	33.66	7.9	25.5	2.07
C8	06 Apr 2021	12	12.05	84.36	5.5	33.70	7.9	25.6	1.74
C8	06 Apr 2021	13	11.85	84.70	5.3	33.68	7.9	25.6	1.47
C8	06 Apr 2021	14	11.89	84.87	5.3	33.69	7.8	25.6	1.44
C8	06 Apr 2021	15	11.78	84.97	5.2	33.69	7.8	25.6	1.34
C8	06 Apr 2021	16	11.78	85.04	5.2	33.69	7.8	25.6	1.38
C8	06 Apr 2021	17	11.79	84.94	5.2	33.69	7.8	25.6	1.29
C8	06 Apr 2021	18	11.78	84.87	5.2	33.69	7.8	25.6	1.23
C8	06 Apr 2021	19	11.79	84.85	5.2	33.69	7.8	25.6	1.35
C8	13 Apr 2021	1	17.38	75.95	8.7	33.67	8.2	24.4	2.89
C8	13 Apr 2021	2	17.38	76.35	8.7	33.67	8.2	24.4	3.03
C8	13 Apr 2021	3	17.31	76.22	8.6	33.67	8.2	24.4	3.55
C8	13 Apr 2021	4	16.86	75.08	8.2	33.72	8.2	24.6	4.82
C8	13 Apr 2021	5	15.26	71.55	7.8	33.76	8.2	25.0	7.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C8	13 Apr 2021	6	14.25	68.06	7.7	33.70	8.1	25.1	8.45
C8	13 Apr 2021	7	14.08	68.21	7.8	33.66	8.1	25.1	8.52
C8	13 Apr 2021	8	13.83	68.18	7.6	33.66	8.1	25.2	8.40
C8	13 Apr 2021	9	13.62	70.48	7.4	33.65	8.1	25.2	7.72
C8	13 Apr 2021	10	13.58	72.19	7.3	33.66	8.1	25.2	6.94
C8	13 Apr 2021	11	13.53	73.56	7.1	33.66	8.1	25.3	6.15
C8	13 Apr 2021	12	13.39	75.65	6.8	33.68	8.0	25.3	5.12
C8	13 Apr 2021	13	13.22	77.95	6.5	33.68	8.0	25.3	4.07
C8	13 Apr 2021	14	13.15	79.41	6.3	33.67	8.0	25.3	3.42
C8	13 Apr 2021	15	12.92	81.26	6.0	33.72	8.0	25.4	2.92
C8	13 Apr 2021	16	12.46	83.22	5.7	33.70	7.9	25.5	2.35
C8	13 Apr 2021	17	12.24	83.85	5.6	33.69	7.9	25.5	2.18
C8	13 Apr 2021	18	12.16	84.07	5.6	33.67	7.9	25.5	1.90
C8	13 Apr 2021	19	12.15	84.11	5.6	33.67	7.9	25.5	1.83
C8	20 Apr 2021	1	16.85	72.30	8.7	33.68	8.2	24.5	2.89
C8	20 Apr 2021	2	16.85	75.42	8.7	33.68	8.2	24.5	3.13
C8	20 Apr 2021	3	16.84	75.60	8.7	33.69	8.2	24.5	3.36
C8	20 Apr 2021	4	16.48	75.84	8.4	33.71	8.2	24.6	3.52
C8	20 Apr 2021	5	15.09	75.96	7.3	33.77	8.2	25.0	4.14
C8	20 Apr 2021	6	13.19	73.49	6.4	33.66	8.0	25.3	6.41
C8	20 Apr 2021	7	12.82	73.78	6.0	33.70	8.0	25.4	7.20
C8	20 Apr 2021	8	12.36	76.84	5.6	33.65	7.9	25.5	6.23
C8	20 Apr 2021	9	12.28	80.44	5.5	33.64	7.9	25.5	5.04
C8	20 Apr 2021	10	12.25	82.27	5.5	33.65	7.9	25.5	4.43
C8	20 Apr 2021	11	11.93	83.45	5.2	33.65	7.9	25.6	2.92
C8	20 Apr 2021	12	11.87	84.15	5.2	33.66	7.9	25.6	2.37
C8	20 Apr 2021	13	11.75	84.46	5.2	33.65	7.9	25.6	2.12
C8	20 Apr 2021	14	11.72	84.13	5.2	33.66	7.9	25.6	2.04
C8	20 Apr 2021	15	11.65	84.07	5.1	33.66	7.9	25.6	1.94
C8	20 Apr 2021	16	11.53	84.22	5.0	33.67	7.9	25.6	1.51
C8	20 Apr 2021	17	11.46	84.15	4.9	33.68	7.8	25.7	1.19
C8	20 Apr 2021	18	11.45	83.97	4.9	33.68	7.8	25.7	1.09
C8	20 Apr 2021	19	11.46	83.87	4.9	33.68	7.8	25.7	1.01
C8	27 Apr 2021	1	15.26	77.75	8.1	33.66	8.2	24.9	1.02
C8	27 Apr 2021	2	15.18	78.62	8.0	33.67	8.2	24.9	1.21
C8	27 Apr 2021	3	14.99	77.26	7.8	33.68	8.2	25.0	1.58
C8	27 Apr 2021	4	14.71	76.71	7.3	33.72	8.1	25.0	1.80
C8	27 Apr 2021	5	14.07	76.61	6.8	33.68	8.1	25.2	2.14
C8	27 Apr 2021	6	13.53	76.55	6.3	33.77	8.1	25.3	2.62
C8	27 Apr 2021	7	12.54	77.77	5.8	33.74	8.0	25.5	3.18
C8	27 Apr 2021	8	12.58	79.39	5.7	33.69	8.0	25.5	3.43
C8	27 Apr 2021	9	11.98	79.45	5.5	33.73	8.0	25.6	4.36
C8	27 Apr 2021	10	11.66	80.38	5.3	33.69	7.9	25.6	4.85
C8	27 Apr 2021	11	11.68	80.97	5.3	33.69	7.9	25.6	4.84
C8	27 Apr 2021	12	11.57	81.67	5.2	33.69	7.9	25.7	4.02
C8	27 Apr 2021	13	11.52	82.78	5.1	33.70	7.9	25.7	3.29
C8	27 Apr 2021	14	11.47	84.39	5.0	33.71	7.9	25.7	2.62
C8	27 Apr 2021	15	11.05	85.38	4.7	33.74	7.9	25.8	1.36
C8	27 Apr 2021	16	10.97	85.71	4.6	33.73	7.8	25.8	0.91
C8	27 Apr 2021	17	10.98	85.67	4.6	33.73	7.8	25.8	0.76
C8	27 Apr 2021	18	11.01	85.68	4.6	33.73	7.8	25.8	0.77
C8	27 Apr 2021	19	10.97	85.58	4.6	33.74	7.8	25.8	0.71
C8	27 Apr 2021	20	10.98	85.68	4.6	33.74	7.8	25.8	0.72

