



POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

JANUARY 2018

Environmental Monitoring and Technical Services
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
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February 28, 2018

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

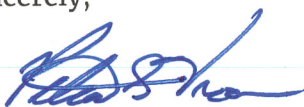
Dear Mr. Gibson:

Enclosed is the January 2018 Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2017-0007, NPDES Permit No. CA0107409.

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

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

Sincerely,



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

TS/asb

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

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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 monitored at eight shore stations (D4, D5, D7–D12). These stations range from the tip of the Point Loma Peninsula to west of Mission Bay (see station locations map). Due to site inaccessibility, station D8 has been temporarily abandoned and replaced with station D8-A. This new location will be sampled until access is restored at the original location. Seawater samples are collected from the surf zone at each station five times during the month. These samples are subsequently transported to the City's Marine Microbiology Laboratory and analyzed for the presence of several types of fecal indicator bacteria (FIBs), 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 four times during the month according to permit specifications in order 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 indicator bacteria (i.e., total coliforms, fecal coliforms, and *Enterococcus*). Additional samples for ammonium analysis are collected at these same sites and depths on a quarterly basis in order to correspond to sampling at the offshore stations located within State waters that is typically scheduled during the months of February, May, August and November. 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 primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for ammonium and bacteriological analyses are then drawn from these bottles into sterile sample bottles for processing at the City's Toxicology Laboratory (ammonium) and Marine Microbiology Laboratory (bacteria), respectively. 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. The CTD data are presented in both graphical and tabular form. Additionally, data for depths closest to those where bacteriological samples are collected are extracted from the CTD profiles and 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); 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, chromomorphpic dissolved organic matter (CDOM), and visual observations of weather and water conditions.

Seawater samples for bacteriological analyses at the offshore stations are primarily 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. The CTD profile data are then presented in both graphical and tabular form. Additionally, data for depths closest to those at which bacteriological samples are 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;

^[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.

(3) *Enterococcus* density shall not exceed 35 CFU/100 mL.

Single Sample Maximums:

- (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 exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987) 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 2018 Quality Assurance Report, which will be completed in March 2019.

SUMMARY OF RESULTS

Shore Stations

- During January, four of the eight shore stations were out of compliance with various California Ocean Plan (Ocean Plan) water-contact standards.
 - o The 30-day geometric mean standard for *Enterococcus* was exceeded at station D11 on one or more days during the month.
 - o The single sample maximum (SSM) standard for total coliform bacteria was exceeded at stations D9, D10, and D11 on multiple days during the month.
 - o The SSM standard for fecal coliform bacteria was exceeded at stations D8-A, D9, D10 and D11 on one or more days during the month.
 - o The SSM standard for *Enterococcus* was exceeded at stations D9, D10, and D11 on one or more days during the month.
 - o The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at station D8-A and D11 on one or more days during the month.
- Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- 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 surfgrass. See the City of San Diego's most recent *Point Loma Ocean Outfall Annual Receiving Waters Monitoring and Assessment Report* for details (<http://www.sandiego.gov/mwwd/environment/oceanmonitor/reports/index.shtml>).

Notable visual observations for January included: a sewage-like odor at station D9.

Kelp Bed Stations

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled five times during the month (i.e. January 3, 11 16, 22, 29).
- During January, all of the kelp bed stations were in compliance with various water-contact standards specified in the Ocean Plan.
- Water column temperatures ranged from 12.06 to 16.56°C during the month. The difference between surface and bottom waters ranged from 0.04 to 2.49°C, indicating that the water column was stratified at some of the kelp bed stations during the month.
- Chlorophyll *a* concentrations ranged from 0.33 to 2.29 µg/L during January, suggesting the presence of phytoplankton during the month.
- There were no notable visual observations for January.

Offshore Stations

- Quarterly sampling was not conducted during January at the offshore stations. The next quarterly sampling is scheduled for February 2018.



TABLES AND FIGURES

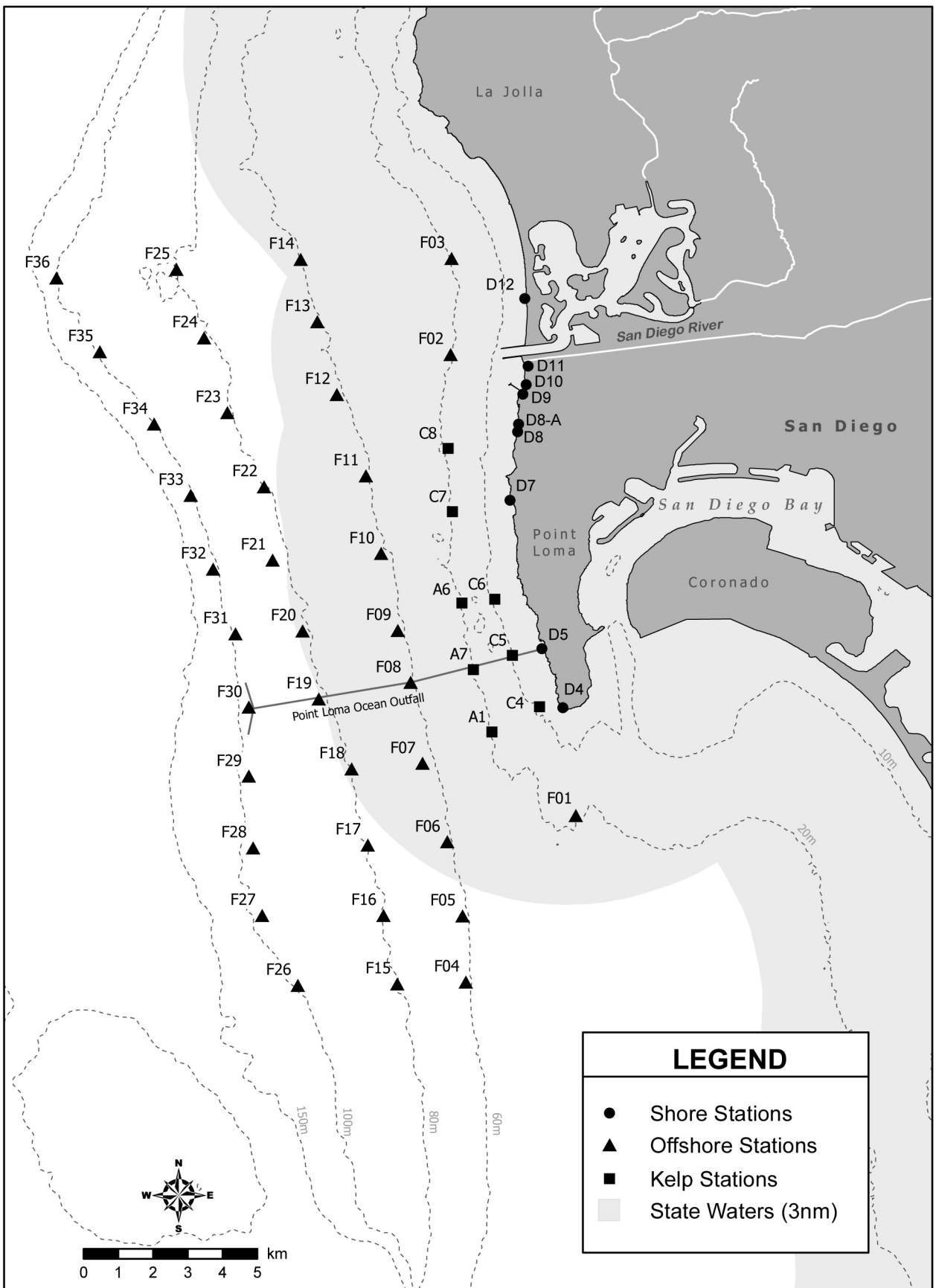


Figure 1.1 Station Map

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-A | D9 | D10 | D11 | D12 |
|-------------|-----|-----|-----|------|-----|-----|-----|-----|
| 01 Jan 2018 | 6* | 20* | 7* | 50* | 8* | 20* | 8* | 6* |
| 02 Jan 2018 | 6* | 20* | 7* | 50* | 8* | 20* | 8* | 6* |
| 03 Jan 2018 | 6 | 20 | 11 | 42 | 19 | 20 | 9 | 6 |
| 04 Jan 2018 | 6 | 20 | 11 | 42 | 19 | 20 | 9 | 6 |
| 05 Jan 2018 | 5* | 20* | 14* | 50* | 23* | 20* | 11* | 7* |
| 06 Jan 2018 | 5* | 20* | 14* | 50* | 23* | 20* | 11* | 7* |
| 07 Jan 2018 | 5* | 20* | 14* | 50* | 23* | 20* | 11* | 7* |
| 08 Jan 2018 | 5* | 20* | 14* | 50* | 23* | 20* | 11* | 7* |
| 09 Jan 2018 | 5* | 20* | 14* | 50* | 23* | 20* | 11* | 7* |
| 10 Jan 2018 | 10 | 32 | 15 | 66 | 85 | 76 | 46 | 19 |
| 11 Jan 2018 | 10 | 32 | 15 | 66 | 85 | 76 | 46 | 19 |
| 12 Jan 2018 | 8* | 36* | 14* | 50* | 203 | 178 | 130 | 19* |
| 13 Jan 2018 | 8* | 36* | 14* | 50* | 203 | 178 | 130 | 19* |
| 14 Jan 2018 | 8* | 36* | 14* | 50* | 203 | 178 | 130 | 19* |
| 15 Jan 2018 | 8* | 36* | 14* | 50* | 203 | 178 | 130 | 19* |
| 16 Jan 2018 | 8* | 36* | 14* | 50* | 203 | 178 | 130 | 19* |
| 17 Jan 2018 | 10 | 32 | 15 | 55 | 138 | 149 | 114 | 19 |
| 18 Jan 2018 | 10 | 32 | 15 | 55 | 138 | 149 | 114 | 19 |
| 19 Jan 2018 | 15* | 36* | 15* | 50* | 203 | 222 | 256 | 29* |
| 20 Jan 2018 | 15* | 36* | 15* | 50* | 203 | 222 | 256 | 29* |
| 21 Jan 2018 | 15* | 36* | 15* | 50* | 203 | 222 | 256 | 29* |
| 22 Jan 2018 | 15* | 36* | 15* | 50* | 203 | 222 | 256 | 29* |
| 23 Jan 2018 | 15* | 36* | 15* | 50* | 203 | 222 | 256 | 29* |
| 24 Jan 2018 | 10 | 20 | 12 | 30 | 113 | 101 | 226 | 22 |
| 25 Jan 2018 | 10 | 20 | 12 | 30 | 113 | 101 | 226 | 22 |
| 26 Jan 2018 | 15* | 20* | 19* | 34* | 253 | 140 | 367 | 40* |
| 27 Jan 2018 | 15* | 20* | 19* | 34* | 253 | 140 | 367 | 40* |
| 28 Jan 2018 | 15* | 20* | 19* | 34* | 253 | 140 | 367 | 40* |
| 29 Jan 2018 | 15* | 20* | 19* | 34* | 253 | 140 | 367 | 40* |
| 30 Jan 2018 | 15* | 20* | 19* | 34* | 253 | 140 | 367 | 40* |
| 31 Jan 2018 | 16 | 21 | 20 | 80 | 166 | 101 | 271 | 25 |

* 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-A | D9 | D10 | D11 | D12 |
|-------------|----|----|----|------|----|-----|-----|-----|
| 01 Jan 2018 | 2* | 4* | 3* | 3* | 3* | 2* | 2* | 2* |
| 02 Jan 2018 | 2* | 4* | 3* | 3* | 3* | 2* | 2* | 2* |
| 03 Jan 2018 | 3 | 3 | 3 | 5 | 5 | 3 | 2 | 2 |
| 04 Jan 2018 | 3 | 3 | 3 | 5 | 5 | 3 | 2 | 2 |
| 05 Jan 2018 | 3* | 4* | 3* | 6* | 6* | 4* | 2* | 2* |
| 06 Jan 2018 | 3* | 4* | 3* | 6* | 6* | 4* | 2* | 2* |
| 07 Jan 2018 | 3* | 4* | 3* | 6* | 6* | 4* | 2* | 2* |
| 08 Jan 2018 | 3* | 4* | 3* | 6* | 6* | 4* | 2* | 2* |
| 09 Jan 2018 | 3* | 4* | 3* | 6* | 6* | 4* | 2* | 2* |
| 10 Jan 2018 | 2 | 3 | 3 | 6 | 17 | 11 | 11 | 3 |
| 11 Jan 2018 | 2 | 3 | 3 | 6 | 17 | 11 | 11 | 3 |
| 12 Jan 2018 | 3* | 4* | 3* | 7* | 31 | 20 | 26 | 4* |
| 13 Jan 2018 | 3* | 4* | 3* | 7* | 31 | 20 | 26 | 4* |
| 14 Jan 2018 | 3* | 4* | 3* | 7* | 31 | 20 | 26 | 4* |
| 15 Jan 2018 | 3* | 4* | 3* | 7* | 31 | 20 | 26 | 4* |
| 16 Jan 2018 | 3* | 4* | 3* | 7* | 31 | 20 | 26 | 4* |
| 17 Jan 2018 | 2 | 3 | 3 | 7 | 24 | 18 | 19 | 3 |
| 18 Jan 2018 | 2 | 3 | 3 | 7 | 24 | 18 | 19 | 3 |
| 19 Jan 2018 | 3* | 2* | 2* | 6* | 31 | 27 | 30 | 4* |
| 20 Jan 2018 | 3* | 2* | 2* | 6* | 31 | 27 | 30 | 4* |
| 21 Jan 2018 | 3* | 2* | 2* | 6* | 31 | 27 | 30 | 4* |
| 22 Jan 2018 | 3* | 2* | 2* | 6* | 31 | 27 | 30 | 4* |
| 23 Jan 2018 | 3* | 2* | 2* | 6* | 31 | 27 | 30 | 4* |
| 24 Jan 2018 | 2 | 2 | 2 | 5 | 22 | 18 | 26 | 3 |
| 25 Jan 2018 | 2 | 2 | 2 | 5 | 22 | 18 | 26 | 3 |
| 26 Jan 2018 | 3* | 2* | 2* | 6* | 36 | 27 | 44 | 4* |
| 27 Jan 2018 | 3* | 2* | 2* | 6* | 36 | 27 | 44 | 4* |
| 28 Jan 2018 | 3* | 2* | 2* | 6* | 36 | 27 | 44 | 4* |
| 29 Jan 2018 | 3* | 2* | 2* | 6* | 36 | 27 | 44 | 4* |
| 30 Jan 2018 | 3* | 2* | 2* | 6* | 36 | 27 | 44 | 4* |
| 31 Jan 2018 | 2 | 2 | 3 | 18 | 22 | 20 | 42 | 4 |

* 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-A | D9 | D10 | D11 | D12 |
|-------------|----|----|----|------|----|-----|-----|-----|
| 01 Jan 2018 | 2* | 2* | 2* | 5* | 3* | 2* | 5* | 2* |
| 02 Jan 2018 | 2* | 2* | 2* | 5* | 3* | 2* | 5* | 2* |
| 03 Jan 2018 | 3 | 2 | 2 | 8 | 8 | 4 | 5 | 2 |
| 04 Jan 2018 | 3 | 2 | 2 | 8 | 7 | 4 | 5 | 2 |
| 05 Jan 2018 | 3* | 2* | 2* | 11* | 8 | 4* | 6* | 2* |
| 06 Jan 2018 | 3* | 2* | 2* | 11* | 8 | 4* | 6* | 2* |
| 07 Jan 2018 | 3* | 2* | 2* | 11* | 8 | 4* | 6* | 2* |
| 08 Jan 2018 | 3* | 2* | 2* | 11* | 8 | 4* | 6* | 2* |
| 09 Jan 2018 | 3* | 2* | 2* | 11* | 8 | 4* | 6* | 2* |
| 10 Jan 2018 | 3 | 2 | 3 | 11 | 18 | 12 | 29 | 4 |
| 11 Jan 2018 | 3 | 2 | 3 | 11 | 18 | 12 | 29 | 4 |
| 12 Jan 2018 | 3* | 2* | 3* | 15* | 22 | 15 | 54 | 5* |
| 13 Jan 2018 | 3* | 2* | 3* | 15* | 22 | 15 | 54 | 5* |
| 14 Jan 2018 | 3* | 2* | 3* | 15* | 22 | 15 | 54 | 5* |
| 15 Jan 2018 | 3* | 2* | 3* | 15* | 22 | 15 | 54 | 5* |
| 16 Jan 2018 | 3* | 2* | 3* | 15* | 22 | 15 | 54 | 5* |
| 17 Jan 2018 | 4 | 2 | 3 | 17 | 20 | 17 | 53 | 6 |
| 18 Jan 2018 | 4 | 2 | 3 | 17 | 20 | 17 | 53 | 6 |
| 19 Jan 2018 | 4* | 2* | 4* | 14* | 26 | 26 | 74 | 8* |
| 20 Jan 2018 | 4* | 2* | 4* | 14* | 26 | 26 | 74 | 8* |
| 21 Jan 2018 | 4* | 2* | 4* | 14* | 26 | 26 | 74 | 8* |
| 22 Jan 2018 | 4* | 2* | 4* | 14* | 26 | 26 | 74 | 8* |
| 23 Jan 2018 | 4* | 2* | 4* | 14* | 26 | 26 | 74 | 8* |
| 24 Jan 2018 | 4 | 2 | 3 | 12 | 18 | 19 | 64 | 6 |
| 25 Jan 2018 | 4 | 2 | 3 | 12 | 18 | 19 | 64 | 6 |
| 26 Jan 2018 | 4* | 2* | 4* | 18* | 21 | 30 | 87 | 8* |
| 27 Jan 2018 | 4* | 2* | 4* | 18* | 21 | 30 | 87 | 8* |
| 28 Jan 2018 | 4* | 2* | 4* | 18* | 21 | 30 | 87 | 8* |
| 29 Jan 2018 | 4* | 2* | 4* | 18* | 21 | 30 | 87 | 8* |
| 30 Jan 2018 | 4* | 2* | 4* | 18* | 21 | 30 | 87 | 8* |
| 31 Jan 2018 | 4 | 2 | 5 | 21 | 15 | 19 | 105 | 9 |

* 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-A | D9 | D10 | D11 | D12 |
|-------------|-----------|-----------|-----------|-------------|-----------|------------|------------|------------|
| 03 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 10 Jan 2018 | IC | IC | IC | IC | E | E | E | IC |
| 12 Jan 2018 | ns | ns | ns | ns | IC | IC | IC | ns |
| 17 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 24 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 31 Jan 2018 | 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-A | D9 | D10 | D11 | D12 |
|-------------|-----------|-----------|-----------|-------------|-----------|------------|------------|------------|
| 03 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 10 Jan 2018 | IC | IC | IC | IC | E | E | E | IC |
| 12 Jan 2018 | ns | ns | ns | ns | IC | IC | IC | ns |
| 17 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 24 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 31 Jan 2018 | IC | IC | IC | E | 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-A | D9 | D10 | D11 | D12 |
|-------------|-----------|-----------|-----------|-------------|-----------|------------|------------|------------|
| 03 Jan 2018 | IC | IC | IC | IC | E | IC | IC | IC |
| 04 Jan 2018 | ns | ns | ns | ns | IC | ns | ns | ns |
| 10 Jan 2018 | IC | IC | IC | IC | E | E | E | IC |
| 12 Jan 2018 | ns | ns | ns | ns | IC | IC | IC | ns |
| 17 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 24 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 31 Jan 2018 | IC | IC | IC | IC | IC | IC | E | 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-A | D9 | D10 | D11 | D12 |
|-------------|-----------|-----------|-----------|-------------|-----------|------------|------------|------------|
| 03 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 10 Jan 2018 | IC | IC | IC | IC | IC | IC | E | IC |
| 12 Jan 2018 | ns | ns | ns | ns | IC | IC | IC | ns |
| 17 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 24 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 31 Jan 2018 | IC | IC | IC | E | 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* (Entero) 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 | Entero | F:T |
|---------|-------------|------|--------|--------|--------|------|
| D4 | 03 Jan 2018 | 800 | 6e | 6e | 8e | 1.00 |
| D4 | 10 Jan 2018 | 912 | <200 | <2 | 2e | 0.01 |
| D4 | 17 Jan 2018 | 832 | 20e | 2e | 10e | 0.10 |
| D4 | 24 Jan 2018 | 753 | <2 | <2 | <2 | 1.00 |
| D4 | 31 Jan 2018 | 835 | 20e | 2e | 2e | 0.10 |
| D5 | 03 Jan 2018 | 748 | 20e | <2 | 2e | 0.10 |
| D5 | 10 Jan 2018 | 901 | <200 | 2e | 2e | 0.01 |
| D5 | 17 Jan 2018 | 813 | <20 | <2 | <2 | 0.10 |
| D5 | 24 Jan 2018 | 746 | 2e | 2e | <2 | 1.00 |
| D5 | 31 Jan 2018 | 827 | 26e | 2e | <2 | 0.08 |
| D7 | 03 Jan 2018 | 815 | 60e | 2e | <2 | 0.03 |
| D7 | 10 Jan 2018 | 947 | 20e | 2e | 14e | 0.10 |
| D7 | 17 Jan 2018 | 905 | 20e | 4e | 4e | 0.20 |
| D7 | 24 Jan 2018 | 818 | 6e | 2e | <2 | 0.33 |
| D7 | 31 Jan 2018 | 856 | 20e | 12e | 22e | 0.60 |
| D8-A | 03 Jan 2018 | 835 | 20e | 20e | 40 | 1.00 |
| D8-A | 10 Jan 2018 | 1000 | <200 | 4e | 14e | 0.02 |
| D8-A | 17 Jan 2018 | 928 | 80e | 6e | 34e | 0.07 |
| D8-A | 24 Jan 2018 | 830 | 4e | <2 | 6e | 0.50 |
| D8-A | 31 Jan 2018 | 908 | 2600e | 1800e | 32e | 0.69 |
| D9 | 03 Jan 2018 | 843 | 680 | 68 | 300e | 0.10 |
| D9 | 04 Jan 2018 | 956 | ns | ns | 2e | ns |
| D9 | 10 Jan 2018 | 1011 | >16000 | 800 | 860 | 0.05 |
| D9 | 12 Jan 2018 | 928 | 800e | 46 | 6e | 0.06 |
| D9 | 17 Jan 2018 | 938 | 20e | 6e | 12e | 0.30 |
| D9 | 24 Jan 2018 | 844 | 6e | 4e | <2 | 0.67 |
| D9 | 31 Jan 2018 | 920 | 20e | <2 | 2e | 0.10 |
| D10 | 03 Jan 2018 | 851 | 20e | 30e | 38e | 1.50 |
| D10 | 10 Jan 2018 | 1024 | >16000 | 580 | 800 | 0.04 |
| D10 | 12 Jan 2018 | 936 | 1400e | 52 | 6e | 0.04 |
| D10 | 17 Jan 2018 | 954 | 60e | 8e | 32e | 0.13 |
| D10 | 24 Jan 2018 | 854 | 2e | <2 | 4e | 1.00 |
| D10 | 31 Jan 2018 | 931 | <20 | 4e | <2 | 0.20 |
| D11 | 03 Jan 2018 | 900 | 16e | 2e | 6e | 0.12 |
| D11 | 10 Jan 2018 | 1035 | >16000 | >12000 | >12000 | 0.75 |

| Station | Date | Time | Total | Fecal | Entero | F:T |
|----------------|-------------|-------------|--------------|--------------|---------------|------------|
| D11 | 12 Jan 2018 | 940 | 3600e | 120 | 46 | 0.03 |
| D11 | 17 Jan 2018 | 1007 | 60e | 4e | 48 | 0.07 |
| D11 | 24 Jan 2018 | 859 | 120e | 14e | 32e | 0.12 |
| D11 | 31 Jan 2018 | 951 | 60e | 36e | 260e | 0.60 |
| D12 | 03 Jan 2018 | 918 | 12e | 2e | <2 | 0.17 |
| D12 | 10 Jan 2018 | 1054 | 1400e | <20 | 74 | 0.01 |
| D12 | 17 Jan 2018 | 1042 | <20 | <2 | 12e | 0.10 |
| D12 | 24 Jan 2018 | 926 | 8e | <2 | <2 | 0.25 |
| D12 | 31 Jan 2018 | 1008 | 4e | 4e | 18e | 1.00 |

ns = not sampled

ND = no data

Comments

| Station | Date | Depth | Parameter | Comments |
|----------------|-------------|--------------|------------------|-----------------|
| D9 | 04 Jan 2018 | | | Resample |
| D9 | 12 Jan 2018 | | | Resample |
| D10 | 12 Jan 2018 | | | Resample |
| D11 | 12 Jan 2018 | | | Resample |