NA = not available

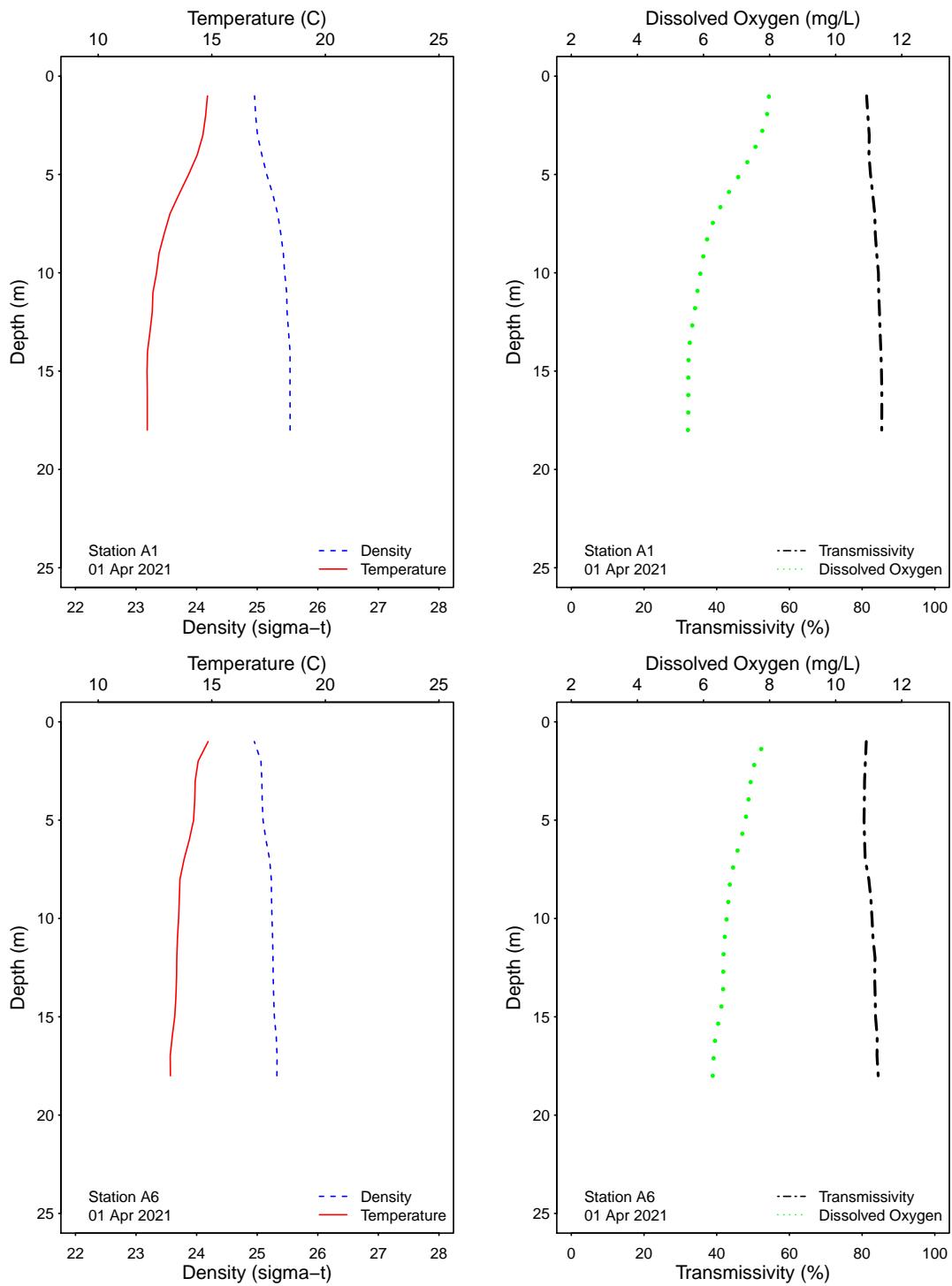


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

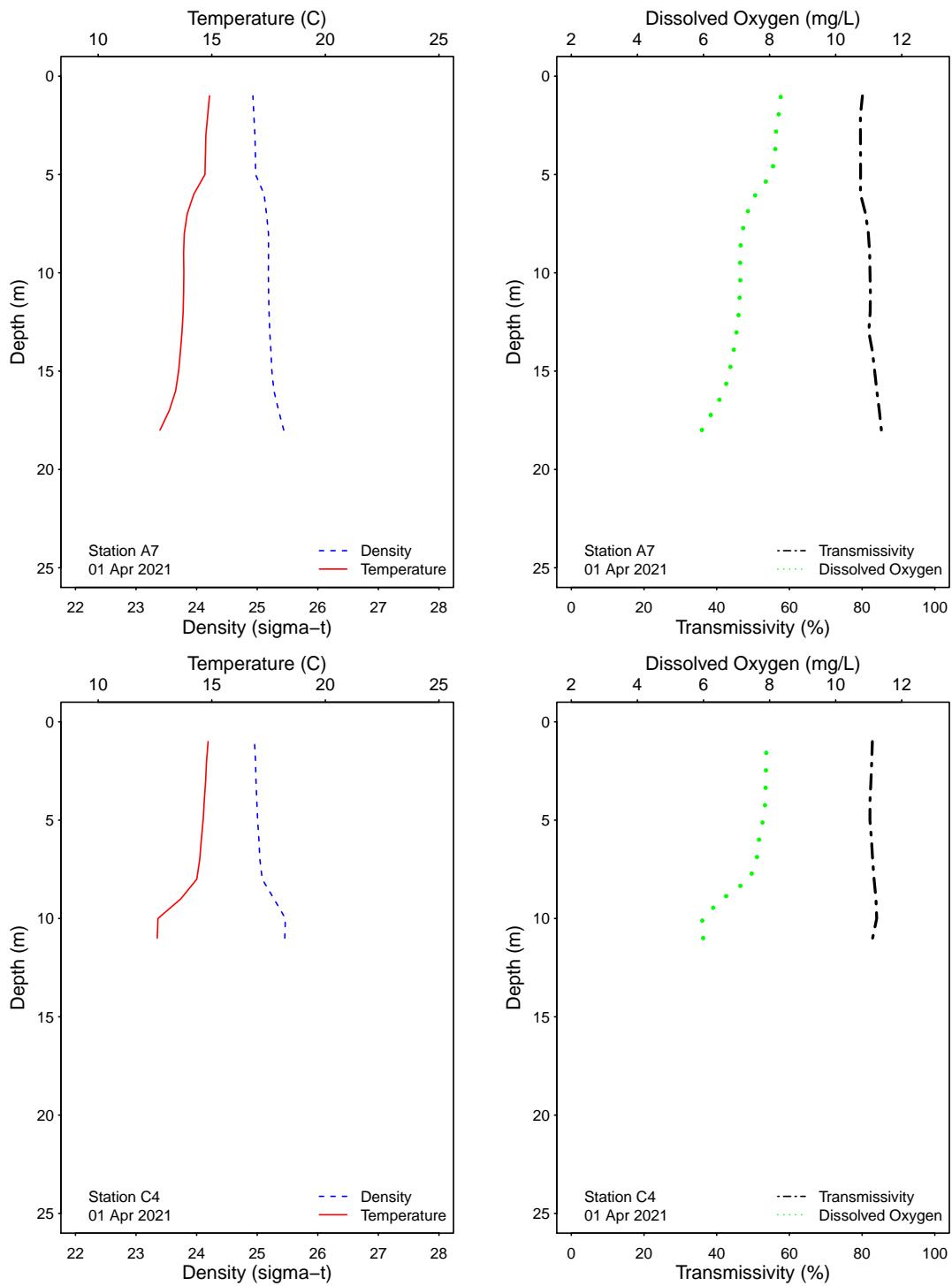


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

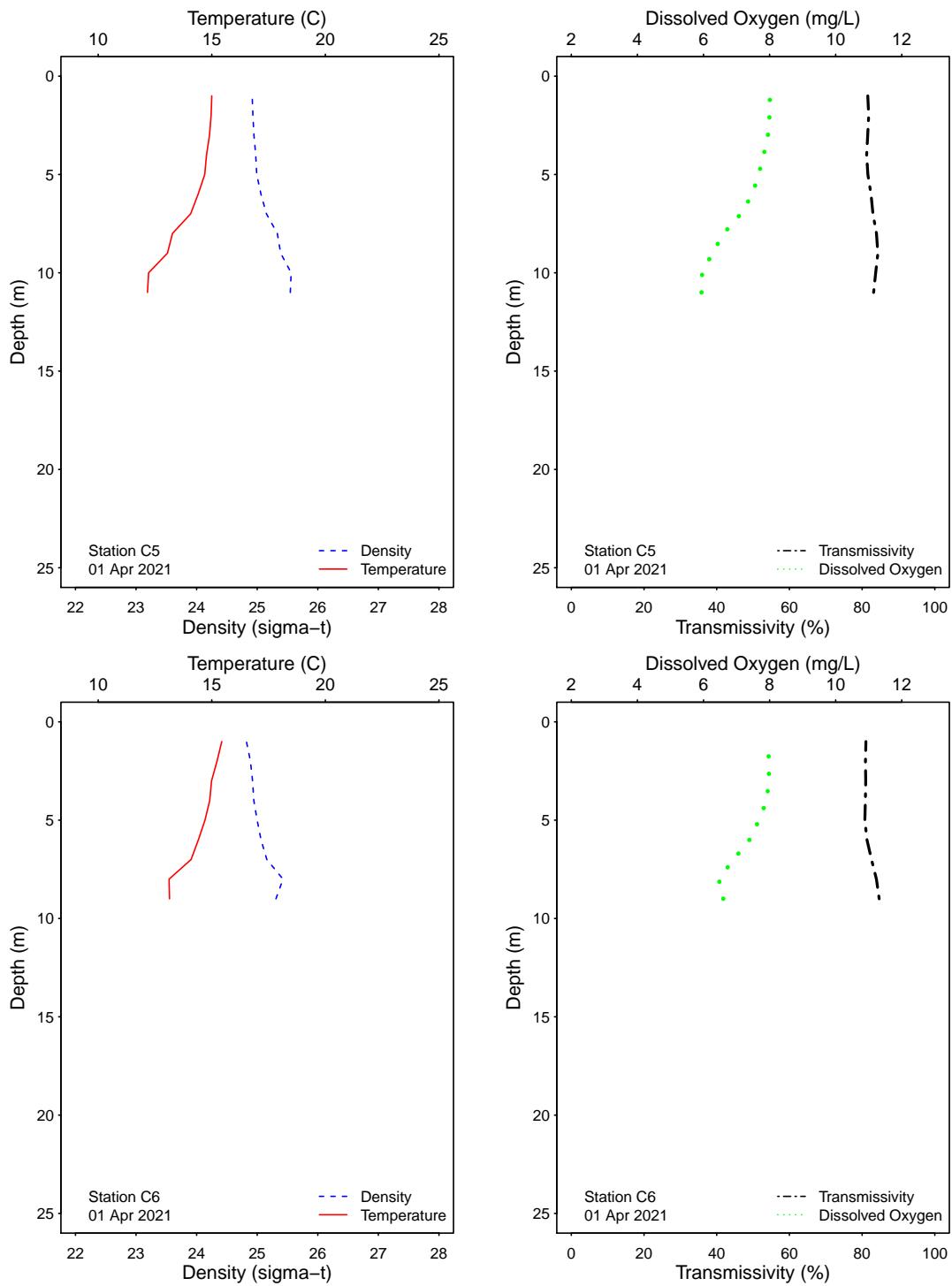


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

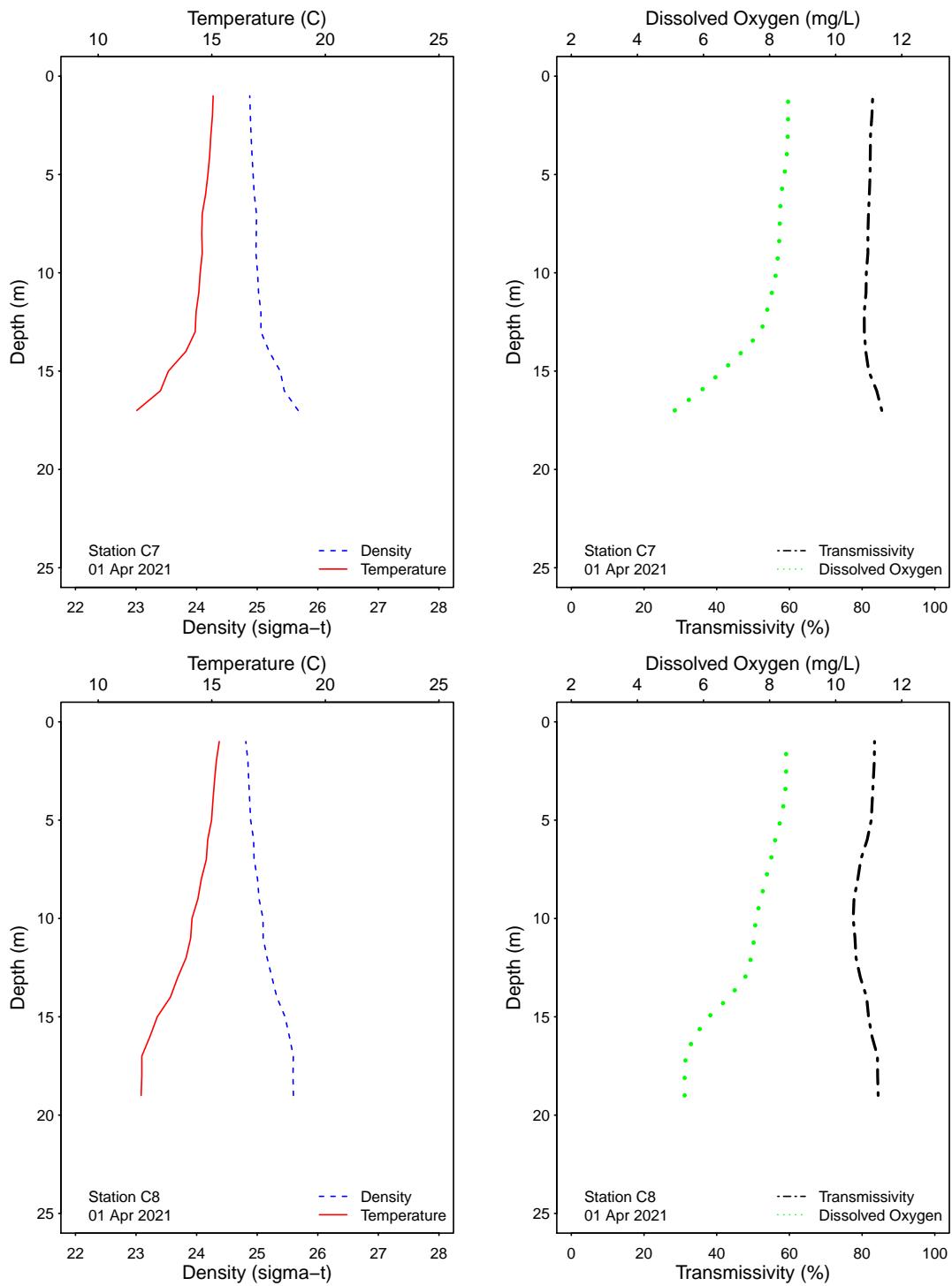


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

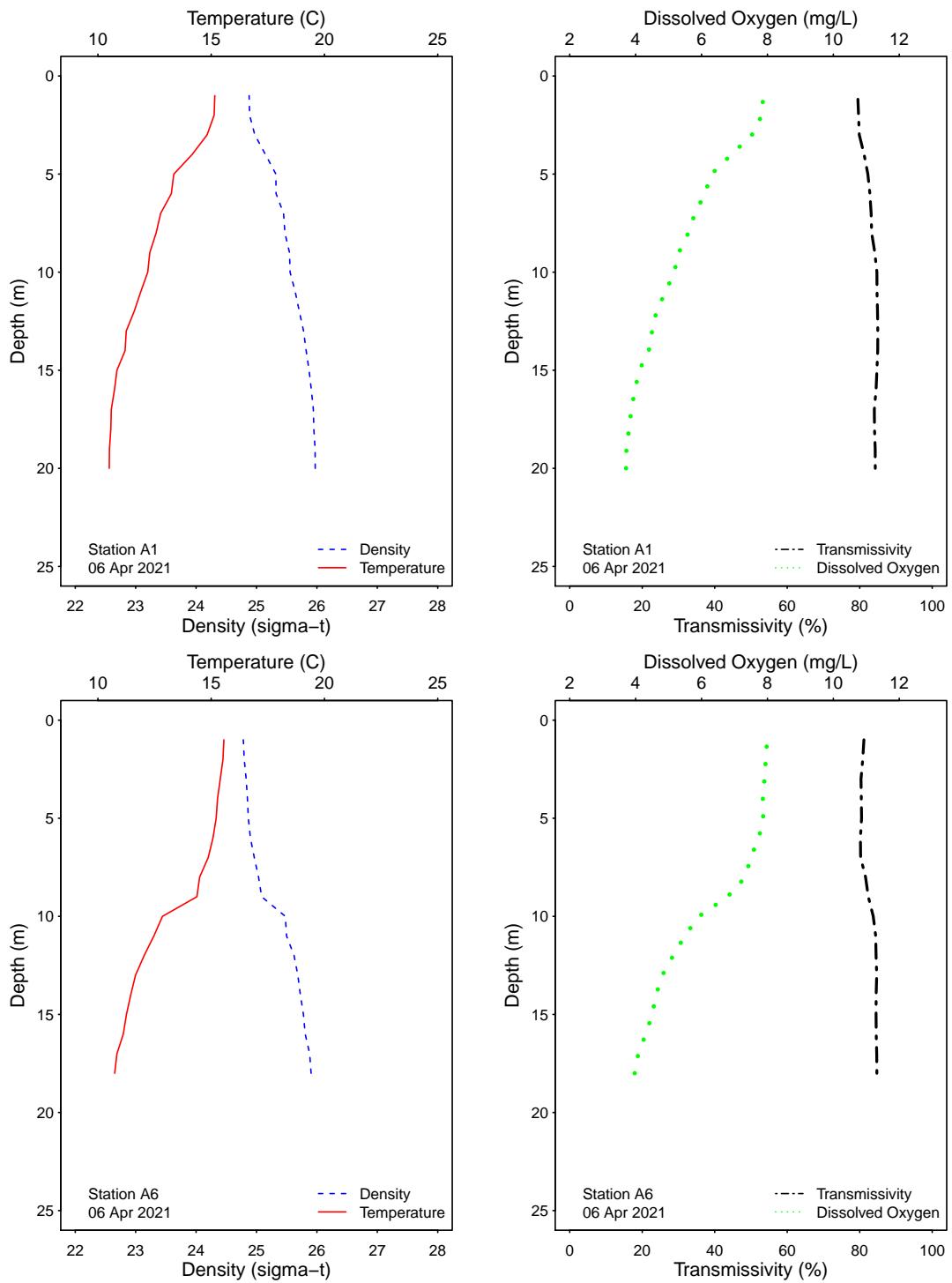


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

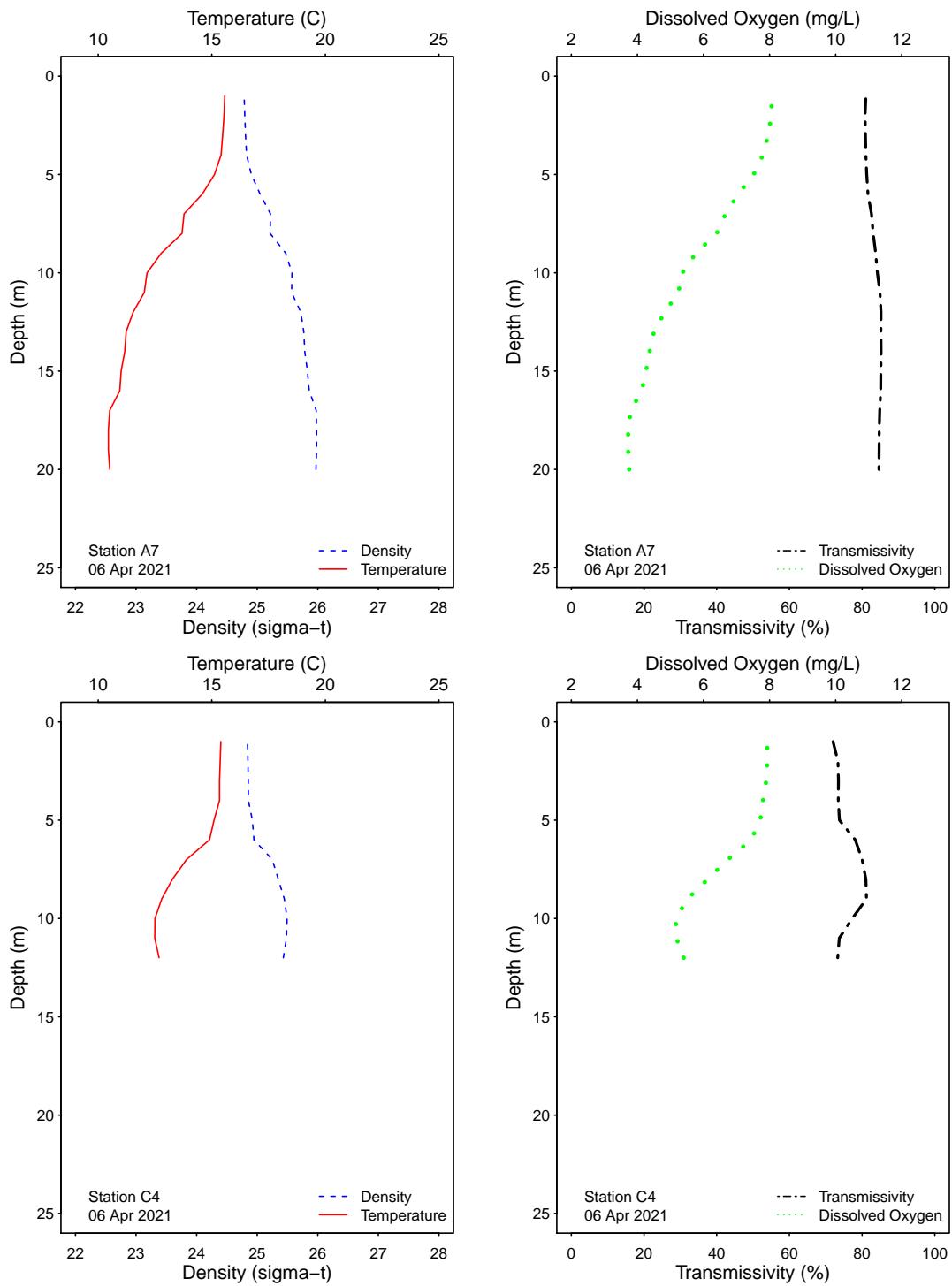


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

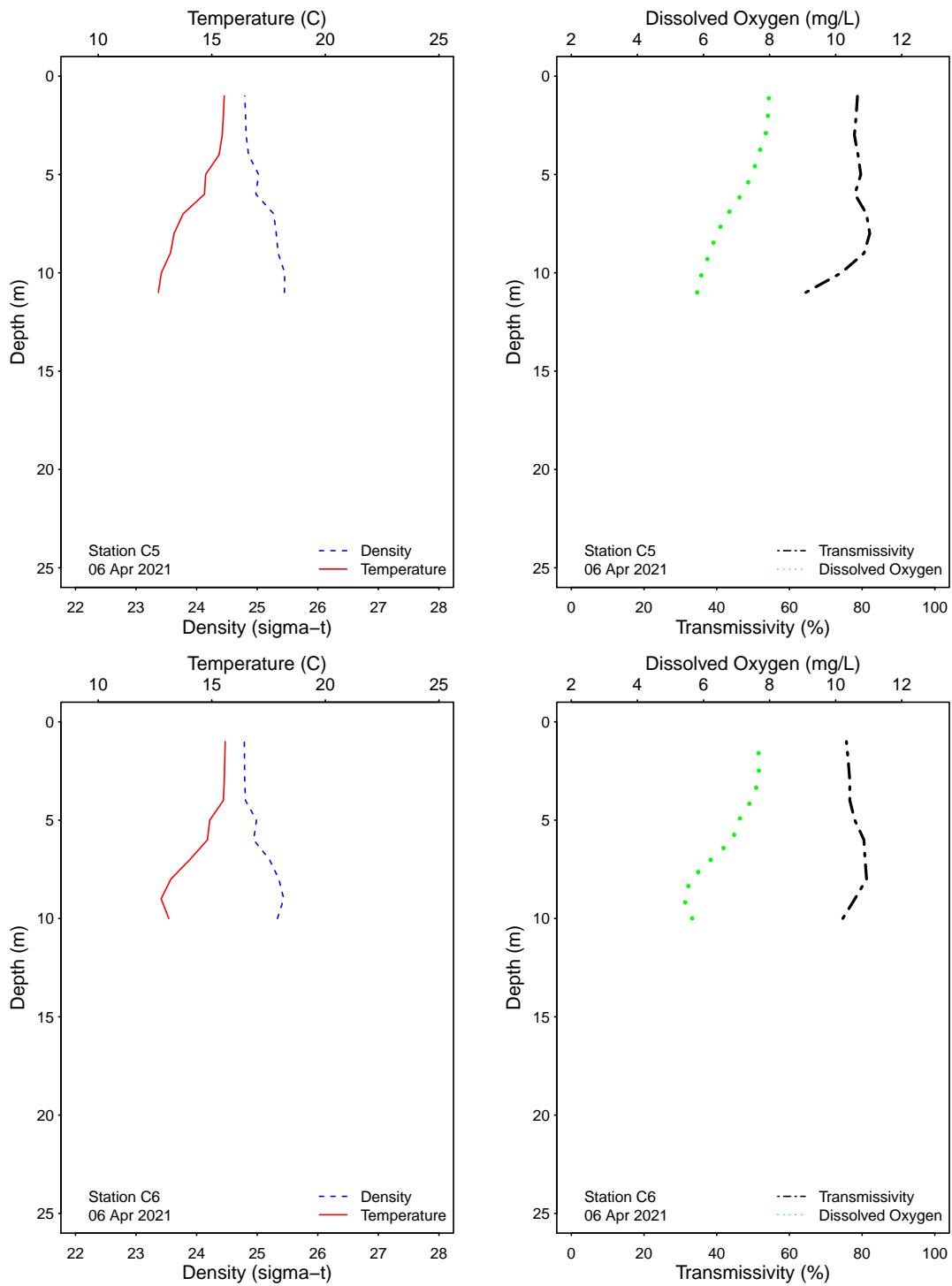


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

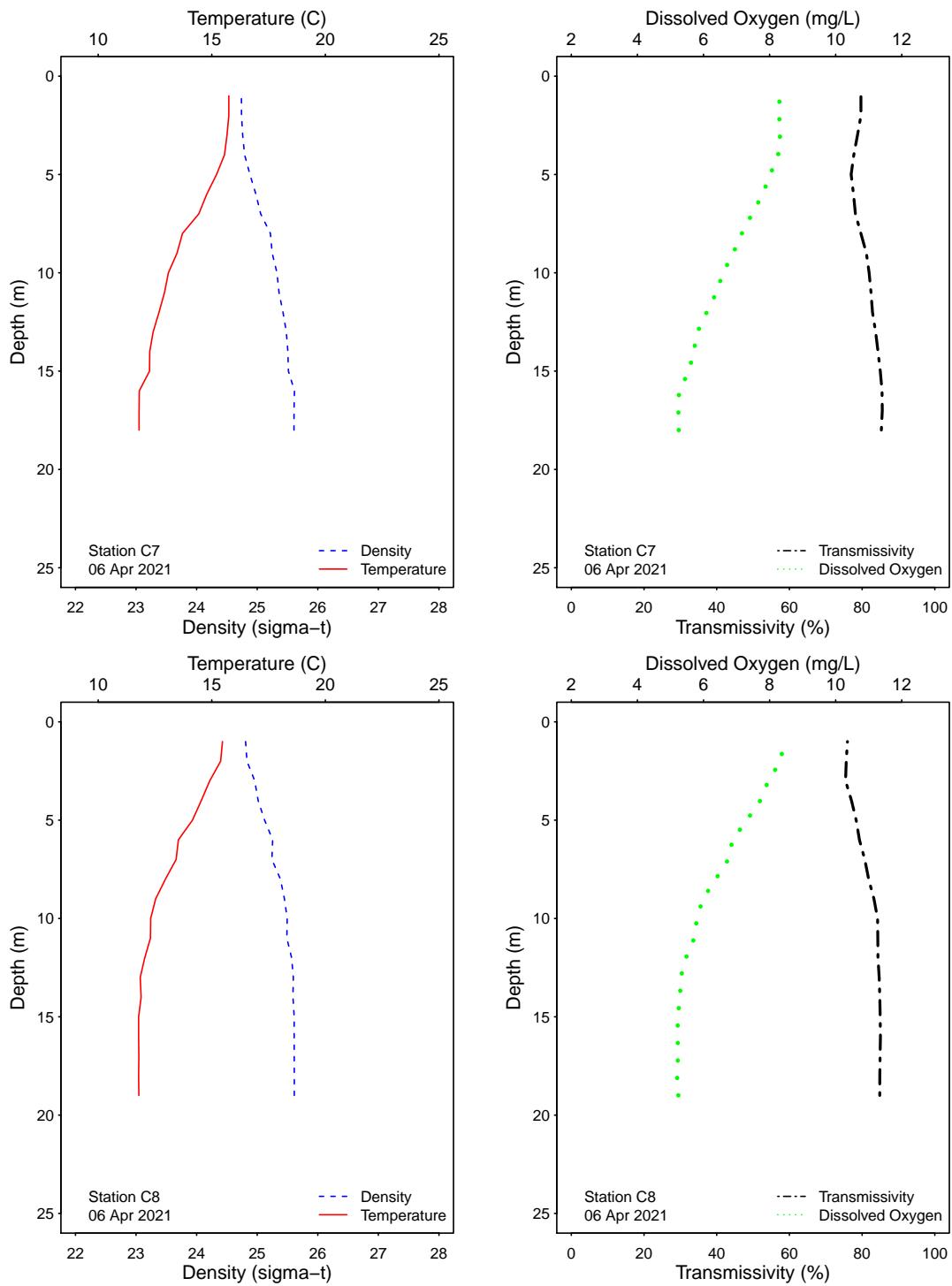


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

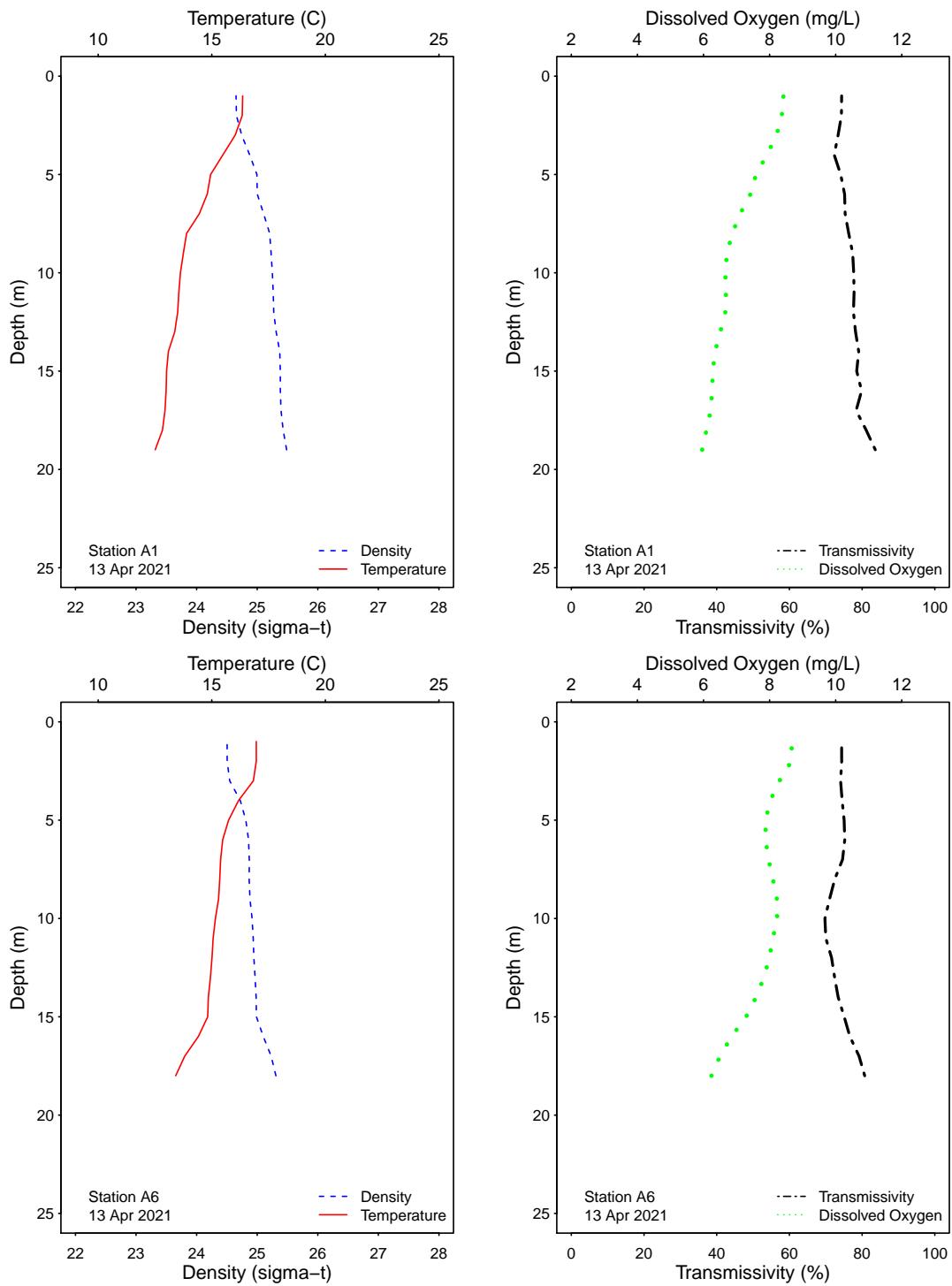


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

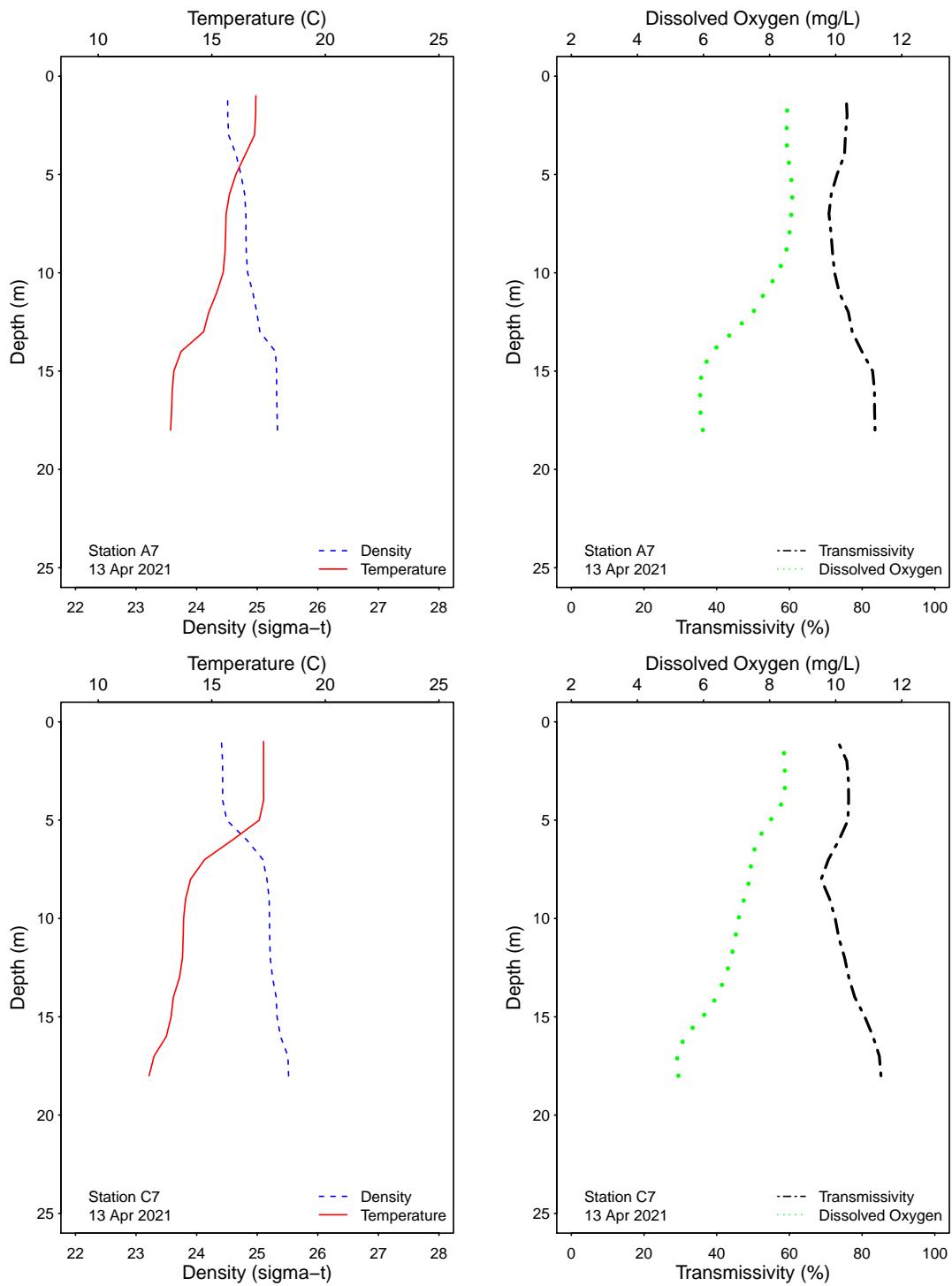


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

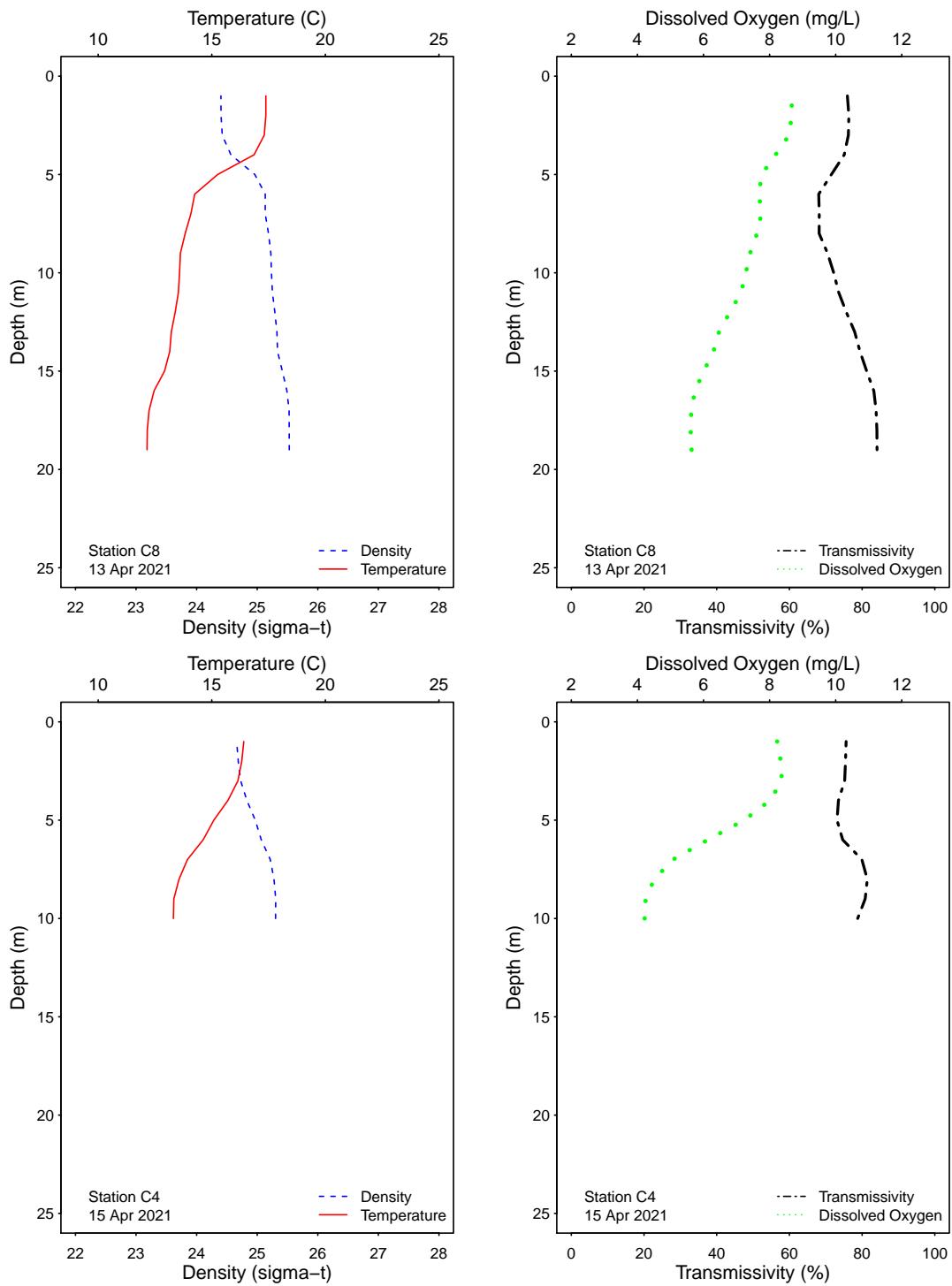


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

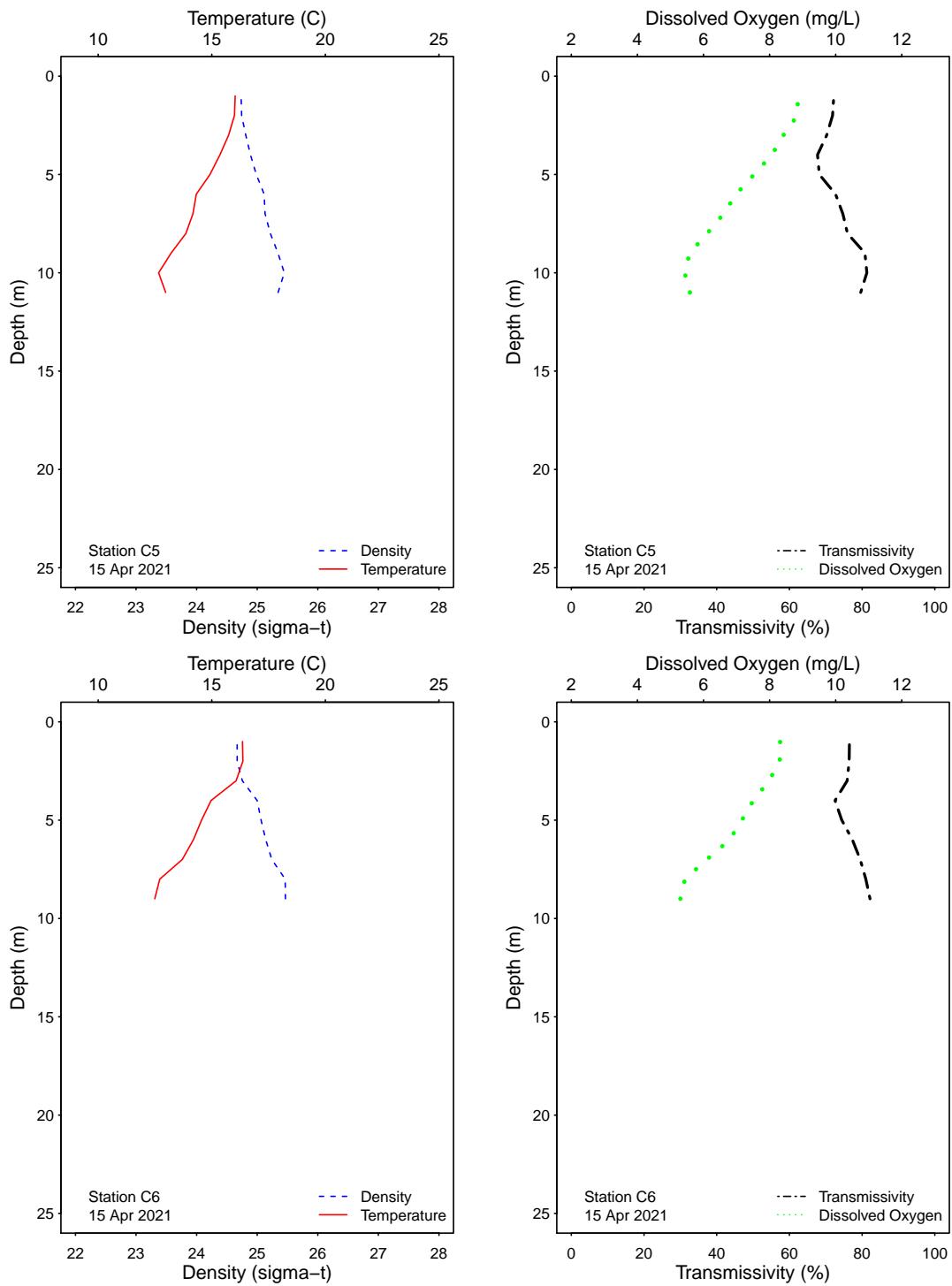


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

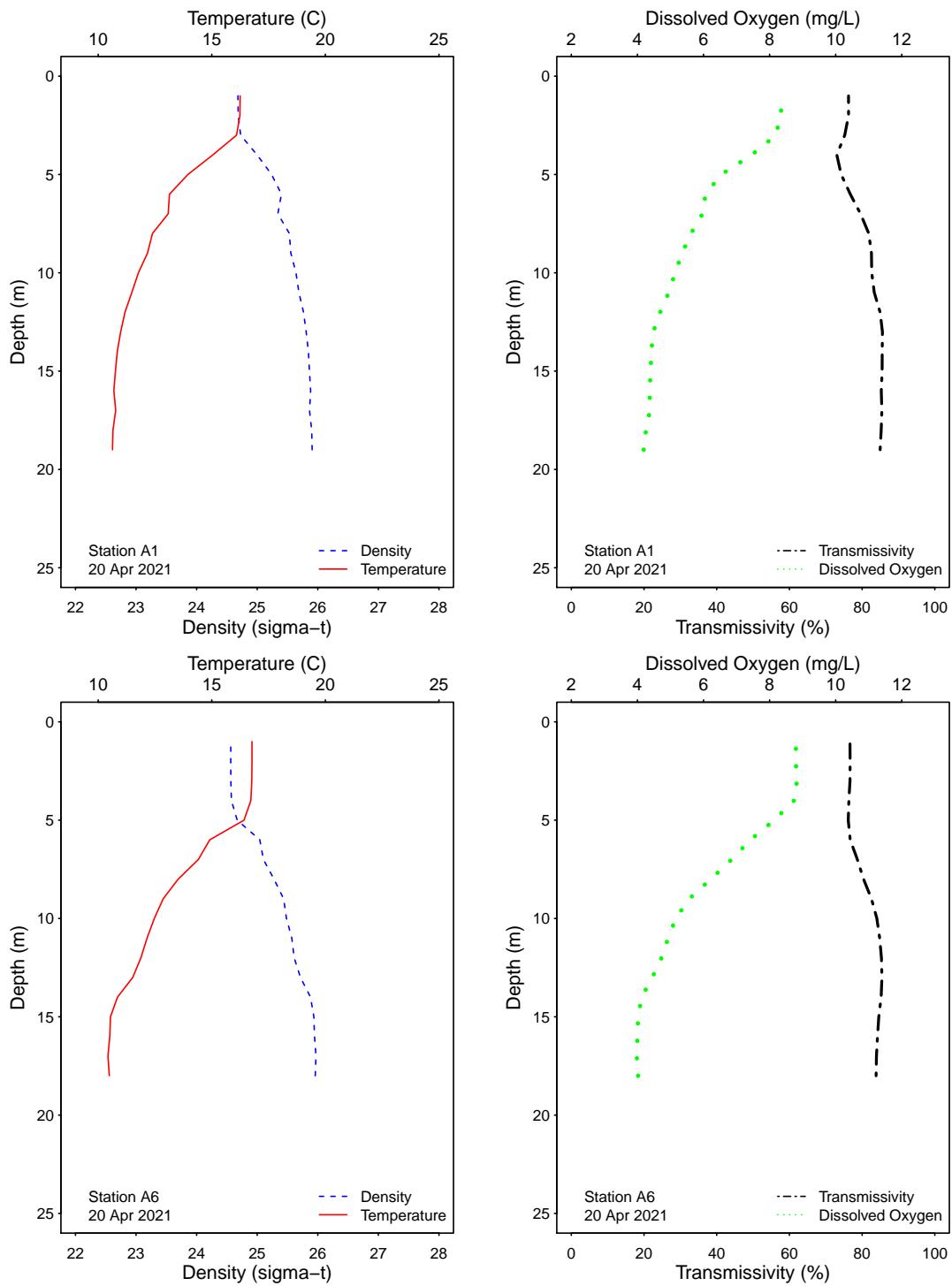


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

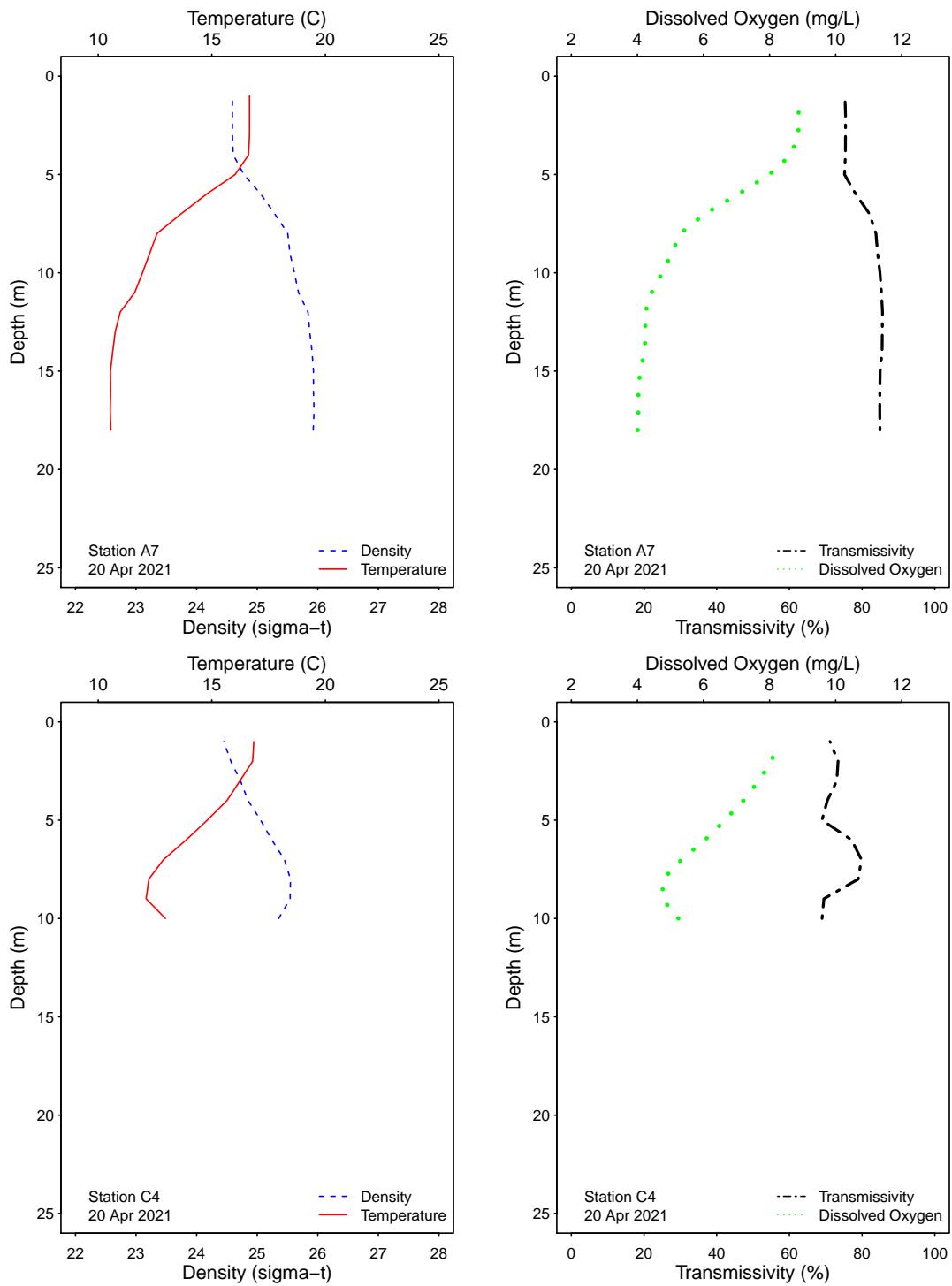


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

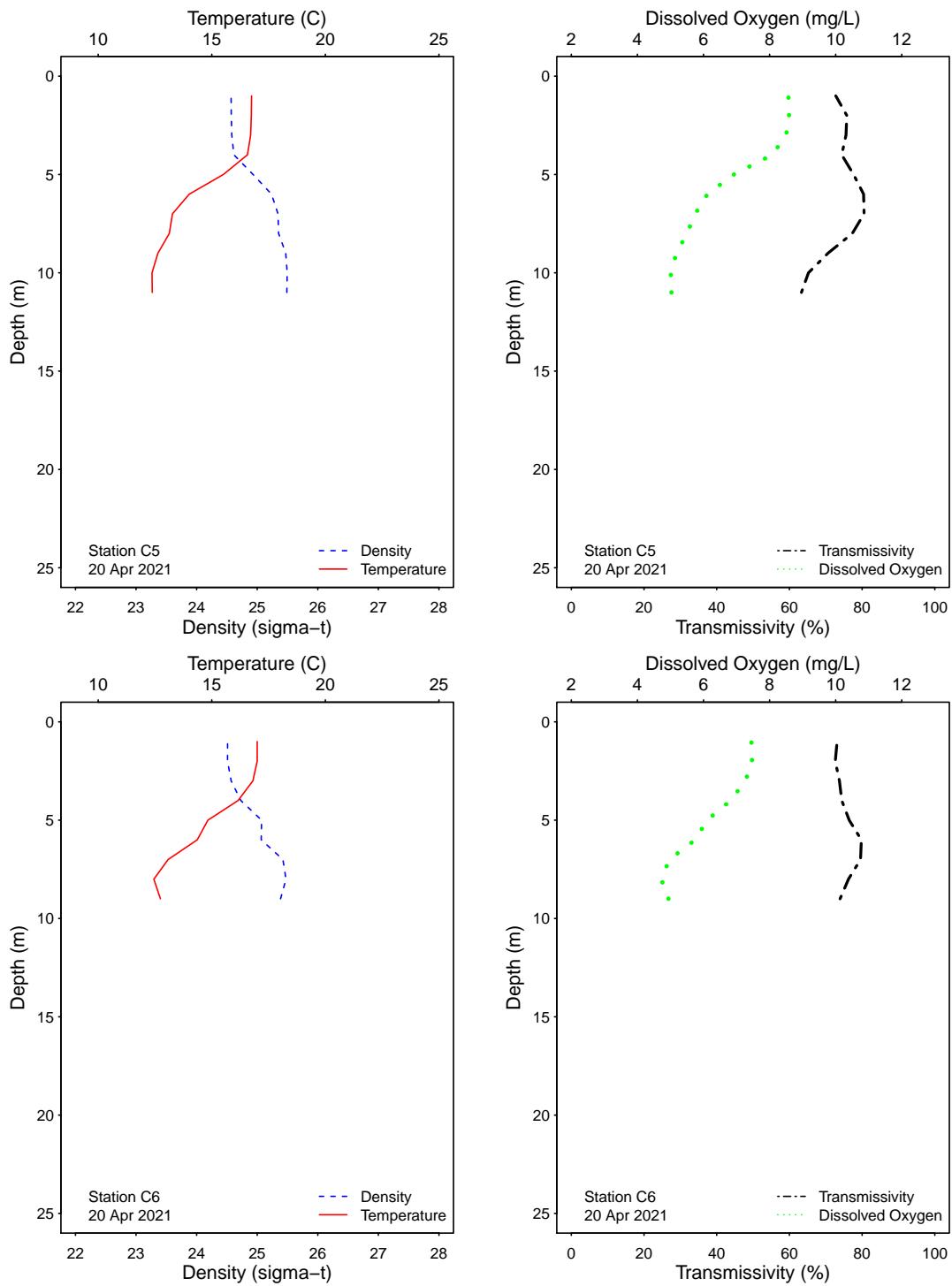


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