Table 2.9

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

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|-----------------------|
| D4 | 03 Jan 2018 | Arrive Time | 800 |
| D4 | 03 Jan 2018 | Weather | Foggy |
| D4 | 03 Jan 2018 | Wind Speed (kts) | 4.1 |
| D4 | 03 Jan 2018 | Wind Dir | N |
| D4 | 03 Jan 2018 | Animal Life | None |
| D4 | 03 Jan 2018 | Floatables | None |
| D4 | 03 Jan 2018 | Water Color | Green |
| D4 | 03 Jan 2018 | Current Direction | N |
| D4 | 03 Jan 2018 | Water Temp (C) | 13.7 |
| D4 | 03 Jan 2018 | Wave Height Low (ft) | 2 |
| D4 | 03 Jan 2018 | High Tide (ft) | 6.7 |
| D4 | 03 Jan 2018 | High Tide Time | 915 |
| D4 | 03 Jan 2018 | Low Tide (ft) | 1.5 |
| D4 | 03 Jan 2018 | Low Tide Time | 310 |
| D4 | 03 Jan 2018 | Comments | Water clear |
| D4 | 10 Jan 2018 | Arrive Time | 912 |
| D4 | 10 Jan 2018 | Weather | Moderate Rain |
| D4 | 10 Jan 2018 | Wind Speed (kts) | 6 |
| D4 | 10 Jan 2018 | Wind Dir | N |
| D4 | 10 Jan 2018 | Animal Life | None |
| D4 | 10 Jan 2018 | Floatables | None |
| D4 | 10 Jan 2018 | Water Color | Green |
| D4 | 10 Jan 2018 | Current Direction | N |
| D4 | 10 Jan 2018 | Water Temp (C) | 11.2 |
| D4 | 10 Jan 2018 | Wave Height Low (ft) | 2 |
| D4 | 10 Jan 2018 | High Tide (ft) | 4.8 |
| D4 | 10 Jan 2018 | High Tide Time | 431 |
| D4 | 10 Jan 2018 | Low Tide (ft) | 0.9 |
| D4 | 10 Jan 2018 | Low Tide Time | 1143 |
| D4 | 10 Jan 2018 | Comments | Algae; Water clear |
| D4 | 17 Jan 2018 | Arrive Time | 832 |
| D4 | 17 Jan 2018 | Weather | Foggy |
| D4 | 17 Jan 2018 | Wind Speed (kts) | 0.7 |
| D4 | 17 Jan 2018 | Wind Dir | N |
| D4 | 17 Jan 2018 | Animal Life | None |
| D4 | 17 Jan 2018 | Floatables | None |
| D4 | 17 Jan 2018 | Water Color | Green |
| D4 | 17 Jan 2018 | Current Direction | N |
| D4 | 17 Jan 2018 | Water Temp (C) | 13.2 |
| D4 | 17 Jan 2018 | Wave Height Low (ft) | 3 |
| D4 | 17 Jan 2018 | High Tide (ft) | 5.7 |
| D4 | 17 Jan 2018 | High Tide Time | 837 |
| D4 | 17 Jan 2018 | Low Tide (ft) | 1.8 |
| D4 | 17 Jan 2018 | Low Tide Time | 233 |
| D4 | 17 Jan 2018 | Comments | Seagrass; Water clear |
| D4 | 24 Jan 2018 | Arrive Time | 753 |
| D4 | 24 Jan 2018 | Weather | Sunny |
| D4 | 24 Jan 2018 | Wind Speed (kts) | 5.1 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|------------------------------------|
| D4 | 24 Jan 2018 | Wind Dir | SE |
| D4 | 24 Jan 2018 | Animal Life | None |
| D4 | 24 Jan 2018 | Floatables | None |
| D4 | 24 Jan 2018 | Water Color | Green |
| D4 | 24 Jan 2018 | Current Direction | SE |
| D4 | 24 Jan 2018 | Water Temp (C) | 13.6 |
| D4 | 24 Jan 2018 | Wave Height Low (ft) | 2 |
| D4 | 24 Jan 2018 | High Tide (ft) | 4.3 |
| D4 | 24 Jan 2018 | High Tide Time | 208 |
| D4 | 24 Jan 2018 | Low Tide (ft) | 1.7 |
| D4 | 24 Jan 2018 | Low Tide Time | 854 |
| D4 | 24 Jan 2018 | Comments | Water clear |
| | | | |
| D4 | 31 Jan 2018 | Arrive Time | 835 |
| D4 | 31 Jan 2018 | Weather | Sunny |
| D4 | 31 Jan 2018 | Wind Speed (kts) | 7.9 |
| D4 | 31 Jan 2018 | Wind Dir | E |
| D4 | 31 Jan 2018 | Animal Life | None |
| D4 | 31 Jan 2018 | Floatables | None |
| D4 | 31 Jan 2018 | Water Color | Green |
| D4 | 31 Jan 2018 | Current Direction | N |
| D4 | 31 Jan 2018 | Water Temp (C) | 14.2 |
| D4 | 31 Jan 2018 | Wave Height Low (ft) | 4 |
| D4 | 31 Jan 2018 | High Tide (ft) | 6.7 |
| D4 | 31 Jan 2018 | High Tide Time | 821 |
| D4 | 31 Jan 2018 | Low Tide (ft) | 1.1 |
| D4 | 31 Jan 2018 | Low Tide Time | 217 |
| D4 | 31 Jan 2018 | Comments | Kelp; Seagrass; Algae; Water clear |
| | | | |
| D5 | 03 Jan 2018 | Arrive Time | 748 |
| D5 | 03 Jan 2018 | Weather | Foggy |
| D5 | 03 Jan 2018 | Wind Speed (kts) | 0 |
| D5 | 03 Jan 2018 | Wind Dir | |
| D5 | 03 Jan 2018 | Animal Life | None |
| D5 | 03 Jan 2018 | Floatables | None |
| D5 | 03 Jan 2018 | Water Color | Green |
| D5 | 03 Jan 2018 | Current Direction | |
| D5 | 03 Jan 2018 | Water Temp (C) | 13.4 |
| D5 | 03 Jan 2018 | Wave Height Low (ft) | 1 |
| D5 | 03 Jan 2018 | High Tide (ft) | 6.7 |
| D5 | 03 Jan 2018 | High Tide Time | 915 |
| D5 | 03 Jan 2018 | Low Tide (ft) | 1.5 |
| D5 | 03 Jan 2018 | Low Tide Time | 310 |
| D5 | 03 Jan 2018 | Comments | Kelp; Water clear |
| | | | |
| D5 | 10 Jan 2018 | Arrive Time | 901 |
| D5 | 10 Jan 2018 | Weather | Sunny |
| D5 | 10 Jan 2018 | Wind Speed (kts) | 2.3 |
| D5 | 10 Jan 2018 | Wind Dir | N |
| D5 | 10 Jan 2018 | Animal Life | None |
| D5 | 10 Jan 2018 | Floatables | None |
| D5 | 10 Jan 2018 | Water Color | Green |
| D5 | 10 Jan 2018 | Current Direction | N |
| D5 | 10 Jan 2018 | Water Temp (C) | 10.9 |
| D5 | 10 Jan 2018 | Wave Height Low (ft) | 2 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|------------------------------------|
| D5 | 10 Jan 2018 | High Tide (ft) | 4.8 |
| D5 | 10 Jan 2018 | High Tide Time | 431 |
| D5 | 10 Jan 2018 | Low Tide (ft) | 0.9 |
| D5 | 10 Jan 2018 | Low Tide Time | 1143 |
| D5 | 10 Jan 2018 | Comments | Water clear |
| D5 | 17 Jan 2018 | Arrive Time | 813 |
| D5 | 17 Jan 2018 | Weather | Foggy |
| D5 | 17 Jan 2018 | Wind Speed (kts) | 2.7 |
| D5 | 17 Jan 2018 | Wind Dir | N |
| D5 | 17 Jan 2018 | Animal Life | None |
| D5 | 17 Jan 2018 | Floatables | None |
| D5 | 17 Jan 2018 | Water Color | Green |
| D5 | 17 Jan 2018 | Current Direction | N |
| D5 | 17 Jan 2018 | Water Temp (C) | 12.6 |
| D5 | 17 Jan 2018 | Wave Height Low (ft) | 3 |
| D5 | 17 Jan 2018 | High Tide (ft) | 5.7 |
| D5 | 17 Jan 2018 | High Tide Time | 837 |
| D5 | 17 Jan 2018 | Low Tide (ft) | 1.8 |
| D5 | 17 Jan 2018 | Low Tide Time | 233 |
| D5 | 17 Jan 2018 | Comments | Kelp; Seagrass; Algae; Water clear |
| D5 | 24 Jan 2018 | Arrive Time | 746 |
| D5 | 24 Jan 2018 | Weather | Sunny |
| D5 | 24 Jan 2018 | Wind Speed (kts) | 1.5 |
| D5 | 24 Jan 2018 | Wind Dir | N |
| D5 | 24 Jan 2018 | Animal Life | None |
| D5 | 24 Jan 2018 | Floatables | None |
| D5 | 24 Jan 2018 | Water Color | Green |
| D5 | 24 Jan 2018 | Current Direction | N |
| D5 | 24 Jan 2018 | Water Temp (C) | 12.4 |
| D5 | 24 Jan 2018 | Wave Height Low (ft) | 1 |
| D5 | 24 Jan 2018 | High Tide (ft) | 4.3 |
| D5 | 24 Jan 2018 | High Tide Time | 208 |
| D5 | 24 Jan 2018 | Low Tide (ft) | 1.7 |
| D5 | 24 Jan 2018 | Low Tide Time | 854 |
| D5 | 24 Jan 2018 | Comments | Kelp; Water clear |
| D5 | 31 Jan 2018 | Arrive Time | 827 |
| D5 | 31 Jan 2018 | Weather | Sunny |
| D5 | 31 Jan 2018 | Wind Speed (kts) | 2.6 |
| D5 | 31 Jan 2018 | Wind Dir | W |
| D5 | 31 Jan 2018 | Animal Life | None |
| D5 | 31 Jan 2018 | Floatables | None |
| D5 | 31 Jan 2018 | Water Color | Green |
| D5 | 31 Jan 2018 | Current Direction | N |
| D5 | 31 Jan 2018 | Water Temp (C) | 12.4 |
| D5 | 31 Jan 2018 | Wave Height Low (ft) | 2 |
| D5 | 31 Jan 2018 | High Tide (ft) | 6.7 |
| D5 | 31 Jan 2018 | High Tide Time | 821 |
| D5 | 31 Jan 2018 | Low Tide (ft) | 1.1 |
| D5 | 31 Jan 2018 | Low Tide Time | 217 |
| D5 | 31 Jan 2018 | Comments | Kelp; Seagrass; Algae; Water clear |
| D7 | 03 Jan 2018 | Arrive Time | 815 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| D7 | 03 Jan 2018 | Weather | Foggy |
| D7 | 03 Jan 2018 | Wind Speed (kts) | 5.5 |
| D7 | 03 Jan 2018 | Wind Dir | S |
| D7 | 03 Jan 2018 | Animal Life | None |
| D7 | 03 Jan 2018 | Floatables | None |
| D7 | 03 Jan 2018 | Water Color | Green |
| D7 | 03 Jan 2018 | Current Direction | S |
| D7 | 03 Jan 2018 | Water Temp (C) | 14 |
| D7 | 03 Jan 2018 | Wave Height Low (ft) | 2 |
| D7 | 03 Jan 2018 | High Tide (ft) | 6.7 |
| D7 | 03 Jan 2018 | High Tide Time | 915 |
| D7 | 03 Jan 2018 | Low Tide (ft) | 1.5 |
| D7 | 03 Jan 2018 | Low Tide Time | 310 |
| D7 | 03 Jan 2018 | Comments | Water clear |
| D7 | 10 Jan 2018 | Arrive Time | 947 |
| D7 | 10 Jan 2018 | Weather | Partly Cloudy |
| D7 | 10 Jan 2018 | Wind Speed (kts) | 1.5 |
| D7 | 10 Jan 2018 | Wind Dir | W |
| D7 | 10 Jan 2018 | Animal Life | None |
| D7 | 10 Jan 2018 | Floatables | None |
| D7 | 10 Jan 2018 | Water Color | Green |
| D7 | 10 Jan 2018 | Current Direction | W |
| D7 | 10 Jan 2018 | Water Temp (C) | 12.6 |
| D7 | 10 Jan 2018 | Wave Height Low (ft) | 3 |
| D7 | 10 Jan 2018 | High Tide (ft) | 4.8 |
| D7 | 10 Jan 2018 | High Tide Time | 431 |
| D7 | 10 Jan 2018 | Low Tide (ft) | 0.9 |
| D7 | 10 Jan 2018 | Low Tide Time | 1143 |
| D7 | 10 Jan 2018 | Comments | Algae; Water clear |
| D7 | 17 Jan 2018 | Arrive Time | 905 |
| D7 | 17 Jan 2018 | Weather | Foggy |
| D7 | 17 Jan 2018 | Wind Speed (kts) | 2.1 |
| D7 | 17 Jan 2018 | Wind Dir | NW |
| D7 | 17 Jan 2018 | Animal Life | None |
| D7 | 17 Jan 2018 | Floatables | None |
| D7 | 17 Jan 2018 | Water Color | Green |
| D7 | 17 Jan 2018 | Current Direction | NW |
| D7 | 17 Jan 2018 | Water Temp (C) | 12.2 |
| D7 | 17 Jan 2018 | Wave Height Low (ft) | 3 |
| D7 | 17 Jan 2018 | High Tide (ft) | 5.7 |
| D7 | 17 Jan 2018 | High Tide Time | 837 |
| D7 | 17 Jan 2018 | Low Tide (ft) | 1.8 |
| D7 | 17 Jan 2018 | Low Tide Time | 233 |
| D7 | 17 Jan 2018 | Comments | Kelp; Seagrass; 4 Persons; Water clear |
| D7 | 24 Jan 2018 | Arrive Time | 818 |
| D7 | 24 Jan 2018 | Weather | Sunny |
| D7 | 24 Jan 2018 | Wind Speed (kts) | 5.6 |
| D7 | 24 Jan 2018 | Wind Dir | SE |
| D7 | 24 Jan 2018 | Animal Life | None |
| D7 | 24 Jan 2018 | Floatables | None |
| D7 | 24 Jan 2018 | Water Color | Green |
| D7 | 24 Jan 2018 | Current Direction | SE |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|------------------------------------|
| D7 | 24 Jan 2018 | Water Temp (C) | 10.9 |
| D7 | 24 Jan 2018 | Wave Height Low (ft) | 2 |
| D7 | 24 Jan 2018 | High Tide (ft) | 3 |
| D7 | 24 Jan 2018 | High Tide Time | 1417 |
| D7 | 24 Jan 2018 | Low Tide (ft) | 1.7 |
| D7 | 24 Jan 2018 | Low Tide Time | 854 |
| D7 | 24 Jan 2018 | Comments | Water clear |
| D7 | 31 Jan 2018 | Arrive Time | 856 |
| D7 | 31 Jan 2018 | Weather | Sunny |
| D7 | 31 Jan 2018 | Wind Speed (kts) | 6.6 |
| D7 | 31 Jan 2018 | Wind Dir | E |
| D7 | 31 Jan 2018 | Animal Life | None |
| D7 | 31 Jan 2018 | Floatables | None |
| D7 | 31 Jan 2018 | Water Color | Green |
| D7 | 31 Jan 2018 | Current Direction | E |
| D7 | 31 Jan 2018 | Water Temp (C) | 14.1 |
| D7 | 31 Jan 2018 | Wave Height Low (ft) | 3 |
| D7 | 31 Jan 2018 | High Tide (ft) | 6.7 |
| D7 | 31 Jan 2018 | High Tide Time | 821 |
| D7 | 31 Jan 2018 | Low Tide (ft) | 1.1 |
| D7 | 31 Jan 2018 | Low Tide Time | 217 |
| D7 | 31 Jan 2018 | Comments | Kelp; Seagrass; Algae; Water clear |
| D8-A | 03 Jan 2018 | Arrive Time | 835 |
| D8-A | 03 Jan 2018 | Weather | Foggy |
| D8-A | 03 Jan 2018 | Wind Speed (kts) | 4.5 |
| D8-A | 03 Jan 2018 | Wind Dir | W |
| D8-A | 03 Jan 2018 | Animal Life | None |
| D8-A | 03 Jan 2018 | Floatables | None |
| D8-A | 03 Jan 2018 | Water Color | Green |
| D8-A | 03 Jan 2018 | Current Direction | W |
| D8-A | 03 Jan 2018 | Water Temp (C) | 14.2 |
| D8-A | 03 Jan 2018 | Wave Height Low (ft) | 2 |
| D8-A | 03 Jan 2018 | High Tide (ft) | 6.7 |
| D8-A | 03 Jan 2018 | High Tide Time | 915 |
| D8-A | 03 Jan 2018 | Low Tide (ft) | 1.5 |
| D8-A | 03 Jan 2018 | Low Tide Time | 310 |
| D8-A | 03 Jan 2018 | Comments | Water clear |
| D8-A | 10 Jan 2018 | Arrive Time | 1000 |
| D8-A | 10 Jan 2018 | Weather | Partly Cloudy |
| D8-A | 10 Jan 2018 | Wind Speed (kts) | 7 |
| D8-A | 10 Jan 2018 | Wind Dir | NW |
| D8-A | 10 Jan 2018 | Animal Life | None |
| D8-A | 10 Jan 2018 | Floatables | None |
| D8-A | 10 Jan 2018 | Water Color | Green |
| D8-A | 10 Jan 2018 | Current Direction | NW |
| D8-A | 10 Jan 2018 | Water Temp (C) | 11.1 |
| D8-A | 10 Jan 2018 | Wave Height Low (ft) | 2 |
| D8-A | 10 Jan 2018 | High Tide (ft) | 4.8 |
| D8-A | 10 Jan 2018 | High Tide Time | 431 |
| D8-A | 10 Jan 2018 | Low Tide (ft) | 0.9 |
| D8-A | 10 Jan 2018 | Low Tide Time | 1143 |
| D8-A | 10 Jan 2018 | Comments | Seagrass; Water clear |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| D8-A | 17 Jan 2018 | Arrive Time | 928 |
| D8-A | 17 Jan 2018 | Weather | Sunny |
| D8-A | 17 Jan 2018 | Wind Speed (kts) | 2.3 |
| D8-A | 17 Jan 2018 | Wind Dir | NW |
| D8-A | 17 Jan 2018 | Animal Life | None |
| D8-A | 17 Jan 2018 | Floatables | None |
| D8-A | 17 Jan 2018 | Water Color | Green |
| D8-A | 17 Jan 2018 | Current Direction | NW |
| D8-A | 17 Jan 2018 | Water Temp (C) | 13 |
| D8-A | 17 Jan 2018 | Wave Height Low (ft) | 3 |
| D8-A | 17 Jan 2018 | High Tide (ft) | 5.7 |
| D8-A | 17 Jan 2018 | High Tide Time | 837 |
| D8-A | 17 Jan 2018 | Low Tide (ft) | -0.7 |
| D8-A | 17 Jan 2018 | Low Tide Time | 1546 |
| D8-A | 17 Jan 2018 | Comments | Seagrass; Water clear |
| D8-A | 24 Jan 2018 | Arrive Time | 830 |
| D8-A | 24 Jan 2018 | Weather | Sunny |
| D8-A | 24 Jan 2018 | Wind Speed (kts) | 2.9 |
| D8-A | 24 Jan 2018 | Wind Dir | N |
| D8-A | 24 Jan 2018 | Animal Life | None |
| D8-A | 24 Jan 2018 | Floatables | None |
| D8-A | 24 Jan 2018 | Water Color | Green |
| D8-A | 24 Jan 2018 | Current Direction | N |
| D8-A | 24 Jan 2018 | Water Temp (C) | 13.1 |
| D8-A | 24 Jan 2018 | Wave Height Low (ft) | 2 |
| D8-A | 24 Jan 2018 | High Tide (ft) | 3 |
| D8-A | 24 Jan 2018 | High Tide Time | 1417 |
| D8-A | 24 Jan 2018 | Low Tide (ft) | 1.7 |
| D8-A | 24 Jan 2018 | Low Tide Time | 854 |
| D8-A | 24 Jan 2018 | Comments | Water clear |
| D8-A | 31 Jan 2018 | Arrive Time | 908 |
| D8-A | 31 Jan 2018 | Weather | Sunny |
| D8-A | 31 Jan 2018 | Wind Speed (kts) | 5.6 |
| D8-A | 31 Jan 2018 | Wind Dir | NE |
| D8-A | 31 Jan 2018 | Animal Life | None |
| D8-A | 31 Jan 2018 | Floatables | None |
| D8-A | 31 Jan 2018 | Water Color | Green |
| D8-A | 31 Jan 2018 | Current Direction | N |
| D8-A | 31 Jan 2018 | Water Temp (C) | 13.8 |
| D8-A | 31 Jan 2018 | Wave Height Low (ft) | 3 |
| D8-A | 31 Jan 2018 | High Tide (ft) | 6.7 |
| D8-A | 31 Jan 2018 | High Tide Time | 821 |
| D8-A | 31 Jan 2018 | Low Tide (ft) | -1.8 |
| D8-A | 31 Jan 2018 | Low Tide Time | 1525 |
| D8-A | 31 Jan 2018 | Comments | Kelp; Seagrass; Algae; 1 Person; Water clear |
| D9 | 03 Jan 2018 | Arrive Time | 843 |
| D9 | 03 Jan 2018 | Weather | Foggy |
| D9 | 03 Jan 2018 | Wind Speed (kts) | 1.7 |
| D9 | 03 Jan 2018 | Wind Dir | W |
| D9 | 03 Jan 2018 | Animal Life | None |
| D9 | 03 Jan 2018 | Floatables | None |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|-----------------------|
| D9 | 03 Jan 2018 | Water Color | Green |
| D9 | 03 Jan 2018 | Current Direction | W |
| D9 | 03 Jan 2018 | Water Temp (C) | 13.9 |
| D9 | 03 Jan 2018 | Wave Height Low (ft) | 2 |
| D9 | 03 Jan 2018 | High Tide (ft) | 6.7 |
| D9 | 03 Jan 2018 | High Tide Time | 915 |
| D9 | 03 Jan 2018 | Low Tide (ft) | 1.5 |
| D9 | 03 Jan 2018 | Low Tide Time | 310 |
| D9 | 03 Jan 2018 | Comments | 1 Person; Water clear |
| D9 | 04 Jan 2018 | Arrive Time | 956 |
| D9 | 04 Jan 2018 | Weather | Sunny |
| D9 | 04 Jan 2018 | Wind Speed (kts) | 1.4 |
| D9 | 04 Jan 2018 | Wind Dir | W |
| D9 | 04 Jan 2018 | Animal Life | None |
| D9 | 04 Jan 2018 | Floatables | None |
| D9 | 04 Jan 2018 | Water Color | Green |
| D9 | 04 Jan 2018 | Current Direction | W |
| D9 | 04 Jan 2018 | Water Temp (C) | 12.1 |
| D9 | 04 Jan 2018 | Wave Height Low (ft) | 2 |
| D9 | 04 Jan 2018 | High Tide (ft) | 6.3 |
| D9 | 04 Jan 2018 | High Tide Time | 1003 |
| D9 | 04 Jan 2018 | Low Tide (ft) | 1.6 |
| D9 | 04 Jan 2018 | Low Tide Time | 402 |
| D9 | 04 Jan 2018 | Comments | Algae; Water clear |
| D9 | 10 Jan 2018 | Arrive Time | 1011 |
| D9 | 10 Jan 2018 | Weather | Partly Cloudy |
| D9 | 10 Jan 2018 | Wind Speed (kts) | 5.4 |
| D9 | 10 Jan 2018 | Wind Dir | W |
| D9 | 10 Jan 2018 | Animal Life | None |
| D9 | 10 Jan 2018 | Floatables | None |
| D9 | 10 Jan 2018 | Water Color | Green |
| D9 | 10 Jan 2018 | Current Direction | W |
| D9 | 10 Jan 2018 | Water Temp (C) | 11 |
| D9 | 10 Jan 2018 | Wave Height Low (ft) | 2 |
| D9 | 10 Jan 2018 | High Tide (ft) | 4.8 |
| D9 | 10 Jan 2018 | High Tide Time | 431 |
| D9 | 10 Jan 2018 | Low Tide (ft) | 0.9 |
| D9 | 10 Jan 2018 | Low Tide Time | 1143 |
| D9 | 10 Jan 2018 | Comments | Algae; Water clear |
| D9 | 12 Jan 2018 | Arrive Time | 928 |
| D9 | 12 Jan 2018 | Weather | Cloudy |
| D9 | 12 Jan 2018 | Wind Speed (kts) | 2.1 |
| D9 | 12 Jan 2018 | Wind Dir | W |
| D9 | 12 Jan 2018 | Animal Life | None |
| D9 | 12 Jan 2018 | Floatables | None |
| D9 | 12 Jan 2018 | Water Color | Green |
| D9 | 12 Jan 2018 | Current Direction | N |
| D9 | 12 Jan 2018 | Water Temp (C) | 11.4 |
| D9 | 12 Jan 2018 | Wave Height Low (ft) | 4 |
| D9 | 12 Jan 2018 | High Tide (ft) | 5.3 |
| D9 | 12 Jan 2018 | High Tide Time | 555 |
| D9 | 12 Jan 2018 | Low Tide (ft) | 0 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| D9 | 12 Jan 2018 | Low Tide Time | 1314 |
| D9 | 12 Jan 2018 | Comments | Kelp; Seagrass; Algae; 3 Surfers; Water clear |
| D9 | 17 Jan 2018 | Arrive Time | 938 |
| D9 | 17 Jan 2018 | Weather | Sunny |
| D9 | 17 Jan 2018 | Wind Speed (kts) | 1.1 |
| D9 | 17 Jan 2018 | Wind Dir | NW |
| D9 | 17 Jan 2018 | Animal Life | None |
| D9 | 17 Jan 2018 | Floatables | None |
| D9 | 17 Jan 2018 | Water Color | Green |
| D9 | 17 Jan 2018 | Current Direction | NW |
| D9 | 17 Jan 2018 | Water Temp (C) | 13.3 |
| D9 | 17 Jan 2018 | Wave Height Low (ft) | 2 |
| D9 | 17 Jan 2018 | High Tide (ft) | 5.7 |
| D9 | 17 Jan 2018 | High Tide Time | 837 |
| D9 | 17 Jan 2018 | Low Tide (ft) | -0.7 |
| D9 | 17 Jan 2018 | Low Tide Time | 1546 |
| D9 | 17 Jan 2018 | Comments | Kelp; Seagrass; Algae; 2 Persons; Water clear |
| D9 | 24 Jan 2018 | Arrive Time | 844 |
| D9 | 24 Jan 2018 | Weather | Sunny |
| D9 | 24 Jan 2018 | Wind Speed (kts) | 5.3 |
| D9 | 24 Jan 2018 | Wind Dir | SW |
| D9 | 24 Jan 2018 | Animal Life | None |
| D9 | 24 Jan 2018 | Floatables | None |
| D9 | 24 Jan 2018 | Water Color | Green |
| D9 | 24 Jan 2018 | Current Direction | SW |
| D9 | 24 Jan 2018 | Water Temp (C) | 14.1 |
| D9 | 24 Jan 2018 | Wave Height Low (ft) | 3 |
| D9 | 24 Jan 2018 | High Tide (ft) | 3 |
| D9 | 24 Jan 2018 | High Tide Time | 1417 |
| D9 | 24 Jan 2018 | Low Tide (ft) | 1.7 |
| D9 | 24 Jan 2018 | Low Tide Time | 854 |
| D9 | 24 Jan 2018 | Comments | Sewage-like odor; Water clear |
| D9 | 31 Jan 2018 | Arrive Time | 920 |
| D9 | 31 Jan 2018 | Weather | Sunny |
| D9 | 31 Jan 2018 | Wind Speed (kts) | 2.2 |
| D9 | 31 Jan 2018 | Wind Dir | E |
| D9 | 31 Jan 2018 | Animal Life | None |
| D9 | 31 Jan 2018 | Floatables | None |
| D9 | 31 Jan 2018 | Water Color | Green |
| D9 | 31 Jan 2018 | Current Direction | N |
| D9 | 31 Jan 2018 | Water Temp (C) | 13.5 |
| D9 | 31 Jan 2018 | Wave Height Low (ft) | 3 |
| D9 | 31 Jan 2018 | High Tide (ft) | 6.7 |
| D9 | 31 Jan 2018 | High Tide Time | 821 |
| D9 | 31 Jan 2018 | Low Tide (ft) | -1.8 |
| D9 | 31 Jan 2018 | Low Tide Time | 1525 |
| D9 | 31 Jan 2018 | Comments | Kelp; Seagrass; Algae; 3 Persons; Water clear |
| D10 | 03 Jan 2018 | Arrive Time | 851 |
| D10 | 03 Jan 2018 | Weather | Foggy |
| D10 | 03 Jan 2018 | Wind Speed (kts) | 4.3 |
| D10 | 03 Jan 2018 | Wind Dir | W |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| D10 | 03 Jan 2018 | Animal Life | None |
| D10 | 03 Jan 2018 | Floatables | None |
| D10 | 03 Jan 2018 | Water Color | Green |
| D10 | 03 Jan 2018 | Current Direction | W |
| D10 | 03 Jan 2018 | Water Temp (C) | 15.1 |
| D10 | 03 Jan 2018 | Wave Height Low (ft) | 2 |
| D10 | 03 Jan 2018 | High Tide (ft) | 6.7 |
| D10 | 03 Jan 2018 | High Tide Time | 915 |
| D10 | 03 Jan 2018 | Low Tide (ft) | 1.5 |
| D10 | 03 Jan 2018 | Low Tide Time | 310 |
| D10 | 03 Jan 2018 | Comments | 2 Persons; 20 Surfers; Water clear |
| | | | |
| D10 | 10 Jan 2018 | Arrive Time | 1024 |
| D10 | 10 Jan 2018 | Weather | Partly Cloudy |
| D10 | 10 Jan 2018 | Wind Speed (kts) | 6.1 |
| D10 | 10 Jan 2018 | Wind Dir | W |
| D10 | 10 Jan 2018 | Animal Life | None |
| D10 | 10 Jan 2018 | Floatables | None |
| D10 | 10 Jan 2018 | Water Color | Green |
| D10 | 10 Jan 2018 | Current Direction | W |
| D10 | 10 Jan 2018 | Water Temp (C) | 12.1 |
| D10 | 10 Jan 2018 | Wave Height Low (ft) | 3 |
| D10 | 10 Jan 2018 | High Tide (ft) | 4.8 |
| D10 | 10 Jan 2018 | High Tide Time | 431 |
| D10 | 10 Jan 2018 | Low Tide (ft) | 0.9 |
| D10 | 10 Jan 2018 | Low Tide Time | 1143 |
| D10 | 10 Jan 2018 | Comments | Kelp; Seagrass; 2 Persons; Water clear |
| | | | |
| D10 | 12 Jan 2018 | Arrive Time | 936 |
| D10 | 12 Jan 2018 | Weather | Drizzle |
| D10 | 12 Jan 2018 | Wind Speed (kts) | 2.3 |
| D10 | 12 Jan 2018 | Wind Dir | W |
| D10 | 12 Jan 2018 | Animal Life | None |
| D10 | 12 Jan 2018 | Floatables | None |
| D10 | 12 Jan 2018 | Water Color | Green |
| D10 | 12 Jan 2018 | Current Direction | N |
| D10 | 12 Jan 2018 | Water Temp (C) | 11.2 |
| D10 | 12 Jan 2018 | Wave Height Low (ft) | 4 |
| D10 | 12 Jan 2018 | High Tide (ft) | 5.3 |
| D10 | 12 Jan 2018 | High Tide Time | 555 |
| D10 | 12 Jan 2018 | Low Tide (ft) | 0 |
| D10 | 12 Jan 2018 | Low Tide Time | 1314 |
| D10 | 12 Jan 2018 | Comments | Kelp; Seagrass; 7 Surfers; Water clear |
| | | | |
| D10 | 17 Jan 2018 | Arrive Time | 954 |
| D10 | 17 Jan 2018 | Weather | Sunny |
| D10 | 17 Jan 2018 | Wind Speed (kts) | 2.7 |
| D10 | 17 Jan 2018 | Wind Dir | NW |
| D10 | 17 Jan 2018 | Animal Life | None |
| D10 | 17 Jan 2018 | Floatables | None |
| D10 | 17 Jan 2018 | Water Color | Green |
| D10 | 17 Jan 2018 | Current Direction | NW |
| D10 | 17 Jan 2018 | Water Temp (C) | 13.8 |
| D10 | 17 Jan 2018 | Wave Height Low (ft) | 4 |
| D10 | 17 Jan 2018 | High Tide (ft) | 5.7 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| D10 | 17 Jan 2018 | High Tide Time | 837 |
| D10 | 17 Jan 2018 | Low Tide (ft) | -0.7 |
| D10 | 17 Jan 2018 | Low Tide Time | 1546 |
| D10 | 17 Jan 2018 | Comments | Seagrass; 8 Persons; 2 Surfers; Water clear |
| D10 | 24 Jan 2018 | Arrive Time | 854 |
| D10 | 24 Jan 2018 | Weather | Sunny |
| D10 | 24 Jan 2018 | Wind Speed (kts) | 0.5 |
| D10 | 24 Jan 2018 | Wind Dir | N |
| D10 | 24 Jan 2018 | Animal Life | None |
| D10 | 24 Jan 2018 | Floatables | None |
| D10 | 24 Jan 2018 | Water Color | Green |
| D10 | 24 Jan 2018 | Current Direction | N |
| D10 | 24 Jan 2018 | Water Temp (C) | 13.3 |
| D10 | 24 Jan 2018 | Wave Height Low (ft) | 3 |
| D10 | 24 Jan 2018 | High Tide (ft) | 3 |
| D10 | 24 Jan 2018 | High Tide Time | 1417 |
| D10 | 24 Jan 2018 | Low Tide (ft) | 1.7 |
| D10 | 24 Jan 2018 | Low Tide Time | 854 |
| D10 | 24 Jan 2018 | Comments | Kelp; 16 Surfers; Water clear |
| D10 | 31 Jan 2018 | Arrive Time | 931 |
| D10 | 31 Jan 2018 | Weather | Sunny |
| D10 | 31 Jan 2018 | Wind Speed (kts) | 3.2 |
| D10 | 31 Jan 2018 | Wind Dir | E |
| D10 | 31 Jan 2018 | Animal Life | None |
| D10 | 31 Jan 2018 | Floatables | None |
| D10 | 31 Jan 2018 | Water Color | Green |
| D10 | 31 Jan 2018 | Current Direction | N |
| D10 | 31 Jan 2018 | Water Temp (C) | 10.2 |
| D10 | 31 Jan 2018 | Wave Height Low (ft) | 4 |
| D10 | 31 Jan 2018 | High Tide (ft) | 6.7 |
| D10 | 31 Jan 2018 | High Tide Time | 821 |
| D10 | 31 Jan 2018 | Low Tide (ft) | -1.8 |
| D10 | 31 Jan 2018 | Low Tide Time | 1525 |
| D10 | 31 Jan 2018 | Comments | Kelp; 4 Persons; 5 Surfers; Water clear |
| D11 | 03 Jan 2018 | Arrive Time | 900 |
| D11 | 03 Jan 2018 | Weather | Hazy |
| D11 | 03 Jan 2018 | Wind Speed (kts) | 4.1 |
| D11 | 03 Jan 2018 | Wind Dir | NW |
| D11 | 03 Jan 2018 | Animal Life | None |
| D11 | 03 Jan 2018 | Floatables | None |
| D11 | 03 Jan 2018 | Water Color | Green |
| D11 | 03 Jan 2018 | Current Direction | NW |
| D11 | 03 Jan 2018 | Water Temp (C) | 15.1 |
| D11 | 03 Jan 2018 | Wave Height Low (ft) | 3 |
| D11 | 03 Jan 2018 | High Tide (ft) | 6.7 |
| D11 | 03 Jan 2018 | High Tide Time | 915 |
| D11 | 03 Jan 2018 | Low Tide (ft) | 1.5 |
| D11 | 03 Jan 2018 | Low Tide Time | 310 |
| D11 | 03 Jan 2018 | Comments | 6 Persons; 15 Surfers; Water clear |
| D11 | 10 Jan 2018 | Arrive Time | 1035 |
| D11 | 10 Jan 2018 | Weather | Moderate Rain |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| D11 | 10 Jan 2018 | Wind Speed (kts) | 4.3 |
| D11 | 10 Jan 2018 | Wind Dir | W |
| D11 | 10 Jan 2018 | Animal Life | None |
| D11 | 10 Jan 2018 | Floatables | Foam |
| D11 | 10 Jan 2018 | Water Color | Green |
| D11 | 10 Jan 2018 | Current Direction | W |
| D11 | 10 Jan 2018 | Water Temp (C) | |
| D11 | 10 Jan 2018 | Wave Height Low (ft) | 2 |
| D11 | 10 Jan 2018 | High Tide (ft) | 4.8 |
| D11 | 10 Jan 2018 | High Tide Time | 431 |
| D11 | 10 Jan 2018 | Low Tide (ft) | 0.9 |
| D11 | 10 Jan 2018 | Low Tide Time | 1143 |
| D11 | 10 Jan 2018 | Comments | 3 Persons; Water clear |
| D11 | 12 Jan 2018 | Arrive Time | 940 |
| D11 | 12 Jan 2018 | Weather | Foggy |
| D11 | 12 Jan 2018 | Wind Speed (kts) | 1.5 |
| D11 | 12 Jan 2018 | Wind Dir | W |
| D11 | 12 Jan 2018 | Animal Life | None |
| D11 | 12 Jan 2018 | Floatables | None |
| D11 | 12 Jan 2018 | Water Color | Green |
| D11 | 12 Jan 2018 | Current Direction | N |
| D11 | 12 Jan 2018 | Water Temp (C) | 11.5 |
| D11 | 12 Jan 2018 | Wave Height Low (ft) | 3 |
| D11 | 12 Jan 2018 | High Tide (ft) | 5.3 |
| D11 | 12 Jan 2018 | High Tide Time | 555 |
| D11 | 12 Jan 2018 | Low Tide (ft) | 0 |
| D11 | 12 Jan 2018 | Low Tide Time | 1314 |
| D11 | 12 Jan 2018 | Comments | Kelp; Seagrass; 3 Persons; Water clear |
| D11 | 17 Jan 2018 | Arrive Time | 1007 |
| D11 | 17 Jan 2018 | Weather | Sunny |
| D11 | 17 Jan 2018 | Wind Speed (kts) | 3.1 |
| D11 | 17 Jan 2018 | Wind Dir | W |
| D11 | 17 Jan 2018 | Animal Life | None |
| D11 | 17 Jan 2018 | Floatables | None |
| D11 | 17 Jan 2018 | Water Color | Green |
| D11 | 17 Jan 2018 | Current Direction | W |
| D11 | 17 Jan 2018 | Water Temp (C) | 13.9 |
| D11 | 17 Jan 2018 | Wave Height Low (ft) | 4 |
| D11 | 17 Jan 2018 | High Tide (ft) | 5.7 |
| D11 | 17 Jan 2018 | High Tide Time | 837 |
| D11 | 17 Jan 2018 | Low Tide (ft) | -0.7 |
| D11 | 17 Jan 2018 | Low Tide Time | 1546 |
| D11 | 17 Jan 2018 | Comments | Kelp; Seagrass; Algae; 8 Persons; 4 Surfers; Water clear |
| D11 | 24 Jan 2018 | Arrive Time | 859 |
| D11 | 24 Jan 2018 | Weather | Sunny |
| D11 | 24 Jan 2018 | Wind Speed (kts) | 0 |
| D11 | 24 Jan 2018 | Wind Dir | |
| D11 | 24 Jan 2018 | Animal Life | None |
| D11 | 24 Jan 2018 | Floatables | None |
| D11 | 24 Jan 2018 | Water Color | Green |
| D11 | 24 Jan 2018 | Current Direction | |
| D11 | 24 Jan 2018 | Water Temp (C) | 10.7 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|-----------------------------------|
| D11 | 24 Jan 2018 | Wave Height Low (ft) | 3 |
| D11 | 24 Jan 2018 | High Tide (ft) | 3 |
| D11 | 24 Jan 2018 | High Tide Time | 1417 |
| D11 | 24 Jan 2018 | Low Tide (ft) | 1.7 |
| D11 | 24 Jan 2018 | Low Tide Time | 854 |
| D11 | 24 Jan 2018 | Comments | 5 Persons; 8 Surfers; Water clear |
| D11 | 31 Jan 2018 | Arrive Time | 951 |
| D11 | 31 Jan 2018 | Weather | Sunny |
| D11 | 31 Jan 2018 | Wind Speed (kts) | 4.5 |
| D11 | 31 Jan 2018 | Wind Dir | E |
| D11 | 31 Jan 2018 | Animal Life | None |
| D11 | 31 Jan 2018 | Floatables | None |
| D11 | 31 Jan 2018 | Water Color | Green |
| D11 | 31 Jan 2018 | Current Direction | N |
| D11 | 31 Jan 2018 | Water Temp (C) | 11.1 |
| D11 | 31 Jan 2018 | Wave Height Low (ft) | 4 |
| D11 | 31 Jan 2018 | High Tide (ft) | 6.7 |
| D11 | 31 Jan 2018 | High Tide Time | 821 |
| D11 | 31 Jan 2018 | Low Tide (ft) | -1.8 |
| D11 | 31 Jan 2018 | Low Tide Time | 1525 |
| D11 | 31 Jan 2018 | Comments | Kelp; 3 Persons; Water clear |
| D12 | 03 Jan 2018 | Arrive Time | 918 |
| D12 | 03 Jan 2018 | Weather | Hazy |
| D12 | 03 Jan 2018 | Wind Speed (kts) | 4.1 |
| D12 | 03 Jan 2018 | Wind Dir | NW |
| D12 | 03 Jan 2018 | Animal Life | None |
| D12 | 03 Jan 2018 | Floatables | None |
| D12 | 03 Jan 2018 | Water Color | Green |
| D12 | 03 Jan 2018 | Current Direction | NW |
| D12 | 03 Jan 2018 | Water Temp (C) | 13 |
| D12 | 03 Jan 2018 | Wave Height Low (ft) | 3 |
| D12 | 03 Jan 2018 | High Tide (ft) | 6.7 |
| D12 | 03 Jan 2018 | High Tide Time | 915 |
| D12 | 03 Jan 2018 | Low Tide (ft) | 1.5 |
| D12 | 03 Jan 2018 | Low Tide Time | 310 |
| D12 | 03 Jan 2018 | Comments | 5 Persons; Water clear |
| D12 | 10 Jan 2018 | Arrive Time | 1054 |
| D12 | 10 Jan 2018 | Weather | Moderate Rain |
| D12 | 10 Jan 2018 | Wind Speed (kts) | 4 |
| D12 | 10 Jan 2018 | Wind Dir | W |
| D12 | 10 Jan 2018 | Animal Life | None |
| D12 | 10 Jan 2018 | Floatables | None |
| D12 | 10 Jan 2018 | Water Color | Colorless |
| D12 | 10 Jan 2018 | Current Direction | W |
| D12 | 10 Jan 2018 | Water Temp (C) | 10.9 |
| D12 | 10 Jan 2018 | Wave Height Low (ft) | 2 |
| D12 | 10 Jan 2018 | High Tide (ft) | 4.8 |
| D12 | 10 Jan 2018 | High Tide Time | 431 |
| D12 | 10 Jan 2018 | Low Tide (ft) | 0.9 |
| D12 | 10 Jan 2018 | Low Tide Time | 1143 |
| D12 | 10 Jan 2018 | Comments | 5 Persons; Water clear |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| D12 | 17 Jan 2018 | Arrive Time | 1042 |
| D12 | 17 Jan 2018 | Weather | Sunny |
| D12 | 17 Jan 2018 | Wind Speed (kts) | 3.4 |
| D12 | 17 Jan 2018 | Wind Dir | W |
| D12 | 17 Jan 2018 | Animal Life | None |
| D12 | 17 Jan 2018 | Floatables | None |
| D12 | 17 Jan 2018 | Water Color | Green |
| D12 | 17 Jan 2018 | Current Direction | W |
| D12 | 17 Jan 2018 | Water Temp (C) | 14 |
| D12 | 17 Jan 2018 | Wave Height Low (ft) | 3 |
| D12 | 17 Jan 2018 | High Tide (ft) | 5.7 |
| D12 | 17 Jan 2018 | High Tide Time | 837 |
| D12 | 17 Jan 2018 | Low Tide (ft) | -0.7 |
| D12 | 17 Jan 2018 | Low Tide Time | 1546 |
| D12 | 17 Jan 2018 | Comments | Kelp; Seagrass; 16 Persons; Water clear |
| D12 | 24 Jan 2018 | Arrive Time | 926 |
| D12 | 24 Jan 2018 | Weather | Sunny |
| D12 | 24 Jan 2018 | Wind Speed (kts) | 0 |
| D12 | 24 Jan 2018 | Wind Dir | |
| D12 | 24 Jan 2018 | Animal Life | None |
| D12 | 24 Jan 2018 | Floatables | None |
| D12 | 24 Jan 2018 | Water Color | Green |
| D12 | 24 Jan 2018 | Current Direction | |
| D12 | 24 Jan 2018 | Water Temp (C) | 12 |
| D12 | 24 Jan 2018 | Wave Height Low (ft) | 3 |
| D12 | 24 Jan 2018 | High Tide (ft) | 3 |
| D12 | 24 Jan 2018 | High Tide Time | 1417 |
| D12 | 24 Jan 2018 | Low Tide (ft) | 1.7 |
| D12 | 24 Jan 2018 | Low Tide Time | 854 |
| D12 | 24 Jan 2018 | Comments | 5 Persons; 4 Surfers; Water clear |
| D12 | 31 Jan 2018 | Arrive Time | 1008 |
| D12 | 31 Jan 2018 | Weather | Sunny |
| D12 | 31 Jan 2018 | Wind Speed (kts) | 3.8 |
| D12 | 31 Jan 2018 | Wind Dir | E |
| D12 | 31 Jan 2018 | Animal Life | None |
| D12 | 31 Jan 2018 | Floatables | None |
| D12 | 31 Jan 2018 | Water Color | Green |
| D12 | 31 Jan 2018 | Current Direction | N |
| D12 | 31 Jan 2018 | Water Temp (C) | 11.3 |
| D12 | 31 Jan 2018 | Wave Height Low (ft) | 3 |
| D12 | 31 Jan 2018 | High Tide (ft) | 6.7 |
| D12 | 31 Jan 2018 | High Tide Time | 821 |
| D12 | 31 Jan 2018 | Low Tide (ft) | -1.8 |
| D12 | 31 Jan 2018 | Low Tide Time | 1525 |
| D12 | 31 Jan 2018 | Comments | Kelp; 3 Persons; Water clear |

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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 Jan 2018 | 7* | 4* | 12* | 8* | 5* | 4* | 4* | 3* |
| 02 Jan 2018 | 7* | 4* | 12* | 8* | 5* | 4* | 4* | 3* |
| 03 Jan 2018 | 3* | 4* | 11* | 5* | 4* | 4* | 4* | 2* |
| 04 Jan 2018 | 3* | 4* | 11* | 5* | 4* | 4* | 4* | 2* |
| 05 Jan 2018 | 3* | 4* | 11* | 5* | 4* | 4* | 4* | 2* |
| 06 Jan 2018 | 3* | 4* | 11* | 5* | 4* | 4* | 4* | 2* |
| 07 Jan 2018 | 3* | 4* | 11* | 5* | 4* | 4* | 4* | 2* |
| 08 Jan 2018 | 3* | 4* | 11* | 5* | 4* | 4* | 4* | 2* |
| 09 Jan 2018 | 3* | 4* | 11* | 5* | 4* | 4* | 4* | 2* |
| 10 Jan 2018 | 3* | 4* | 11* | 5* | 4* | 4* | 4* | 2* |
| 11 Jan 2018 | 4 | 5 | 12 | 7 | 6 | 5 | 8 | 6 |
| 12 Jan 2018 | 4 | 5 | 12 | 7 | 6 | 5 | 8 | 6 |
| 13 Jan 2018 | 5* | 7* | 18* | 7* | 8* | 3* | 9* | 7* |
| 14 Jan 2018 | 5* | 7* | 18* | 7* | 8* | 3* | 9* | 7* |
| 15 Jan 2018 | 5* | 7* | 18* | 7* | 8* | 3* | 9* | 7* |
| 16 Jan 2018 | 4 | 5 | 13 | 7 | 10 | 4 | 9 | 8 |
| 17 Jan 2018 | 4 | 5 | 13 | 7 | 10 | 4 | 9 | 8 |
| 18 Jan 2018 | 4 | 5 | 13 | 7 | 10 | 4 | 9 | 8 |
| 19 Jan 2018 | 4 | 5 | 13 | 7 | 10 | 4 | 9 | 8 |
| 20 Jan 2018 | 4 | 5 | 13 | 7 | 10 | 4 | 9 | 8 |
| 21 Jan 2018 | 3* | 5* | 9* | 5* | 11* | 5* | 13* | 11* |
| 22 Jan 2018 | 4 | 4 | 8 | 4 | 8 | 4 | 11 | 11 |
| 23 Jan 2018 | 4 | 4 | 8 | 4 | 8 | 4 | 11 | 11 |
| 24 Jan 2018 | 4 | 4 | 8 | 4 | 8 | 4 | 11 | 11 |
| 25 Jan 2018 | 5* | 5* | 8* | 5* | 10* | 5* | 17* | 16* |
| 26 Jan 2018 | 5* | 5* | 8* | 5* | 10* | 5* | 17* | 16* |
| 27 Jan 2018 | 5* | 5* | 8* | 5* | 10* | 5* | 17* | 16* |
| 28 Jan 2018 | 5* | 5* | 8* | 5* | 10* | 5* | 17* | 16* |
| 29 Jan 2018 | 6 | 6 | 8 | 4 | 7 | 4 | 16 | 13 |
| 30 Jan 2018 | 6 | 6 | 8 | 4 | 7 | 4 | 16 | 13 |
| 31 Jan 2018 | 6 | 6 | 8 | 4 | 7 | 4 | 16 | 13 |

* 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 Jan 2018 | 3* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 02 Jan 2018 | 3* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 03 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 04 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 05 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 06 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 07 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 08 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 09 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 10 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 2* | 2* |
| 11 Jan 2018 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| 12 Jan 2018 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| 13 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 4* | 3* |
| 14 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 4* | 3* |
| 15 Jan 2018 | 2* | 2* | 3* | 2* | 2* | 2* | 4* | 3* |
| 16 Jan 2018 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| 17 Jan 2018 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| 18 Jan 2018 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| 19 Jan 2018 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| 20 Jan 2018 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| 21 Jan 2018 | 2* | 2* | 2* | 2* | 2* | 2* | 4* | 3* |
| 22 Jan 2018 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 23 Jan 2018 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 24 Jan 2018 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 25 Jan 2018 | 2* | 2* | 2* | 2* | 2* | 2* | 4* | 3* |
| 26 Jan 2018 | 2* | 2* | 2* | 2* | 2* | 2* | 4* | 3* |
| 27 Jan 2018 | 2* | 2* | 2* | 2* | 2* | 2* | 4* | 3* |
| 28 Jan 2018 | 2* | 2* | 2* | 2* | 2* | 2* | 4* | 3* |
| 29 Jan 2018 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 30 Jan 2018 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 31 Jan 2018 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |

* 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 Jan 2018 | 2* | 2* | 2* | 2* | 2* | 2* | 2* | 2* |
| 02 Jan 2018 | 2* | 2* | 2* | 2* | 2* | 2* | 2* | 2* |
| 03 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 2* | 4* |
| 04 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 2* | 4* |
| 05 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 2* | 4* |
| 06 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 2* | 4* |
| 07 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 2* | 4* |
| 08 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 2* | 4* |
| 09 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 2* | 4* |
| 10 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 2* | 4* |
| 11 Jan 2018 | 4 | 2 | 4 | 2 | 2 | 2 | 3 | 5 |
| 12 Jan 2018 | 4 | 2 | 4 | 2 | 2 | 2 | 3 | 5 |
| 13 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 3* | 6* |
| 14 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 3* | 6* |
| 15 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 3* | 6* |
| 16 Jan 2018 | 4 | 2 | 4 | 2 | 2 | 2 | 3 | 5 |
| 17 Jan 2018 | 4 | 2 | 4 | 2 | 2 | 2 | 3 | 5 |
| 18 Jan 2018 | 4 | 2 | 4 | 2 | 2 | 2 | 3 | 5 |
| 19 Jan 2018 | 4 | 2 | 4 | 2 | 2 | 2 | 3 | 5 |
| 20 Jan 2018 | 4 | 2 | 4 | 2 | 2 | 2 | 3 | 5 |
| 21 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 3* | 7* |
| 22 Jan 2018 | 4 | 2 | 3 | 2 | 2 | 2 | 3 | 5 |
| 23 Jan 2018 | 4 | 2 | 3 | 2 | 2 | 2 | 3 | 5 |
| 24 Jan 2018 | 4 | 2 | 3 | 2 | 2 | 2 | 3 | 5 |
| 25 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 3* | 7* |
| 26 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 3* | 7* |
| 27 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 3* | 7* |
| 28 Jan 2018 | 4* | 2* | 4* | 2* | 2* | 2* | 3* | 7* |
| 29 Jan 2018 | 4 | 2 | 3 | 2 | 2 | 2 | 3 | 5 |
| 30 Jan 2018 | 4 | 2 | 3 | 2 | 2 | 2 | 3 | 5 |
| 31 Jan 2018 | 4 | 2 | 3 | 2 | 2 | 2 | 3 | 5 |

* 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 |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 03 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 11 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 16 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 22 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 29 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | 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 |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 03 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 11 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 16 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 22 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 29 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | 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 |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 03 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 11 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 16 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 22 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 29 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | 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 |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 03 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 11 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 16 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 22 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | IC |
| 29 Jan 2018 | IC | IC | IC | IC | IC | IC | IC | 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* (Entero) 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 | Entero | F:T | Temp | XMS | DO | Sal | pH |
|---------|-------------|------|-------|-------|-------|--------|------|------|-------|-----|-------|-----|
| A1 | 03 Jan 2018 | 845 | 1 | 2e | <2 | <2 | 1.00 | 15.9 | 88.43 | 7.6 | 33.50 | 8.2 |
| A1 | 03 Jan 2018 | 845 | 12 | 2e | <2 | 88 | 1.00 | 15.8 | 88.42 | 7.6 | 33.50 | 8.2 |
| A1 | 03 Jan 2018 | 845 | 18 | 2e | <2 | 58 | 1.00 | 15.8 | 88.02 | 7.5 | 33.50 | 8.2 |
| A1 | 11 Jan 2018 | 814 | 1 | <20 | <2 | <2 | 0.10 | 15.8 | 82.33 | 7.3 | 33.45 | 8.1 |
| A1 | 11 Jan 2018 | 814 | 12 | 6e | <2 | <2 | 0.33 | 15.7 | 81.77 | 7.3 | 33.45 | 8.1 |
| A1 | 11 Jan 2018 | 814 | 18 | 24e | 2e | <2 | 0.08 | 15.6 | 84.20 | 7.2 | 33.46 | 8.1 |
| A1 | 16 Jan 2018 | 857 | 1 | <2 | <2 | 2e | 1.00 | 16.1 | 84.28 | 7.6 | 33.43 | 8.1 |
| A1 | 16 Jan 2018 | 857 | 12 | 2e | <2 | 2e | 1.00 | 15.8 | 83.93 | 7.3 | 33.45 | 8.1 |
| A1 | 16 Jan 2018 | 857 | 18 | 2e | <2 | <2 | 1.00 | 14.9 | 77.37 | 6.8 | 33.44 | 8.1 |
| A1 | 22 Jan 2018 | 757 | 1 | <20 | 2e | <2 | 0.10 | 14.9 | 84.56 | 7.6 | 33.45 | 8.1 |
| A1 | 22 Jan 2018 | 757 | 12 | 2e | <2 | <2 | 1.00 | 14.7 | 83.58 | 7.5 | 33.45 | 8.1 |
| A1 | 22 Jan 2018 | 757 | 18 | <2 | <2 | <2 | 1.00 | 14.4 | 83.35 | 7.3 | 33.43 | 8.1 |
| A1 | 29 Jan 2018 | 758 | 1 | 10e | <2 | <2 | 0.20 | 14.6 | 80.85 | 7.6 | 33.47 | 8.0 |
| A1 | 29 Jan 2018 | 758 | 12 | 2e | <2 | <2 | 1.00 | 13.9 | 85.11 | 7.1 | 33.45 | 8.0 |
| A1 | 29 Jan 2018 | 758 | 18 | 28e | <2 | <2 | 0.07 | 12.6 | 86.17 | 6.0 | 33.47 | 7.9 |
| C4 | 03 Jan 2018 | 1035 | 1 | <2 | <2 | 4e | 1.00 | 15.9 | 86.04 | 7.7 | 33.52 | 8.2 |
| C4 | 03 Jan 2018 | 1035 | 3 | <2 | <2 | <2 | 1.00 | 15.9 | 86.21 | 7.7 | 33.52 | 8.2 |
| C4 | 03 Jan 2018 | 1035 | 9 | <2 | <2 | 2e | 1.00 | 15.9 | 85.65 | 7.6 | 33.52 | 8.2 |
| C4 | 11 Jan 2018 | 945 | 1 | 20e | 4e | <2 | 0.20 | 16.0 | 51.22 | 7.5 | 33.47 | 8.1 |
| C4 | 11 Jan 2018 | 945 | 3 | <20 | <2 | <2 | 0.10 | 16.0 | 50.54 | 7.5 | 33.47 | 8.1 |
| C4 | 11 Jan 2018 | 945 | 9 | 40e | 4e | <2 | 0.10 | 15.8 | 52.80 | 6.8 | 33.46 | 8.1 |
| C4 | 16 Jan 2018 | 1038 | 1 | <2 | <2 | <2 | 1.00 | 16.1 | 84.36 | 7.9 | 33.43 | 8.2 |
| C4 | 16 Jan 2018 | 1038 | 3 | <2 | <2 | 2e | 1.00 | 15.9 | 82.92 | 7.8 | 33.44 | 8.2 |
| C4 | 16 Jan 2018 | 1038 | 9 | <20 | 2e | <2 | 0.10 | 15.3 | 50.43 | 6.8 | 33.44 | 8.1 |
| C4 | 22 Jan 2018 | 924 | 1 | <2 | <2 | <2 | 1.00 | 14.6 | 66.82 | 7.8 | 33.46 | 8.1 |
| C4 | 22 Jan 2018 | 924 | 3 | 2e | <2 | <2 | 1.00 | 14.6 | 66.29 | 7.8 | 33.46 | 8.1 |
| C4 | 22 Jan 2018 | 924 | 9 | <2 | <2 | <2 | 1.00 | 13.8 | 79.97 | 6.9 | 33.43 | 8.1 |
| C4 | 29 Jan 2018 | 934 | 1 | 2e | <2 | <2 | 1.00 | 14.7 | 80.47 | 7.6 | 33.47 | 8.1 |
| C4 | 29 Jan 2018 | 934 | 3 | <2 | <2 | <2 | 1.00 | 14.7 | 80.38 | 7.6 | 33.47 | 8.1 |
| C4 | 29 Jan 2018 | 934 | 9 | <2 | <2 | <2 | 1.00 | 14.4 | 83.02 | 7.4 | 33.46 | 8.0 |
| C5 | 03 Jan 2018 | 1022 | 1 | 2e | <2 | <2 | 1.00 | 16.2 | 75.94 | 7.7 | 33.55 | 8.2 |
| C5 | 03 Jan 2018 | 1022 | 3 | <2 | <2 | <2 | 1.00 | 16.1 | 75.78 | 7.5 | 33.55 | 8.2 |
| C5 | 03 Jan 2018 | 1022 | 9 | <20 | <2 | <2 | 0.10 | 16.0 | 63.99 | 6.9 | 33.55 | 8.1 |
| C5 | 11 Jan 2018 | 940 | 1 | 20e | 4e | <2 | 0.20 | 16.1 | 50.50 | 7.3 | 33.44 | 8.1 |
| C5 | 11 Jan 2018 | 940 | 3 | 20e | <2 | <2 | 0.10 | 16.1 | 50.78 | 7.2 | 33.47 | 8.1 |
| C5 | 11 Jan 2018 | 940 | 9 | 40e | <2 | <2 | 0.05 | 15.9 | 51.60 | 6.8 | 33.46 | 8.1 |

| Station | Date | Time | Depth | Total | Fecal | Entero | F:T | Temp | XMS | DO | Sal | pH |
|---------|-------------|------|-------|-------|-------|--------|------|------|-------|-----|-------|-----|
| C5 | 16 Jan 2018 | 1025 | 1 | <20 | <2 | <2 | 0.10 | 16.3 | 36.76 | 7.6 | 33.39 | 8.1 |
| C5 | 16 Jan 2018 | 1025 | 3 | <20 | 2e | 2e | 0.10 | 16.1 | 23.15 | 7.5 | 33.39 | 8.1 |
| C5 | 16 Jan 2018 | 1025 | 9 | <20 | <2 | <2 | 0.10 | 15.8 | 30.38 | 6.7 | 33.41 | 8.1 |
| C5 | 22 Jan 2018 | 914 | 1 | 2e | <2 | <2 | 1.00 | 14.7 | 79.21 | 7.5 | 33.45 | 8.1 |
| C5 | 22 Jan 2018 | 914 | 3 | <2 | <2 | <2 | 1.00 | 14.7 | 78.58 | 7.4 | 33.45 | 8.1 |
| C5 | 22 Jan 2018 | 914 | 9 | 2e | <2 | <2 | 1.00 | 14.5 | 76.01 | 6.9 | 33.45 | 8.1 |
| C5 | 29 Jan 2018 | 922 | 1 | <2 | <2 | <2 | 1.00 | 14.6 | 81.12 | 7.8 | 33.47 | 8.1 |
| C5 | 29 Jan 2018 | 922 | 3 | <2 | <2 | <2 | 1.00 | 14.6 | 81.07 | 7.8 | 33.46 | 8.1 |
| C5 | 29 Jan 2018 | 922 | 9 | <2 | <2 | <2 | 1.00 | 14.5 | 81.31 | 7.8 | 33.46 | 8.1 |
| A6 | 03 Jan 2018 | 917 | 1 | 2e | <2 | 2e | 1.00 | 15.9 | 85.75 | 7.8 | 33.52 | 8.2 |
| A6 | 03 Jan 2018 | 917 | 12 | 4e | <2 | <2 | 0.50 | 15.8 | 86.08 | 7.6 | 33.52 | 8.2 |
| A6 | 03 Jan 2018 | 917 | 18 | 16e | <2 | <2 | 0.12 | 15.6 | 86.22 | 7.3 | 33.51 | 8.2 |
| A6 | 11 Jan 2018 | 840 | 1 | 24e | <2 | <2 | 0.08 | 16.0 | 75.01 | 7.3 | 33.45 | 8.1 |
| A6 | 11 Jan 2018 | 840 | 12 | 14e | <2 | <2 | 0.14 | 15.8 | 74.97 | 7.2 | 33.45 | 8.1 |
| A6 | 11 Jan 2018 | 840 | 18 | 20e | 4e | <2 | 0.20 | 15.6 | 68.08 | 7.0 | 33.45 | 8.1 |
| A6 | 16 Jan 2018 | 924 | 1 | 2e | <2 | <2 | 1.00 | 16.0 | 77.33 | 7.4 | 33.41 | 8.1 |
| A6 | 16 Jan 2018 | 924 | 12 | 2e | <2 | <2 | 1.00 | 15.3 | 77.89 | 7.0 | 33.43 | 8.1 |
| A6 | 16 Jan 2018 | 924 | 18 | 2e | <2 | 2e | 1.00 | 15.0 | 69.69 | 6.8 | 33.44 | 8.1 |
| A6 | 22 Jan 2018 | 821 | 1 | <2 | <2 | <2 | 1.00 | 15.0 | 81.39 | 7.7 | 33.45 | 8.2 |
| A6 | 22 Jan 2018 | 821 | 12 | <2 | <2 | <2 | 1.00 | 14.9 | 81.11 | 7.6 | 33.45 | 8.2 |
| A6 | 22 Jan 2018 | 821 | 18 | 2e | <2 | <2 | 1.00 | 14.7 | 80.96 | 7.4 | 33.45 | 8.1 |
| A6 | 29 Jan 2018 | 825 | 1 | <2 | <2 | <2 | 1.00 | 14.8 | 82.08 | 8.5 | 33.45 | 8.1 |
| A6 | 29 Jan 2018 | 825 | 12 | <2 | <2 | <2 | 1.00 | 14.4 | 82.45 | 7.7 | 33.46 | 8.0 |
| A6 | 29 Jan 2018 | 825 | 18 | 28e | 4e | <2 | 0.14 | 13.5 | 83.97 | 6.8 | 33.47 | 8.0 |
| C6 | 03 Jan 2018 | 1008 | 1 | <2 | <2 | <2 | 1.00 | 16.0 | 83.57 | 7.7 | 33.53 | 8.2 |
| C6 | 03 Jan 2018 | 1008 | 3 | <2 | <2 | 2e | 1.00 | 16.0 | 83.66 | 7.7 | 33.53 | 8.2 |
| C6 | 03 Jan 2018 | 1008 | 9 | <2 | <2 | 4e | 1.00 | 15.8 | 84.36 | 7.2 | 33.52 | 8.2 |
| C6 | 11 Jan 2018 | 924 | 1 | <20 | <2 | <2 | 0.10 | 16.1 | 67.79 | 7.4 | 33.46 | 8.1 |
| C6 | 11 Jan 2018 | 924 | 3 | <20 | <2 | <2 | 0.10 | 16.0 | 67.41 | 7.2 | 33.46 | 8.1 |
| C6 | 11 Jan 2018 | 924 | 9 | 2e | <2 | <2 | 1.00 | 16.0 | 67.18 | 7.1 | 33.46 | 8.1 |
| C6 | 16 Jan 2018 | 1016 | 1 | <2 | <2 | <2 | 1.00 | 16.3 | 75.41 | 7.6 | 33.41 | 8.1 |
| C6 | 16 Jan 2018 | 1016 | 3 | 2e | <2 | <2 | 1.00 | 16.2 | 71.62 | 7.6 | 33.42 | 8.1 |
| C6 | 16 Jan 2018 | 1016 | 9 | <20 | <2 | <2 | 0.10 | 15.8 | 57.48 | 7.1 | 33.44 | 8.1 |
| C6 | 22 Jan 2018 | 903 | 1 | 2e | <2 | <2 | 1.00 | 14.8 | 78.70 | 5.9 | 33.42 | 8.1 |
| C6 | 22 Jan 2018 | 903 | 3 | 2e | <2 | <2 | 1.00 | 14.8 | 78.32 | 7.2 | 33.45 | 8.1 |
| C6 | 22 Jan 2018 | 903 | 9 | 2e | <2 | 2e | 1.00 | 13.8 | 73.03 | 6.5 | 33.71 | 8.1 |
| C6 | 29 Jan 2018 | 910 | 1 | <2 | <2 | <2 | 1.00 | 14.8 | 76.46 | 7.7 | 33.47 | 8.0 |
| C6 | 29 Jan 2018 | 910 | 3 | <2 | <2 | <2 | 1.00 | 14.8 | 76.73 | 7.7 | 33.47 | 8.1 |
| C6 | 29 Jan 2018 | 910 | 9 | <2 | <2 | <2 | 1.00 | 14.0 | 84.58 | 7.0 | 33.45 | 8.0 |
| A7 | 03 Jan 2018 | 903 | 1 | 20e | 2e | 82 | 0.10 | 15.8 | 86.31 | 7.7 | 33.52 | 8.2 |
| A7 | 03 Jan 2018 | 903 | 12 | <2 | <2 | <2 | 1.00 | 15.8 | 85.77 | 7.6 | 33.52 | 8.2 |

| Station | Date | Time | Depth | Total | Fecal | Entero | F:T | Temp | XMS | DO | Sal | pH |
|---------|-------------|------|-------|-------|-------|--------|------|------|-------|-----|-------|-----|
| A7 | 03 Jan 2018 | 903 | 18 | 18e | <2 | 12e | 0.11 | 15.7 | 85.93 | 7.4 | 33.52 | 8.2 |
| A7 | 11 Jan 2018 | 827 | 1 | 8e | <2 | <2 | 0.25 | 15.9 | 75.04 | 7.3 | 33.46 | 8.1 |
| A7 | 11 Jan 2018 | 827 | 12 | 14e | 4e | <2 | 0.29 | 15.6 | 77.42 | 7.1 | 33.46 | 8.1 |
| A7 | 11 Jan 2018 | 827 | 18 | 48 | <2 | <2 | 0.04 | 15.5 | 76.90 | 7.1 | 33.46 | 8.1 |
| A7 | 16 Jan 2018 | 910 | 1 | <2 | <2 | <2 | 1.00 | 15.8 | 70.38 | 7.1 | 33.41 | 8.1 |
| A7 | 16 Jan 2018 | 910 | 12 | 6e | 2e | <2 | 0.33 | 15.6 | 74.15 | 7.0 | 33.42 | 8.1 |
| A7 | 16 Jan 2018 | 910 | 18 | <2 | <2 | 2e | 1.00 | 14.8 | 71.00 | 6.7 | 33.43 | 8.1 |
| A7 | 22 Jan 2018 | 809 | 1 | <2 | <2 | <2 | 1.00 | 15.1 | 84.37 | 7.8 | 33.45 | 8.2 |
| A7 | 22 Jan 2018 | 809 | 12 | 6e | 2e | <2 | 0.33 | 14.9 | 83.83 | 7.6 | 33.44 | 8.1 |
| A7 | 22 Jan 2018 | 809 | 18 | 6e | <2 | <2 | 0.33 | 14.3 | 82.41 | 7.2 | 33.44 | 8.1 |
| A7 | 29 Jan 2018 | 814 | 1 | <2 | <2 | <2 | 1.00 | 14.6 | 81.23 | 7.8 | 33.46 | 8.0 |
| A7 | 29 Jan 2018 | 814 | 12 | 2e | <2 | <2 | 1.00 | 14.2 | 83.34 | 7.2 | 33.46 | 8.0 |
| A7 | 29 Jan 2018 | 814 | 18 | 14e | <2 | 2e | 0.14 | 12.9 | 85.10 | 6.2 | 33.46 | 7.9 |
| C7 | 03 Jan 2018 | 932 | 1 | <2 | <2 | <2 | 1.00 | 16.0 | 86.54 | 7.7 | 33.51 | 8.2 |
| C7 | 03 Jan 2018 | 932 | 12 | <2 | <2 | <2 | 1.00 | 15.7 | 85.66 | 7.5 | 33.50 | 8.2 |
| C7 | 03 Jan 2018 | 932 | 18 | 14e | <2 | <2 | 0.14 | 15.6 | 85.66 | 7.4 | 33.50 | 8.2 |
| C7 | 11 Jan 2018 | 854 | 1 | 200e | 50 | 14e | 0.25 | 16.1 | 64.80 | 7.6 | 33.30 | 8.1 |
| C7 | 11 Jan 2018 | 854 | 12 | 200e | 6e | 4e | 0.03 | 15.8 | 70.43 | 7.2 | 33.45 | 8.1 |
| C7 | 11 Jan 2018 | 854 | 18 | 180e | <2 | <2 | 0.01 | 15.5 | 68.75 | 7.1 | 33.46 | 8.1 |
| C7 | 16 Jan 2018 | 942 | 1 | <2 | <2 | <2 | 1.00 | 16.2 | 80.84 | 7.8 | 33.43 | 8.2 |
| C7 | 16 Jan 2018 | 942 | 12 | 2e | <2 | <2 | 1.00 | 15.2 | 83.05 | 7.2 | 33.45 | 8.1 |
| C7 | 16 Jan 2018 | 942 | 18 | 20e | <2 | <2 | 0.10 | 14.4 | 68.58 | 6.7 | 33.44 | 8.1 |
| C7 | 22 Jan 2018 | 835 | 1 | 4e | <2 | <2 | 0.50 | 15.0 | 79.44 | 7.2 | 33.43 | 8.1 |
| C7 | 22 Jan 2018 | 835 | 12 | 4e | <2 | <2 | 0.50 | 14.9 | 78.98 | 7.4 | 33.45 | 8.1 |
| C7 | 22 Jan 2018 | 835 | 18 | 16e | <2 | 2e | 0.12 | 14.0 | 76.30 | 6.9 | 33.45 | 8.1 |
| C7 | 29 Jan 2018 | 841 | 1 | 2e | <2 | <2 | 1.00 | 14.7 | 82.23 | 8.4 | 33.46 | 8.1 |
| C7 | 29 Jan 2018 | 841 | 12 | <2 | <2 | <2 | 1.00 | 14.3 | 83.31 | 7.6 | 33.45 | 8.1 |
| C7 | 29 Jan 2018 | 841 | 18 | 42 | 4e | 2e | 0.10 | 12.3 | 84.77 | 5.8 | 33.46 | 7.9 |
| C8 | 03 Jan 2018 | 946 | 1 | <2 | <2 | <2 | 1.00 | 16.0 | 87.04 | 7.8 | 33.51 | 8.2 |
| C8 | 03 Jan 2018 | 946 | 12 | <2 | <2 | <2 | 1.00 | 15.7 | 85.18 | 7.6 | 33.50 | 8.2 |
| C8 | 03 Jan 2018 | 946 | 18 | 2e | 2e | 98 | 1.00 | 15.5 | 85.32 | 7.4 | 33.49 | 8.2 |
| C8 | 11 Jan 2018 | 905 | 1 | 400e | 20e | 28e | 0.05 | 16.4 | 71.19 | 7.6 | 33.36 | 8.1 |
| C8 | 11 Jan 2018 | 905 | 12 | 140e | 10e | 6e | 0.07 | 16.1 | 64.33 | 7.3 | 33.47 | 8.2 |
| C8 | 11 Jan 2018 | 905 | 18 | 120e | <2 | 2e | 0.02 | 15.5 | 43.97 | 7.1 | 33.44 | 8.1 |
| C8 | 16 Jan 2018 | 954 | 1 | <20 | 2e | <2 | 0.10 | 16.3 | 71.08 | 7.7 | 33.41 | 8.2 |
| C8 | 16 Jan 2018 | 954 | 12 | <2 | <2 | <2 | 1.00 | 14.9 | 83.14 | 7.2 | 33.44 | 8.1 |
| C8 | 16 Jan 2018 | 954 | 18 | 20e | <2 | 4e | 0.10 | 14.1 | 57.06 | 6.6 | 33.42 | 8.1 |
| C8 | 22 Jan 2018 | 846 | 1 | <2 | <2 | <2 | 1.00 | 15.0 | 73.86 | 6.0 | 33.37 | 8.1 |
| C8 | 22 Jan 2018 | 846 | 12 | 10e | <2 | <2 | 0.20 | 14.3 | 76.50 | 6.7 | 33.54 | 8.1 |
| C8 | 22 Jan 2018 | 846 | 18 | 24e | 2e | <2 | 0.08 | 14.0 | 74.83 | 6.6 | 33.52 | 8.1 |
| C8 | 29 Jan 2018 | 852 | 1 | <2 | <2 | <2 | 1.00 | 14.8 | 74.01 | 7.3 | 33.45 | 8.1 |

| Station | Date | Time | Depth | Total | Fecal | Enteroc | F:T | Temp | XMS | DO | Sal | pH |
|---------|-------------|------|-------|-------|-------|---------|------|------|-------|-----|-------|-----|
| C8 | 29 Jan 2018 | 852 | 12 | <2 | <2 | <2 | 1.00 | 14.4 | 83.04 | 7.7 | 33.47 | 8.1 |
| C8 | 29 Jan 2018 | 852 | 18 | 14e | <2 | 2e | 0.14 | 12.4 | 84.73 | 6.0 | 33.46 | 7.9 |