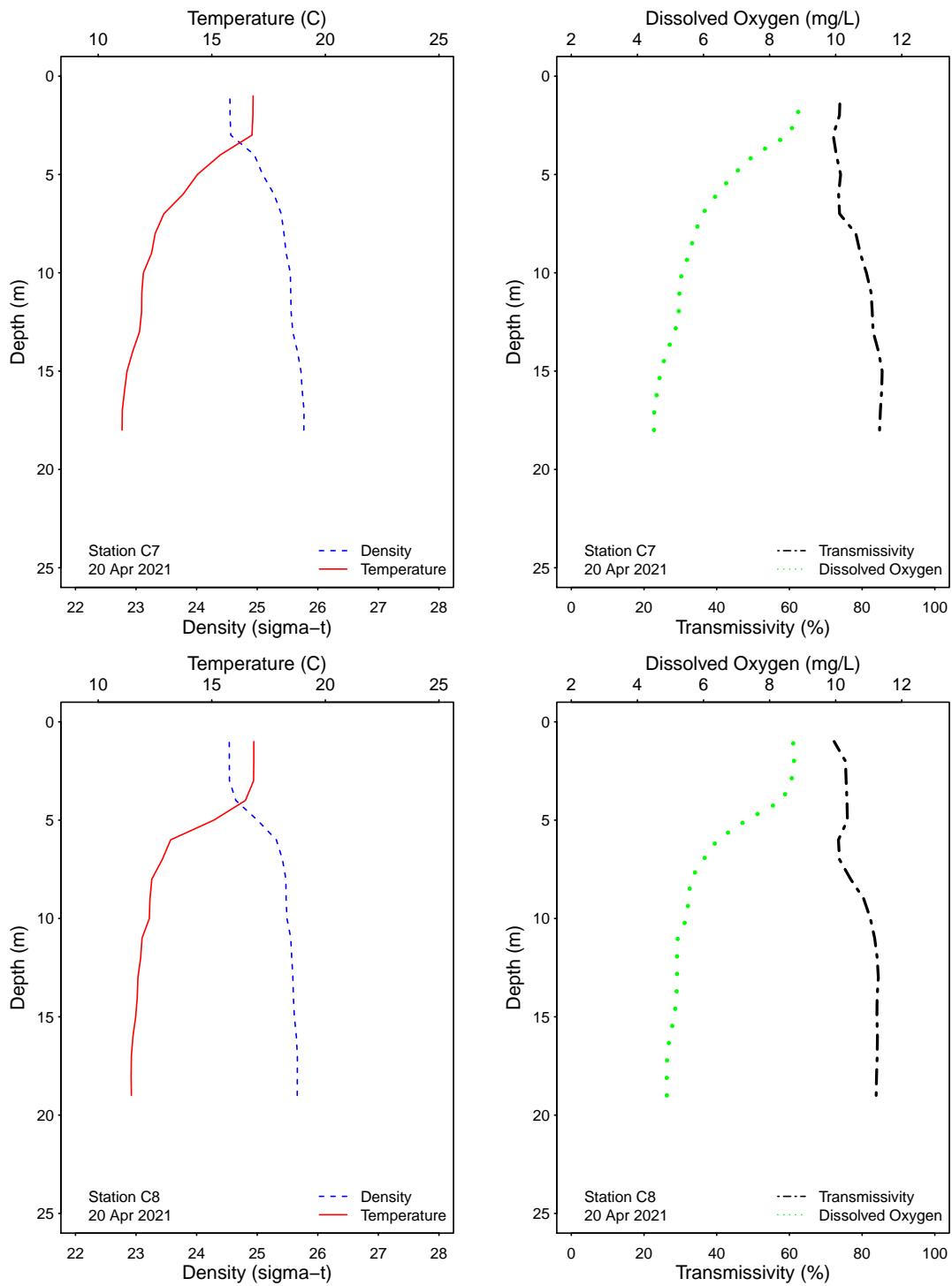


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

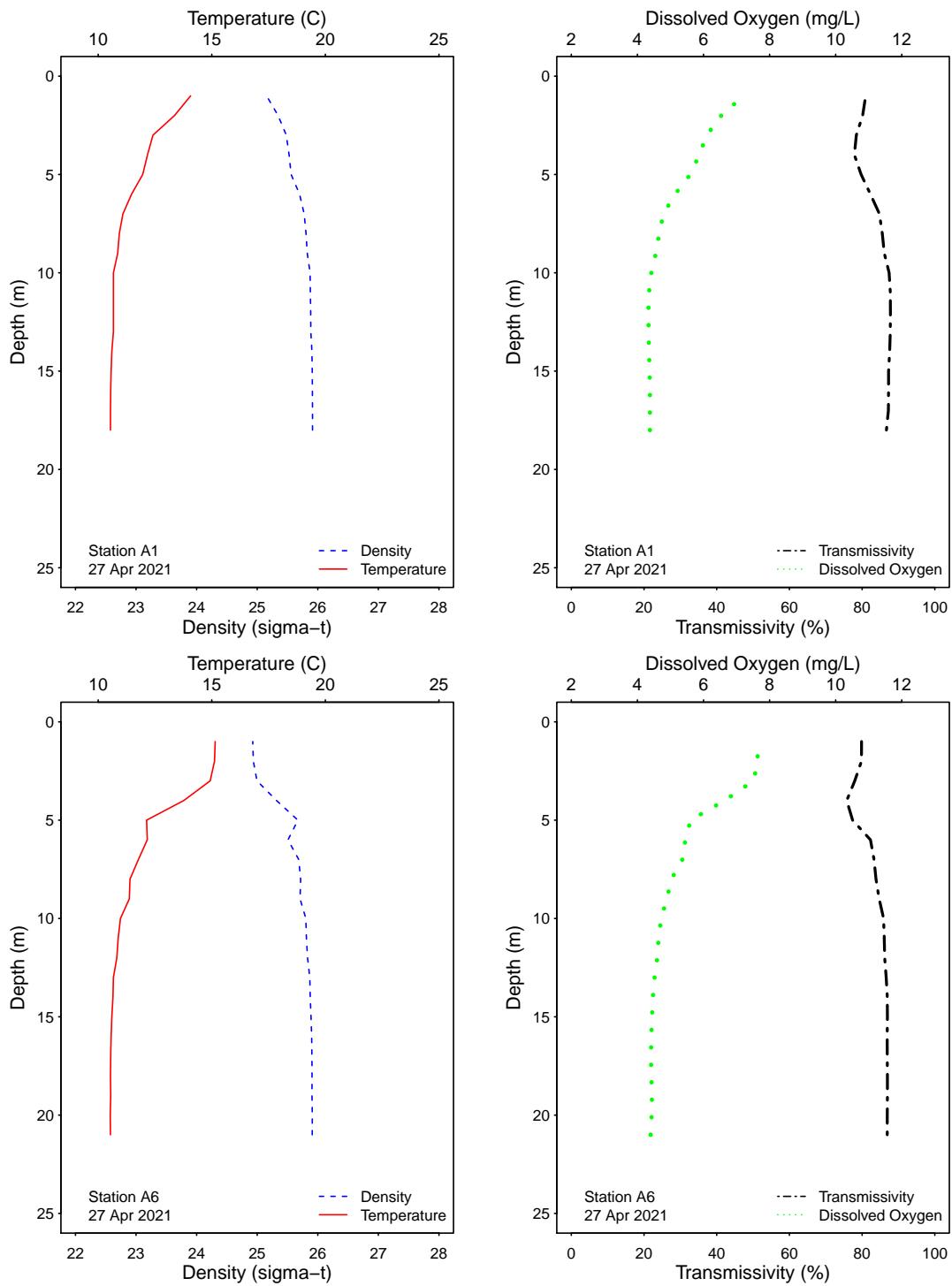


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

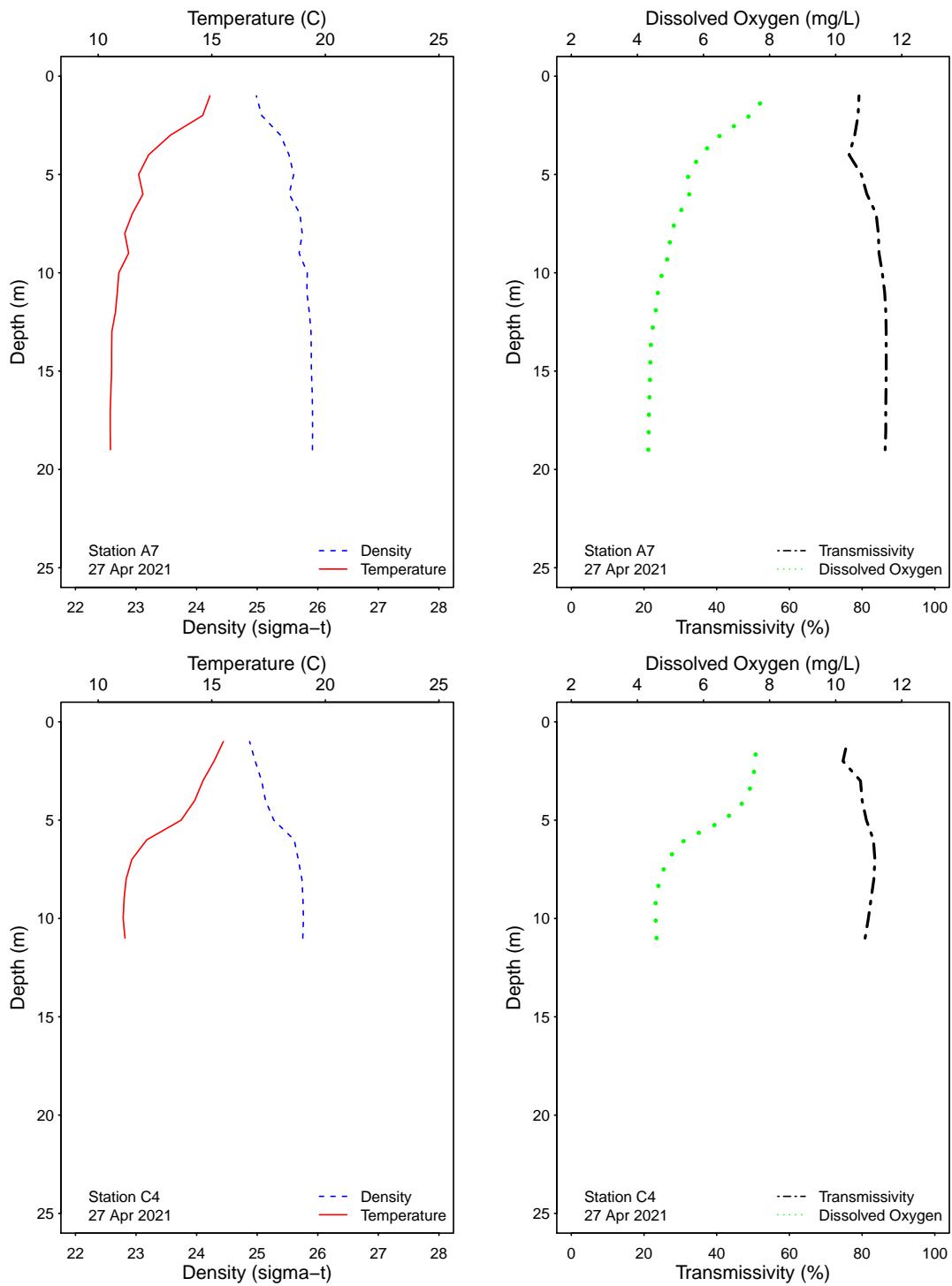


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

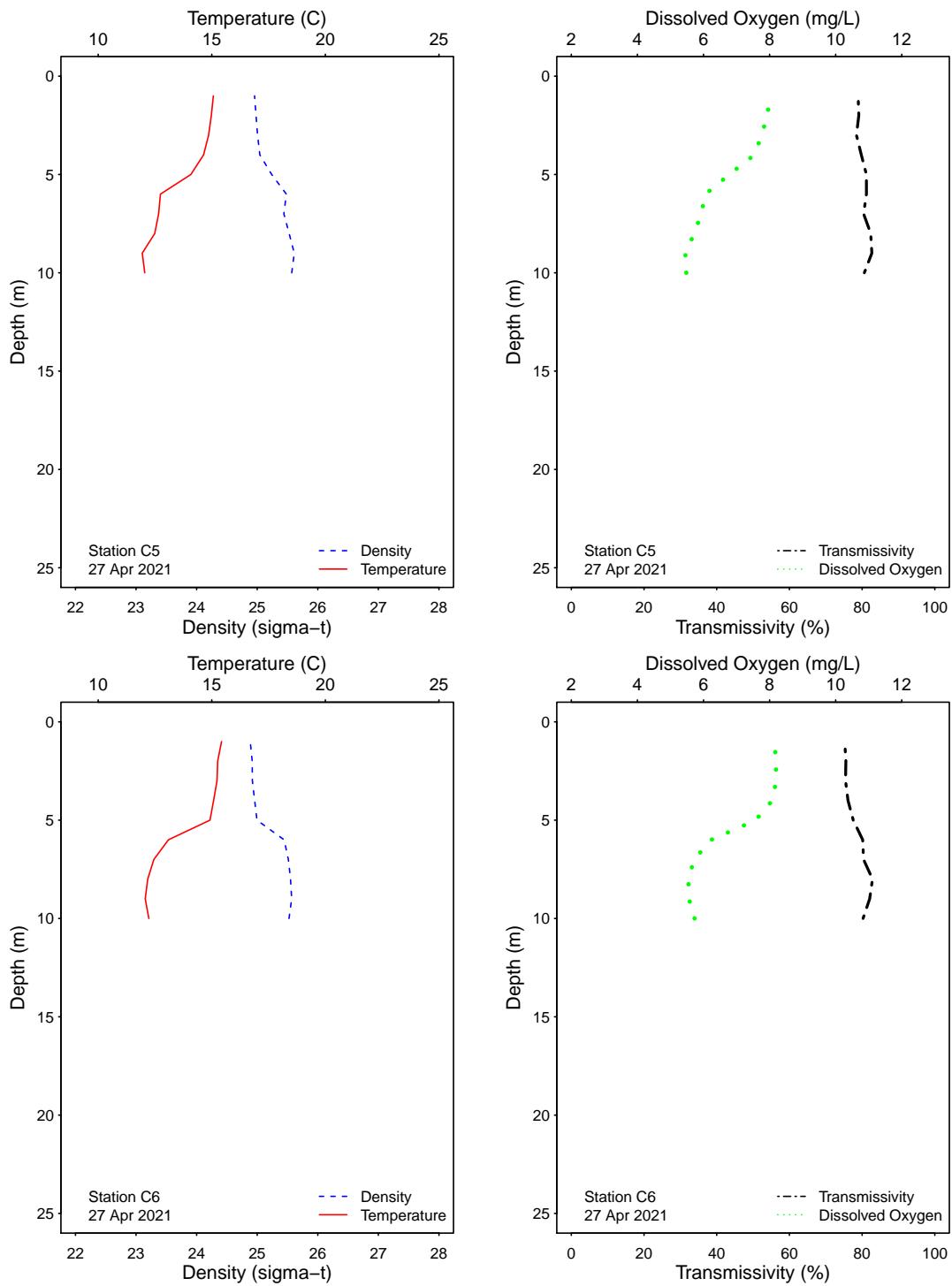


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

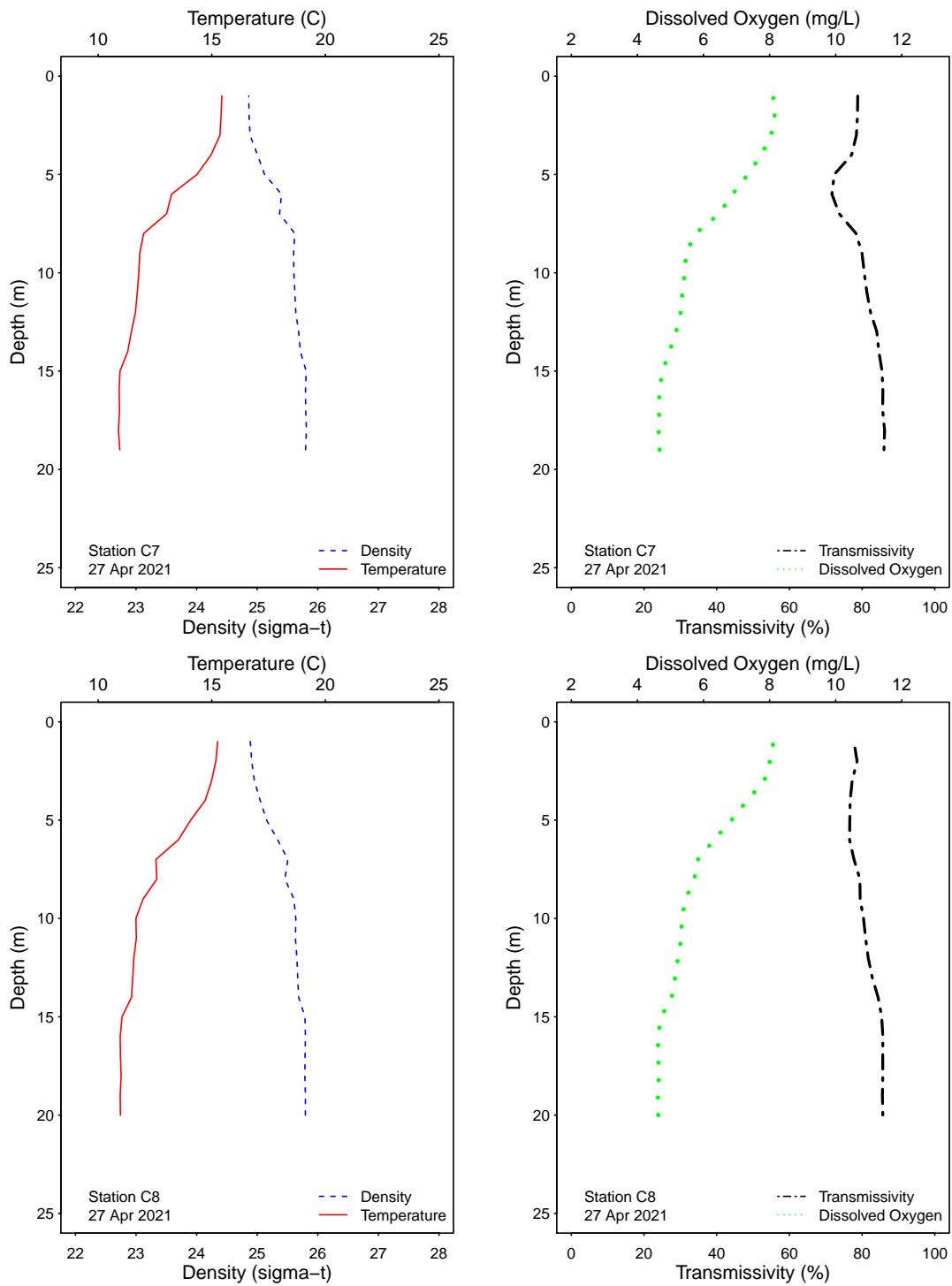


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Enter
A7	01 Apr 2021	18	AR	LAB DUPLICATE	2e	<2	<2
A7	06 Apr 2021	18	BS	LAB DUPLICATE	800e	90	28e
A7	13 Apr 2021	18	AR	LAB DUPLICATE	6e	<2	<2
A7	20 Apr 2021	18	JF	LAB DUPLICATE	70	12e	2e
A7	27 Apr 2021	18	AR	LAB DUPLICATE	<20	12e	<2