ns = not sampled

ND = no data

Table 3.9

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

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------------|
| A1 | 03 Jan 2018 | Depth (m) | 18 |
| A1 | 03 Jan 2018 | Arrive Time | 845 |
| A1 | 03 Jan 2018 | Depart Time | 853 |
| A1 | 03 Jan 2018 | Air Temp (C) | 15 |
| A1 | 03 Jan 2018 | Weather | Continuous layer of clouds |
| A1 | 03 Jan 2018 | Visibility (mi) | 5 |
| A1 | 03 Jan 2018 | Wind Speed (kts) | 6 |
| A1 | 03 Jan 2018 | Wind Dir | W |
| A1 | 03 Jan 2018 | Water Color | Greenish-Blue |
| A1 | 03 Jan 2018 | Wave Ht Low (ft) | 3 |
| A1 | 03 Jan 2018 | Wave Period (sec) | 13 |
| A1 | 03 Jan 2018 | Sea State | Calm |
| A1 | 03 Jan 2018 | High Tide (ft) | 6.73 |
| A1 | 03 Jan 2018 | High Tide Time | 915 |
| A1 | 03 Jan 2018 | Low Tide (ft) | -1.64 |
| A1 | 03 Jan 2018 | Low Tide Time | 1628 |
| A1 | 03 Jan 2018 | Comments | none |
| A1 | 11 Jan 2018 | Depth (m) | 20 |
| A1 | 11 Jan 2018 | Arrive Time | 814 |
| A1 | 11 Jan 2018 | Depart Time | 820 |
| A1 | 11 Jan 2018 | Air Temp (C) | 13 |
| A1 | 11 Jan 2018 | Weather | Haze |
| A1 | 11 Jan 2018 | Visibility (mi) | 8 |
| A1 | 11 Jan 2018 | Wind Speed (kts) | 7 |
| A1 | 11 Jan 2018 | Wind Dir | N |
| A1 | 11 Jan 2018 | Water Color | Green |
| A1 | 11 Jan 2018 | Wave Ht Low (ft) | 5 |
| A1 | 11 Jan 2018 | Wave Period (sec) | 11 |
| A1 | 11 Jan 2018 | Sea State | Confused swell |
| A1 | 11 Jan 2018 | High Tide (ft) | 5.06 |
| A1 | 11 Jan 2018 | High Tide Time | 516 |
| A1 | 11 Jan 2018 | Low Tide (ft) | 0.41 |
| A1 | 11 Jan 2018 | Low Tide Time | 34 |
| A1 | 11 Jan 2018 | Comments | none |
| A1 | 16 Jan 2018 | Depth (m) | 19 |
| A1 | 16 Jan 2018 | Arrive Time | 857 |
| A1 | 16 Jan 2018 | Depart Time | 902 |
| A1 | 16 Jan 2018 | Air Temp (C) | 15 |
| A1 | 16 Jan 2018 | Weather | Haze |
| A1 | 16 Jan 2018 | Visibility (mi) | 4 |
| A1 | 16 Jan 2018 | Wind Speed (kts) | 4 |
| A1 | 16 Jan 2018 | Wind Dir | N |
| A1 | 16 Jan 2018 | Water Color | Green |
| A1 | 16 Jan 2018 | Wave Ht Low (ft) | 7 |
| A1 | 16 Jan 2018 | Wave Period (sec) | 16 |
| A1 | 16 Jan 2018 | Sea State | Calm |
| A1 | 16 Jan 2018 | High Tide (ft) | 5.73 |
| A1 | 16 Jan 2018 | High Tide Time | 806 |
| A1 | 16 Jan 2018 | Low Tide (ft) | -0.71 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------|
| A1 | 16 Jan 2018 | Low Tide Time | 1517 |
| A1 | 16 Jan 2018 | Comments | Kelp; Lobster floats |
| A1 | 22 Jan 2018 | Depth (m) | 19 |
| A1 | 22 Jan 2018 | Arrive Time | 757 |
| A1 | 22 Jan 2018 | Depart Time | 801 |
| A1 | 22 Jan 2018 | Air Temp (C) | 13 |
| A1 | 22 Jan 2018 | Weather | Haze |
| A1 | 22 Jan 2018 | Visibility (mi) | 10 |
| A1 | 22 Jan 2018 | Wind Speed (kts) | 1 |
| A1 | 22 Jan 2018 | Wind Dir | SW |
| A1 | 22 Jan 2018 | Water Color | Bluish-Green |
| A1 | 22 Jan 2018 | Wave Ht Low (ft) | 4 |
| A1 | 22 Jan 2018 | Wave Period (sec) | 13 |
| A1 | 22 Jan 2018 | Sea State | Wind ripples |
| A1 | 22 Jan 2018 | High Tide (ft) | 4.07 |
| A1 | 22 Jan 2018 | High Tide Time | 1132 |
| A1 | 22 Jan 2018 | Low Tide (ft) | 2.02 |
| A1 | 22 Jan 2018 | Low Tide Time | 559 |
| A1 | 22 Jan 2018 | Comments | Lobster floats |
| A1 | 29 Jan 2018 | Depth (m) | 21 |
| A1 | 29 Jan 2018 | Arrive Time | 758 |
| A1 | 29 Jan 2018 | Depart Time | 809 |
| A1 | 29 Jan 2018 | Air Temp (C) | 18 |
| A1 | 29 Jan 2018 | Weather | Haze |
| A1 | 29 Jan 2018 | Visibility (mi) | 12 |
| A1 | 29 Jan 2018 | Wind Speed (kts) | 1 |
| A1 | 29 Jan 2018 | Wind Dir | NE |
| A1 | 29 Jan 2018 | Water Color | Greenish-Blue |
| A1 | 29 Jan 2018 | Wave Ht Low (ft) | 3 |
| A1 | 29 Jan 2018 | Wave Period (sec) | 11 |
| A1 | 29 Jan 2018 | Sea State | Calm |
| A1 | 29 Jan 2018 | High Tide (ft) | 6.43 |
| A1 | 29 Jan 2018 | High Tide Time | 648 |
| A1 | 29 Jan 2018 | Low Tide (ft) | 1.5 |
| A1 | 29 Jan 2018 | Low Tide Time | 1238 |
| A1 | 29 Jan 2018 | Comments | none |
| C4 | 03 Jan 2018 | Depth (m) | 12 |
| C4 | 03 Jan 2018 | Arrive Time | 1035 |
| C4 | 03 Jan 2018 | Depart Time | 1037 |
| C4 | 03 Jan 2018 | Air Temp (C) | 16 |
| C4 | 03 Jan 2018 | Weather | Fog |
| C4 | 03 Jan 2018 | Visibility (mi) | 2 |
| C4 | 03 Jan 2018 | Wind Speed (kts) | 3 |
| C4 | 03 Jan 2018 | Wind Dir | W |
| C4 | 03 Jan 2018 | Water Color | Bluish-Green |
| C4 | 03 Jan 2018 | Wave Ht Low (ft) | 3 |
| C4 | 03 Jan 2018 | Wave Period (sec) | 13 |
| C4 | 03 Jan 2018 | Sea State | Calm |
| C4 | 03 Jan 2018 | High Tide (ft) | 6.73 |
| C4 | 03 Jan 2018 | High Tide Time | 915 |
| C4 | 03 Jan 2018 | Low Tide (ft) | -1.64 |
| C4 | 03 Jan 2018 | Low Tide Time | 1628 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------|
| C4 | 03 Jan 2018 | Comments | Kelp |
| C4 | 11 Jan 2018 | Depth (m) | 11 |
| C4 | 11 Jan 2018 | Arrive Time | 945 |
| C4 | 11 Jan 2018 | Depart Time | 949 |
| C4 | 11 Jan 2018 | Air Temp (C) | 15 |
| C4 | 11 Jan 2018 | Weather | Clear |
| C4 | 11 Jan 2018 | Visibility (mi) | 8 |
| C4 | 11 Jan 2018 | Wind Speed (kts) | 6 |
| C4 | 11 Jan 2018 | Wind Dir | E |
| C4 | 11 Jan 2018 | Water Color | Brown |
| C4 | 11 Jan 2018 | Wave Ht Low (ft) | 5 |
| C4 | 11 Jan 2018 | Wave Period (sec) | 11 |
| C4 | 11 Jan 2018 | Sea State | Confused swell |
| C4 | 11 Jan 2018 | High Tide (ft) | 5.06 |
| C4 | 11 Jan 2018 | High Tide Time | 516 |
| C4 | 11 Jan 2018 | Low Tide (ft) | 0.41 |
| C4 | 11 Jan 2018 | Low Tide Time | 34 |
| C4 | 11 Jan 2018 | Comments | Kelp |
| C4 | 16 Jan 2018 | Depth (m) | 13 |
| C4 | 16 Jan 2018 | Arrive Time | 1038 |
| C4 | 16 Jan 2018 | Depart Time | 1041 |
| C4 | 16 Jan 2018 | Air Temp (C) | 15 |
| C4 | 16 Jan 2018 | Weather | Partly Cloudy |
| C4 | 16 Jan 2018 | Visibility (mi) | 6 |
| C4 | 16 Jan 2018 | Wind Speed (kts) | 4 |
| C4 | 16 Jan 2018 | Wind Dir | N |
| C4 | 16 Jan 2018 | Water Color | Green |
| C4 | 16 Jan 2018 | Wave Ht Low (ft) | 8 |
| C4 | 16 Jan 2018 | Wave Period (sec) | 16 |
| C4 | 16 Jan 2018 | Sea State | Calm |
| C4 | 16 Jan 2018 | High Tide (ft) | 5.73 |
| C4 | 16 Jan 2018 | High Tide Time | 806 |
| C4 | 16 Jan 2018 | Low Tide (ft) | -0.71 |
| C4 | 16 Jan 2018 | Low Tide Time | 1517 |
| C4 | 16 Jan 2018 | Comments | Kelp; Boats |
| C4 | 22 Jan 2018 | Depth (m) | 10 |
| C4 | 22 Jan 2018 | Arrive Time | 924 |
| C4 | 22 Jan 2018 | Depart Time | 927 |
| C4 | 22 Jan 2018 | Air Temp (C) | 14 |
| C4 | 22 Jan 2018 | Weather | Haze |
| C4 | 22 Jan 2018 | Visibility (mi) | 14 |
| C4 | 22 Jan 2018 | Wind Speed (kts) | 4 |
| C4 | 22 Jan 2018 | Wind Dir | NW |
| C4 | 22 Jan 2018 | Water Color | Green |
| C4 | 22 Jan 2018 | Wave Ht Low (ft) | 4 |
| C4 | 22 Jan 2018 | Wave Period (sec) | 13 |
| C4 | 22 Jan 2018 | Sea State | Wind ripples |
| C4 | 22 Jan 2018 | High Tide (ft) | 4.07 |
| C4 | 22 Jan 2018 | High Tide Time | 1132 |
| C4 | 22 Jan 2018 | Low Tide (ft) | 2.02 |
| C4 | 22 Jan 2018 | Low Tide Time | 559 |
| C4 | 22 Jan 2018 | Comments | Lobster floats; Kelp |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------|
| C4 | 29 Jan 2018 | Depth (m) | 10 |
| C4 | 29 Jan 2018 | Arrive Time | 934 |
| C4 | 29 Jan 2018 | Depart Time | 940 |
| C4 | 29 Jan 2018 | Air Temp (C) | 20 |
| C4 | 29 Jan 2018 | Weather | Haze |
| C4 | 29 Jan 2018 | Visibility (mi) | 12 |
| C4 | 29 Jan 2018 | Wind Speed (kts) | 0 |
| C4 | 29 Jan 2018 | Wind Dir | |
| C4 | 29 Jan 2018 | Water Color | Greenish-Blue |
| C4 | 29 Jan 2018 | Wave Ht Low (ft) | 3 |
| C4 | 29 Jan 2018 | Wave Period (sec) | 11 |
| C4 | 29 Jan 2018 | Sea State | Calm |
| C4 | 29 Jan 2018 | High Tide (ft) | 6.43 |
| C4 | 29 Jan 2018 | High Tide Time | 648 |
| C4 | 29 Jan 2018 | Low Tide (ft) | 1.5 |
| C4 | 29 Jan 2018 | Low Tide Time | 1238 |
| C4 | 29 Jan 2018 | Comments | Kelp; Lobster floats |
| C5 | 03 Jan 2018 | Depth (m) | 12 |
| C5 | 03 Jan 2018 | Arrive Time | 1022 |
| C5 | 03 Jan 2018 | Depart Time | 1025 |
| C5 | 03 Jan 2018 | Air Temp (C) | 16 |
| C5 | 03 Jan 2018 | Weather | Fog |
| C5 | 03 Jan 2018 | Visibility (mi) | < 1 |
| C5 | 03 Jan 2018 | Wind Speed (kts) | 4 |
| C5 | 03 Jan 2018 | Wind Dir | S |
| C5 | 03 Jan 2018 | Water Color | Green |
| C5 | 03 Jan 2018 | Wave Ht Low (ft) | 3 |
| C5 | 03 Jan 2018 | Wave Period (sec) | 13 |
| C5 | 03 Jan 2018 | Sea State | Calm |
| C5 | 03 Jan 2018 | High Tide (ft) | 6.73 |
| C5 | 03 Jan 2018 | High Tide Time | 915 |
| C5 | 03 Jan 2018 | Low Tide (ft) | -1.64 |
| C5 | 03 Jan 2018 | Low Tide Time | 1628 |
| C5 | 03 Jan 2018 | Comments | Kelp |
| C5 | 11 Jan 2018 | Depth (m) | 10 |
| C5 | 11 Jan 2018 | Arrive Time | 940 |
| C5 | 11 Jan 2018 | Depart Time | 941 |
| C5 | 11 Jan 2018 | Air Temp (C) | 15 |
| C5 | 11 Jan 2018 | Weather | Clear |
| C5 | 11 Jan 2018 | Visibility (mi) | 8 |
| C5 | 11 Jan 2018 | Wind Speed (kts) | 12 |
| C5 | 11 Jan 2018 | Wind Dir | N |
| C5 | 11 Jan 2018 | Water Color | Brown |
| C5 | 11 Jan 2018 | Wave Ht Low (ft) | 5 |
| C5 | 11 Jan 2018 | Wave Period (sec) | 11 |
| C5 | 11 Jan 2018 | Sea State | Confused swell |
| C5 | 11 Jan 2018 | High Tide (ft) | 5.06 |
| C5 | 11 Jan 2018 | High Tide Time | 516 |
| C5 | 11 Jan 2018 | Low Tide (ft) | 0.41 |
| C5 | 11 Jan 2018 | Low Tide Time | 34 |
| C5 | 11 Jan 2018 | Comments | none |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------|
| C5 | 16 Jan 2018 | Depth (m) | 13 |
| C5 | 16 Jan 2018 | Arrive Time | 1025 |
| C5 | 16 Jan 2018 | Depart Time | 1031 |
| C5 | 16 Jan 2018 | Air Temp (C) | 15 |
| C5 | 16 Jan 2018 | Weather | Partly Cloudy |
| C5 | 16 Jan 2018 | Visibility (mi) | 6 |
| C5 | 16 Jan 2018 | Wind Speed (kts) | 4 |
| C5 | 16 Jan 2018 | Wind Dir | N |
| C5 | 16 Jan 2018 | Water Color | Green |
| C5 | 16 Jan 2018 | Wave Ht Low (ft) | 8 |
| C5 | 16 Jan 2018 | Wave Period (sec) | 16 |
| C5 | 16 Jan 2018 | Sea State | Calm |
| C5 | 16 Jan 2018 | High Tide (ft) | 5.73 |
| C5 | 16 Jan 2018 | High Tide Time | 806 |
| C5 | 16 Jan 2018 | Low Tide (ft) | -0.71 |
| C5 | 16 Jan 2018 | Low Tide Time | 1517 |
| C5 | 16 Jan 2018 | Comments | Kelp; Lobster floats |
| C5 | 22 Jan 2018 | Depth (m) | 11 |
| C5 | 22 Jan 2018 | Arrive Time | 914 |
| C5 | 22 Jan 2018 | Depart Time | 919 |
| C5 | 22 Jan 2018 | Air Temp (C) | 14 |
| C5 | 22 Jan 2018 | Weather | Haze |
| C5 | 22 Jan 2018 | Visibility (mi) | 14 |
| C5 | 22 Jan 2018 | Wind Speed (kts) | 4 |
| C5 | 22 Jan 2018 | Wind Dir | N |
| C5 | 22 Jan 2018 | Water Color | Bluish-Green |
| C5 | 22 Jan 2018 | Wave Ht Low (ft) | 4 |
| C5 | 22 Jan 2018 | Wave Period (sec) | 13 |
| C5 | 22 Jan 2018 | Sea State | Wind ripples |
| C5 | 22 Jan 2018 | High Tide (ft) | 4.07 |
| C5 | 22 Jan 2018 | High Tide Time | 1132 |
| C5 | 22 Jan 2018 | Low Tide (ft) | 2.02 |
| C5 | 22 Jan 2018 | Low Tide Time | 559 |
| C5 | 22 Jan 2018 | Comments | Lobster floats; Kelp |
| C5 | 29 Jan 2018 | Depth (m) | 9 |
| C5 | 29 Jan 2018 | Arrive Time | 922 |
| C5 | 29 Jan 2018 | Depart Time | 927 |
| C5 | 29 Jan 2018 | Air Temp (C) | 19 |
| C5 | 29 Jan 2018 | Weather | Haze |
| C5 | 29 Jan 2018 | Visibility (mi) | 12 |
| C5 | 29 Jan 2018 | Wind Speed (kts) | 1 |
| C5 | 29 Jan 2018 | Wind Dir | N |
| C5 | 29 Jan 2018 | Water Color | Greenish-Blue |
| C5 | 29 Jan 2018 | Wave Ht Low (ft) | 3 |
| C5 | 29 Jan 2018 | Wave Period (sec) | 11 |
| C5 | 29 Jan 2018 | Sea State | Calm |
| C5 | 29 Jan 2018 | High Tide (ft) | 6.43 |
| C5 | 29 Jan 2018 | High Tide Time | 648 |
| C5 | 29 Jan 2018 | Low Tide (ft) | 1.5 |
| C5 | 29 Jan 2018 | Low Tide Time | 1238 |
| C5 | 29 Jan 2018 | Comments | Kelp; Lobster floats |
| A6 | 03 Jan 2018 | Depth (m) | 20 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------|
| A6 | 03 Jan 2018 | Arrive Time | 917 |
| A6 | 03 Jan 2018 | Depart Time | 921 |
| A6 | 03 Jan 2018 | Air Temp (C) | 15 |
| A6 | 03 Jan 2018 | Weather | Fog |
| A6 | 03 Jan 2018 | Visibility (mi) | 3 |
| A6 | 03 Jan 2018 | Wind Speed (kts) | 3 |
| A6 | 03 Jan 2018 | Wind Dir | W |
| A6 | 03 Jan 2018 | Water Color | Greenish-Blue |
| A6 | 03 Jan 2018 | Wave Ht Low (ft) | 3 |
| A6 | 03 Jan 2018 | Wave Period (sec) | 13 |
| A6 | 03 Jan 2018 | Sea State | Calm |
| A6 | 03 Jan 2018 | High Tide (ft) | 6.73 |
| A6 | 03 Jan 2018 | High Tide Time | 915 |
| A6 | 03 Jan 2018 | Low Tide (ft) | -1.64 |
| A6 | 03 Jan 2018 | Low Tide Time | 1628 |
| A6 | 03 Jan 2018 | Comments | Kelp; Kelp debris |
| A6 | 11 Jan 2018 | Depth (m) | 18 |
| A6 | 11 Jan 2018 | Arrive Time | 840 |
| A6 | 11 Jan 2018 | Depart Time | 845 |
| A6 | 11 Jan 2018 | Air Temp (C) | 14 |
| A6 | 11 Jan 2018 | Weather | Haze |
| A6 | 11 Jan 2018 | Visibility (mi) | 8 |
| A6 | 11 Jan 2018 | Wind Speed (kts) | 4 |
| A6 | 11 Jan 2018 | Wind Dir | SE |
| A6 | 11 Jan 2018 | Water Color | Green |
| A6 | 11 Jan 2018 | Wave Ht Low (ft) | 5 |
| A6 | 11 Jan 2018 | Wave Period (sec) | 11 |
| A6 | 11 Jan 2018 | Sea State | Confused swell |
| A6 | 11 Jan 2018 | High Tide (ft) | 5.06 |
| A6 | 11 Jan 2018 | High Tide Time | 516 |
| A6 | 11 Jan 2018 | Low Tide (ft) | 0.41 |
| A6 | 11 Jan 2018 | Low Tide Time | 34 |
| A6 | 11 Jan 2018 | Comments | none |
| A6 | 16 Jan 2018 | Depth (m) | 18 |
| A6 | 16 Jan 2018 | Arrive Time | 924 |
| A6 | 16 Jan 2018 | Depart Time | 930 |
| A6 | 16 Jan 2018 | Air Temp (C) | 15 |
| A6 | 16 Jan 2018 | Weather | Haze |
| A6 | 16 Jan 2018 | Visibility (mi) | 4 |
| A6 | 16 Jan 2018 | Wind Speed (kts) | 4 |
| A6 | 16 Jan 2018 | Wind Dir | N |
| A6 | 16 Jan 2018 | Water Color | Green |
| A6 | 16 Jan 2018 | Wave Ht Low (ft) | 7 |
| A6 | 16 Jan 2018 | Wave Period (sec) | 16 |
| A6 | 16 Jan 2018 | Sea State | Calm |
| A6 | 16 Jan 2018 | High Tide (ft) | 5.73 |
| A6 | 16 Jan 2018 | High Tide Time | 806 |
| A6 | 16 Jan 2018 | Low Tide (ft) | -0.71 |
| A6 | 16 Jan 2018 | Low Tide Time | 1517 |
| A6 | 16 Jan 2018 | Comments | Kelp; Lobster floats |
| A6 | 22 Jan 2018 | Depth (m) | 20 |
| A6 | 22 Jan 2018 | Arrive Time | 821 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|--|
| A6 | 22 Jan 2018 | Depart Time | 827 |
| A6 | 22 Jan 2018 | Air Temp (C) | 13 |
| A6 | 22 Jan 2018 | Weather | Haze |
| A6 | 22 Jan 2018 | Visibility (mi) | 10 |
| A6 | 22 Jan 2018 | Wind Speed (kts) | 4 |
| A6 | 22 Jan 2018 | Wind Dir | W |
| A6 | 22 Jan 2018 | Water Color | Bluish-Green |
| A6 | 22 Jan 2018 | Wave Ht Low (ft) | 4 |
| A6 | 22 Jan 2018 | Wave Period (sec) | 13 |
| A6 | 22 Jan 2018 | Sea State | Wind ripples |
| A6 | 22 Jan 2018 | High Tide (ft) | 4.07 |
| A6 | 22 Jan 2018 | High Tide Time | 1132 |
| A6 | 22 Jan 2018 | Low Tide (ft) | 2.02 |
| A6 | 22 Jan 2018 | Low Tide Time | 559 |
| A6 | 22 Jan 2018 | Comments | Lobster floats; Kelp |
| | | | |
| A6 | 29 Jan 2018 | Depth (m) | 20 |
| A6 | 29 Jan 2018 | Arrive Time | 825 |
| A6 | 29 Jan 2018 | Depart Time | 834 |
| A6 | 29 Jan 2018 | Air Temp (C) | 19 |
| A6 | 29 Jan 2018 | Weather | Haze |
| A6 | 29 Jan 2018 | Visibility (mi) | 12 |
| A6 | 29 Jan 2018 | Wind Speed (kts) | 3 |
| A6 | 29 Jan 2018 | Wind Dir | SE |
| A6 | 29 Jan 2018 | Water Color | Greenish-Blue |
| A6 | 29 Jan 2018 | Wave Ht Low (ft) | 3 |
| A6 | 29 Jan 2018 | Wave Period (sec) | 11 |
| A6 | 29 Jan 2018 | Sea State | Calm |
| A6 | 29 Jan 2018 | High Tide (ft) | 6.43 |
| A6 | 29 Jan 2018 | High Tide Time | 648 |
| A6 | 29 Jan 2018 | Low Tide (ft) | 1.5 |
| A6 | 29 Jan 2018 | Low Tide Time | 1238 |
| A6 | 29 Jan 2018 | Comments | Lobster floats |
| | | | |
| C6 | 03 Jan 2018 | Depth (m) | 10 |
| C6 | 03 Jan 2018 | Arrive Time | 1008 |
| C6 | 03 Jan 2018 | Depart Time | 1011 |
| C6 | 03 Jan 2018 | Air Temp (C) | 15 |
| C6 | 03 Jan 2018 | Weather | Fog |
| C6 | 03 Jan 2018 | Visibility (mi) | < 1 |
| C6 | 03 Jan 2018 | Wind Speed (kts) | 3 |
| C6 | 03 Jan 2018 | Wind Dir | S |
| C6 | 03 Jan 2018 | Water Color | Greenish-Blue |
| C6 | 03 Jan 2018 | Wave Ht Low (ft) | 3 |
| C6 | 03 Jan 2018 | Wave Period (sec) | 13 |
| C6 | 03 Jan 2018 | Sea State | Calm |
| C6 | 03 Jan 2018 | High Tide (ft) | 6.73 |
| C6 | 03 Jan 2018 | High Tide Time | 915 |
| C6 | 03 Jan 2018 | Low Tide (ft) | -1.64 |
| C6 | 03 Jan 2018 | Low Tide Time | 1628 |
| C6 | 03 Jan 2018 | Comments | Seagrass; Kelp; Kelp debris; Lobster traps |
| | | | |
| C6 | 11 Jan 2018 | Depth (m) | 9 |
| C6 | 11 Jan 2018 | Arrive Time | 924 |
| C6 | 11 Jan 2018 | Depart Time | 928 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---|
| C6 | 11 Jan 2018 | Air Temp (C) | 15 |
| C6 | 11 Jan 2018 | Weather | Haze |
| C6 | 11 Jan 2018 | Visibility (mi) | 8 |
| C6 | 11 Jan 2018 | Wind Speed (kts) | 3 |
| C6 | 11 Jan 2018 | Wind Dir | NE |
| C6 | 11 Jan 2018 | Water Color | Green |
| C6 | 11 Jan 2018 | Wave Ht Low (ft) | 5 |
| C6 | 11 Jan 2018 | Wave Period (sec) | 11 |
| C6 | 11 Jan 2018 | Sea State | Confused swell |
| C6 | 11 Jan 2018 | High Tide (ft) | 5.06 |
| C6 | 11 Jan 2018 | High Tide Time | 516 |
| C6 | 11 Jan 2018 | Low Tide (ft) | 0.41 |
| C6 | 11 Jan 2018 | Low Tide Time | 34 |
| C6 | 11 Jan 2018 | Comments | Kelp |
| C6 | 16 Jan 2018 | Depth (m) | 10 |
| C6 | 16 Jan 2018 | Arrive Time | 1016 |
| C6 | 16 Jan 2018 | Depart Time | 1018 |
| C6 | 16 Jan 2018 | Air Temp (C) | 15 |
| C6 | 16 Jan 2018 | Weather | Partly Cloudy |
| C6 | 16 Jan 2018 | Visibility (mi) | 6 |
| C6 | 16 Jan 2018 | Wind Speed (kts) | 4 |
| C6 | 16 Jan 2018 | Wind Dir | N |
| C6 | 16 Jan 2018 | Water Color | Green |
| C6 | 16 Jan 2018 | Wave Ht Low (ft) | 7 |
| C6 | 16 Jan 2018 | Wave Period (sec) | 16 |
| C6 | 16 Jan 2018 | Sea State | Calm |
| C6 | 16 Jan 2018 | High Tide (ft) | 5.73 |
| C6 | 16 Jan 2018 | High Tide Time | 806 |
| C6 | 16 Jan 2018 | Low Tide (ft) | -0.71 |
| C6 | 16 Jan 2018 | Low Tide Time | 1517 |
| C6 | 16 Jan 2018 | Comments | Kelp; Lobster floats |
| C6 | 22 Jan 2018 | Depth (m) | 10 |
| C6 | 22 Jan 2018 | Arrive Time | 903 |
| C6 | 22 Jan 2018 | Depart Time | 909 |
| C6 | 22 Jan 2018 | Air Temp (C) | 14 |
| C6 | 22 Jan 2018 | Weather | Haze |
| C6 | 22 Jan 2018 | Visibility (mi) | 14 |
| C6 | 22 Jan 2018 | Wind Speed (kts) | 3 |
| C6 | 22 Jan 2018 | Wind Dir | N |
| C6 | 22 Jan 2018 | Water Color | Bluish-Green |
| C6 | 22 Jan 2018 | Wave Ht Low (ft) | 4 |
| C6 | 22 Jan 2018 | Wave Period (sec) | 13 |
| C6 | 22 Jan 2018 | Sea State | Wind ripples |
| C6 | 22 Jan 2018 | High Tide (ft) | 4.07 |
| C6 | 22 Jan 2018 | High Tide Time | 1132 |
| C6 | 22 Jan 2018 | Low Tide (ft) | 2.02 |
| C6 | 22 Jan 2018 | Low Tide Time | 559 |
| C6 | 22 Jan 2018 | Comments | Lobster floats; High CDOM has been validated on upcast.; Kelp |
| C6 | 29 Jan 2018 | Depth (m) | 10 |
| C6 | 29 Jan 2018 | Arrive Time | 910 |
| C6 | 29 Jan 2018 | Depart Time | 915 |
| C6 | 29 Jan 2018 | Air Temp (C) | 17 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------------|
| C6 | 29 Jan 2018 | Weather | Haze |
| C6 | 29 Jan 2018 | Visibility (mi) | 12 |
| C6 | 29 Jan 2018 | Wind Speed (kts) | 5 |
| C6 | 29 Jan 2018 | Wind Dir | NW |
| C6 | 29 Jan 2018 | Water Color | Greenish-Blue |
| C6 | 29 Jan 2018 | Wave Ht Low (ft) | 3 |
| C6 | 29 Jan 2018 | Wave Period (sec) | 11 |
| C6 | 29 Jan 2018 | Sea State | Calm |
| C6 | 29 Jan 2018 | High Tide (ft) | 6.43 |
| C6 | 29 Jan 2018 | High Tide Time | 648 |
| C6 | 29 Jan 2018 | Low Tide (ft) | 1.5 |
| C6 | 29 Jan 2018 | Low Tide Time | 1238 |
| C6 | 29 Jan 2018 | Comments | Kelp; Lobster floats |
| | | | |
| A7 | 03 Jan 2018 | Depth (m) | 20 |
| A7 | 03 Jan 2018 | Arrive Time | 903 |
| A7 | 03 Jan 2018 | Depart Time | 908 |
| A7 | 03 Jan 2018 | Air Temp (C) | 16 |
| A7 | 03 Jan 2018 | Weather | Continuous layer of clouds |
| A7 | 03 Jan 2018 | Visibility (mi) | 5 |
| A7 | 03 Jan 2018 | Wind Speed (kts) | 2 |
| A7 | 03 Jan 2018 | Wind Dir | NE |
| A7 | 03 Jan 2018 | Water Color | Greenish-Blue |
| A7 | 03 Jan 2018 | Wave Ht Low (ft) | 3 |
| A7 | 03 Jan 2018 | Wave Period (sec) | 13 |
| A7 | 03 Jan 2018 | Sea State | Calm |
| A7 | 03 Jan 2018 | High Tide (ft) | 6.73 |
| A7 | 03 Jan 2018 | High Tide Time | 915 |
| A7 | 03 Jan 2018 | Low Tide (ft) | -1.64 |
| A7 | 03 Jan 2018 | Low Tide Time | 1628 |
| A7 | 03 Jan 2018 | Comments | Kelp debris |
| | | | |
| A7 | 11 Jan 2018 | Depth (m) | 20 |
| A7 | 11 Jan 2018 | Arrive Time | 827 |
| A7 | 11 Jan 2018 | Depart Time | 833 |
| A7 | 11 Jan 2018 | Air Temp (C) | 14 |
| A7 | 11 Jan 2018 | Weather | Haze |
| A7 | 11 Jan 2018 | Visibility (mi) | 8 |
| A7 | 11 Jan 2018 | Wind Speed (kts) | 5 |
| A7 | 11 Jan 2018 | Wind Dir | N |
| A7 | 11 Jan 2018 | Water Color | Green |
| A7 | 11 Jan 2018 | Wave Ht Low (ft) | 5 |
| A7 | 11 Jan 2018 | Wave Period (sec) | 11 |
| A7 | 11 Jan 2018 | Sea State | Confused swell |
| A7 | 11 Jan 2018 | High Tide (ft) | 5.06 |
| A7 | 11 Jan 2018 | High Tide Time | 516 |
| A7 | 11 Jan 2018 | Low Tide (ft) | 0.41 |
| A7 | 11 Jan 2018 | Low Tide Time | 34 |
| A7 | 11 Jan 2018 | Comments | none |
| | | | |
| A7 | 16 Jan 2018 | Depth (m) | 19 |
| A7 | 16 Jan 2018 | Arrive Time | 910 |
| A7 | 16 Jan 2018 | Depart Time | 916 |
| A7 | 16 Jan 2018 | Air Temp (C) | 15 |
| A7 | 16 Jan 2018 | Weather | Haze |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------|
| A7 | 16 Jan 2018 | Visibility (mi) | 4 |
| A7 | 16 Jan 2018 | Wind Speed (kts) | 4 |
| A7 | 16 Jan 2018 | Wind Dir | N |
| A7 | 16 Jan 2018 | Water Color | Green |
| A7 | 16 Jan 2018 | Wave Ht Low (ft) | 7 |
| A7 | 16 Jan 2018 | Wave Period (sec) | 16 |
| A7 | 16 Jan 2018 | Sea State | Calm |
| A7 | 16 Jan 2018 | High Tide (ft) | 5.73 |
| A7 | 16 Jan 2018 | High Tide Time | 806 |
| A7 | 16 Jan 2018 | Low Tide (ft) | -0.71 |
| A7 | 16 Jan 2018 | Low Tide Time | 1517 |
| A7 | 16 Jan 2018 | Comments | Kelp; Lobster floats |
| A7 | 22 Jan 2018 | Depth (m) | 19 |
| A7 | 22 Jan 2018 | Arrive Time | 809 |
| A7 | 22 Jan 2018 | Depart Time | 814 |
| A7 | 22 Jan 2018 | Air Temp (C) | 14 |
| A7 | 22 Jan 2018 | Weather | Haze |
| A7 | 22 Jan 2018 | Visibility (mi) | 10 |
| A7 | 22 Jan 2018 | Wind Speed (kts) | 2 |
| A7 | 22 Jan 2018 | Wind Dir | W |
| A7 | 22 Jan 2018 | Water Color | Bluish-Green |
| A7 | 22 Jan 2018 | Wave Ht Low (ft) | 4 |
| A7 | 22 Jan 2018 | Wave Period (sec) | 13 |
| A7 | 22 Jan 2018 | Sea State | Wind ripples |
| A7 | 22 Jan 2018 | High Tide (ft) | 4.07 |
| A7 | 22 Jan 2018 | High Tide Time | 1132 |
| A7 | 22 Jan 2018 | Low Tide (ft) | 2.02 |
| A7 | 22 Jan 2018 | Low Tide Time | 559 |
| A7 | 22 Jan 2018 | Comments | Lobster floats |
| A7 | 29 Jan 2018 | Depth (m) | 20 |
| A7 | 29 Jan 2018 | Arrive Time | 814 |
| A7 | 29 Jan 2018 | Depart Time | 820 |
| A7 | 29 Jan 2018 | Air Temp (C) | 18 |
| A7 | 29 Jan 2018 | Weather | Haze |
| A7 | 29 Jan 2018 | Visibility (mi) | 12 |
| A7 | 29 Jan 2018 | Wind Speed (kts) | 2 |
| A7 | 29 Jan 2018 | Wind Dir | NE |
| A7 | 29 Jan 2018 | Water Color | Greenish-Blue |
| A7 | 29 Jan 2018 | Wave Ht Low (ft) | 3 |
| A7 | 29 Jan 2018 | Wave Period (sec) | 11 |
| A7 | 29 Jan 2018 | Sea State | Calm |
| A7 | 29 Jan 2018 | High Tide (ft) | 6.43 |
| A7 | 29 Jan 2018 | High Tide Time | 648 |
| A7 | 29 Jan 2018 | Low Tide (ft) | 1.5 |
| A7 | 29 Jan 2018 | Low Tide Time | 1238 |
| A7 | 29 Jan 2018 | Comments | none |
| C7 | 03 Jan 2018 | Depth (m) | 20 |
| C7 | 03 Jan 2018 | Arrive Time | 932 |
| C7 | 03 Jan 2018 | Depart Time | 936 |
| C7 | 03 Jan 2018 | Air Temp (C) | 15 |
| C7 | 03 Jan 2018 | Weather | Fog |
| C7 | 03 Jan 2018 | Visibility (mi) | 2 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------------------|
| C7 | 03 Jan 2018 | Wind Speed (kts) | 1 |
| C7 | 03 Jan 2018 | Wind Dir | E |
| C7 | 03 Jan 2018 | Water Color | Greenish-Blue |
| C7 | 03 Jan 2018 | Wave Ht Low (ft) | 3 |
| C7 | 03 Jan 2018 | Wave Period (sec) | 13 |
| C7 | 03 Jan 2018 | Sea State | Calm |
| C7 | 03 Jan 2018 | High Tide (ft) | 6.73 |
| C7 | 03 Jan 2018 | High Tide Time | 915 |
| C7 | 03 Jan 2018 | Low Tide (ft) | -1.64 |
| C7 | 03 Jan 2018 | Low Tide Time | 1628 |
| C7 | 03 Jan 2018 | Comments | none |
| C7 | 11 Jan 2018 | Depth (m) | 18 |
| C7 | 11 Jan 2018 | Arrive Time | 854 |
| C7 | 11 Jan 2018 | Depart Time | 859 |
| C7 | 11 Jan 2018 | Air Temp (C) | 14 |
| C7 | 11 Jan 2018 | Weather | Haze |
| C7 | 11 Jan 2018 | Visibility (mi) | 8 |
| C7 | 11 Jan 2018 | Wind Speed (kts) | 5 |
| C7 | 11 Jan 2018 | Wind Dir | N |
| C7 | 11 Jan 2018 | Water Color | Green |
| C7 | 11 Jan 2018 | Wave Ht Low (ft) | 5 |
| C7 | 11 Jan 2018 | Wave Period (sec) | 11 |
| C7 | 11 Jan 2018 | Sea State | Confused swell |
| C7 | 11 Jan 2018 | High Tide (ft) | 5.06 |
| C7 | 11 Jan 2018 | High Tide Time | 516 |
| C7 | 11 Jan 2018 | Low Tide (ft) | 0.41 |
| C7 | 11 Jan 2018 | Low Tide Time | 34 |
| C7 | 11 Jan 2018 | Comments | Kelp |
| C7 | 16 Jan 2018 | Depth (m) | 19 |
| C7 | 16 Jan 2018 | Arrive Time | 942 |
| C7 | 16 Jan 2018 | Depart Time | 946 |
| C7 | 16 Jan 2018 | Air Temp (C) | 15 |
| C7 | 16 Jan 2018 | Weather | Haze |
| C7 | 16 Jan 2018 | Visibility (mi) | 4 |
| C7 | 16 Jan 2018 | Wind Speed (kts) | 4 |
| C7 | 16 Jan 2018 | Wind Dir | N |
| C7 | 16 Jan 2018 | Water Color | Green |
| C7 | 16 Jan 2018 | Wave Ht Low (ft) | 7 |
| C7 | 16 Jan 2018 | Wave Period (sec) | 16 |
| C7 | 16 Jan 2018 | Sea State | Calm |
| C7 | 16 Jan 2018 | High Tide (ft) | 5.73 |
| C7 | 16 Jan 2018 | High Tide Time | 806 |
| C7 | 16 Jan 2018 | Low Tide (ft) | -0.71 |
| C7 | 16 Jan 2018 | Low Tide Time | 1517 |
| C7 | 16 Jan 2018 | Comments | Kelp; Lobster floats |
| C7 | 22 Jan 2018 | Depth (m) | 18 |
| C7 | 22 Jan 2018 | Arrive Time | 835 |
| C7 | 22 Jan 2018 | Depart Time | 839 |
| C7 | 22 Jan 2018 | Air Temp (C) | 13 |
| C7 | 22 Jan 2018 | Weather | Haze |
| C7 | 22 Jan 2018 | Visibility (mi) | 10 |
| C7 | 22 Jan 2018 | Wind Speed (kts) | 3 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|-----------------------------|
| C7 | 22 Jan 2018 | Wind Dir | W |
| C7 | 22 Jan 2018 | Water Color | Bluish-Green |
| C7 | 22 Jan 2018 | Wave Ht Low (ft) | 4 |
| C7 | 22 Jan 2018 | Wave Period (sec) | 13 |
| C7 | 22 Jan 2018 | Sea State | Wind ripples |
| C7 | 22 Jan 2018 | High Tide (ft) | 4.07 |
| C7 | 22 Jan 2018 | High Tide Time | 1132 |
| C7 | 22 Jan 2018 | Low Tide (ft) | 2.02 |
| C7 | 22 Jan 2018 | Low Tide Time | 559 |
| C7 | 22 Jan 2018 | Comments | Lobster floats; Kelp debris |
| C7 | 29 Jan 2018 | Depth (m) | 20 |
| C7 | 29 Jan 2018 | Arrive Time | 841 |
| C7 | 29 Jan 2018 | Depart Time | 845 |
| C7 | 29 Jan 2018 | Air Temp (C) | 16 |
| C7 | 29 Jan 2018 | Weather | Haze |
| C7 | 29 Jan 2018 | Visibility (mi) | 12 |
| C7 | 29 Jan 2018 | Wind Speed (kts) | 3 |
| C7 | 29 Jan 2018 | Wind Dir | SW |
| C7 | 29 Jan 2018 | Water Color | Brownish-Green |
| C7 | 29 Jan 2018 | Wave Ht Low (ft) | 3 |
| C7 | 29 Jan 2018 | Wave Period (sec) | 11 |
| C7 | 29 Jan 2018 | Sea State | Calm |
| C7 | 29 Jan 2018 | High Tide (ft) | 6.43 |
| C7 | 29 Jan 2018 | High Tide Time | 648 |
| C7 | 29 Jan 2018 | Low Tide (ft) | 1.5 |
| C7 | 29 Jan 2018 | Low Tide Time | 1238 |
| C7 | 29 Jan 2018 | Comments | Kelp |
| C8 | 03 Jan 2018 | Depth (m) | 21 |
| C8 | 03 Jan 2018 | Arrive Time | 946 |
| C8 | 03 Jan 2018 | Depart Time | 950 |
| C8 | 03 Jan 2018 | Air Temp (C) | 15 |
| C8 | 03 Jan 2018 | Weather | Fog |
| C8 | 03 Jan 2018 | Visibility (mi) | < 1 |
| C8 | 03 Jan 2018 | Wind Speed (kts) | 2 |
| C8 | 03 Jan 2018 | Wind Dir | W |
| C8 | 03 Jan 2018 | Water Color | Greenish-Blue |
| C8 | 03 Jan 2018 | Wave Ht Low (ft) | 3 |
| C8 | 03 Jan 2018 | Wave Period (sec) | 13 |
| C8 | 03 Jan 2018 | Sea State | Calm |
| C8 | 03 Jan 2018 | High Tide (ft) | 6.73 |
| C8 | 03 Jan 2018 | High Tide Time | 915 |
| C8 | 03 Jan 2018 | Low Tide (ft) | -1.64 |
| C8 | 03 Jan 2018 | Low Tide Time | 1628 |
| C8 | 03 Jan 2018 | Comments | Kelp debris |
| C8 | 11 Jan 2018 | Depth (m) | 19 |
| C8 | 11 Jan 2018 | Arrive Time | 905 |
| C8 | 11 Jan 2018 | Depart Time | 910 |
| C8 | 11 Jan 2018 | Air Temp (C) | 14 |
| C8 | 11 Jan 2018 | Weather | Haze |
| C8 | 11 Jan 2018 | Visibility (mi) | 8 |
| C8 | 11 Jan 2018 | Wind Speed (kts) | 2 |
| C8 | 11 Jan 2018 | Wind Dir | N |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|--|
| C8 | 11 Jan 2018 | Water Color | Green |
| C8 | 11 Jan 2018 | Wave Ht Low (ft) | 5 |
| C8 | 11 Jan 2018 | Wave Period (sec) | 11 |
| C8 | 11 Jan 2018 | Sea State | Confused swell |
| C8 | 11 Jan 2018 | High Tide (ft) | 5.06 |
| C8 | 11 Jan 2018 | High Tide Time | 516 |
| C8 | 11 Jan 2018 | Low Tide (ft) | 0.41 |
| C8 | 11 Jan 2018 | Low Tide Time | 34 |
| C8 | 11 Jan 2018 | Comments | none |
| C8 | 16 Jan 2018 | Depth (m) | 20 |
| C8 | 16 Jan 2018 | Arrive Time | 954 |
| C8 | 16 Jan 2018 | Depart Time | 958 |
| C8 | 16 Jan 2018 | Air Temp (C) | 15 |
| C8 | 16 Jan 2018 | Weather | Haze |
| C8 | 16 Jan 2018 | Visibility (mi) | 4 |
| C8 | 16 Jan 2018 | Wind Speed (kts) | 4 |
| C8 | 16 Jan 2018 | Wind Dir | N |
| C8 | 16 Jan 2018 | Water Color | Green |
| C8 | 16 Jan 2018 | Wave Ht Low (ft) | 7 |
| C8 | 16 Jan 2018 | Wave Period (sec) | 16 |
| C8 | 16 Jan 2018 | Sea State | Calm |
| C8 | 16 Jan 2018 | High Tide (ft) | 5.73 |
| C8 | 16 Jan 2018 | High Tide Time | 806 |
| C8 | 16 Jan 2018 | Low Tide (ft) | -0.71 |
| C8 | 16 Jan 2018 | Low Tide Time | 1517 |
| C8 | 16 Jan 2018 | Comments | Kelp debris |
| C8 | 22 Jan 2018 | Depth (m) | 19 |
| C8 | 22 Jan 2018 | Arrive Time | 846 |
| C8 | 22 Jan 2018 | Depart Time | 851 |
| C8 | 22 Jan 2018 | Air Temp (C) | 12 |
| C8 | 22 Jan 2018 | Weather | Haze |
| C8 | 22 Jan 2018 | Visibility (mi) | 10 |
| C8 | 22 Jan 2018 | Wind Speed (kts) | 8 |
| C8 | 22 Jan 2018 | Wind Dir | NW |
| C8 | 22 Jan 2018 | Water Color | Bluish-Green |
| C8 | 22 Jan 2018 | Wave Ht Low (ft) | 4 |
| C8 | 22 Jan 2018 | Wave Period (sec) | 13 |
| C8 | 22 Jan 2018 | Sea State | Wind ripples |
| C8 | 22 Jan 2018 | High Tide (ft) | 4.07 |
| C8 | 22 Jan 2018 | High Tide Time | 1132 |
| C8 | 22 Jan 2018 | Low Tide (ft) | 2.02 |
| C8 | 22 Jan 2018 | Low Tide Time | 559 |
| C8 | 22 Jan 2018 | Comments | Lobster floats; High CDOM has been validated on upcast.; Kelp debris |
| C8 | 29 Jan 2018 | Depth (m) | 20 |
| C8 | 29 Jan 2018 | Arrive Time | 852 |
| C8 | 29 Jan 2018 | Depart Time | 857 |
| C8 | 29 Jan 2018 | Air Temp (C) | 16 |
| C8 | 29 Jan 2018 | Weather | Haze |
| C8 | 29 Jan 2018 | Visibility (mi) | 12 |
| C8 | 29 Jan 2018 | Wind Speed (kts) | 2 |
| C8 | 29 Jan 2018 | Wind Dir | E |

| Station | Date | Parameter | Value |
|----------------|-------------|-------------------|---------------|
| C8 | 29 Jan 2018 | Water Color | Greenish-Blue |
| C8 | 29 Jan 2018 | Wave Ht Low (ft) | 3 |
| C8 | 29 Jan 2018 | Wave Period (sec) | 11 |
| C8 | 29 Jan 2018 | Sea State | Calm |
| C8 | 29 Jan 2018 | High Tide (ft) | 6.43 |
| C8 | 29 Jan 2018 | High Tide Time | 648 |
| C8 | 29 Jan 2018 | Low Tide (ft) | 1.5 |
| C8 | 29 Jan 2018 | Low Tide Time | 1238 |
| C8 | 29 Jan 2018 | Comments | none |

Table 3.10

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

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| A1 | 03 Jan 2018 | 1 | 15.88 | 88.43 | 7.6 | 33.50 | 8.2 | 24.6 | 0.89 |
| A1 | 03 Jan 2018 | 2 | 15.88 | 88.32 | 7.6 | 33.50 | 8.2 | 24.6 | 0.80 |
| A1 | 03 Jan 2018 | 3 | 15.87 | 88.41 | 7.6 | 33.50 | 8.2 | 24.6 | 0.89 |
| A1 | 03 Jan 2018 | 4 | 15.87 | 88.32 | 7.6 | 33.50 | 8.2 | 24.6 | 0.86 |
| A1 | 03 Jan 2018 | 5 | 15.87 | 88.45 | 7.6 | 33.50 | 8.2 | 24.6 | 0.91 |
| A1 | 03 Jan 2018 | 6 | 15.87 | 88.26 | 7.6 | 33.50 | 8.2 | 24.6 | 0.88 |
| A1 | 03 Jan 2018 | 7 | 15.87 | 88.43 | 7.6 | 33.50 | 8.2 | 24.6 | 0.85 |
| A1 | 03 Jan 2018 | 8 | 15.87 | 88.37 | 7.6 | 33.50 | 8.2 | 24.6 | 0.87 |
| A1 | 03 Jan 2018 | 9 | 15.87 | 88.33 | 7.6 | 33.50 | 8.2 | 24.6 | 0.89 |
| A1 | 03 Jan 2018 | 10 | 15.87 | 88.23 | 7.6 | 33.50 | 8.2 | 24.6 | 0.91 |
| A1 | 03 Jan 2018 | 11 | 15.86 | 88.46 | 7.6 | 33.50 | 8.2 | 24.6 | 0.92 |
| A1 | 03 Jan 2018 | 12 | 15.85 | 88.42 | 7.6 | 33.50 | 8.2 | 24.6 | 0.82 |
| A1 | 03 Jan 2018 | 13 | 15.83 | 88.31 | 7.6 | 33.50 | 8.2 | 24.6 | 0.88 |
| A1 | 03 Jan 2018 | 14 | 15.80 | 88.12 | 7.6 | 33.50 | 8.2 | 24.6 | 0.91 |
| A1 | 03 Jan 2018 | 15 | 15.77 | 87.75 | 7.5 | 33.50 | 8.2 | 24.6 | 0.90 |
| A1 | 03 Jan 2018 | 16 | 15.76 | 87.98 | 7.5 | 33.50 | 8.2 | 24.6 | 0.81 |
| A1 | 03 Jan 2018 | 17 | 15.76 | 88.03 | 7.5 | 33.50 | 8.2 | 24.6 | 0.85 |
| A1 | 03 Jan 2018 | 18 | 15.76 | 88.02 | 7.5 | 33.50 | 8.2 | 24.6 | 0.81 |
| A1 | 03 Jan 2018 | 19 | 15.75 | 87.88 | 7.5 | 33.50 | 8.2 | 24.6 | 0.81 |
| A1 | 03 Jan 2018 | 20 | 15.75 | 87.81 | 7.5 | 33.50 | 8.2 | 24.6 | 0.86 |
| A1 | 11 Jan 2018 | 1 | 15.76 | 82.33 | 7.3 | 33.45 | 8.1 | 24.6 | 0.53 |
| A1 | 11 Jan 2018 | 2 | 15.76 | 82.34 | 7.3 | 33.45 | 8.1 | 24.6 | 0.52 |
| A1 | 11 Jan 2018 | 3 | 15.76 | 82.22 | 7.3 | 33.45 | 8.1 | 24.6 | 0.56 |
| A1 | 11 Jan 2018 | 4 | 15.77 | 82.06 | 7.3 | 33.45 | 8.1 | 24.6 | 0.63 |
| A1 | 11 Jan 2018 | 5 | 15.77 | 82.06 | 7.3 | 33.45 | 8.1 | 24.6 | 0.72 |
| A1 | 11 Jan 2018 | 6 | 15.77 | 82.09 | 7.3 | 33.45 | 8.1 | 24.6 | 0.73 |
| A1 | 11 Jan 2018 | 7 | 15.77 | 82.10 | 7.3 | 33.45 | 8.1 | 24.6 | 0.77 |
| A1 | 11 Jan 2018 | 8 | 15.77 | 82.19 | 7.3 | 33.45 | 8.1 | 24.6 | 0.80 |
| A1 | 11 Jan 2018 | 9 | 15.77 | 82.05 | 7.3 | 33.45 | 8.1 | 24.6 | 0.81 |
| A1 | 11 Jan 2018 | 10 | 15.76 | 82.14 | 7.3 | 33.45 | 8.1 | 24.6 | 0.83 |
| A1 | 11 Jan 2018 | 11 | 15.74 | 81.90 | 7.3 | 33.45 | 8.1 | 24.6 | 0.85 |
| A1 | 11 Jan 2018 | 12 | 15.72 | 81.77 | 7.3 | 33.45 | 8.1 | 24.6 | 0.83 |
| A1 | 11 Jan 2018 | 13 | 15.71 | 82.54 | 7.3 | 33.45 | 8.1 | 24.6 | 0.79 |
| A1 | 11 Jan 2018 | 14 | 15.70 | 83.79 | 7.3 | 33.46 | 8.1 | 24.6 | 0.80 |
| A1 | 11 Jan 2018 | 15 | 15.68 | 84.38 | 7.2 | 33.46 | 8.1 | 24.6 | 0.80 |
| A1 | 11 Jan 2018 | 16 | 15.66 | 84.69 | 7.2 | 33.46 | 8.1 | 24.6 | 0.80 |
| A1 | 11 Jan 2018 | 17 | 15.64 | 84.59 | 7.2 | 33.46 | 8.1 | 24.6 | 0.79 |
| A1 | 11 Jan 2018 | 18 | 15.63 | 84.20 | 7.2 | 33.46 | 8.1 | 24.6 | 0.78 |
| A1 | 11 Jan 2018 | 19 | 15.61 | 84.00 | 7.2 | 33.46 | 8.1 | 24.7 | 0.75 |
| A1 | 11 Jan 2018 | 20 | 15.59 | 83.14 | 7.2 | 33.47 | 8.1 | 24.7 | 0.69 |
| A1 | 16 Jan 2018 | 1 | 16.05 | 84.28 | 7.6 | 33.43 | 8.1 | 24.5 | 1.06 |
| A1 | 16 Jan 2018 | 2 | 16.05 | 84.06 | 7.6 | 33.43 | 8.1 | 24.5 | 1.09 |
| A1 | 16 Jan 2018 | 3 | 16.04 | 84.27 | 7.6 | 33.43 | 8.1 | 24.5 | 1.15 |
| A1 | 16 Jan 2018 | 4 | 16.02 | 84.30 | 7.6 | 33.43 | 8.1 | 24.5 | 1.30 |
| A1 | 16 Jan 2018 | 5 | 16.01 | 84.14 | 7.6 | 33.43 | 8.1 | 24.5 | 1.52 |
| A1 | 16 Jan 2018 | 6 | 16.00 | 84.12 | 7.6 | 33.43 | 8.1 | 24.5 | 1.48 |
| A1 | 16 Jan 2018 | 7 | 15.95 | 83.89 | 7.6 | 33.44 | 8.1 | 24.6 | 1.64 |
| A1 | 16 Jan 2018 | 8 | 15.92 | 83.45 | 7.6 | 33.44 | 8.1 | 24.6 | 1.69 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| A1 | 16 Jan 2018 | 9 | 15.91 | 83.06 | 7.6 | 33.44 | 8.1 | 24.6 | 1.75 |
| A1 | 16 Jan 2018 | 10 | 15.91 | 82.96 | 7.5 | 33.44 | 8.1 | 24.6 | 1.68 |
| A1 | 16 Jan 2018 | 11 | 15.87 | 83.71 | 7.4 | 33.45 | 8.1 | 24.6 | 1.58 |
| A1 | 16 Jan 2018 | 12 | 15.83 | 83.93 | 7.3 | 33.45 | 8.1 | 24.6 | 1.54 |
| A1 | 16 Jan 2018 | 13 | 15.48 | 84.07 | 7.2 | 33.46 | 8.1 | 24.7 | 1.36 |
| A1 | 16 Jan 2018 | 14 | 15.18 | 82.50 | 7.0 | 33.45 | 8.1 | 24.7 | 1.18 |
| A1 | 16 Jan 2018 | 15 | 15.07 | 81.72 | 6.9 | 33.45 | 8.1 | 24.8 | 1.08 |
| A1 | 16 Jan 2018 | 16 | 14.99 | 78.31 | 6.9 | 33.44 | 8.1 | 24.8 | 1.02 |
| A1 | 16 Jan 2018 | 17 | 15.01 | 78.28 | 6.9 | 33.44 | 8.1 | 24.8 | 1.06 |
| A1 | 16 Jan 2018 | 18 | 14.93 | 77.37 | 6.8 | 33.44 | 8.1 | 24.8 | 1.01 |
| A1 | 16 Jan 2018 | 19 | 14.88 | 76.31 | 6.8 | 33.44 | 8.1 | 24.8 | 0.97 |
| A1 | 16 Jan 2018 | 20 | 14.87 | 75.39 | 6.8 | 33.44 | 8.1 | 24.8 | 0.99 |
| A1 | 22 Jan 2018 | 1 | 14.86 | 84.56 | 7.6 | 33.45 | 8.1 | 24.8 | 0.90 |
| A1 | 22 Jan 2018 | 2 | 14.86 | 85.32 | 7.6 | 33.45 | 8.1 | 24.8 | 0.93 |
| A1 | 22 Jan 2018 | 3 | 14.86 | 85.57 | 7.6 | 33.45 | 8.1 | 24.8 | 0.95 |
| A1 | 22 Jan 2018 | 4 | 14.85 | 84.88 | 7.6 | 33.45 | 8.1 | 24.8 | 0.96 |
| A1 | 22 Jan 2018 | 5 | 14.85 | 85.24 | 7.6 | 33.45 | 8.1 | 24.8 | 1.01 |
| A1 | 22 Jan 2018 | 6 | 14.85 | 85.48 | 7.6 | 33.45 | 8.1 | 24.8 | 1.12 |
| A1 | 22 Jan 2018 | 7 | 14.83 | 85.24 | 7.6 | 33.45 | 8.1 | 24.8 | 1.09 |
| A1 | 22 Jan 2018 | 8 | 14.82 | 84.85 | 7.6 | 33.45 | 8.1 | 24.8 | 1.09 |
| A1 | 22 Jan 2018 | 9 | 14.83 | 84.92 | 7.6 | 33.45 | 8.1 | 24.8 | 1.09 |
| A1 | 22 Jan 2018 | 10 | 14.82 | 84.95 | 7.6 | 33.45 | 8.1 | 24.8 | 1.11 |
| A1 | 22 Jan 2018 | 11 | 14.80 | 84.78 | 7.5 | 33.45 | 8.1 | 24.8 | 1.17 |
| A1 | 22 Jan 2018 | 12 | 14.73 | 83.58 | 7.5 | 33.45 | 8.1 | 24.8 | 1.12 |
| A1 | 22 Jan 2018 | 13 | 14.68 | 82.83 | 7.5 | 33.45 | 8.1 | 24.8 | 1.12 |
| A1 | 22 Jan 2018 | 14 | 14.67 | 82.67 | 7.5 | 33.44 | 8.1 | 24.8 | 1.15 |
| A1 | 22 Jan 2018 | 15 | 14.63 | 82.40 | 7.5 | 33.45 | 8.1 | 24.9 | 1.15 |
| A1 | 22 Jan 2018 | 16 | 14.53 | 81.48 | 7.4 | 33.44 | 8.1 | 24.9 | 1.16 |
| A1 | 22 Jan 2018 | 17 | 14.29 | 82.07 | 7.3 | 33.44 | 8.1 | 24.9 | 1.10 |
| A1 | 22 Jan 2018 | 18 | 14.42 | 83.35 | 7.3 | 33.43 | 8.1 | 24.9 | 1.05 |
| A1 | 29 Jan 2018 | 1 | 14.55 | 80.85 | 7.6 | 33.47 | 8.0 | 24.9 | 1.29 |
| A1 | 29 Jan 2018 | 2 | 14.55 | 80.73 | 7.6 | 33.47 | 8.0 | 24.9 | 1.28 |
| A1 | 29 Jan 2018 | 3 | 14.55 | 80.77 | 7.6 | 33.47 | 8.0 | 24.9 | 1.42 |
| A1 | 29 Jan 2018 | 4 | 14.54 | 80.81 | 7.6 | 33.47 | 8.0 | 24.9 | 1.75 |
| A1 | 29 Jan 2018 | 5 | 14.50 | 81.33 | 7.6 | 33.47 | 8.0 | 24.9 | 1.67 |
| A1 | 29 Jan 2018 | 6 | 14.49 | 81.74 | 7.6 | 33.46 | 8.0 | 24.9 | 1.57 |
| A1 | 29 Jan 2018 | 7 | 14.49 | 81.96 | 7.6 | 33.46 | 8.0 | 24.9 | 1.53 |
| A1 | 29 Jan 2018 | 8 | 14.32 | 83.18 | 7.5 | 33.47 | 8.0 | 24.9 | 1.42 |
| A1 | 29 Jan 2018 | 9 | 14.13 | 84.09 | 7.3 | 33.46 | 8.0 | 25.0 | 1.39 |
| A1 | 29 Jan 2018 | 10 | 14.02 | 84.36 | 7.2 | 33.45 | 8.0 | 25.0 | 1.25 |
| A1 | 29 Jan 2018 | 11 | 13.99 | 84.58 | 7.1 | 33.45 | 8.0 | 25.0 | 1.19 |
| A1 | 29 Jan 2018 | 12 | 13.90 | 85.11 | 7.1 | 33.45 | 8.0 | 25.0 | 1.13 |
| A1 | 29 Jan 2018 | 13 | 13.83 | 85.33 | 7.0 | 33.45 | 8.0 | 25.0 | 1.06 |
| A1 | 29 Jan 2018 | 14 | 13.63 | 85.78 | 6.8 | 33.46 | 8.0 | 25.1 | 0.90 |
| A1 | 29 Jan 2018 | 15 | 13.49 | 86.07 | 6.6 | 33.45 | 8.0 | 25.1 | 0.84 |
| A1 | 29 Jan 2018 | 16 | 13.20 | 86.10 | 6.4 | 33.47 | 8.0 | 25.2 | 0.81 |
| A1 | 29 Jan 2018 | 17 | 12.79 | 86.14 | 6.2 | 33.48 | 7.9 | 25.3 | 0.75 |
| A1 | 29 Jan 2018 | 18 | 12.61 | 86.17 | 6.0 | 33.47 | 7.9 | 25.3 | 0.65 |
| A1 | 29 Jan 2018 | 19 | 12.34 | 86.20 | 5.8 | 33.48 | 7.9 | 25.3 | 0.65 |
| A1 | 29 Jan 2018 | 20 | 12.06 | 86.18 | 5.6 | 33.49 | 7.9 | 25.4 | 0.57 |
| C4 | 03 Jan 2018 | 1 | 15.90 | 86.04 | 7.7 | 33.52 | 8.2 | 24.6 | 0.90 |
| C4 | 03 Jan 2018 | 2 | 15.89 | 85.84 | 7.7 | 33.52 | 8.2 | 24.6 | 0.92 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| C4 | 03 Jan 2018 | 3 | 15.88 | 86.21 | 7.7 | 33.52 | 8.2 | 24.6 | 1.15 |
| C4 | 03 Jan 2018 | 4 | 15.87 | 86.03 | 7.7 | 33.52 | 8.2 | 24.6 | 1.25 |
| C4 | 03 Jan 2018 | 5 | 15.87 | 85.86 | 7.7 | 33.52 | 8.2 | 24.6 | 1.23 |
| C4 | 03 Jan 2018 | 6 | 15.86 | 85.82 | 7.7 | 33.52 | 8.2 | 24.6 | 1.22 |
| C4 | 03 Jan 2018 | 7 | 15.86 | 85.74 | 7.7 | 33.52 | 8.2 | 24.6 | 1.21 |
| C4 | 03 Jan 2018 | 8 | 15.86 | 85.66 | 7.7 | 33.52 | 8.2 | 24.6 | 1.28 |
| C4 | 03 Jan 2018 | 9 | 15.86 | 85.65 | 7.6 | 33.52 | 8.2 | 24.6 | 1.31 |
| C4 | 03 Jan 2018 | 10 | 15.87 | 84.91 | 7.6 | 33.52 | 8.2 | 24.6 | 1.06 |
| C4 | 03 Jan 2018 | 11 | 15.87 | 83.60 | 7.6 | 33.52 | 8.2 | 24.6 | 0.98 |
| C4 | 03 Jan 2018 | 12 | 15.87 | 82.92 | 7.6 | 33.52 | 8.2 | 24.6 | 1.00 |
| C4 | 11 Jan 2018 | 1 | 16.04 | 51.22 | 7.5 | 33.47 | 8.1 | 24.6 | 0.42 |
| C4 | 11 Jan 2018 | 2 | 16.04 | 50.41 | 7.5 | 33.47 | 8.1 | 24.6 | 0.44 |
| C4 | 11 Jan 2018 | 3 | 16.01 | 50.54 | 7.5 | 33.47 | 8.1 | 24.6 | 0.53 |
| C4 | 11 Jan 2018 | 4 | 15.99 | 50.33 | 7.4 | 33.47 | 8.1 | 24.6 | 0.56 |
| C4 | 11 Jan 2018 | 5 | 15.97 | 52.24 | 7.3 | 33.47 | 8.1 | 24.6 | 0.54 |
| C4 | 11 Jan 2018 | 6 | 15.96 | 53.09 | 7.3 | 33.47 | 8.1 | 24.6 | 0.55 |
| C4 | 11 Jan 2018 | 7 | 15.92 | 54.28 | 7.2 | 33.46 | 8.1 | 24.6 | 0.55 |
| C4 | 11 Jan 2018 | 8 | 15.84 | 52.63 | 6.9 | 33.46 | 8.1 | 24.6 | 0.54 |
| C4 | 11 Jan 2018 | 9 | 15.76 | 52.80 | 6.8 | 33.46 | 8.1 | 24.6 | 0.53 |
| C4 | 11 Jan 2018 | 10 | 15.70 | 53.60 | 6.7 | 33.46 | 8.1 | 24.6 | 0.54 |
| C4 | 11 Jan 2018 | 11 | 15.68 | 50.84 | 6.7 | 33.46 | 8.1 | 24.6 | 0.53 |
| C4 | 16 Jan 2018 | 1 | 16.11 | 84.36 | 7.9 | 33.43 | 8.2 | 24.5 | 0.66 |
| C4 | 16 Jan 2018 | 2 | 16.06 | 84.36 | 7.9 | 33.44 | 8.2 | 24.5 | 0.69 |
| C4 | 16 Jan 2018 | 3 | 15.88 | 82.92 | 7.8 | 33.44 | 8.2 | 24.6 | 0.80 |
| C4 | 16 Jan 2018 | 4 | 15.74 | 80.58 | 7.6 | 33.44 | 8.2 | 24.6 | 0.88 |
| C4 | 16 Jan 2018 | 5 | 15.66 | 78.10 | 7.5 | 33.44 | 8.1 | 24.6 | 0.97 |
| C4 | 16 Jan 2018 | 6 | 15.57 | 75.66 | 7.4 | 33.44 | 8.1 | 24.6 | 1.02 |
| C4 | 16 Jan 2018 | 7 | 15.39 | 61.46 | 7.1 | 33.45 | 8.1 | 24.7 | 1.16 |
| C4 | 16 Jan 2018 | 8 | 15.36 | 54.43 | 7.0 | 33.44 | 8.1 | 24.7 | 1.14 |
| C4 | 16 Jan 2018 | 9 | 15.31 | 50.43 | 6.8 | 33.44 | 8.1 | 24.7 | 1.12 |
| C4 | 16 Jan 2018 | 10 | 15.29 | 40.04 | 6.7 | 33.44 | 8.1 | 24.7 | 1.06 |
| C4 | 16 Jan 2018 | 11 | 15.28 | 27.24 | 6.7 | 33.44 | 8.1 | 24.7 | 1.03 |
| C4 | 16 Jan 2018 | 12 | 15.26 | 17.37 | 6.7 | 33.44 | 8.1 | 24.7 | 1.02 |
| C4 | 22 Jan 2018 | 1 | 14.57 | 66.82 | 7.8 | 33.46 | 8.1 | 24.9 | 0.38 |
| C4 | 22 Jan 2018 | 2 | 14.57 | 66.49 | 7.8 | 33.46 | 8.1 | 24.9 | 0.39 |
| C4 | 22 Jan 2018 | 3 | 14.57 | 66.29 | 7.8 | 33.46 | 8.1 | 24.9 | 0.40 |
| C4 | 22 Jan 2018 | 4 | 14.56 | 66.28 | 7.8 | 33.46 | 8.1 | 24.9 | 0.41 |
| C4 | 22 Jan 2018 | 5 | 14.53 | 65.94 | 7.6 | 33.47 | 8.1 | 24.9 | 0.40 |
| C4 | 22 Jan 2018 | 6 | 14.25 | 67.60 | 7.3 | 33.48 | 8.1 | 25.0 | 0.44 |
| C4 | 22 Jan 2018 | 7 | 14.07 | 74.00 | 7.1 | 33.45 | 8.1 | 25.0 | 0.51 |
| C4 | 22 Jan 2018 | 8 | 13.91 | 78.55 | 7.0 | 33.44 | 8.1 | 25.0 | 0.67 |
| C4 | 22 Jan 2018 | 9 | 13.77 | 79.97 | 6.9 | 33.43 | 8.1 | 25.0 | 0.76 |
| C4 | 22 Jan 2018 | 10 | 13.70 | 77.01 | 6.8 | 33.42 | 8.1 | 25.0 | 0.83 |
| C4 | 22 Jan 2018 | 11 | 13.75 | 75.74 | 6.8 | 33.41 | 8.1 | 25.0 | 0.75 |
| C4 | 29 Jan 2018 | 1 | 14.71 | 80.47 | 7.6 | 33.47 | 8.1 | 24.9 | 0.92 |
| C4 | 29 Jan 2018 | 2 | 14.71 | 80.53 | 7.6 | 33.47 | 8.1 | 24.9 | 0.89 |
| C4 | 29 Jan 2018 | 3 | 14.71 | 80.38 | 7.6 | 33.47 | 8.1 | 24.9 | 0.88 |
| C4 | 29 Jan 2018 | 4 | 14.65 | 80.36 | 7.6 | 33.47 | 8.1 | 24.9 | 0.95 |
| C4 | 29 Jan 2018 | 5 | 14.62 | 80.27 | 7.6 | 33.47 | 8.1 | 24.9 | 1.09 |
| C4 | 29 Jan 2018 | 6 | 14.56 | 80.51 | 7.6 | 33.47 | 8.1 | 24.9 | 1.23 |
| C4 | 29 Jan 2018 | 7 | 14.52 | 81.36 | 7.5 | 33.47 | 8.0 | 24.9 | 1.21 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| C4 | 29 Jan 2018 | 8 | 14.46 | 82.57 | 7.5 | 33.47 | 8.0 | 24.9 | 1.27 |
| C4 | 29 Jan 2018 | 9 | 14.44 | 83.02 | 7.4 | 33.46 | 8.0 | 24.9 | 1.03 |
| C4 | 29 Jan 2018 | 10 | 14.36 | 83.49 | 7.3 | 33.46 | 8.0 | 24.9 | 0.85 |
| C4 | 29 Jan 2018 | 11 | 14.32 | 83.82 | 7.3 | 33.46 | 8.0 | 24.9 | 0.61 |
| C5 | 03 Jan 2018 | 1 | 16.17 | 75.94 | 7.7 | 33.55 | 8.2 | 24.6 | 0.79 |
| C5 | 03 Jan 2018 | 2 | 16.15 | 75.89 | 7.6 | 33.55 | 8.2 | 24.6 | 0.86 |
| C5 | 03 Jan 2018 | 3 | 16.11 | 75.78 | 7.5 | 33.55 | 8.2 | 24.6 | 0.89 |
| C5 | 03 Jan 2018 | 4 | 16.09 | 75.47 | 7.5 | 33.55 | 8.2 | 24.6 | 0.83 |
| C5 | 03 Jan 2018 | 5 | 16.08 | 74.78 | 7.4 | 33.55 | 8.2 | 24.6 | 0.80 |
| C5 | 03 Jan 2018 | 6 | 16.06 | 73.63 | 7.2 | 33.55 | 8.2 | 24.6 | 0.73 |
| C5 | 03 Jan 2018 | 7 | 16.05 | 71.37 | 7.1 | 33.55 | 8.2 | 24.6 | 0.69 |
| C5 | 03 Jan 2018 | 8 | 16.04 | 67.36 | 7.0 | 33.55 | 8.2 | 24.6 | 0.65 |
| C5 | 03 Jan 2018 | 9 | 16.03 | 63.99 | 6.9 | 33.55 | 8.1 | 24.6 | 0.64 |
| C5 | 03 Jan 2018 | 10 | 16.03 | 61.87 | 6.9 | 33.55 | 8.1 | 24.6 | 0.63 |
| C5 | 03 Jan 2018 | 11 | 16.01 | 55.51 | 6.8 | 33.55 | 8.1 | 24.6 | 0.62 |
| C5 | 11 Jan 2018 | 1 | 16.14 | 50.50 | 7.3 | 33.44 | 8.1 | 24.5 | 0.47 |
| C5 | 11 Jan 2018 | 2 | 16.14 | 49.95 | 7.3 | 33.46 | 8.1 | 24.5 | 0.49 |
| C5 | 11 Jan 2018 | 3 | 16.12 | 50.78 | 7.2 | 33.47 | 8.1 | 24.5 | 0.55 |
| C5 | 11 Jan 2018 | 4 | 16.10 | 53.65 | 7.2 | 33.47 | 8.1 | 24.5 | 0.56 |
| C5 | 11 Jan 2018 | 5 | 16.09 | 55.14 | 7.2 | 33.47 | 8.1 | 24.5 | 0.55 |
| C5 | 11 Jan 2018 | 6 | 16.07 | 57.13 | 7.2 | 33.47 | 8.1 | 24.6 | 0.55 |
| C5 | 11 Jan 2018 | 7 | 16.03 | 58.96 | 7.1 | 33.47 | 8.1 | 24.6 | 0.55 |
| C5 | 11 Jan 2018 | 8 | 15.92 | 57.40 | 6.9 | 33.46 | 8.1 | 24.6 | 0.62 |
| C5 | 11 Jan 2018 | 9 | 15.89 | 51.60 | 6.8 | 33.46 | 8.1 | 24.6 | 0.63 |
| C5 | 11 Jan 2018 | 10 | 15.84 | 36.39 | 6.8 | 33.46 | 8.1 | 24.6 | 0.68 |
| C5 | 11 Jan 2018 | 11 | 15.83 | 32.07 | 6.8 | 33.46 | 8.1 | 24.6 | 0.75 |
| C5 | 16 Jan 2018 | 1 | 16.27 | 36.76 | 7.6 | 33.39 | 8.1 | 24.4 | 0.56 |
| C5 | 16 Jan 2018 | 2 | 16.22 | 32.92 | 7.6 | 33.40 | 8.1 | 24.5 | 0.58 |
| C5 | 16 Jan 2018 | 3 | 16.12 | 23.15 | 7.5 | 33.39 | 8.1 | 24.5 | 0.66 |
| C5 | 16 Jan 2018 | 4 | 16.09 | 23.74 | 7.4 | 33.39 | 8.1 | 24.5 | 0.73 |
| C5 | 16 Jan 2018 | 5 | 16.03 | 17.82 | 7.3 | 33.40 | 8.1 | 24.5 | 0.75 |
| C5 | 16 Jan 2018 | 6 | 15.97 | 18.58 | 7.1 | 33.40 | 8.0 | 24.5 | 0.75 |
| C5 | 16 Jan 2018 | 7 | 15.90 | 23.27 | 6.9 | 33.40 | 8.0 | 24.5 | 0.72 |
| C5 | 16 Jan 2018 | 8 | 15.83 | 28.54 | 6.8 | 33.41 | 8.0 | 24.6 | 0.69 |
| C5 | 16 Jan 2018 | 9 | 15.76 | 30.38 | 6.7 | 33.41 | 8.1 | 24.6 | 0.67 |
| C5 | 16 Jan 2018 | 10 | 15.65 | 24.65 | 6.6 | 33.42 | 8.1 | 24.6 | 0.72 |
| C5 | 16 Jan 2018 | 11 | 15.61 | 22.08 | 6.6 | 33.42 | 8.1 | 24.6 | 0.75 |
| C5 | 22 Jan 2018 | 1 | 14.73 | 79.21 | 7.5 | 33.45 | 8.1 | 24.8 | 0.33 |
| C5 | 22 Jan 2018 | 2 | 14.73 | 78.54 | 7.5 | 33.45 | 8.1 | 24.8 | 0.36 |
| C5 | 22 Jan 2018 | 3 | 14.72 | 78.58 | 7.4 | 33.45 | 8.1 | 24.8 | 0.44 |
| C5 | 22 Jan 2018 | 4 | 14.71 | 78.66 | 7.4 | 33.45 | 8.1 | 24.8 | 0.48 |
| C5 | 22 Jan 2018 | 5 | 14.70 | 78.42 | 7.4 | 33.45 | 8.1 | 24.8 | 0.50 |
| C5 | 22 Jan 2018 | 6 | 14.67 | 76.05 | 7.3 | 33.45 | 8.1 | 24.9 | 0.50 |
| C5 | 22 Jan 2018 | 7 | 14.60 | 75.94 | 7.2 | 33.45 | 8.1 | 24.9 | 0.47 |
| C5 | 22 Jan 2018 | 8 | 14.54 | 76.61 | 7.1 | 33.45 | 8.1 | 24.9 | 0.44 |
| C5 | 22 Jan 2018 | 9 | 14.46 | 76.01 | 6.9 | 33.45 | 8.1 | 24.9 | 0.41 |
| C5 | 22 Jan 2018 | 10 | 14.40 | 71.66 | 6.8 | 33.44 | 8.1 | 24.9 | 0.41 |
| C5 | 22 Jan 2018 | 11 | 14.27 | 67.18 | 6.8 | 33.45 | 8.1 | 24.9 | 0.43 |
| C5 | 29 Jan 2018 | 1 | 14.60 | 81.12 | 7.8 | 33.47 | 8.1 | 24.9 | 1.05 |
| C5 | 29 Jan 2018 | 2 | 14.61 | 81.09 | 7.8 | 33.46 | 8.1 | 24.9 | 1.05 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| C5 | 29 Jan 2018 | 3 | 14.59 | 81.07 | 7.8 | 33.46 | 8.1 | 24.9 | 0.98 |
| C5 | 29 Jan 2018 | 4 | 14.58 | 81.07 | 7.8 | 33.46 | 8.1 | 24.9 | 1.06 |
| C5 | 29 Jan 2018 | 5 | 14.57 | 80.76 | 7.8 | 33.46 | 8.1 | 24.9 | 1.23 |
| C5 | 29 Jan 2018 | 6 | 14.56 | 80.63 | 7.8 | 33.46 | 8.1 | 24.9 | 1.51 |
| C5 | 29 Jan 2018 | 7 | 14.55 | 80.76 | 7.8 | 33.46 | 8.1 | 24.9 | 1.71 |
| C5 | 29 Jan 2018 | 8 | 14.55 | 81.06 | 7.8 | 33.46 | 8.1 | 24.9 | 1.76 |
| C5 | 29 Jan 2018 | 9 | 14.54 | 81.31 | 7.8 | 33.46 | 8.1 | 24.9 | 1.55 |
| C5 | 29 Jan 2018 | 10 | 14.54 | 81.51 | 7.8 | 33.46 | 8.1 | 24.9 | 1.42 |
| C5 | 29 Jan 2018 | 11 | 14.54 | 81.60 | 7.8 | 33.46 | 8.1 | 24.9 | 1.38 |
| A6 | 03 Jan 2018 | 1 | 15.89 | 85.75 | 7.8 | 33.52 | 8.2 | 24.6 | 1.76 |
| A6 | 03 Jan 2018 | 2 | 15.88 | 85.32 | 7.8 | 33.52 | 8.2 | 24.6 | 1.70 |
| A6 | 03 Jan 2018 | 3 | 15.88 | 85.63 | 7.8 | 33.52 | 8.2 | 24.6 | 1.70 |
| A6 | 03 Jan 2018 | 4 | 15.88 | 85.41 | 7.8 | 33.52 | 8.2 | 24.6 | 1.83 |
| A6 | 03 Jan 2018 | 5 | 15.88 | 85.48 | 7.8 | 33.52 | 8.2 | 24.6 | 1.72 |
| A6 | 03 Jan 2018 | 6 | 15.88 | 85.66 | 7.8 | 33.52 | 8.2 | 24.6 | 1.88 |
| A6 | 03 Jan 2018 | 7 | 15.87 | 85.66 | 7.8 | 33.52 | 8.2 | 24.6 | 1.68 |
| A6 | 03 Jan 2018 | 8 | 15.88 | 85.63 | 7.8 | 33.52 | 8.2 | 24.6 | 1.80 |
| A6 | 03 Jan 2018 | 9 | 15.88 | 85.62 | 7.8 | 33.52 | 8.2 | 24.6 | 1.85 |
| A6 | 03 Jan 2018 | 10 | 15.87 | 85.86 | 7.7 | 33.52 | 8.2 | 24.6 | 1.62 |
| A6 | 03 Jan 2018 | 11 | 15.84 | 86.11 | 7.6 | 33.52 | 8.2 | 24.6 | 1.58 |
| A6 | 03 Jan 2018 | 12 | 15.84 | 86.08 | 7.6 | 33.52 | 8.2 | 24.6 | 1.61 |
| A6 | 03 Jan 2018 | 13 | 15.82 | 85.91 | 7.6 | 33.52 | 8.2 | 24.6 | 1.72 |
| A6 | 03 Jan 2018 | 14 | 15.80 | 85.88 | 7.6 | 33.52 | 8.2 | 24.7 | 1.81 |
| A6 | 03 Jan 2018 | 15 | 15.77 | 85.81 | 7.5 | 33.52 | 8.2 | 24.7 | 1.77 |
| A6 | 03 Jan 2018 | 16 | 15.73 | 85.70 | 7.5 | 33.51 | 8.2 | 24.7 | 1.46 |
| A6 | 03 Jan 2018 | 17 | 15.71 | 86.01 | 7.4 | 33.51 | 8.2 | 24.7 | 1.35 |
| A6 | 03 Jan 2018 | 18 | 15.64 | 86.22 | 7.3 | 33.51 | 8.2 | 24.7 | 1.29 |
| A6 | 11 Jan 2018 | 1 | 16.02 | 75.01 | 7.3 | 33.45 | 8.1 | 24.6 | 0.56 |
| A6 | 11 Jan 2018 | 2 | 16.02 | 75.63 | 7.3 | 33.45 | 8.1 | 24.6 | 0.60 |
| A6 | 11 Jan 2018 | 3 | 16.02 | 75.56 | 7.3 | 33.45 | 8.1 | 24.6 | 0.66 |
| A6 | 11 Jan 2018 | 4 | 16.01 | 75.42 | 7.3 | 33.45 | 8.1 | 24.6 | 0.72 |
| A6 | 11 Jan 2018 | 5 | 15.99 | 74.77 | 7.2 | 33.45 | 8.1 | 24.6 | 0.75 |
| A6 | 11 Jan 2018 | 6 | 15.98 | 74.80 | 7.3 | 33.45 | 8.1 | 24.6 | 0.75 |
| A6 | 11 Jan 2018 | 7 | 15.95 | 74.82 | 7.3 | 33.45 | 8.1 | 24.6 | 0.75 |
| A6 | 11 Jan 2018 | 8 | 15.93 | 74.58 | 7.2 | 33.46 | 8.1 | 24.6 | 0.73 |
| A6 | 11 Jan 2018 | 9 | 15.89 | 74.37 | 7.2 | 33.46 | 8.1 | 24.6 | 0.71 |
| A6 | 11 Jan 2018 | 10 | 15.85 | 74.41 | 7.2 | 33.46 | 8.1 | 24.6 | 0.64 |
| A6 | 11 Jan 2018 | 11 | 15.79 | 74.69 | 7.2 | 33.46 | 8.1 | 24.6 | 0.66 |
| A6 | 11 Jan 2018 | 12 | 15.77 | 74.97 | 7.2 | 33.45 | 8.1 | 24.6 | 0.68 |
| A6 | 11 Jan 2018 | 13 | 15.76 | 75.24 | 7.2 | 33.45 | 8.1 | 24.6 | 0.68 |
| A6 | 11 Jan 2018 | 14 | 15.70 | 74.57 | 7.2 | 33.46 | 8.1 | 24.6 | 0.66 |
| A6 | 11 Jan 2018 | 15 | 15.66 | 73.95 | 7.1 | 33.46 | 8.1 | 24.6 | 0.62 |
| A6 | 11 Jan 2018 | 16 | 15.61 | 70.92 | 7.1 | 33.45 | 8.1 | 24.6 | 0.59 |
| A6 | 11 Jan 2018 | 17 | 15.62 | 69.60 | 7.1 | 33.45 | 8.1 | 24.6 | 0.57 |
| A6 | 11 Jan 2018 | 18 | 15.58 | 68.08 | 7.0 | 33.45 | 8.1 | 24.7 | 0.58 |
| A6 | 16 Jan 2018 | 1 | 16.01 | 77.33 | 7.4 | 33.41 | 8.1 | 24.5 | 0.75 |
| A6 | 16 Jan 2018 | 2 | 16.00 | 75.53 | 7.4 | 33.42 | 8.1 | 24.5 | 0.79 |
| A6 | 16 Jan 2018 | 3 | 15.97 | 78.43 | 7.3 | 33.42 | 8.1 | 24.5 | 0.82 |
| A6 | 16 Jan 2018 | 4 | 15.90 | 78.87 | 7.3 | 33.42 | 8.1 | 24.6 | 0.84 |
| A6 | 16 Jan 2018 | 5 | 15.84 | 79.23 | 7.3 | 33.43 | 8.1 | 24.6 | 0.88 |
| A6 | 16 Jan 2018 | 6 | 15.78 | 79.37 | 7.3 | 33.43 | 8.1 | 24.6 | 0.88 |
| A6 | 16 Jan 2018 | 7 | 15.83 | 79.42 | 7.3 | 33.42 | 8.1 | 24.6 | 0.86 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| A6 | 16 Jan 2018 | 8 | 15.81 | 79.31 | 7.3 | 33.43 | 8.1 | 24.6 | 0.85 |
| A6 | 16 Jan 2018 | 9 | 15.64 | 79.46 | 7.3 | 33.43 | 8.1 | 24.6 | 0.86 |
| A6 | 16 Jan 2018 | 10 | 15.63 | 79.92 | 7.2 | 33.43 | 8.1 | 24.6 | 0.84 |
| A6 | 16 Jan 2018 | 11 | 15.57 | 79.71 | 7.1 | 33.43 | 8.1 | 24.6 | 0.82 |
| A6 | 16 Jan 2018 | 12 | 15.34 | 77.89 | 7.0 | 33.43 | 8.1 | 24.7 | 0.78 |
| A6 | 16 Jan 2018 | 13 | 15.14 | 75.58 | 6.9 | 33.44 | 8.1 | 24.7 | 0.77 |
| A6 | 16 Jan 2018 | 14 | 15.08 | 71.76 | 6.8 | 33.43 | 8.1 | 24.7 | 0.77 |
| A6 | 16 Jan 2018 | 15 | 15.10 | 72.48 | 6.9 | 33.43 | 8.1 | 24.7 | 0.77 |
| A6 | 16 Jan 2018 | 16 | 15.07 | 71.13 | 6.9 | 33.43 | 8.1 | 24.7 | 0.77 |
| A6 | 16 Jan 2018 | 17 | 15.02 | 70.56 | 6.8 | 33.43 | 8.1 | 24.8 | 0.76 |
| A6 | 16 Jan 2018 | 18 | 14.99 | 69.69 | 6.8 | 33.44 | 8.1 | 24.8 | 0.77 |
| A6 | 22 Jan 2018 | 1 | 15.02 | 81.39 | 7.7 | 33.45 | 8.2 | 24.8 | 0.85 |
| A6 | 22 Jan 2018 | 2 | 15.02 | 81.32 | 7.7 | 33.45 | 8.2 | 24.8 | 0.84 |
| A6 | 22 Jan 2018 | 3 | 15.03 | 81.10 | 7.7 | 33.45 | 8.2 | 24.8 | 0.93 |
| A6 | 22 Jan 2018 | 4 | 15.03 | 81.22 | 7.7 | 33.45 | 8.2 | 24.8 | 1.03 |
| A6 | 22 Jan 2018 | 5 | 15.03 | 81.28 | 7.7 | 33.45 | 8.2 | 24.8 | 1.10 |
| A6 | 22 Jan 2018 | 6 | 15.02 | 81.19 | 7.7 | 33.45 | 8.2 | 24.8 | 1.20 |
| A6 | 22 Jan 2018 | 7 | 15.00 | 81.07 | 7.6 | 33.45 | 8.2 | 24.8 | 1.18 |
| A6 | 22 Jan 2018 | 8 | 14.94 | 81.05 | 7.6 | 33.45 | 8.2 | 24.8 | 1.18 |
| A6 | 22 Jan 2018 | 9 | 14.91 | 81.06 | 7.6 | 33.45 | 8.1 | 24.8 | 1.09 |
| A6 | 22 Jan 2018 | 10 | 14.91 | 81.02 | 7.5 | 33.45 | 8.1 | 24.8 | 1.11 |
| A6 | 22 Jan 2018 | 11 | 14.92 | 80.98 | 7.5 | 33.45 | 8.1 | 24.8 | 1.11 |
| A6 | 22 Jan 2018 | 12 | 14.91 | 81.11 | 7.6 | 33.45 | 8.2 | 24.8 | 1.12 |
| A6 | 22 Jan 2018 | 13 | 14.90 | 81.13 | 7.6 | 33.45 | 8.1 | 24.8 | 1.07 |
| A6 | 22 Jan 2018 | 14 | 14.89 | 81.22 | 7.5 | 33.45 | 8.1 | 24.8 | 1.10 |
| A6 | 22 Jan 2018 | 15 | 14.76 | 81.05 | 7.4 | 33.45 | 8.1 | 24.8 | 0.98 |
| A6 | 22 Jan 2018 | 16 | 14.73 | 81.00 | 7.4 | 33.45 | 8.1 | 24.8 | 0.96 |
| A6 | 22 Jan 2018 | 17 | 14.72 | 81.04 | 7.4 | 33.45 | 8.1 | 24.8 | 0.91 |
| A6 | 22 Jan 2018 | 18 | 14.72 | 80.96 | 7.4 | 33.45 | 8.1 | 24.8 | 0.90 |
| A6 | 29 Jan 2018 | 1 | 14.78 | 82.08 | 8.5 | 33.45 | 8.1 | 24.8 | 1.11 |
| A6 | 29 Jan 2018 | 2 | 14.78 | 81.97 | 8.5 | 33.45 | 8.1 | 24.8 | 1.07 |
| A6 | 29 Jan 2018 | 3 | 14.77 | 81.94 | 8.5 | 33.45 | 8.1 | 24.8 | 1.13 |
| A6 | 29 Jan 2018 | 4 | 14.71 | 82.02 | 8.3 | 33.46 | 8.1 | 24.8 | 1.32 |
| A6 | 29 Jan 2018 | 5 | 14.65 | 81.89 | 8.2 | 33.46 | 8.1 | 24.9 | 1.50 |
| A6 | 29 Jan 2018 | 6 | 14.59 | 82.40 | 8.1 | 33.46 | 8.1 | 24.9 | 1.74 |
| A6 | 29 Jan 2018 | 7 | 14.60 | 82.35 | 8.0 | 33.45 | 8.1 | 24.9 | 1.71 |
| A6 | 29 Jan 2018 | 8 | 14.58 | 82.42 | 8.0 | 33.46 | 8.1 | 24.9 | 1.60 |
| A6 | 29 Jan 2018 | 9 | 14.55 | 82.47 | 7.9 | 33.46 | 8.1 | 24.9 | 1.64 |
| A6 | 29 Jan 2018 | 10 | 14.48 | 82.23 | 7.8 | 33.46 | 8.1 | 24.9 | 1.61 |
| A6 | 29 Jan 2018 | 11 | 14.43 | 82.44 | 7.7 | 33.46 | 8.0 | 24.9 | 1.49 |
| A6 | 29 Jan 2018 | 12 | 14.39 | 82.45 | 7.7 | 33.46 | 8.0 | 24.9 | 1.52 |
| A6 | 29 Jan 2018 | 13 | 14.39 | 82.54 | 7.6 | 33.46 | 8.0 | 24.9 | 1.56 |
| A6 | 29 Jan 2018 | 14 | 14.39 | 82.58 | 7.5 | 33.46 | 8.0 | 24.9 | 1.49 |
| A6 | 29 Jan 2018 | 15 | 14.04 | 82.84 | 7.3 | 33.47 | 8.0 | 25.0 | 1.40 |
| A6 | 29 Jan 2018 | 16 | 13.99 | 83.41 | 7.2 | 33.46 | 8.0 | 25.0 | 1.27 |
| A6 | 29 Jan 2018 | 17 | 13.80 | 83.65 | 7.0 | 33.47 | 8.0 | 25.0 | 1.20 |
| A6 | 29 Jan 2018 | 18 | 13.53 | 83.97 | 6.8 | 33.47 | 8.0 | 25.1 | 1.06 |
| A6 | 29 Jan 2018 | 19 | 12.95 | 84.98 | 6.3 | 33.48 | 8.0 | 25.2 | 0.84 |
| C6 | 03 Jan 2018 | 1 | 16.02 | 83.57 | 7.7 | 33.53 | 8.2 | 24.6 | 0.86 |
| C6 | 03 Jan 2018 | 2 | 16.01 | 83.73 | 7.7 | 33.53 | 8.2 | 24.6 | 0.93 |
| C6 | 03 Jan 2018 | 3 | 15.99 | 83.66 | 7.7 | 33.53 | 8.2 | 24.6 | 1.05 |
| C6 | 03 Jan 2018 | 4 | 15.98 | 83.59 | 7.7 | 33.53 | 8.2 | 24.6 | 1.07 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| C6 | 03 Jan 2018 | 5 | 15.97 | 83.72 | 7.7 | 33.53 | 8.2 | 24.6 | 1.02 |
| C6 | 03 Jan 2018 | 6 | 15.96 | 83.91 | 7.6 | 33.53 | 8.2 | 24.6 | 0.98 |
| C6 | 03 Jan 2018 | 7 | 15.95 | 84.15 | 7.5 | 33.52 | 8.2 | 24.6 | 0.89 |