C7	01 Apr 2021	18	AR	LAB DUPLICATE	8e	<2	<2
C7	06 Apr 2021	18	BS	LAB DUPLICATE	<20	<2	4e
C7	13 Apr 2021	18	AR	LAB DUPLICATE	<2	<2	<2
C7	20 Apr 2021	18	JF	LAB DUPLICATE	20e	4e	<2
C7	27 Apr 2021	18	AR	LAB DUPLICATE	<20	4e	<2
C8	01 Apr 2021	12	AR	LAB DUPLICATE	<20	<2	2e
C8	06 Apr 2021	12	BS	LAB DUPLICATE	<20	<2	ns
C8	13 Apr 2021	12	AR	LAB DUPLICATE	<2	<2	<2
C8	20 Apr 2021	12	JF	LAB DUPLICATE	<2	<2	<2
C8	27 Apr 2021	12	AR	LAB DUPLICATE	4e	<2	2e
D12	01 Apr 2021		AR	FIELD DUPLICATE	<20	<2	<2
D12	01 Apr 2021		AR	LAB DUPLICATE	<2	<2	<2
D12	07 Apr 2021		AR	FIELD DUPLICATE	4e	<2	2e
D12	07 Apr 2021		AR	LAB DUPLICATE	<20	<2	<2
D12	14 Apr 2021		BS	FIELD DUPLICATE	<2	<2	<2
D12	14 Apr 2021		BS	LAB DUPLICATE	<2	<2	<2
D12	21 Apr 2021		JF	FIELD DUPLICATE	2e	2e	<2