| C6 | 03 Jan 2018 | 8 | 15.88 | 84.29 | 7.3 | 33.52 | 8.2 | 24.6 | 0.72 |
| C6 | 03 Jan 2018 | 9 | 15.82 | 84.36 | 7.2 | 33.52 | 8.2 | 24.6 | 0.62 |
| C6 | 03 Jan 2018 | 10 | 15.82 | 83.87 | 7.1 | 33.52 | 8.1 | 24.6 | 0.55 |
| C6 | 11 Jan 2018 | 1 | 16.05 | 67.79 | 7.4 | 33.46 | 8.1 | 24.6 | 0.35 |
| C6 | 11 Jan 2018 | 2 | 16.04 | 67.20 | 7.3 | 33.47 | 8.1 | 24.6 | 0.37 |
| C6 | 11 Jan 2018 | 3 | 16.00 | 67.41 | 7.2 | 33.46 | 8.1 | 24.6 | 0.45 |
| C6 | 11 Jan 2018 | 4 | 15.99 | 67.97 | 7.2 | 33.46 | 8.1 | 24.6 | 0.49 |
| C6 | 11 Jan 2018 | 5 | 15.97 | 68.44 | 7.1 | 33.46 | 8.1 | 24.6 | 0.52 |
| C6 | 11 Jan 2018 | 6 | 15.97 | 68.83 | 7.1 | 33.46 | 8.1 | 24.6 | 0.53 |
| C6 | 11 Jan 2018 | 7 | 15.97 | 67.90 | 7.0 | 33.46 | 8.1 | 24.6 | 0.53 |
| C6 | 11 Jan 2018 | 8 | 15.97 | 67.32 | 7.1 | 33.46 | 8.1 | 24.6 | 0.52 |
| C6 | 11 Jan 2018 | 9 | 15.97 | 67.18 | 7.1 | 33.46 | 8.1 | 24.6 | 0.54 |
| C6 | 11 Jan 2018 | 10 | 15.97 | 65.07 | 7.0 | 33.46 | 8.1 | 24.6 | 0.53 |
| C6 | 16 Jan 2018 | 1 | 16.28 | 75.41 | 7.6 | 33.41 | 8.1 | 24.5 | 0.58 |
| C6 | 16 Jan 2018 | 2 | 16.24 | 74.66 | 7.6 | 33.42 | 8.1 | 24.5 | 0.59 |
| C6 | 16 Jan 2018 | 3 | 16.18 | 71.62 | 7.6 | 33.42 | 8.1 | 24.5 | 0.67 |
| C6 | 16 Jan 2018 | 4 | 16.14 | 67.56 | 7.6 | 33.42 | 8.1 | 24.5 | 0.77 |
| C6 | 16 Jan 2018 | 5 | 16.10 | 65.48 | 7.5 | 33.42 | 8.1 | 24.5 | 0.79 |
| C6 | 16 Jan 2018 | 6 | 16.00 | 65.61 | 7.4 | 33.43 | 8.1 | 24.5 | 0.74 |
| C6 | 16 Jan 2018 | 7 | 15.84 | 63.54 | 7.2 | 33.44 | 8.1 | 24.6 | 0.70 |
| C6 | 16 Jan 2018 | 8 | 15.83 | 59.61 | 7.2 | 33.43 | 8.1 | 24.6 | 0.69 |
| C6 | 16 Jan 2018 | 9 | 15.79 | 57.48 | 7.1 | 33.44 | 8.1 | 24.6 | 0.69 |
| C6 | 16 Jan 2018 | 10 | 15.78 | 57.49 | 7.1 | 33.43 | 8.1 | 24.6 | 0.73 |
| C6 | 22 Jan 2018 | 1 | 14.76 | 78.70 | 5.9 | 33.42 | 8.1 | 24.8 | 0.49 |
| C6 | 22 Jan 2018 | 2 | 14.77 | 78.25 | 7.0 | 33.44 | 8.1 | 24.8 | 0.61 |
| C6 | 22 Jan 2018 | 3 | 14.77 | 78.32 | 7.2 | 33.45 | 8.1 | 24.8 | 0.48 |
| C6 | 22 Jan 2018 | 4 | 14.74 | 78.72 | 7.3 | 33.46 | 8.1 | 24.8 | 0.44 |
| C6 | 22 Jan 2018 | 5 | 14.65 | 77.74 | 7.2 | 33.47 | 8.1 | 24.9 | 0.46 |
| C6 | 22 Jan 2018 | 6 | 14.53 | 74.87 | 7.0 | 33.51 | 8.1 | 24.9 | 0.42 |
| C6 | 22 Jan 2018 | 7 | 14.39 | 73.50 | 6.9 | 33.57 | 8.1 | 25.0 | 0.44 |
| C6 | 22 Jan 2018 | 8 | 14.23 | 73.28 | 6.8 | 33.59 | 8.1 | 25.1 | 0.46 |
| C6 | 22 Jan 2018 | 9 | 13.84 | 73.03 | 6.5 | 33.71 | 8.1 | 25.2 | 0.48 |
| C6 | 22 Jan 2018 | 10 | 13.80 | 72.80 | 6.3 | 33.57 | 8.1 | 25.1 | 0.46 |
| C6 | 29 Jan 2018 | 1 | 14.83 | 76.46 | 7.7 | 33.47 | 8.0 | 24.8 | 0.42 |
| C6 | 29 Jan 2018 | 2 | 14.86 | 76.43 | 7.7 | 33.47 | 8.1 | 24.8 | 0.38 |
| C6 | 29 Jan 2018 | 3 | 14.84 | 76.73 | 7.7 | 33.47 | 8.1 | 24.8 | 0.41 |
| C6 | 29 Jan 2018 | 4 | 14.83 | 77.12 | 7.6 | 33.47 | 8.0 | 24.8 | 0.43 |
| C6 | 29 Jan 2018 | 5 | 14.81 | 77.57 | 7.7 | 33.47 | 8.0 | 24.8 | 0.44 |
| C6 | 29 Jan 2018 | 6 | 14.61 | 78.74 | 7.5 | 33.48 | 8.0 | 24.9 | 0.48 |
| C6 | 29 Jan 2018 | 7 | 14.30 | 81.87 | 7.3 | 33.46 | 8.0 | 24.9 | 0.57 |
| C6 | 29 Jan 2018 | 8 | 14.13 | 82.80 | 7.1 | 33.45 | 8.0 | 25.0 | 0.60 |
| C6 | 29 Jan 2018 | 9 | 14.02 | 84.58 | 7.0 | 33.45 | 8.0 | 25.0 | 0.51 |
| C6 | 29 Jan 2018 | 10 | 14.00 | 84.62 | 6.9 | 33.45 | 8.0 | 25.0 | 0.41 |
| A7 | 03 Jan 2018 | 1 | 15.82 | 86.31 | 7.7 | 33.52 | 8.2 | 24.6 | 1.16 |
| A7 | 03 Jan 2018 | 2 | 15.83 | 86.22 | 7.7 | 33.52 | 8.2 | 24.6 | 1.28 |
| A7 | 03 Jan 2018 | 3 | 15.83 | 85.92 | 7.7 | 33.52 | 8.2 | 24.6 | 1.43 |
| A7 | 03 Jan 2018 | 4 | 15.83 | 85.87 | 7.7 | 33.52 | 8.2 | 24.6 | 1.39 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| A7 | 03 Jan 2018 | 5 | 15.83 | 85.93 | 7.7 | 33.52 | 8.2 | 24.6 | 1.46 |
| A7 | 03 Jan 2018 | 6 | 15.83 | 85.89 | 7.6 | 33.52 | 8.2 | 24.6 | 1.49 |
| A7 | 03 Jan 2018 | 7 | 15.83 | 85.90 | 7.6 | 33.52 | 8.2 | 24.6 | 1.54 |
| A7 | 03 Jan 2018 | 8 | 15.83 | 85.94 | 7.6 | 33.52 | 8.2 | 24.6 | 1.55 |
| A7 | 03 Jan 2018 | 9 | 15.83 | 85.79 | 7.6 | 33.52 | 8.2 | 24.6 | 1.60 |
| A7 | 03 Jan 2018 | 10 | 15.83 | 85.89 | 7.6 | 33.52 | 8.2 | 24.6 | 1.54 |
| A7 | 03 Jan 2018 | 11 | 15.83 | 85.78 | 7.6 | 33.52 | 8.2 | 24.6 | 1.52 |
| A7 | 03 Jan 2018 | 12 | 15.83 | 85.77 | 7.6 | 33.52 | 8.2 | 24.6 | 1.51 |
| A7 | 03 Jan 2018 | 13 | 15.82 | 85.79 | 7.6 | 33.52 | 8.2 | 24.6 | 1.51 |
| A7 | 03 Jan 2018 | 14 | 15.82 | 85.72 | 7.6 | 33.52 | 8.2 | 24.7 | 1.46 |
| A7 | 03 Jan 2018 | 15 | 15.80 | 85.68 | 7.6 | 33.52 | 8.2 | 24.7 | 1.36 |
| A7 | 03 Jan 2018 | 16 | 15.75 | 85.65 | 7.5 | 33.52 | 8.2 | 24.7 | 1.33 |
| A7 | 03 Jan 2018 | 17 | 15.74 | 85.87 | 7.4 | 33.52 | 8.2 | 24.7 | 1.23 |
| A7 | 03 Jan 2018 | 18 | 15.72 | 85.93 | 7.4 | 33.52 | 8.2 | 24.7 | 1.16 |
| A7 | 03 Jan 2018 | 19 | 15.71 | 86.04 | 7.4 | 33.52 | 8.2 | 24.7 | 1.10 |
| A7 | 03 Jan 2018 | 20 | 15.60 | 85.81 | 7.2 | 33.52 | 8.2 | 24.7 | 1.06 |
| A7 | 03 Jan 2018 | 21 | 15.22 | 85.78 | 7.1 | 33.50 | 8.1 | 24.8 | 0.93 |
| A7 | 11 Jan 2018 | 1 | 15.95 | 75.04 | 7.3 | 33.46 | 8.1 | 24.6 | 0.59 |
| A7 | 11 Jan 2018 | 2 | 15.95 | 75.49 | 7.3 | 33.46 | 8.1 | 24.6 | 0.58 |
| A7 | 11 Jan 2018 | 3 | 15.91 | 75.75 | 7.3 | 33.46 | 8.1 | 24.6 | 0.61 |
| A7 | 11 Jan 2018 | 4 | 15.88 | 76.45 | 7.3 | 33.46 | 8.1 | 24.6 | 0.74 |
| A7 | 11 Jan 2018 | 5 | 15.84 | 76.80 | 7.3 | 33.46 | 8.1 | 24.6 | 0.81 |
| A7 | 11 Jan 2018 | 6 | 15.82 | 77.49 | 7.3 | 33.46 | 8.1 | 24.6 | 0.86 |
| A7 | 11 Jan 2018 | 7 | 15.79 | 77.80 | 7.2 | 33.46 | 8.1 | 24.6 | 0.82 |
| A7 | 11 Jan 2018 | 8 | 15.79 | 77.59 | 7.2 | 33.46 | 8.1 | 24.6 | 0.83 |
| A7 | 11 Jan 2018 | 9 | 15.79 | 77.76 | 7.2 | 33.46 | 8.1 | 24.6 | 0.81 |
| A7 | 11 Jan 2018 | 10 | 15.68 | 77.59 | 7.2 | 33.47 | 8.1 | 24.6 | 0.86 |
| A7 | 11 Jan 2018 | 11 | 15.59 | 77.66 | 7.1 | 33.46 | 8.1 | 24.7 | 0.78 |
| A7 | 11 Jan 2018 | 12 | 15.56 | 77.42 | 7.1 | 33.46 | 8.1 | 24.7 | 0.70 |
| A7 | 11 Jan 2018 | 13 | 15.52 | 77.42 | 7.1 | 33.46 | 8.1 | 24.7 | 0.65 |
| A7 | 11 Jan 2018 | 14 | 15.51 | 77.47 | 7.1 | 33.46 | 8.1 | 24.7 | 0.60 |
| A7 | 11 Jan 2018 | 15 | 15.50 | 76.66 | 7.1 | 33.46 | 8.1 | 24.7 | 0.59 |
| A7 | 11 Jan 2018 | 16 | 15.49 | 76.47 | 7.1 | 33.46 | 8.1 | 24.7 | 0.59 |
| A7 | 11 Jan 2018 | 17 | 15.50 | 76.78 | 7.1 | 33.46 | 8.1 | 24.7 | 0.62 |
| A7 | 11 Jan 2018 | 18 | 15.50 | 76.90 | 7.1 | 33.46 | 8.1 | 24.7 | 0.60 |
| A7 | 11 Jan 2018 | 19 | 15.46 | 76.56 | 7.0 | 33.46 | 8.1 | 24.7 | 0.60 |
| A7 | 11 Jan 2018 | 20 | 15.38 | 74.95 | 6.9 | 33.46 | 8.1 | 24.7 | 0.63 |
| A7 | 16 Jan 2018 | 1 | 15.78 | 70.38 | 7.1 | 33.41 | 8.1 | 24.6 | 0.70 |
| A7 | 16 Jan 2018 | 2 | 15.78 | 72.09 | 7.1 | 33.41 | 8.1 | 24.6 | 0.80 |
| A7 | 16 Jan 2018 | 3 | 15.78 | 70.53 | 7.0 | 33.41 | 8.1 | 24.6 | 0.81 |
| A7 | 16 Jan 2018 | 4 | 15.79 | 71.55 | 7.1 | 33.41 | 8.1 | 24.6 | 0.82 |
| A7 | 16 Jan 2018 | 5 | 15.79 | 73.42 | 7.0 | 33.41 | 8.1 | 24.6 | 0.87 |
| A7 | 16 Jan 2018 | 6 | 15.76 | 72.73 | 7.1 | 33.42 | 8.1 | 24.6 | 0.96 |
| A7 | 16 Jan 2018 | 7 | 15.77 | 73.63 | 7.1 | 33.41 | 8.1 | 24.6 | 0.94 |
| A7 | 16 Jan 2018 | 8 | 15.75 | 72.92 | 7.1 | 33.42 | 8.1 | 24.6 | 0.98 |
| A7 | 16 Jan 2018 | 9 | 15.74 | 73.12 | 7.1 | 33.42 | 8.1 | 24.6 | 1.03 |
| A7 | 16 Jan 2018 | 10 | 15.65 | 73.44 | 7.1 | 33.42 | 8.1 | 24.6 | 1.06 |
| A7 | 16 Jan 2018 | 11 | 15.64 | 74.37 | 7.0 | 33.42 | 8.1 | 24.6 | 1.03 |
| A7 | 16 Jan 2018 | 12 | 15.62 | 74.15 | 7.0 | 33.42 | 8.1 | 24.6 | 1.09 |
| A7 | 16 Jan 2018 | 13 | 15.56 | 75.07 | 7.0 | 33.42 | 8.1 | 24.6 | 1.11 |
| A7 | 16 Jan 2018 | 14 | 15.43 | 74.81 | 6.9 | 33.43 | 8.1 | 24.7 | 1.10 |
| A7 | 16 Jan 2018 | 15 | 15.05 | 74.40 | 6.7 | 33.44 | 8.1 | 24.8 | 0.95 |
| A7 | 16 Jan 2018 | 16 | 14.89 | 73.19 | 6.7 | 33.44 | 8.1 | 24.8 | 0.89 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| A7 | 16 Jan 2018 | 17 | 14.77 | 70.48 | 6.6 | 33.43 | 8.1 | 24.8 | 0.87 |
| A7 | 16 Jan 2018 | 18 | 14.83 | 71.00 | 6.7 | 33.43 | 8.1 | 24.8 | 0.86 |
| A7 | 16 Jan 2018 | 19 | 14.75 | 70.46 | 6.6 | 33.44 | 8.1 | 24.8 | 0.86 |
| A7 | 16 Jan 2018 | 20 | 14.55 | 68.26 | 6.6 | 33.44 | 8.1 | 24.9 | 0.88 |
| A7 | 22 Jan 2018 | 1 | 15.10 | 84.37 | 7.8 | 33.45 | 8.2 | 24.8 | 0.90 |
| A7 | 22 Jan 2018 | 2 | 15.09 | 83.92 | 7.8 | 33.45 | 8.2 | 24.8 | 0.98 |
| A7 | 22 Jan 2018 | 3 | 15.09 | 84.53 | 7.8 | 33.45 | 8.2 | 24.8 | 0.99 |
| A7 | 22 Jan 2018 | 4 | 15.08 | 84.70 | 7.7 | 33.45 | 8.2 | 24.8 | 0.97 |
| A7 | 22 Jan 2018 | 5 | 15.08 | 84.48 | 7.7 | 33.45 | 8.2 | 24.8 | 1.02 |
| A7 | 22 Jan 2018 | 6 | 15.07 | 84.65 | 7.7 | 33.45 | 8.2 | 24.8 | 1.07 |
| A7 | 22 Jan 2018 | 7 | 15.03 | 84.57 | 7.7 | 33.45 | 8.2 | 24.8 | 1.10 |
| A7 | 22 Jan 2018 | 8 | 15.02 | 84.29 | 7.6 | 33.45 | 8.2 | 24.8 | 1.16 |
| A7 | 22 Jan 2018 | 9 | 14.99 | 84.32 | 7.6 | 33.45 | 8.2 | 24.8 | 1.14 |
| A7 | 22 Jan 2018 | 10 | 14.93 | 84.17 | 7.6 | 33.45 | 8.1 | 24.8 | 1.13 |
| A7 | 22 Jan 2018 | 11 | 14.91 | 83.92 | 7.6 | 33.45 | 8.1 | 24.8 | 1.14 |
| A7 | 22 Jan 2018 | 12 | 14.88 | 83.83 | 7.6 | 33.44 | 8.1 | 24.8 | 1.17 |
| A7 | 22 Jan 2018 | 13 | 14.87 | 83.82 | 7.6 | 33.44 | 8.1 | 24.8 | 1.15 |
| A7 | 22 Jan 2018 | 14 | 14.77 | 83.48 | 7.5 | 33.44 | 8.1 | 24.8 | 1.09 |
| A7 | 22 Jan 2018 | 15 | 14.68 | 83.15 | 7.4 | 33.44 | 8.1 | 24.8 | 1.09 |
| A7 | 22 Jan 2018 | 16 | 14.57 | 83.15 | 7.4 | 33.44 | 8.1 | 24.9 | 1.02 |
| A7 | 22 Jan 2018 | 17 | 14.50 | 83.05 | 7.3 | 33.44 | 8.1 | 24.9 | 0.90 |
| A7 | 22 Jan 2018 | 18 | 14.30 | 82.41 | 7.2 | 33.44 | 8.1 | 24.9 | 0.84 |
| A7 | 22 Jan 2018 | 19 | 14.01 | 83.77 | 7.1 | 33.43 | 8.1 | 25.0 | 0.76 |
| A7 | 22 Jan 2018 | 20 | 13.86 | 83.96 | 7.0 | 33.42 | 8.1 | 25.0 | 0.74 |
| A7 | 29 Jan 2018 | 1 | 14.64 | 81.23 | 7.8 | 33.46 | 8.0 | 24.9 | 1.30 |
| A7 | 29 Jan 2018 | 2 | 14.64 | 81.10 | 7.8 | 33.46 | 8.0 | 24.9 | 1.23 |
| A7 | 29 Jan 2018 | 3 | 14.64 | 81.25 | 7.8 | 33.46 | 8.0 | 24.9 | 1.28 |
| A7 | 29 Jan 2018 | 4 | 14.63 | 81.26 | 7.8 | 33.46 | 8.0 | 24.9 | 1.45 |
| A7 | 29 Jan 2018 | 5 | 14.62 | 81.08 | 7.8 | 33.46 | 8.0 | 24.9 | 1.62 |
| A7 | 29 Jan 2018 | 6 | 14.58 | 80.99 | 7.7 | 33.47 | 8.0 | 24.9 | 1.72 |
| A7 | 29 Jan 2018 | 7 | 14.54 | 81.34 | 7.6 | 33.46 | 8.0 | 24.9 | 1.73 |
| A7 | 29 Jan 2018 | 8 | 14.50 | 81.63 | 7.6 | 33.46 | 8.0 | 24.9 | 1.79 |
| A7 | 29 Jan 2018 | 9 | 14.43 | 82.11 | 7.5 | 33.46 | 8.0 | 24.9 | 1.69 |
| A7 | 29 Jan 2018 | 10 | 14.37 | 82.54 | 7.4 | 33.46 | 8.0 | 24.9 | 1.53 |
| A7 | 29 Jan 2018 | 11 | 14.26 | 82.90 | 7.3 | 33.46 | 8.0 | 24.9 | 1.43 |
| A7 | 29 Jan 2018 | 12 | 14.20 | 83.34 | 7.2 | 33.46 | 8.0 | 25.0 | 1.27 |
| A7 | 29 Jan 2018 | 13 | 14.10 | 83.34 | 7.1 | 33.46 | 8.0 | 25.0 | 1.13 |
| A7 | 29 Jan 2018 | 14 | 13.95 | 83.61 | 7.0 | 33.47 | 8.0 | 25.0 | 1.13 |
| A7 | 29 Jan 2018 | 15 | 13.82 | 83.78 | 6.9 | 33.46 | 8.0 | 25.0 | 1.17 |
| A7 | 29 Jan 2018 | 16 | 13.56 | 84.09 | 6.7 | 33.47 | 8.0 | 25.1 | 1.03 |
| A7 | 29 Jan 2018 | 17 | 13.28 | 84.45 | 6.5 | 33.48 | 8.0 | 25.2 | 0.91 |
| A7 | 29 Jan 2018 | 18 | 12.89 | 85.10 | 6.2 | 33.46 | 7.9 | 25.2 | 0.82 |
| A7 | 29 Jan 2018 | 19 | 12.69 | 85.34 | 6.0 | 33.47 | 7.9 | 25.3 | 0.76 |
| A7 | 29 Jan 2018 | 20 | 12.52 | 85.25 | 5.8 | 33.48 | 7.9 | 25.3 | 0.61 |
| C7 | 03 Jan 2018 | 1 | 16.04 | 86.54 | 7.7 | 33.51 | 8.2 | 24.6 | 1.05 |
| C7 | 03 Jan 2018 | 2 | 16.03 | 86.42 | 7.7 | 33.51 | 8.2 | 24.6 | 1.13 |
| C7 | 03 Jan 2018 | 3 | 16.00 | 86.48 | 7.8 | 33.51 | 8.2 | 24.6 | 1.28 |
| C7 | 03 Jan 2018 | 4 | 15.97 | 86.15 | 7.8 | 33.51 | 8.2 | 24.6 | 1.47 |
| C7 | 03 Jan 2018 | 5 | 15.93 | 86.16 | 7.7 | 33.51 | 8.2 | 24.6 | 1.62 |
| C7 | 03 Jan 2018 | 6 | 15.88 | 86.02 | 7.7 | 33.51 | 8.2 | 24.6 | 1.58 |
| C7 | 03 Jan 2018 | 7 | 15.86 | 85.89 | 7.7 | 33.51 | 8.2 | 24.6 | 1.63 |
| C7 | 03 Jan 2018 | 8 | 15.84 | 86.10 | 7.7 | 33.51 | 8.2 | 24.6 | 1.68 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| C7 | 03 Jan 2018 | 9 | 15.78 | 86.12 | 7.6 | 33.51 | 8.2 | 24.6 | 1.92 |
| C7 | 03 Jan 2018 | 10 | 15.71 | 86.14 | 7.5 | 33.50 | 8.2 | 24.7 | 1.71 |
| C7 | 03 Jan 2018 | 11 | 15.69 | 85.63 | 7.5 | 33.50 | 8.2 | 24.7 | 1.62 |
| C7 | 03 Jan 2018 | 12 | 15.66 | 85.66 | 7.5 | 33.50 | 8.2 | 24.7 | 1.65 |
| C7 | 03 Jan 2018 | 13 | 15.64 | 85.41 | 7.5 | 33.50 | 8.2 | 24.7 | 1.70 |
| C7 | 03 Jan 2018 | 14 | 15.63 | 85.57 | 7.4 | 33.50 | 8.2 | 24.7 | 1.70 |
| C7 | 03 Jan 2018 | 15 | 15.61 | 85.47 | 7.5 | 33.50 | 8.2 | 24.7 | 1.72 |
| C7 | 03 Jan 2018 | 16 | 15.60 | 85.53 | 7.5 | 33.50 | 8.2 | 24.7 | 1.68 |
| C7 | 03 Jan 2018 | 17 | 15.58 | 85.43 | 7.4 | 33.50 | 8.2 | 24.7 | 1.77 |
| C7 | 03 Jan 2018 | 18 | 15.56 | 85.66 | 7.4 | 33.50 | 8.2 | 24.7 | 1.89 |
| C7 | 03 Jan 2018 | 19 | 15.49 | 85.57 | 7.3 | 33.49 | 8.2 | 24.7 | 1.50 |
| C7 | 03 Jan 2018 | 20 | 15.47 | 85.74 | 7.3 | 33.49 | 8.1 | 24.7 | 1.29 |
| C7 | 11 Jan 2018 | 1 | 16.12 | 64.80 | 7.6 | 33.30 | 8.1 | 24.4 | 0.63 |
| C7 | 11 Jan 2018 | 2 | 16.12 | 64.64 | 7.6 | 33.30 | 8.1 | 24.4 | 0.68 |
| C7 | 11 Jan 2018 | 3 | 16.25 | 67.58 | 7.6 | 33.34 | 8.1 | 24.4 | 0.76 |
| C7 | 11 Jan 2018 | 4 | 16.38 | 72.99 | 7.5 | 33.41 | 8.1 | 24.4 | 0.78 |
| C7 | 11 Jan 2018 | 5 | 16.39 | 74.24 | 7.4 | 33.44 | 8.1 | 24.5 | 0.74 |
| C7 | 11 Jan 2018 | 6 | 16.36 | 73.62 | 7.4 | 33.44 | 8.1 | 24.5 | 0.71 |
| C7 | 11 Jan 2018 | 7 | 16.29 | 71.94 | 7.3 | 33.45 | 8.1 | 24.5 | 0.68 |
| C7 | 11 Jan 2018 | 8 | 16.17 | 70.94 | 7.3 | 33.45 | 8.1 | 24.5 | 0.64 |
| C7 | 11 Jan 2018 | 9 | 16.01 | 68.06 | 7.2 | 33.45 | 8.1 | 24.6 | 0.64 |
| C7 | 11 Jan 2018 | 10 | 15.95 | 66.64 | 7.2 | 33.45 | 8.1 | 24.6 | 0.65 |
| C7 | 11 Jan 2018 | 11 | 15.87 | 67.77 | 7.2 | 33.45 | 8.1 | 24.6 | 0.64 |
| C7 | 11 Jan 2018 | 12 | 15.85 | 70.43 | 7.2 | 33.45 | 8.1 | 24.6 | 0.65 |
| C7 | 11 Jan 2018 | 13 | 15.82 | 73.18 | 7.2 | 33.45 | 8.1 | 24.6 | 0.65 |
| C7 | 11 Jan 2018 | 14 | 15.83 | 74.72 | 7.2 | 33.45 | 8.1 | 24.6 | 0.64 |
| C7 | 11 Jan 2018 | 15 | 15.80 | 74.27 | 7.2 | 33.45 | 8.1 | 24.6 | 0.65 |
| C7 | 11 Jan 2018 | 16 | 15.77 | 74.19 | 7.2 | 33.45 | 8.1 | 24.6 | 0.71 |
| C7 | 11 Jan 2018 | 17 | 15.71 | 73.41 | 7.2 | 33.45 | 8.1 | 24.6 | 0.67 |
| C7 | 11 Jan 2018 | 18 | 15.49 | 68.75 | 7.1 | 33.46 | 8.1 | 24.7 | 0.68 |
| C7 | 16 Jan 2018 | 1 | 16.17 | 80.84 | 7.8 | 33.43 | 8.2 | 24.5 | 0.81 |
| C7 | 16 Jan 2018 | 2 | 16.16 | 79.69 | 7.8 | 33.43 | 8.2 | 24.5 | 0.82 |
| C7 | 16 Jan 2018 | 3 | 16.12 | 80.16 | 7.8 | 33.43 | 8.2 | 24.5 | 0.92 |
| C7 | 16 Jan 2018 | 4 | 15.92 | 83.92 | 7.6 | 33.45 | 8.2 | 24.6 | 0.95 |
| C7 | 16 Jan 2018 | 5 | 15.82 | 84.74 | 7.6 | 33.45 | 8.2 | 24.6 | 0.96 |
| C7 | 16 Jan 2018 | 6 | 15.72 | 84.83 | 7.5 | 33.45 | 8.1 | 24.6 | 0.98 |
| C7 | 16 Jan 2018 | 7 | 15.58 | 84.37 | 7.5 | 33.45 | 8.1 | 24.7 | 1.02 |
| C7 | 16 Jan 2018 | 8 | 15.50 | 83.61 | 7.4 | 33.45 | 8.1 | 24.7 | 1.04 |
| C7 | 16 Jan 2018 | 9 | 15.39 | 82.82 | 7.4 | 33.45 | 8.1 | 24.7 | 1.03 |
| C7 | 16 Jan 2018 | 10 | 15.37 | 82.91 | 7.4 | 33.45 | 8.1 | 24.7 | 1.08 |
| C7 | 16 Jan 2018 | 11 | 15.35 | 83.05 | 7.3 | 33.45 | 8.1 | 24.7 | 1.08 |
| C7 | 16 Jan 2018 | 12 | 15.23 | 83.05 | 7.2 | 33.45 | 8.1 | 24.7 | 1.05 |
| C7 | 16 Jan 2018 | 13 | 15.07 | 81.03 | 7.1 | 33.45 | 8.1 | 24.8 | 0.94 |
| C7 | 16 Jan 2018 | 14 | 14.84 | 80.06 | 7.0 | 33.45 | 8.1 | 24.8 | 0.91 |
| C7 | 16 Jan 2018 | 15 | 14.73 | 78.44 | 7.0 | 33.44 | 8.1 | 24.8 | 0.85 |
| C7 | 16 Jan 2018 | 16 | 14.62 | 75.48 | 6.9 | 33.44 | 8.1 | 24.9 | 0.84 |
| C7 | 16 Jan 2018 | 17 | 14.56 | 73.24 | 6.8 | 33.44 | 8.1 | 24.9 | 0.82 |
| C7 | 16 Jan 2018 | 18 | 14.38 | 68.58 | 6.7 | 33.44 | 8.1 | 24.9 | 0.82 |
| C7 | 16 Jan 2018 | 19 | 14.25 | 57.73 | 6.7 | 33.43 | 8.1 | 24.9 | 0.92 |
| C7 | 22 Jan 2018 | 1 | 14.97 | 79.44 | 7.2 | 33.43 | 8.1 | 24.8 | 1.11 |
| C7 | 22 Jan 2018 | 2 | 14.97 | 78.06 | 7.4 | 33.44 | 8.1 | 24.8 | 0.96 |
| C7 | 22 Jan 2018 | 3 | 14.97 | 79.12 | 7.4 | 33.44 | 8.1 | 24.8 | 0.92 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| C7 | 22 Jan 2018 | 4 | 14.97 | 79.48 | 7.4 | 33.45 | 8.1 | 24.8 | 0.90 |
| C7 | 22 Jan 2018 | 5 | 14.97 | 79.50 | 7.5 | 33.45 | 8.1 | 24.8 | 0.95 |
| C7 | 22 Jan 2018 | 6 | 14.98 | 79.30 | 7.5 | 33.45 | 8.1 | 24.8 | 1.07 |
| C7 | 22 Jan 2018 | 7 | 14.98 | 79.23 | 7.5 | 33.45 | 8.1 | 24.8 | 1.08 |
| C7 | 22 Jan 2018 | 8 | 14.97 | 79.16 | 7.5 | 33.45 | 8.1 | 24.8 | 1.17 |
| C7 | 22 Jan 2018 | 9 | 14.97 | 79.14 | 7.5 | 33.45 | 8.1 | 24.8 | 1.22 |
| C7 | 22 Jan 2018 | 10 | 14.96 | 79.17 | 7.5 | 33.45 | 8.1 | 24.8 | 1.22 |
| C7 | 22 Jan 2018 | 11 | 14.94 | 79.08 | 7.5 | 33.45 | 8.1 | 24.8 | 1.28 |
| C7 | 22 Jan 2018 | 12 | 14.93 | 78.98 | 7.4 | 33.45 | 8.1 | 24.8 | 1.24 |
| C7 | 22 Jan 2018 | 13 | 14.88 | 78.99 | 7.4 | 33.45 | 8.1 | 24.8 | 1.16 |
| C7 | 22 Jan 2018 | 14 | 14.83 | 78.68 | 7.4 | 33.45 | 8.1 | 24.8 | 1.10 |
| C7 | 22 Jan 2018 | 15 | 14.76 | 78.37 | 7.3 | 33.45 | 8.1 | 24.8 | 1.06 |
| C7 | 22 Jan 2018 | 16 | 14.63 | 78.08 | 7.2 | 33.45 | 8.1 | 24.9 | 0.96 |
| C7 | 22 Jan 2018 | 17 | 14.35 | 78.04 | 7.0 | 33.47 | 8.1 | 24.9 | 0.90 |
| C7 | 22 Jan 2018 | 18 | 13.98 | 76.30 | 6.9 | 33.45 | 8.1 | 25.0 | 0.80 |
| C7 | 29 Jan 2018 | 1 | 14.73 | 82.23 | 8.4 | 33.46 | 8.1 | 24.8 | 0.96 |
| C7 | 29 Jan 2018 | 2 | 14.72 | 82.09 | 8.4 | 33.46 | 8.1 | 24.8 | 1.08 |
| C7 | 29 Jan 2018 | 3 | 14.71 | 81.66 | 8.4 | 33.46 | 8.1 | 24.8 | 1.21 |
| C7 | 29 Jan 2018 | 4 | 14.71 | 81.57 | 8.4 | 33.46 | 8.1 | 24.8 | 1.43 |
| C7 | 29 Jan 2018 | 5 | 14.71 | 81.66 | 8.4 | 33.46 | 8.1 | 24.8 | 1.64 |
| C7 | 29 Jan 2018 | 6 | 14.70 | 81.52 | 8.4 | 33.46 | 8.1 | 24.8 | 1.82 |
| C7 | 29 Jan 2018 | 7 | 14.69 | 81.66 | 8.4 | 33.46 | 8.1 | 24.8 | 2.02 |
| C7 | 29 Jan 2018 | 8 | 14.65 | 81.85 | 8.2 | 33.46 | 8.1 | 24.9 | 1.88 |
| C7 | 29 Jan 2018 | 9 | 14.51 | 82.67 | 8.0 | 33.46 | 8.1 | 24.9 | 1.75 |
| C7 | 29 Jan 2018 | 10 | 14.42 | 83.11 | 7.8 | 33.45 | 8.1 | 24.9 | 1.47 |
| C7 | 29 Jan 2018 | 11 | 14.39 | 83.40 | 7.8 | 33.45 | 8.1 | 24.9 | 1.38 |
| C7 | 29 Jan 2018 | 12 | 14.31 | 83.31 | 7.6 | 33.45 | 8.1 | 24.9 | 1.34 |
| C7 | 29 Jan 2018 | 13 | 14.20 | 83.47 | 7.4 | 33.45 | 8.0 | 25.0 | 1.24 |
| C7 | 29 Jan 2018 | 14 | 13.91 | 83.77 | 7.0 | 33.46 | 8.0 | 25.0 | 0.90 |
| C7 | 29 Jan 2018 | 15 | 13.03 | 84.70 | 6.3 | 33.48 | 8.0 | 25.2 | 0.63 |
| C7 | 29 Jan 2018 | 16 | 12.49 | 84.70 | 6.0 | 33.47 | 7.9 | 25.3 | 0.61 |
| C7 | 29 Jan 2018 | 17 | 12.38 | 84.81 | 5.9 | 33.45 | 7.9 | 25.3 | 0.59 |
| C7 | 29 Jan 2018 | 18 | 12.30 | 84.77 | 5.8 | 33.46 | 7.9 | 25.3 | 0.54 |
| C7 | 29 Jan 2018 | 19 | 12.28 | 84.94 | 5.8 | 33.46 | 7.9 | 25.3 | 0.52 |
| C8 | 03 Jan 2018 | 1 | 16.01 | 87.04 | 7.8 | 33.51 | 8.2 | 24.6 | 1.26 |
| C8 | 03 Jan 2018 | 2 | 16.01 | 86.85 | 7.8 | 33.51 | 8.2 | 24.6 | 1.21 |
| C8 | 03 Jan 2018 | 3 | 15.99 | 86.77 | 7.7 | 33.51 | 8.2 | 24.6 | 1.27 |
| C8 | 03 Jan 2018 | 4 | 15.98 | 86.58 | 7.8 | 33.51 | 8.2 | 24.6 | 1.35 |
| C8 | 03 Jan 2018 | 5 | 15.98 | 85.79 | 7.7 | 33.51 | 8.2 | 24.6 | 1.32 |
| C8 | 03 Jan 2018 | 6 | 15.97 | 86.18 | 7.7 | 33.51 | 8.2 | 24.6 | 1.33 |
| C8 | 03 Jan 2018 | 7 | 15.95 | 85.99 | 7.8 | 33.51 | 8.2 | 24.6 | 1.40 |
| C8 | 03 Jan 2018 | 8 | 15.95 | 86.04 | 7.8 | 33.51 | 8.2 | 24.6 | 1.48 |
| C8 | 03 Jan 2018 | 9 | 15.84 | 85.35 | 7.7 | 33.51 | 8.2 | 24.6 | 1.87 |
| C8 | 03 Jan 2018 | 10 | 15.79 | 85.10 | 7.7 | 33.51 | 8.2 | 24.6 | 1.82 |
| C8 | 03 Jan 2018 | 11 | 15.74 | 85.46 | 7.6 | 33.51 | 8.2 | 24.7 | 1.88 |
| C8 | 03 Jan 2018 | 12 | 15.72 | 85.18 | 7.6 | 33.50 | 8.2 | 24.7 | 2.04 |
| C8 | 03 Jan 2018 | 13 | 15.71 | 85.42 | 7.5 | 33.50 | 8.2 | 24.7 | 1.91 |
| C8 | 03 Jan 2018 | 14 | 15.67 | 85.11 | 7.5 | 33.50 | 8.2 | 24.7 | 1.76 |
| C8 | 03 Jan 2018 | 15 | 15.65 | 85.38 | 7.5 | 33.50 | 8.2 | 24.7 | 1.85 |
| C8 | 03 Jan 2018 | 16 | 15.59 | 85.28 | 7.4 | 33.50 | 8.2 | 24.7 | 1.77 |
| C8 | 03 Jan 2018 | 17 | 15.55 | 85.39 | 7.4 | 33.49 | 8.2 | 24.7 | 1.56 |
| C8 | 03 Jan 2018 | 18 | 15.54 | 85.32 | 7.4 | 33.49 | 8.2 | 24.7 | 1.60 |
| C8 | 03 Jan 2018 | 19 | 15.54 | 85.57 | 7.4 | 33.49 | 8.2 | 24.7 | 1.56 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| C8 | 03 Jan 2018 | 20 | 15.54 | 85.33 | 7.4 | 33.49 | 8.2 | 24.7 | 1.60 |
| C8 | 11 Jan 2018 | 1 | 16.43 | 71.19 | 7.6 | 33.36 | 8.1 | 24.4 | 0.94 |
| C8 | 11 Jan 2018 | 2 | 16.49 | 74.50 | 7.6 | 33.40 | 8.2 | 24.4 | 0.89 |
| C8 | 11 Jan 2018 | 3 | 16.51 | 70.15 | 7.6 | 33.42 | 8.2 | 24.4 | 0.87 |
| C8 | 11 Jan 2018 | 4 | 16.56 | 79.01 | 7.5 | 33.46 | 8.2 | 24.4 | 0.83 |
| C8 | 11 Jan 2018 | 5 | 16.56 | 81.88 | 7.5 | 33.48 | 8.2 | 24.4 | 0.77 |
| C8 | 11 Jan 2018 | 6 | 16.53 | 81.37 | 7.4 | 33.48 | 8.2 | 24.5 | 0.73 |
| C8 | 11 Jan 2018 | 7 | 16.46 | 78.03 | 7.4 | 33.48 | 8.2 | 24.5 | 0.73 |
| C8 | 11 Jan 2018 | 8 | 16.43 | 75.64 | 7.4 | 33.48 | 8.2 | 24.5 | 0.80 |
| C8 | 11 Jan 2018 | 9 | 16.35 | 71.11 | 7.4 | 33.48 | 8.2 | 24.5 | 0.80 |
| C8 | 11 Jan 2018 | 10 | 16.29 | 67.80 | 7.4 | 33.47 | 8.2 | 24.5 | 0.79 |
| C8 | 11 Jan 2018 | 11 | 16.32 | 68.58 | 7.4 | 33.47 | 8.2 | 24.5 | 0.76 |
| C8 | 11 Jan 2018 | 12 | 16.10 | 64.33 | 7.3 | 33.47 | 8.2 | 24.5 | 0.77 |
| C8 | 11 Jan 2018 | 13 | 15.98 | 63.84 | 7.2 | 33.46 | 8.1 | 24.6 | 0.77 |
| C8 | 11 Jan 2018 | 14 | 15.91 | 64.54 | 7.2 | 33.45 | 8.1 | 24.6 | 0.77 |
| C8 | 11 Jan 2018 | 15 | 15.67 | 65.26 | 7.2 | 33.45 | 8.1 | 24.6 | 0.75 |
| C8 | 11 Jan 2018 | 16 | 15.58 | 63.57 | 7.1 | 33.45 | 8.1 | 24.6 | 0.74 |
| C8 | 11 Jan 2018 | 17 | 15.49 | 57.32 | 7.1 | 33.45 | 8.1 | 24.7 | 0.87 |
| C8 | 11 Jan 2018 | 18 | 15.48 | 43.97 | 7.1 | 33.44 | 8.1 | 24.7 | 0.94 |
| C8 | 11 Jan 2018 | 19 | 15.47 | 41.36 | 7.1 | 33.45 | 8.1 | 24.7 | 0.96 |
| C8 | 16 Jan 2018 | 1 | 16.30 | 71.08 | 7.7 | 33.41 | 8.2 | 24.5 | 0.86 |
| C8 | 16 Jan 2018 | 2 | 16.29 | 70.97 | 7.7 | 33.41 | 8.2 | 24.5 | 0.88 |
| C8 | 16 Jan 2018 | 3 | 16.23 | 71.93 | 7.7 | 33.43 | 8.2 | 24.5 | 1.00 |
| C8 | 16 Jan 2018 | 4 | 16.04 | 77.47 | 7.7 | 33.45 | 8.2 | 24.5 | 1.11 |
| C8 | 16 Jan 2018 | 5 | 15.92 | 81.60 | 7.5 | 33.45 | 8.2 | 24.6 | 1.15 |
| C8 | 16 Jan 2018 | 6 | 15.58 | 81.84 | 7.4 | 33.46 | 8.2 | 24.7 | 1.16 |
| C8 | 16 Jan 2018 | 7 | 15.47 | 81.76 | 7.4 | 33.45 | 8.1 | 24.7 | 1.15 |
| C8 | 16 Jan 2018 | 8 | 15.40 | 82.63 | 7.4 | 33.45 | 8.1 | 24.7 | 1.14 |
| C8 | 16 Jan 2018 | 9 | 15.37 | 83.55 | 7.4 | 33.45 | 8.1 | 24.7 | 1.20 |
| C8 | 16 Jan 2018 | 10 | 15.36 | 83.77 | 7.4 | 33.45 | 8.1 | 24.7 | 1.19 |
| C8 | 16 Jan 2018 | 11 | 15.11 | 83.95 | 7.2 | 33.46 | 8.1 | 24.8 | 1.10 |
| C8 | 16 Jan 2018 | 12 | 14.93 | 83.14 | 7.2 | 33.44 | 8.1 | 24.8 | 1.03 |
| C8 | 16 Jan 2018 | 13 | 14.83 | 81.42 | 7.1 | 33.44 | 8.1 | 24.8 | 0.91 |
| C8 | 16 Jan 2018 | 14 | 14.60 | 77.89 | 6.9 | 33.45 | 8.1 | 24.9 | 0.85 |
| C8 | 16 Jan 2018 | 15 | 14.23 | 71.14 | 6.7 | 33.45 | 8.1 | 24.9 | 0.85 |
| C8 | 16 Jan 2018 | 16 | 14.12 | 66.56 | 6.6 | 33.43 | 8.1 | 24.9 | 0.87 |
| C8 | 16 Jan 2018 | 17 | 14.02 | 55.78 | 6.6 | 33.43 | 8.1 | 25.0 | 0.88 |
| C8 | 16 Jan 2018 | 18 | 14.11 | 57.06 | 6.6 | 33.42 | 8.1 | 24.9 | 0.89 |
| C8 | 16 Jan 2018 | 19 | 14.13 | 52.03 | 6.6 | 33.43 | 8.1 | 24.9 | 0.96 |
| C8 | 16 Jan 2018 | 20 | 14.09 | 49.06 | 6.6 | 33.43 | 8.1 | 25.0 | 0.97 |
| C8 | 22 Jan 2018 | 1 | 15.04 | 73.86 | 6.0 | 33.37 | 8.1 | 24.7 | 0.62 |
| C8 | 22 Jan 2018 | 2 | 15.04 | 73.75 | 6.5 | 33.39 | 8.1 | 24.7 | 0.61 |
| C8 | 22 Jan 2018 | 3 | 15.04 | 73.56 | 7.0 | 33.44 | 8.1 | 24.8 | 0.60 |
| C8 | 22 Jan 2018 | 4 | 15.05 | 73.52 | 7.2 | 33.44 | 8.2 | 24.8 | 0.61 |
| C8 | 22 Jan 2018 | 5 | 15.04 | 73.61 | 7.5 | 33.45 | 8.2 | 24.8 | 0.60 |
| C8 | 22 Jan 2018 | 6 | 14.97 | 73.67 | 7.5 | 33.48 | 8.1 | 24.8 | 0.61 |
| C8 | 22 Jan 2018 | 7 | 14.79 | 72.63 | 7.4 | 33.52 | 8.1 | 24.9 | 0.61 |
| C8 | 22 Jan 2018 | 8 | 14.70 | 69.58 | 7.1 | 33.49 | 8.1 | 24.9 | 0.61 |
| C8 | 22 Jan 2018 | 9 | 14.62 | 64.38 | 6.9 | 33.52 | 8.1 | 24.9 | 0.67 |
| C8 | 22 Jan 2018 | 10 | 14.53 | 69.77 | 7.0 | 33.52 | 8.1 | 24.9 | 0.92 |
| C8 | 22 Jan 2018 | 11 | 14.43 | 72.87 | 6.9 | 33.50 | 8.1 | 24.9 | 0.95 |
| C8 | 22 Jan 2018 | 12 | 14.31 | 76.50 | 6.7 | 33.54 | 8.1 | 25.0 | 0.94 |

| Station | Date | Depth (m) | Temp (°C) | XMS (%) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| C8 | 22 Jan 2018 | 13 | 14.22 | 78.17 | 6.7 | 33.55 | 8.1 | 25.0 | 0.94 |
| C8 | 22 Jan 2018 | 14 | 14.18 | 78.62 | 6.7 | 33.53 | 8.1 | 25.0 | 0.92 |
| C8 | 22 Jan 2018 | 15 | 14.16 | 78.72 | 6.5 | 33.53 | 8.1 | 25.0 | 0.96 |
| C8 | 22 Jan 2018 | 16 | 14.12 | 78.85 | 6.6 | 33.53 | 8.1 | 25.0 | 0.93 |
| C8 | 22 Jan 2018 | 17 | 14.07 | 77.47 | 6.7 | 33.55 | 8.1 | 25.1 | 0.96 |
| C8 | 22 Jan 2018 | 18 | 14.04 | 74.83 | 6.6 | 33.52 | 8.1 | 25.0 | 0.95 |
| C8 | 22 Jan 2018 | 19 | 14.03 | 73.01 | 6.5 | 33.49 | 8.1 | 25.0 | 0.98 |
| C8 | 22 Jan 2018 | 20 | 14.04 | 72.75 | 6.7 | 33.48 | 8.1 | 25.0 | 1.08 |
| C8 | 29 Jan 2018 | 1 | 14.83 | 74.01 | 7.3 | 33.45 | 8.1 | 24.8 | 0.82 |
| C8 | 29 Jan 2018 | 2 | 14.82 | 74.15 | 7.6 | 33.45 | 8.1 | 24.8 | 0.77 |
| C8 | 29 Jan 2018 | 3 | 14.81 | 74.34 | 8.1 | 33.46 | 8.1 | 24.8 | 0.80 |
| C8 | 29 Jan 2018 | 4 | 14.81 | 74.32 | 8.1 | 33.45 | 8.1 | 24.8 | 0.86 |
| C8 | 29 Jan 2018 | 5 | 14.79 | 74.25 | 8.0 | 33.46 | 8.1 | 24.8 | 1.01 |
| C8 | 29 Jan 2018 | 6 | 14.72 | 76.30 | 8.0 | 33.46 | 8.1 | 24.8 | 1.18 |
| C8 | 29 Jan 2018 | 7 | 14.71 | 79.26 | 8.1 | 33.46 | 8.1 | 24.8 | 1.56 |
| C8 | 29 Jan 2018 | 8 | 14.71 | 80.97 | 8.1 | 33.46 | 8.1 | 24.8 | 1.99 |
| C8 | 29 Jan 2018 | 9 | 14.71 | 81.19 | 8.1 | 33.46 | 8.1 | 24.8 | 2.06 |
| C8 | 29 Jan 2018 | 10 | 14.70 | 81.82 | 8.1 | 33.46 | 8.1 | 24.8 | 2.29 |
| C8 | 29 Jan 2018 | 11 | 14.60 | 82.04 | 8.0 | 33.47 | 8.1 | 24.9 | 2.11 |
| C8 | 29 Jan 2018 | 12 | 14.38 | 83.04 | 7.7 | 33.47 | 8.1 | 24.9 | 1.86 |
| C8 | 29 Jan 2018 | 13 | 14.28 | 83.07 | 7.5 | 33.45 | 8.0 | 24.9 | 1.57 |
| C8 | 29 Jan 2018 | 14 | 13.99 | 81.78 | 7.1 | 33.48 | 8.0 | 25.0 | 1.30 |
| C8 | 29 Jan 2018 | 15 | 13.55 | 82.06 | 6.8 | 33.47 | 8.0 | 25.1 | 1.11 |
| C8 | 29 Jan 2018 | 16 | 13.31 | 82.80 | 6.6 | 33.47 | 8.0 | 25.1 | 1.00 |
| C8 | 29 Jan 2018 | 17 | 12.80 | 83.81 | 6.3 | 33.48 | 8.0 | 25.3 | 0.84 |
| C8 | 29 Jan 2018 | 18 | 12.41 | 84.73 | 6.0 | 33.46 | 7.9 | 25.3 | 0.67 |
| C8 | 29 Jan 2018 | 19 | 12.37 | 84.80 | 5.9 | 33.45 | 7.9 | 25.3 | 0.59 |
| C8 | 29 Jan 2018 | 20 | 12.37 | 84.79 | 5.9 | 33.45 | 7.9 | 25.3 | 0.60 |