D12	21 Apr 2021		JF	LAB DUPLICATE	6e	<2	<2
D12	28 Apr 2021		AR	FIELD DUPLICATE	<20	2e	4e
D12	28 Apr 2021		AR	LAB DUPLICATE	<20	<2	<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 Apr 2021	2	2	3	6	3	2	4	2
02 Apr 2021	2	2	3	6	3	2	4	2
03 Apr 2021	2	2	3	6	3	2	4	2
04 Apr 2021	2	2	3	6	3	2	4	2
05 Apr 2021	2	2	3	6	3	2	4	2
06 Apr 2021	2	2	3	6	3	2	4	2
07 Apr 2021	2	2	3	3	2	2	3	2
08 Apr 2021	2	2	3	2	2	2	3	2
09 Apr 2021	2	2	3	2	2	2	3	2
10 Apr 2021	2	2	3	2	2	2	3	2
11 Apr 2021	2	2	3	2	2	2	3	2
12 Apr 2021	2	2	3	2	2	2	3	2
13 Apr 2021	2	2	3	2	2	2	3	2
14 Apr 2021	2	2	3	2	2	3	2	2
15 Apr 2021	2	2	3	2	2	3	2	2
16 Apr 2021	2	2	3	2	2	3	2	2
17 Apr 2021	2	2	3	2	2	3	2	2
18 Apr 2021	2	2	3	2	2	3	2	2
19 Apr 2021	2	2	3	2	2	3	2	2
20 Apr 2021	2	2	3	2	2	3	2	2