NA = not available

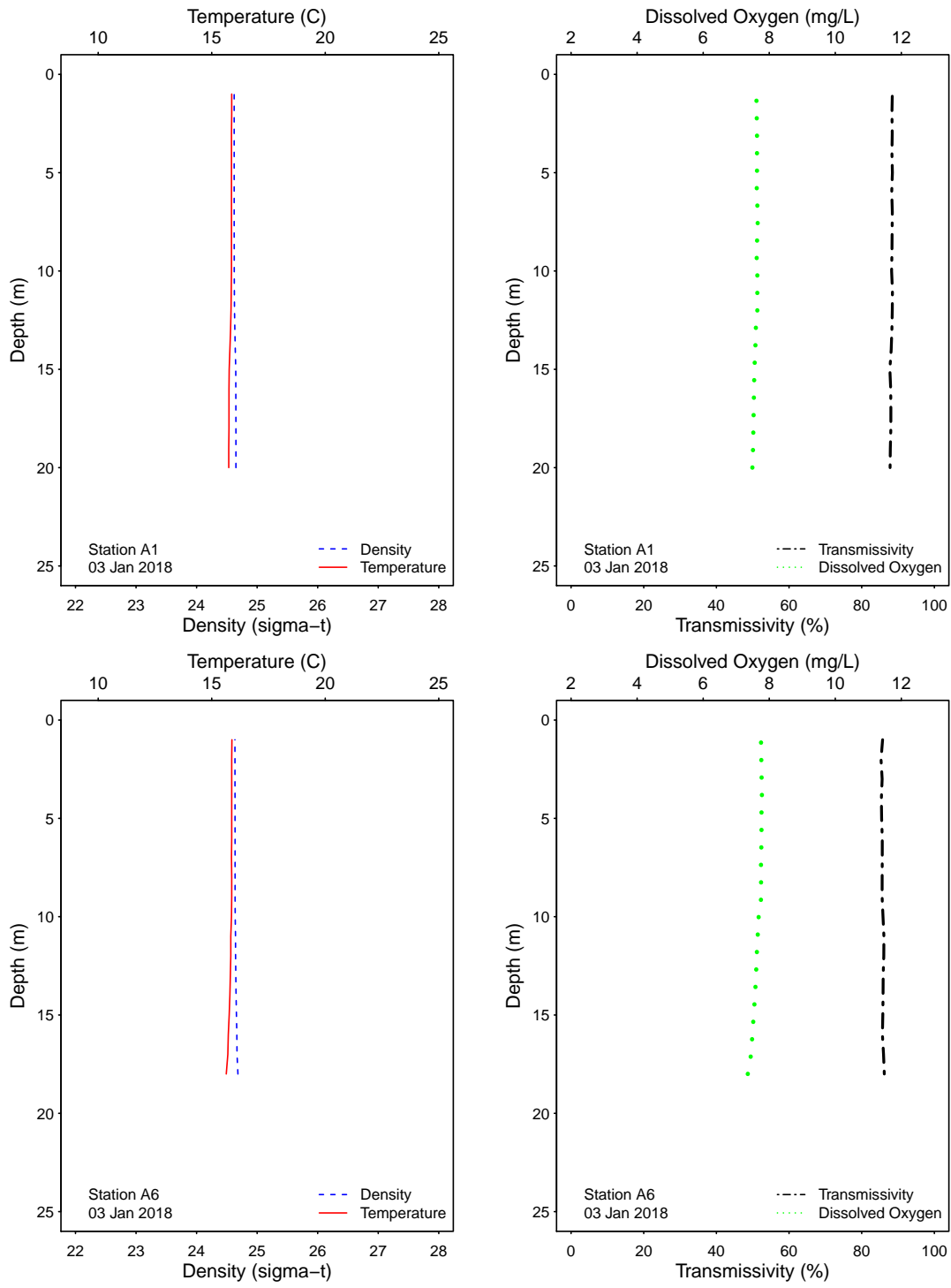


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

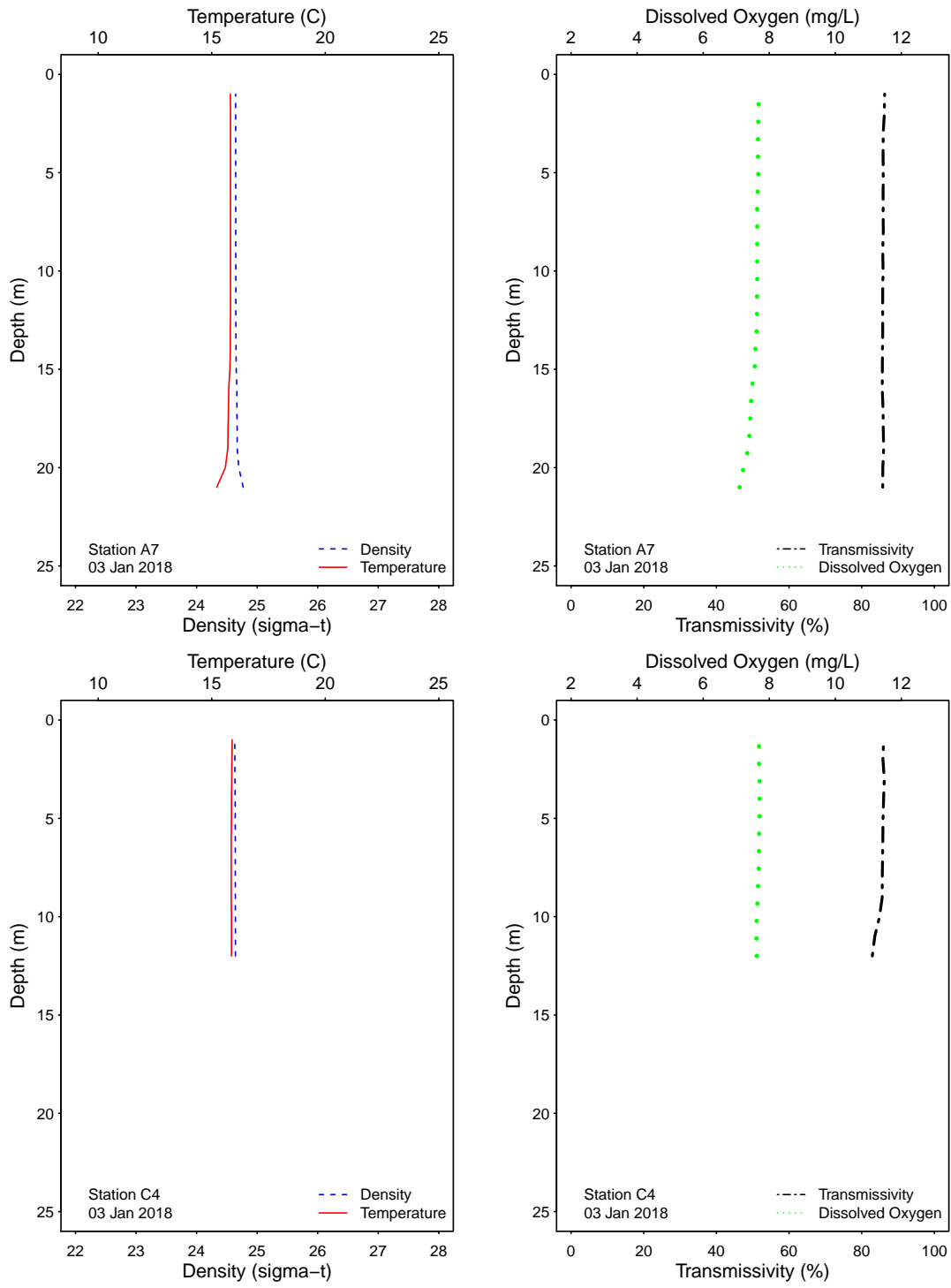


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

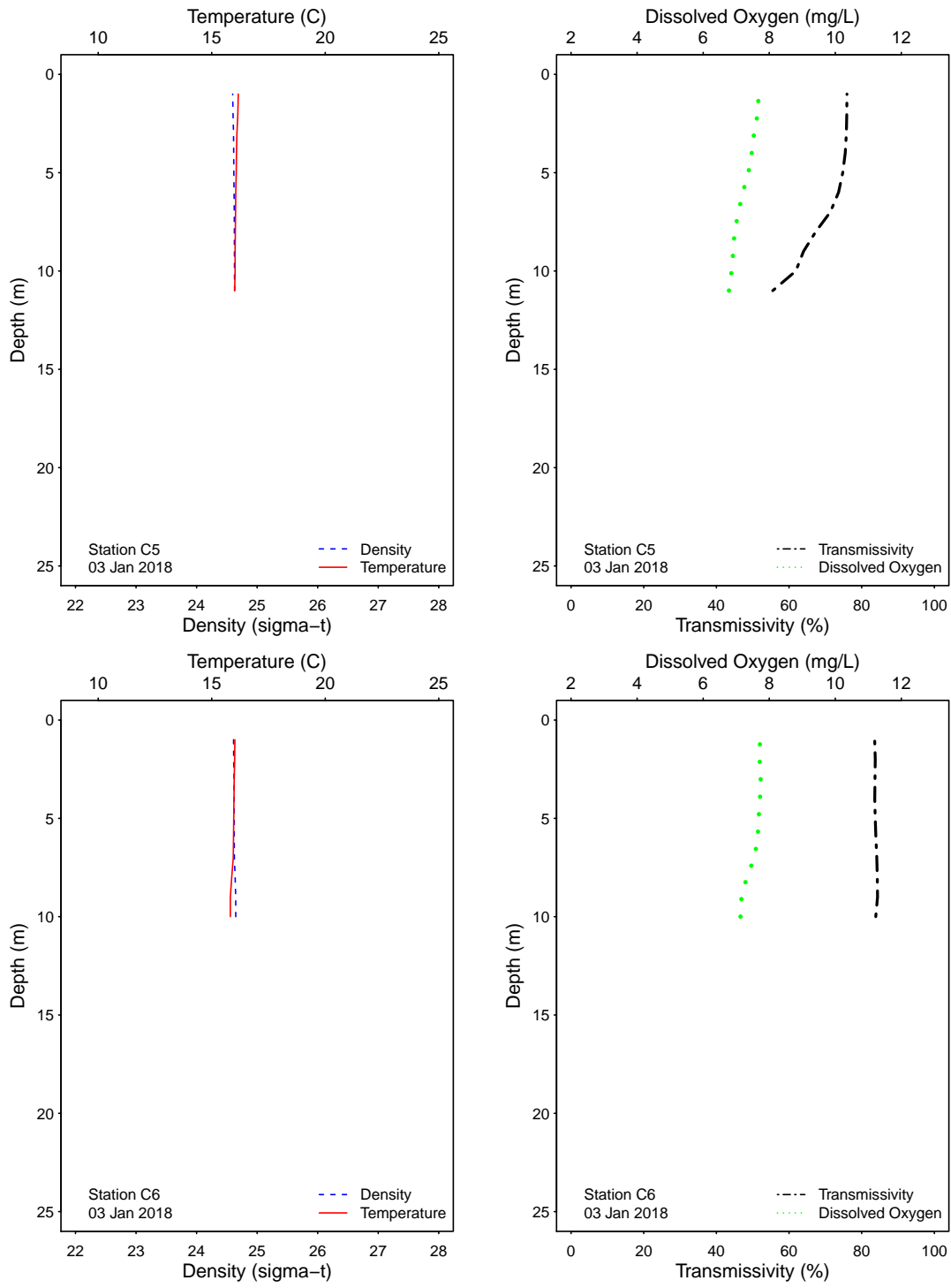


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

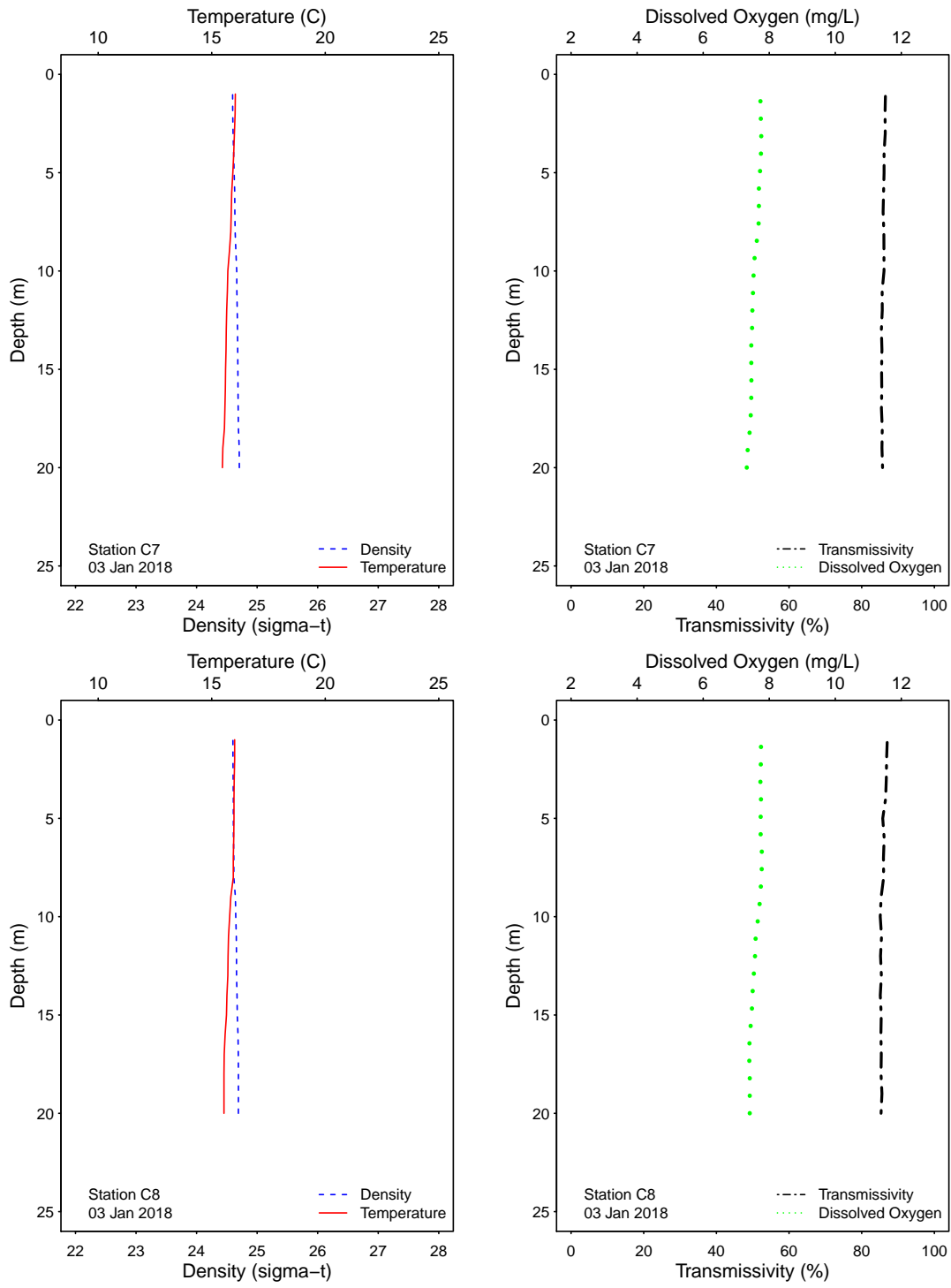


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

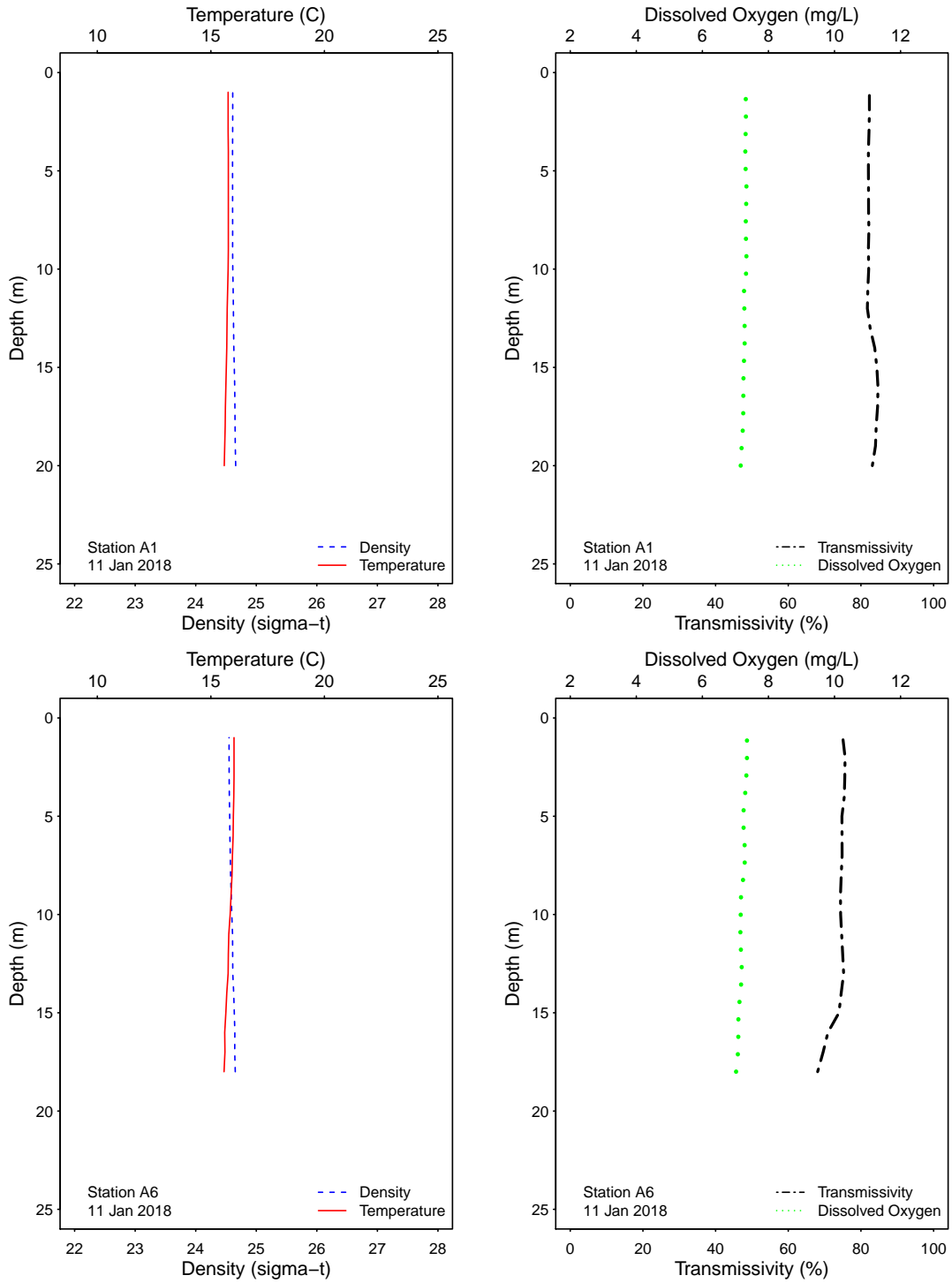


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

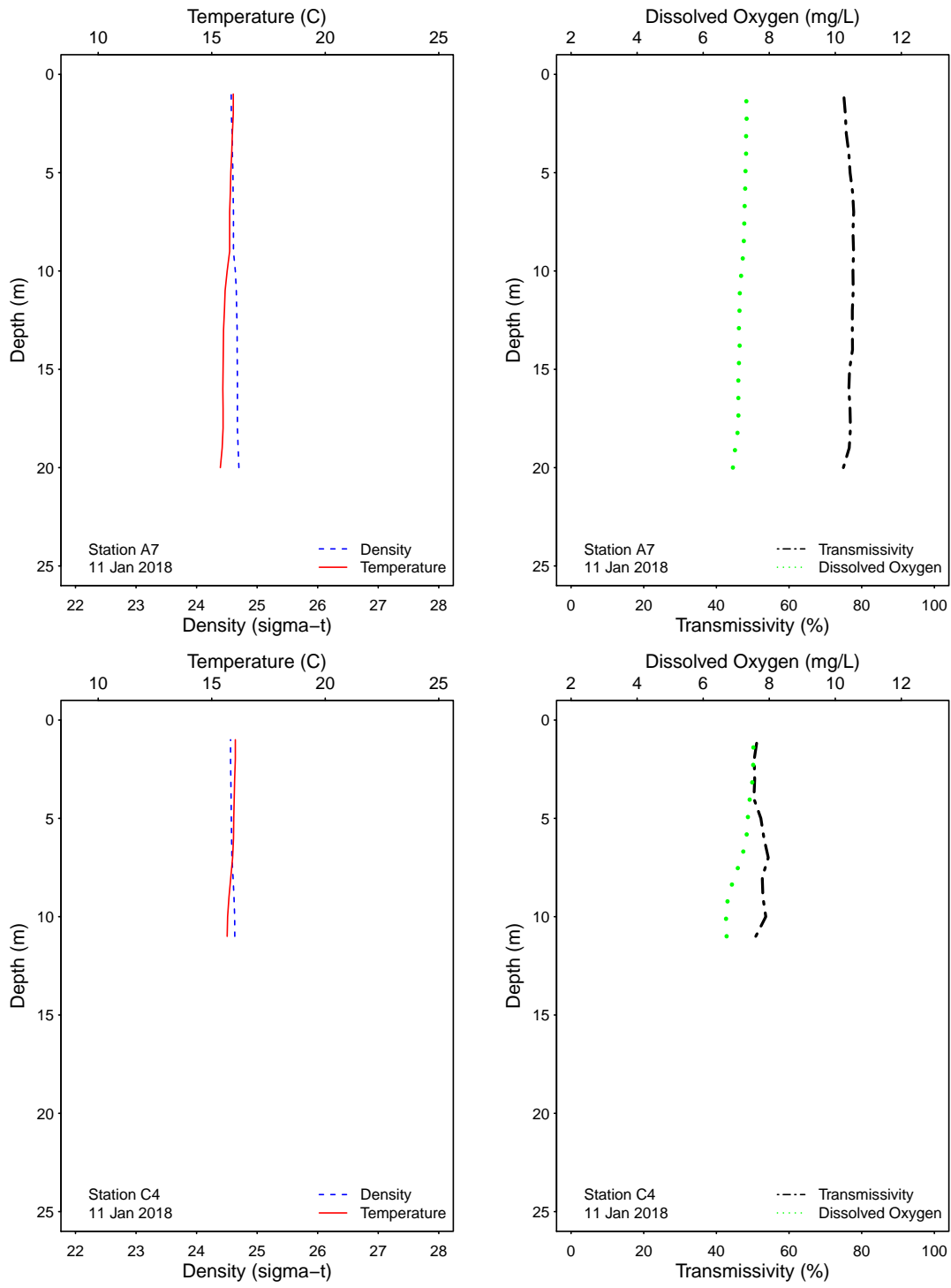


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

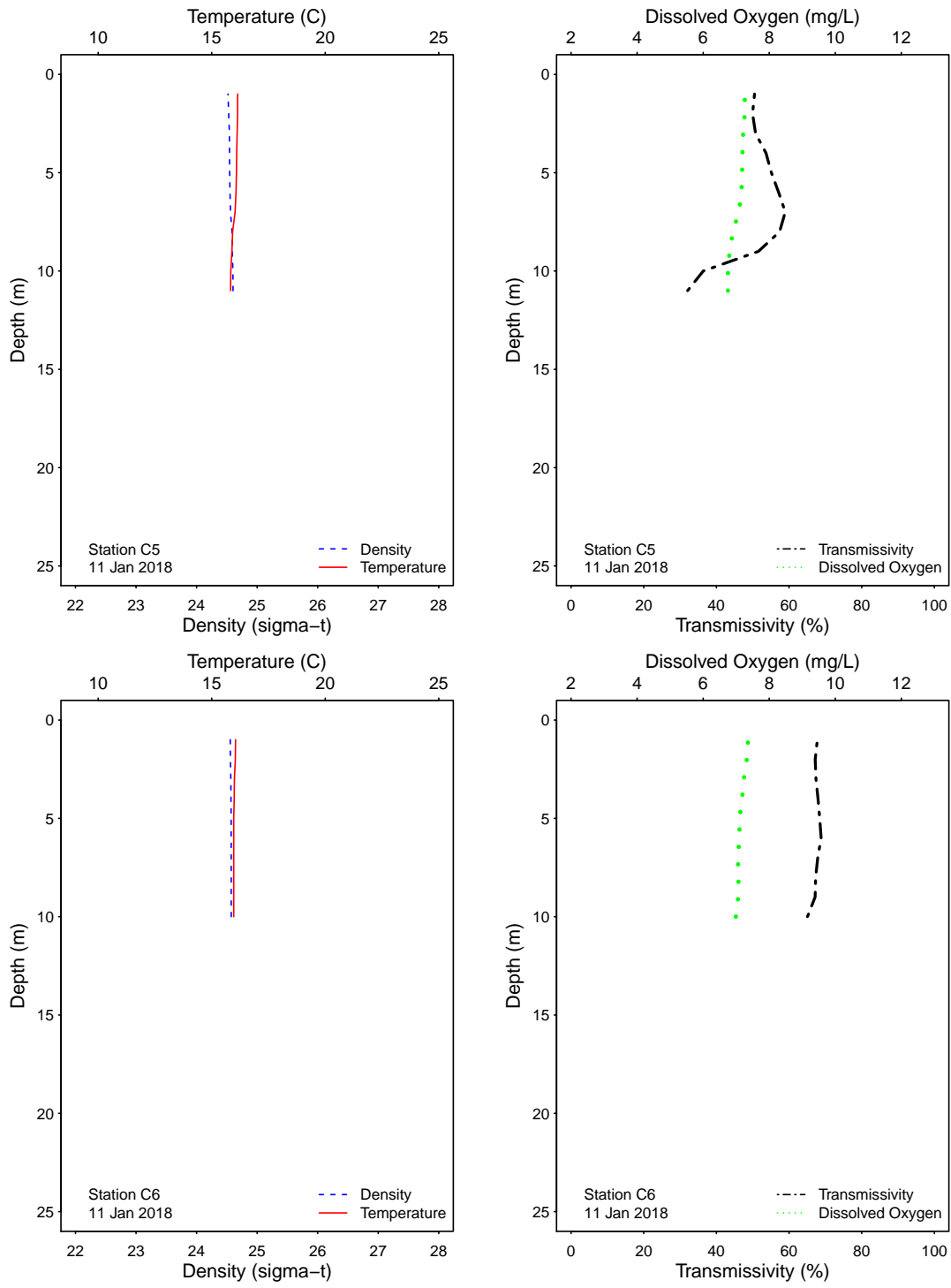


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

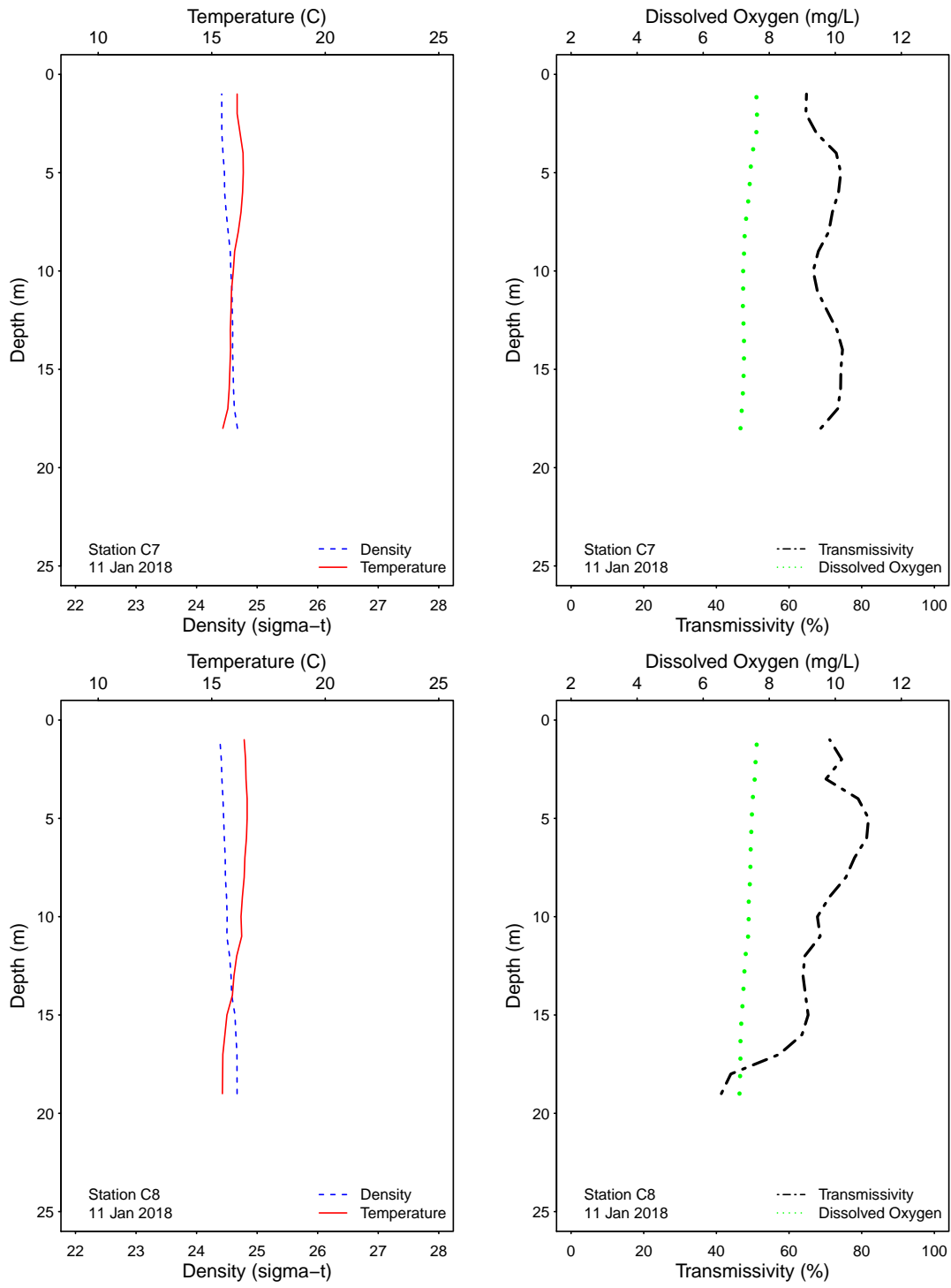


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

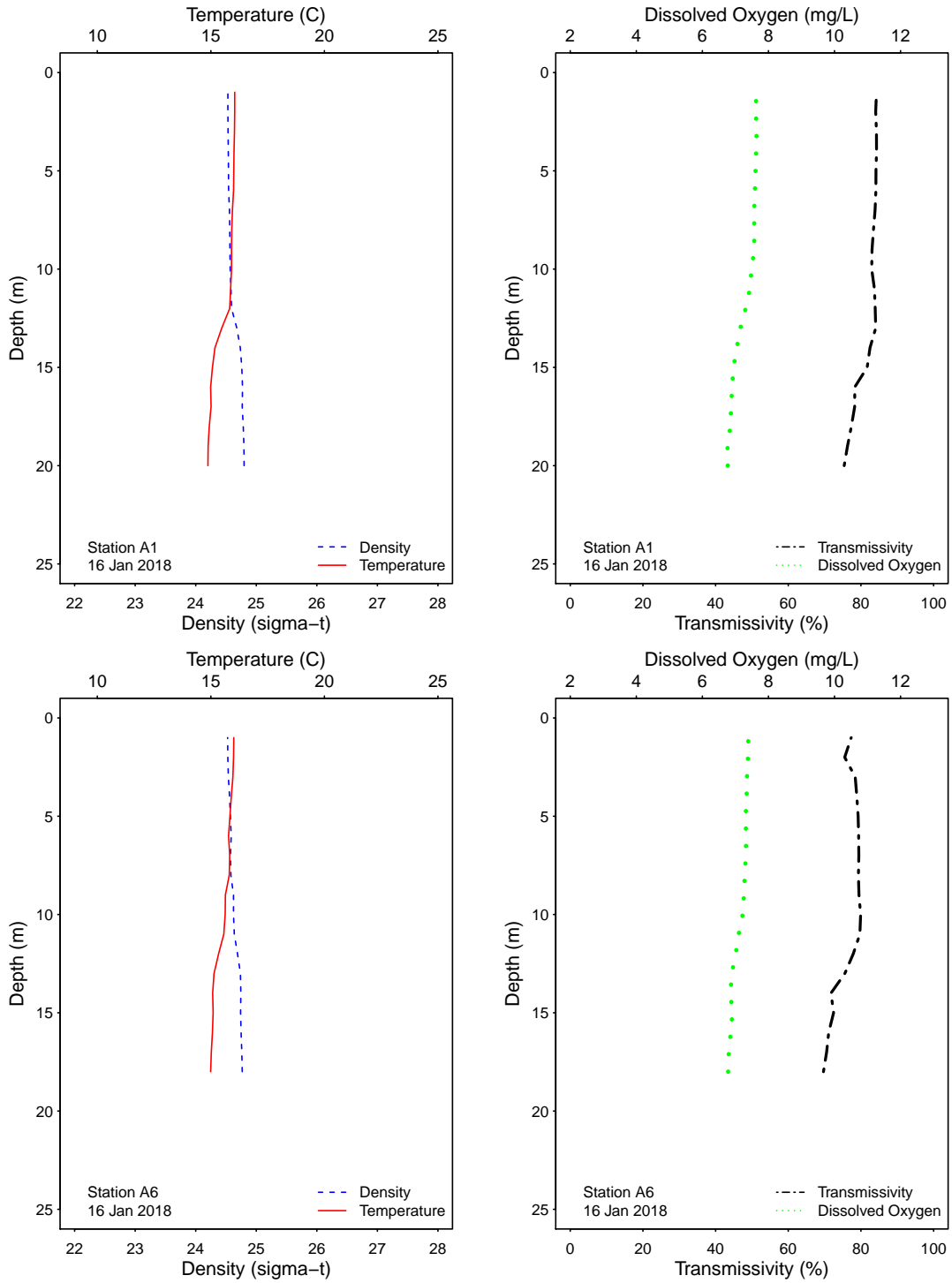


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

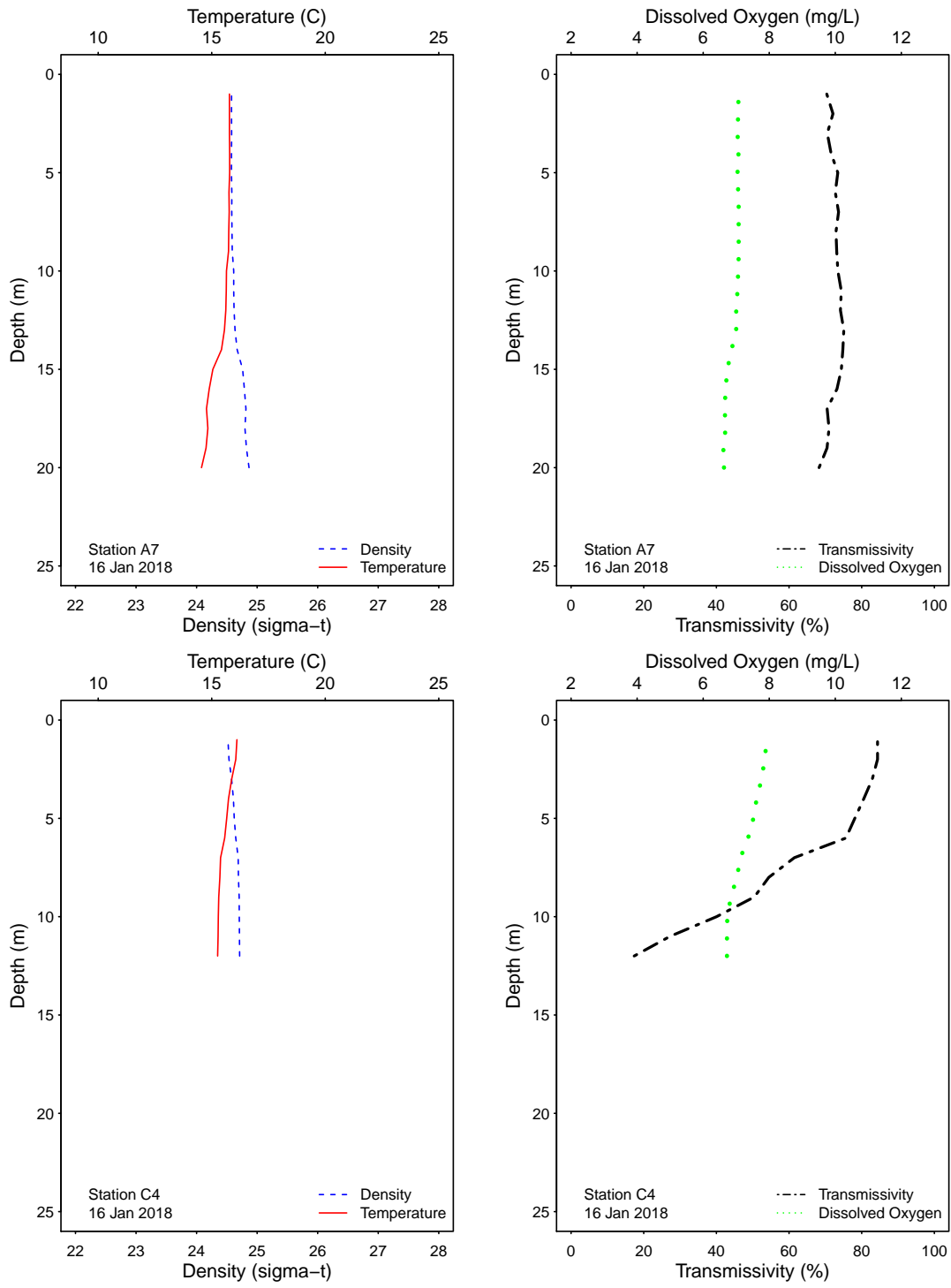


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

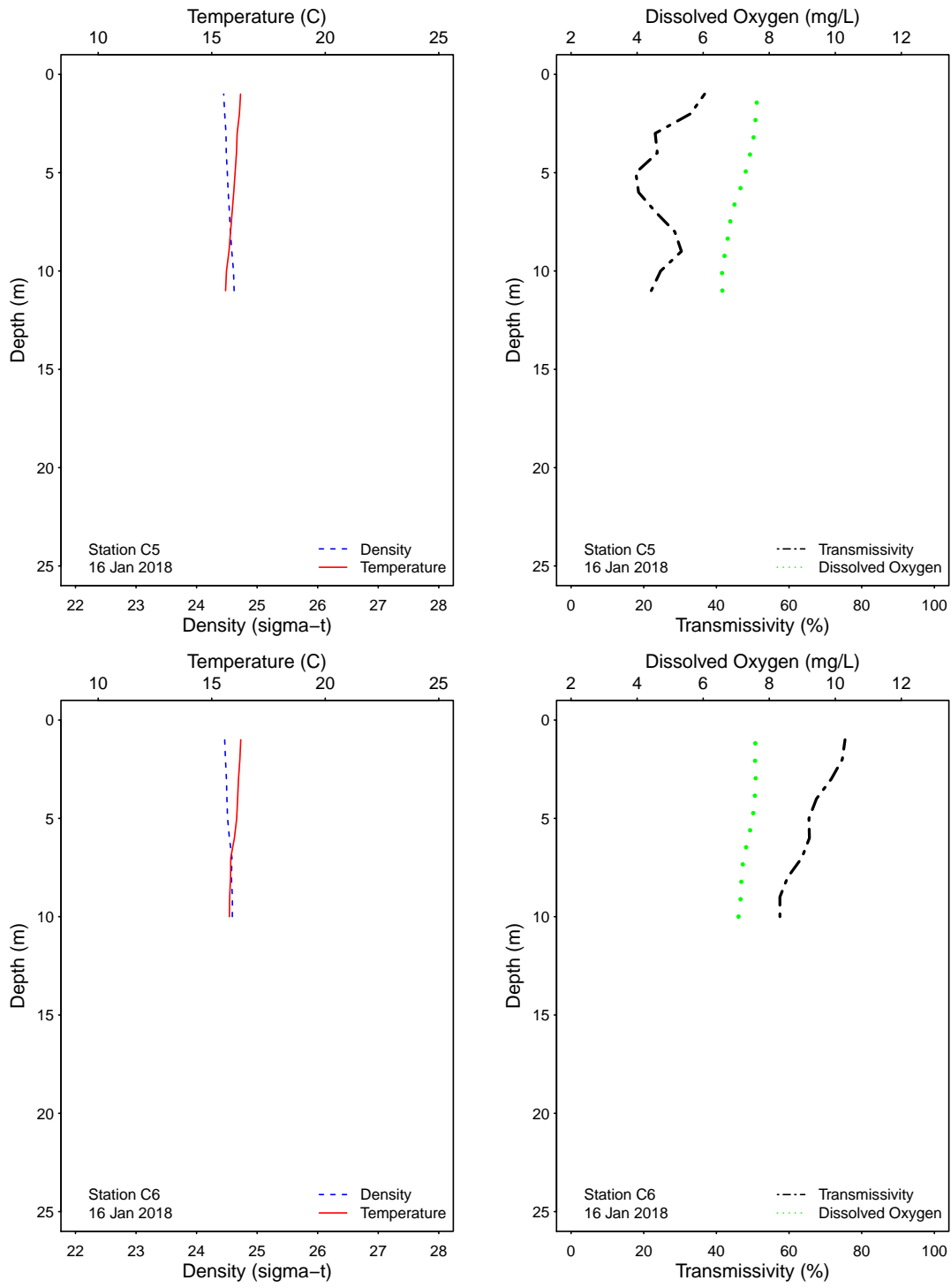


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

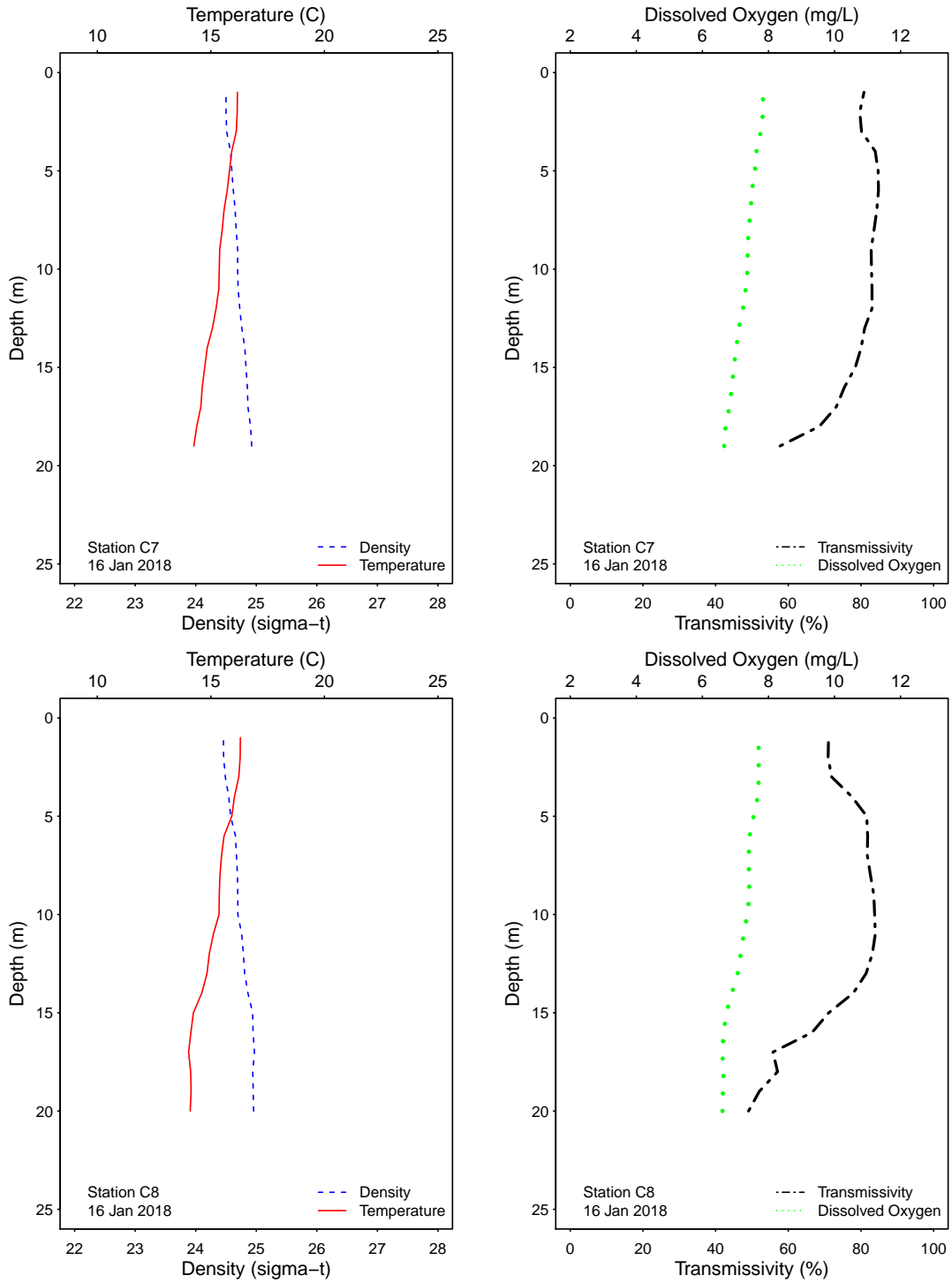


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

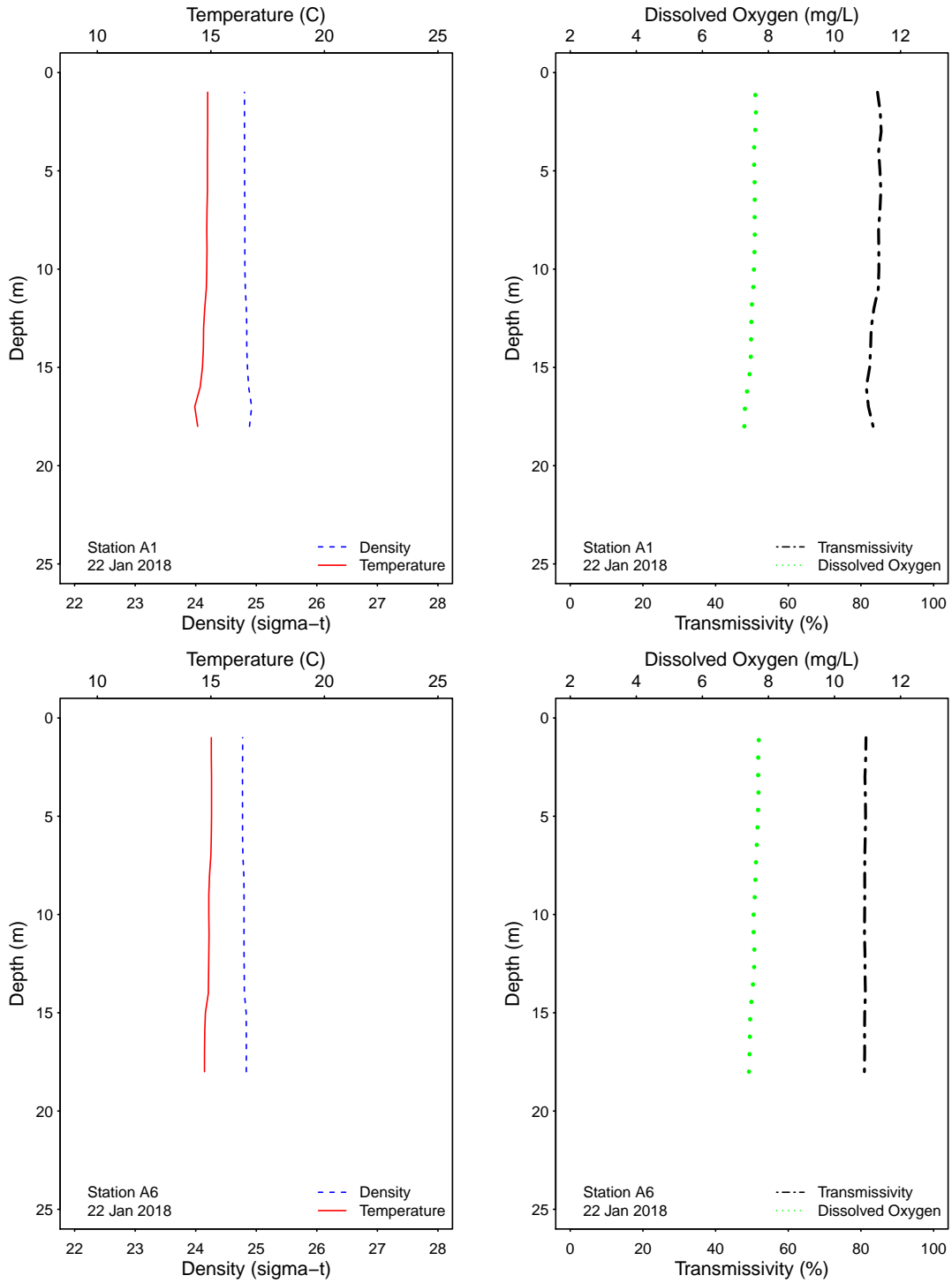


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

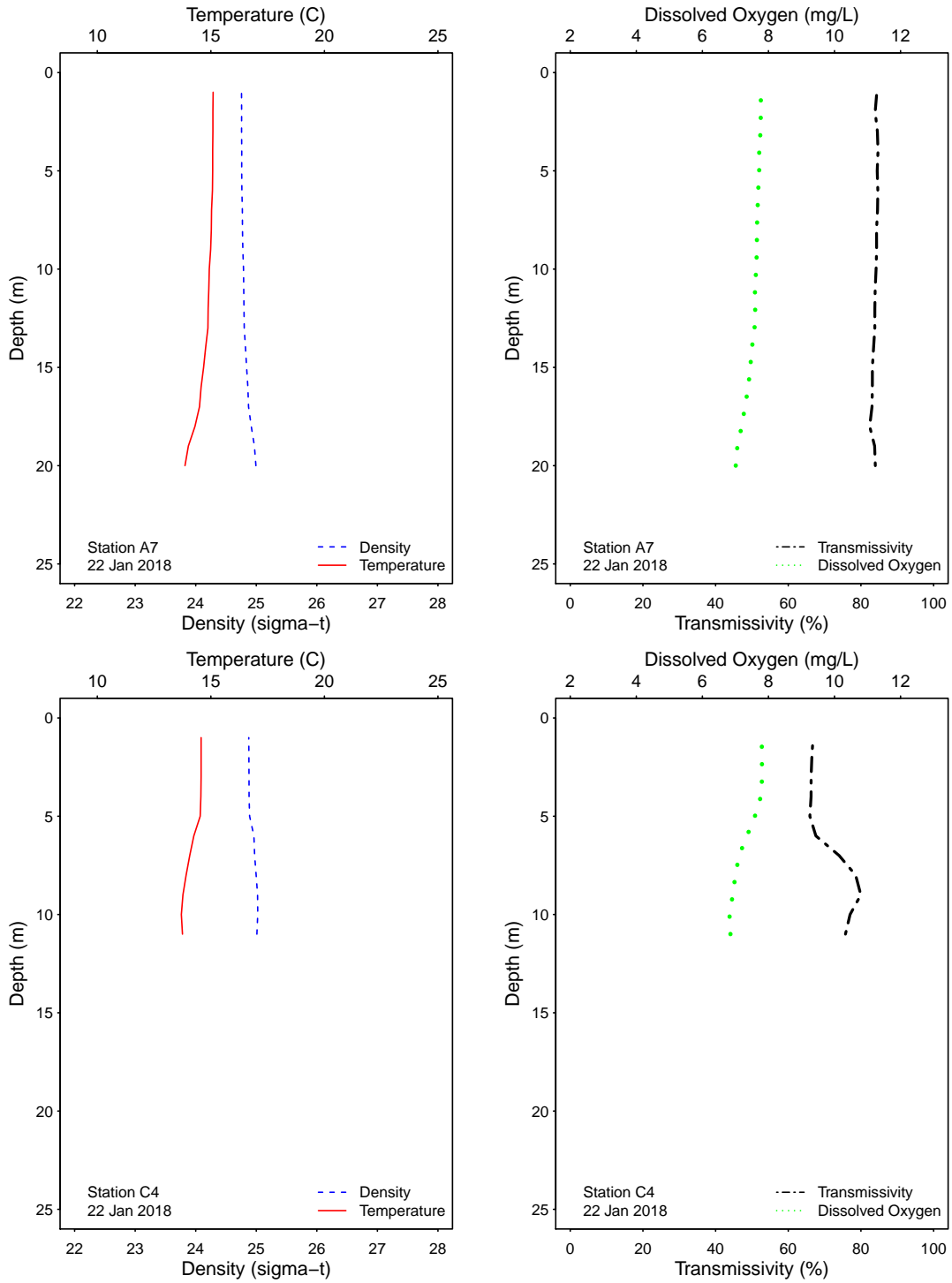


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

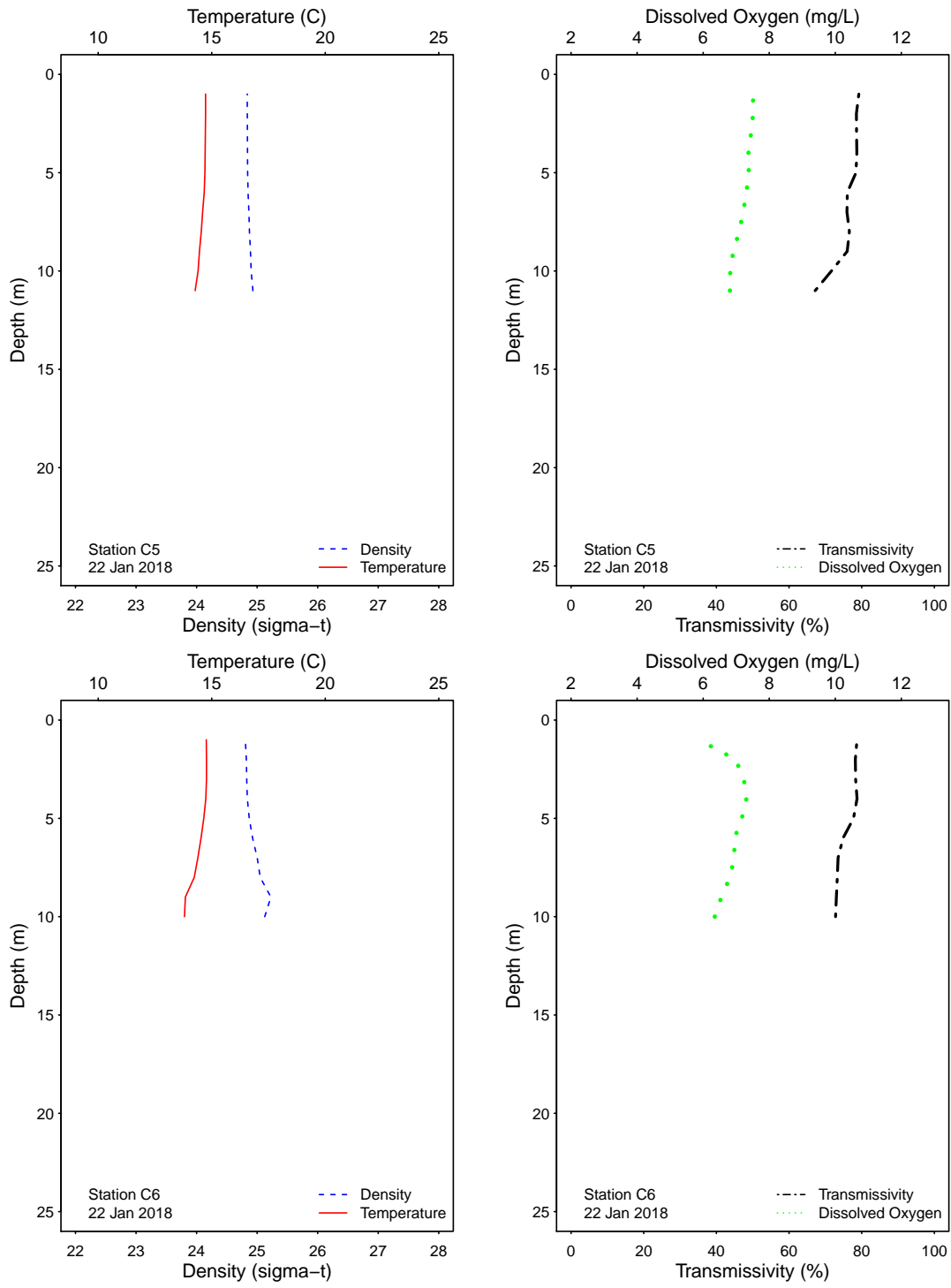


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

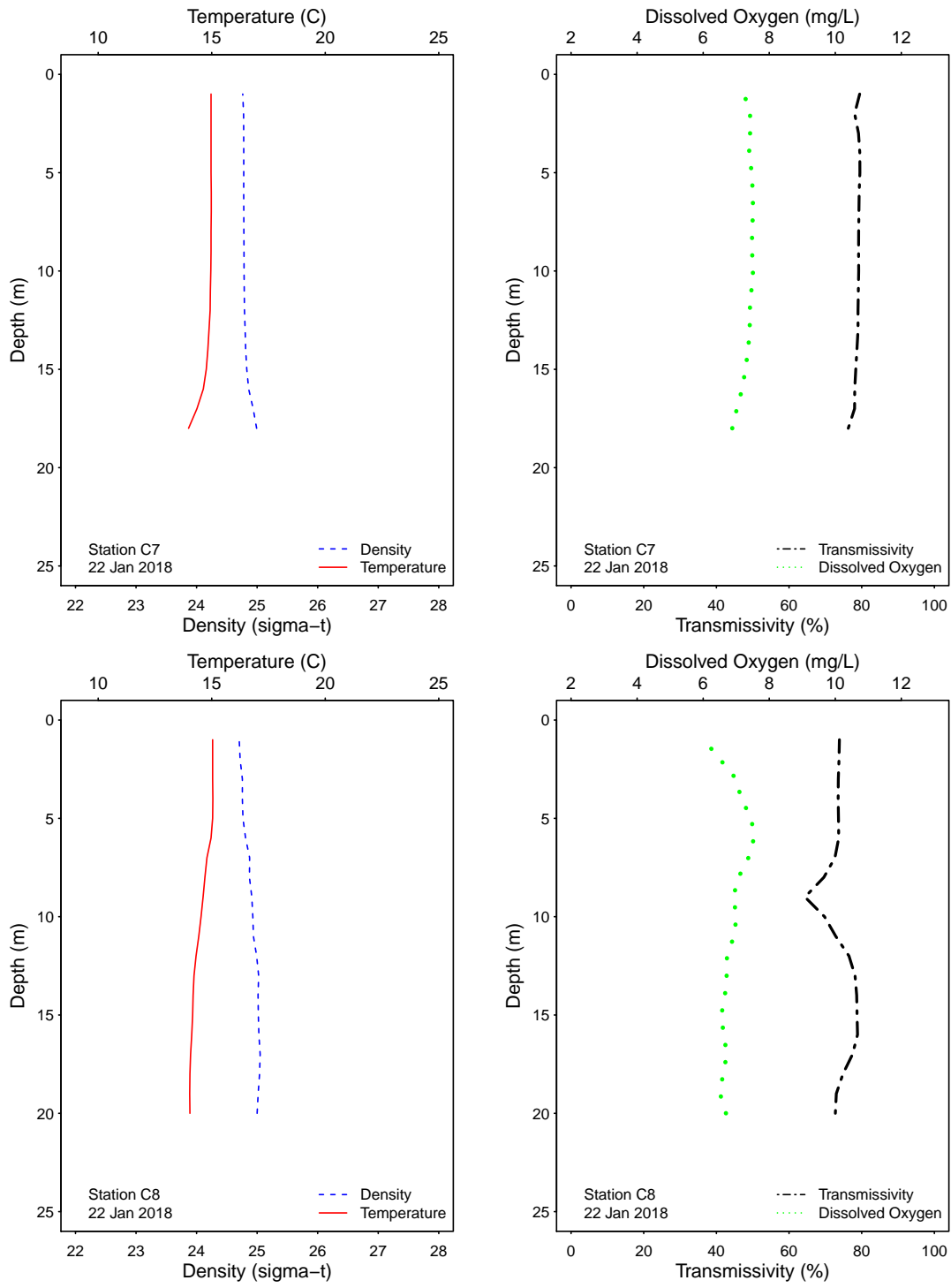


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

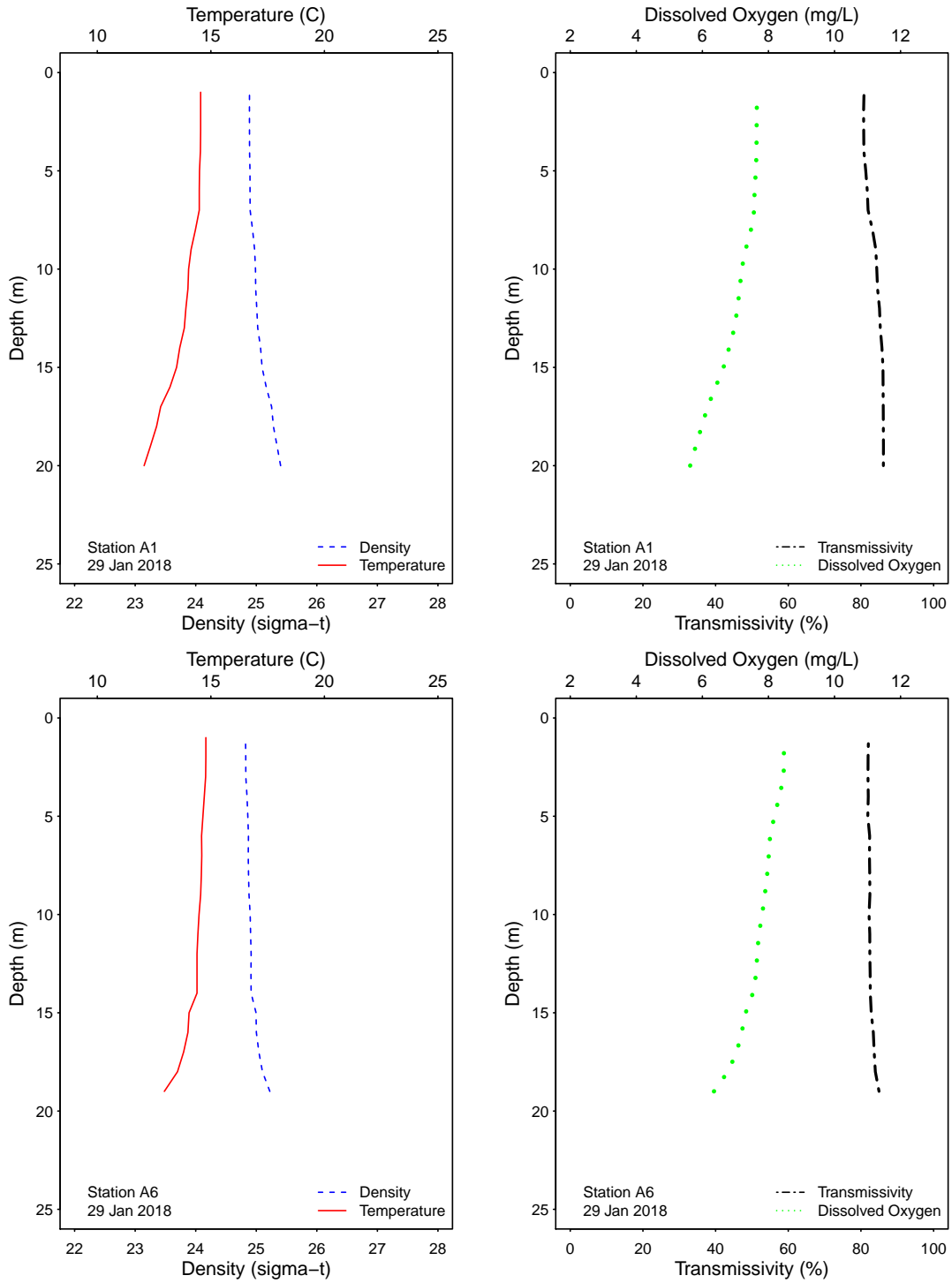


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

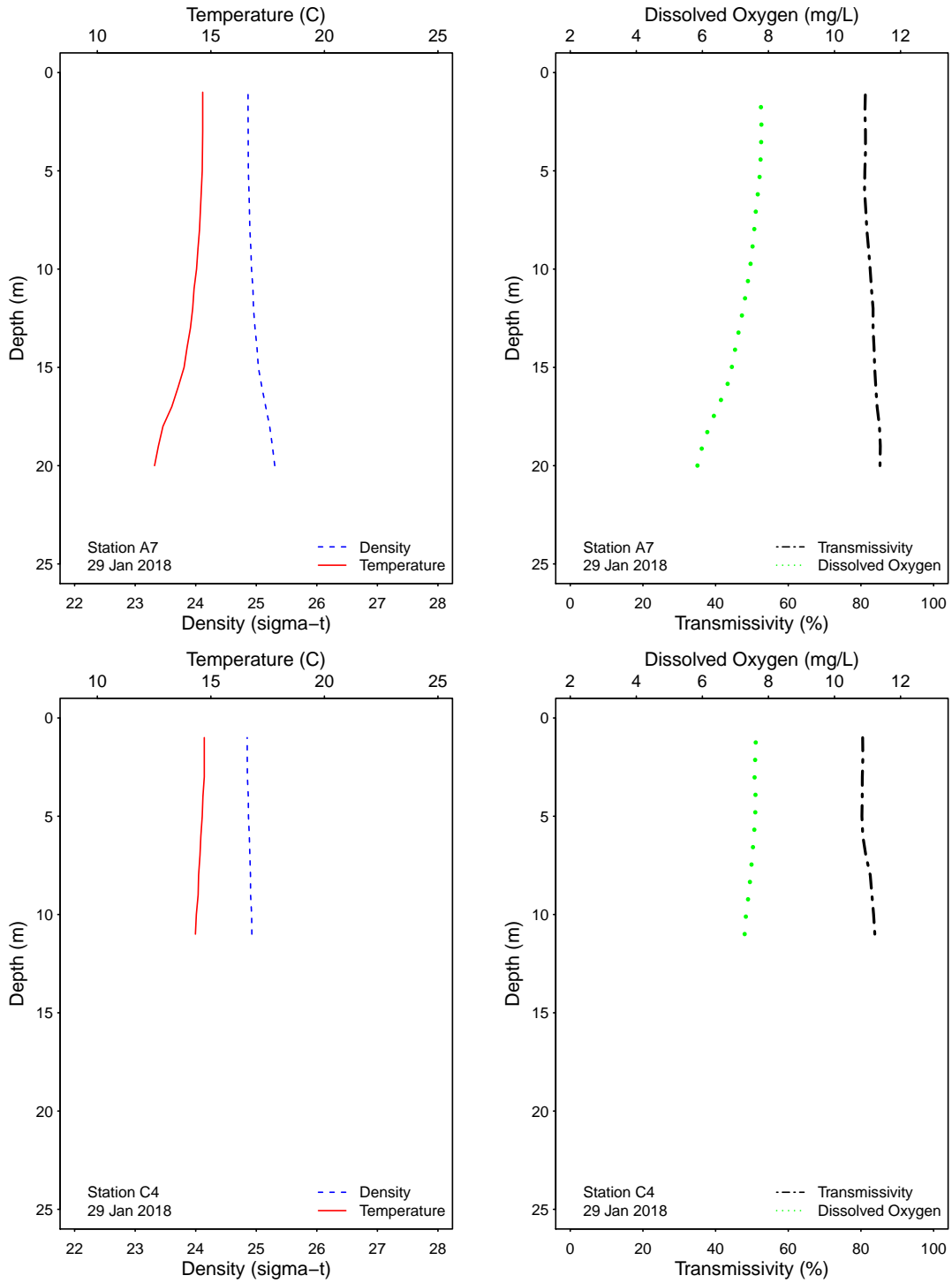


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

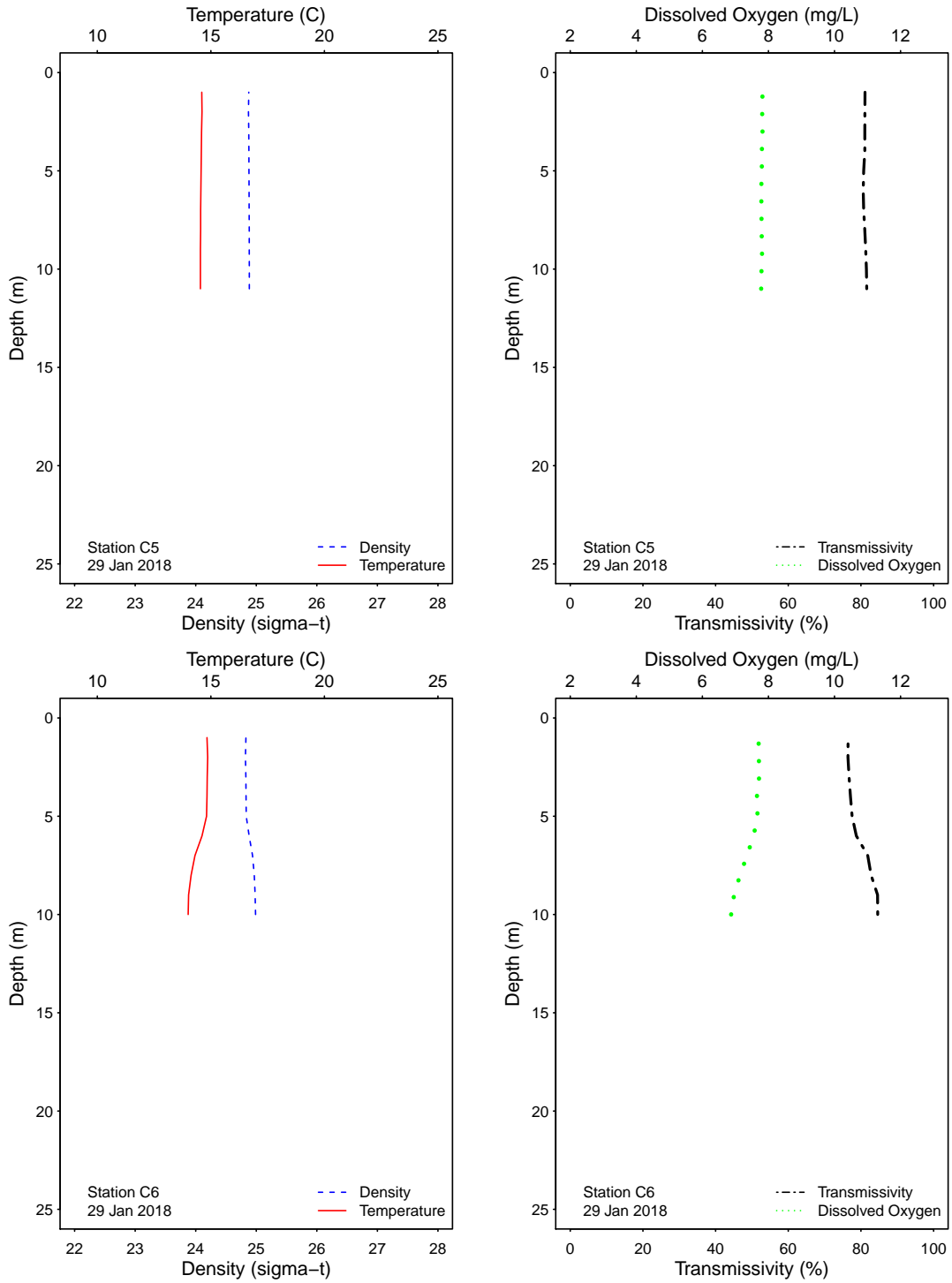


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

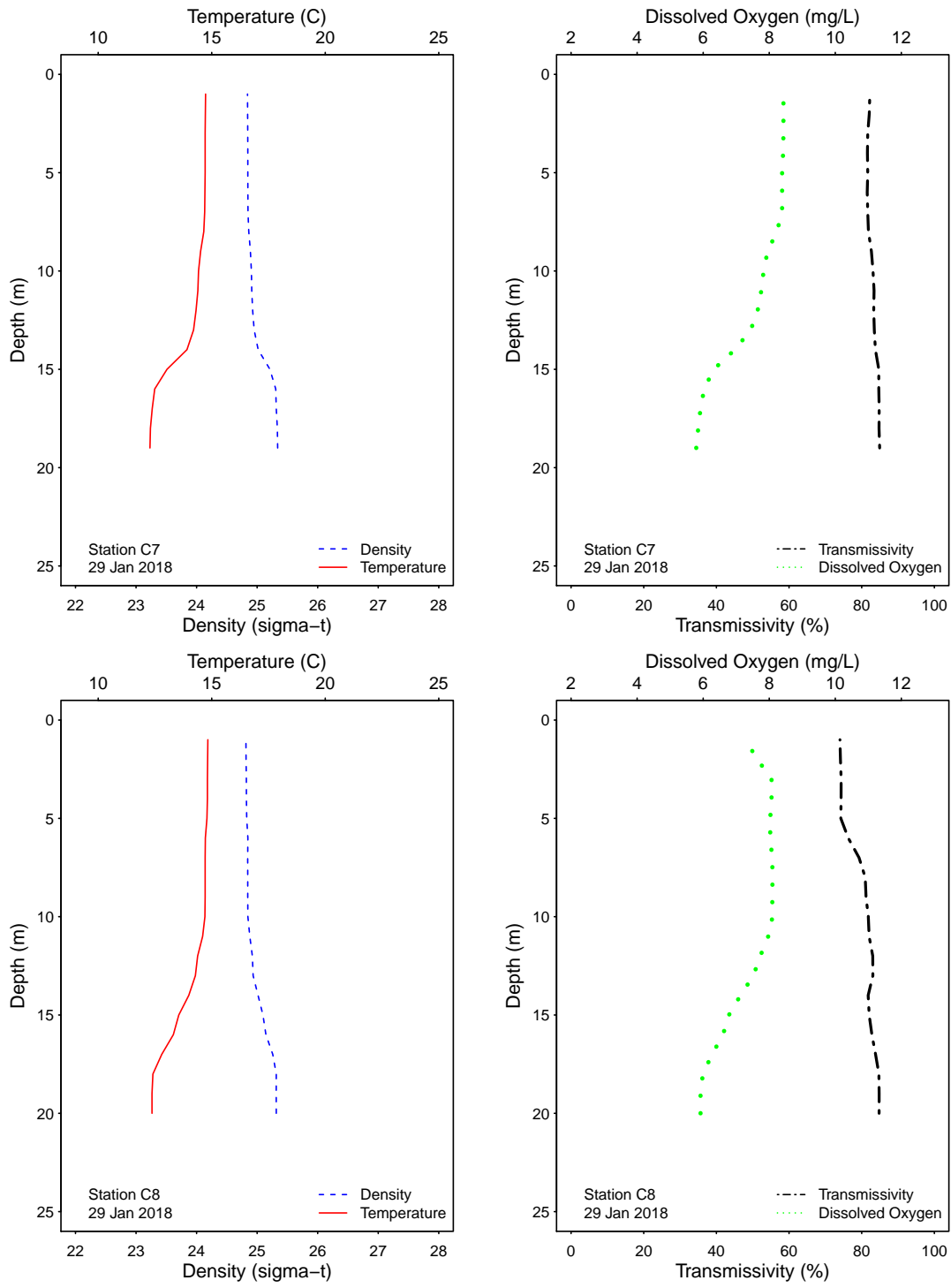


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

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

| Station | Date | Depth | Analyst | Procedure | Total | Fecal | Entero |
|---------|-------------|-------|---------|-----------------|-------|-------|--------|
| A7 | 03 Jan 2018 | 18 | LMA | LAB DUPLICATE | 14e | <2 | <2 |
| A7 | 11 Jan 2018 | 18 | AE | LAB DUPLICATE | 56 | <2 | <2 |
| A7 | 16 Jan 2018 | 18 | AR | LAB DUPLICATE | <2 | 2e | 2e |
| A7 | 22 Jan 2018 | 18 | AE | LAB DUPLICATE | 8e | 2e | <2 |
| A7 | 29 Jan 2018 | 18 | LMA | LAB DUPLICATE | 14e | <2 | <2 |
| C7 | 03 Jan 2018 | 18 | JT | LAB DUPLICATE | 4e | 2e | <2 |
| C7 | 11 Jan 2018 | 18 | ZV | LAB DUPLICATE | 100e | 8e | 2e |
| C7 | 16 Jan 2018 | 18 | AR | LAB DUPLICATE | <20 | <2 | 2e |
| C7 | 22 Jan 2018 | 18 | AE | LAB DUPLICATE | 12e | <2 | <2 |
| C7 | 29 Jan 2018 | 18 | AE | LAB DUPLICATE | 34e | <2 | <2 |
| C8 | 03 Jan 2018 | 12 | JT | LAB DUPLICATE | 2e | <2 | 2e |
| C8 | 11 Jan 2018 | 12 | ZV | LAB DUPLICATE | 60e | 6e | 6e |
| C8 | 16 Jan 2018 | 12 | AR | LAB DUPLICATE | 4e | <2 | ns |
| C8 | 22 Jan 2018 | 12 | AE | LAB DUPLICATE | 8e | <2 | <2 |
| C8 | 29 Jan 2018 | 12 | LMA | LAB DUPLICATE | <2 | <2 | ns |
| D12 | 03 Jan 2018 | | JT | FIELD DUPLICATE | 20e | 6e | 2e |
| D12 | 03 Jan 2018 | | JT | LAB DUPLICATE | 8e | 2e | <2 |
| D12 | 10 Jan 2018 | | AR | FIELD DUPLICATE | 600e | 22e | 54 |
| D12 | 10 Jan 2018 | | AR | LAB DUPLICATE | 1800e | 80e | ns |
| D12 | 17 Jan 2018 | | AE | FIELD DUPLICATE | <20 | 4e | 16e |
| D12 | 17 Jan 2018 | | AE | LAB DUPLICATE | 20e | 10e | 12e |
| D12 | 24 Jan 2018 | | LMA | FIELD DUPLICATE | 4e | <2 | <2 |
| D12 | 24 Jan 2018 | | LMA | LAB DUPLICATE | 4e | 2e | <2 |
| D12 | 31 Jan 2018 | | ZV | FIELD DUPLICATE | 2e | 4e | 32e |
| D12 | 31 Jan 2018 | | ZV | LAB DUPLICATE | 6e | 2e | 24e |

ns = not sampled

ND = no data