21 Apr 2021	2	2	3	2	2	3	2	2
22 Apr 2021	2	2	3	2	2	3	2	2
23 Apr 2021	2	2	3	2	2	3	2	2
24 Apr 2021	2	2	3	2	2	3	2	2
25 Apr 2021	2	2	3	2	2	3	2	2
26 Apr 2021	2	2	3	2	2	3	2	2
27 Apr 2021	2	2	3	2	2	3	2	2
28 Apr 2021	2	2	4	2	3	3	3	2
29 Apr 2021	2	2	4	2	3	3	3	2
30 Apr 2021	2	2	4	2	3	3	3	2

* Geometric mean calculated using n<5

ns = not sampled

Table B.2

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Kelp Stations

Table B.3

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 Apr 2021	3	2	2	2	2	2	4	2
02 Apr 2021	3	2	2	2	2	2	4	2
03 Apr 2021	3	2	2	2	2	2	4	2
04 Apr 2021	3	2	2	2	2	2	4	2
05 Apr 2021	3	2	2	2	2	2	4	2
06 Apr 2021	4	3	3	2	2	2	4	2
07 Apr 2021	4	3	3	2	2	2	4	2
08 Apr 2021	4	3	3	2	2	2	4	2
09 Apr 2021	4	3	3	2	2	2	4	2
10 Apr 2021	4	3	3	2	2	2	4	2
11 Apr 2021	4	3	3	2	2	2	4	2
12 Apr 2021	4	3	3	2	2	2	4	2
13 Apr 2021	4	3	3	2	2	2	4	2
14 Apr 2021	4	3	3	2	2	2	4	2
15 Apr 2021	4	3	3	2	2	2	4	2
16 Apr 2021	4	3	3	2	2	2	4	2
17 Apr 2021	4	3	3	2	2	2	4	2
18 Apr 2021	4	3	3	2	2	2	4	2
19 Apr 2021	4	3	4	2	2	2	2	2
20 Apr 2021	4	3	3	2	2	2	2	2
21 Apr 2021	4	3	3	2	2	2	2	2
22 Apr 2021	4	3	3	2	2	2	2	2
23 Apr 2021	4	3	3	2	2	2	2	2
24 Apr 2021	4	3	3	2	2	2	2	2
25 Apr 2021	4	3	3	2	2	2	2	2
26 Apr 2021	4	3	3	2	2	2	2	2
27 Apr 2021	3	3	3	2	2	2	2	2
28 Apr 2021	3	3	3	2	2	2	2	2
29 Apr 2021	3	2	3	2	2	2	2	2
30 Apr 2021	3	2	3	2	2	2	2	2

* Geometric mean calculated using n<5

Table B.4

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
April	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data