

MONTHLY RECEIVING WATERS MONITORING REPORT FOR THE SOUTH BAY OCEAN OUTFALL

SOUTH BAY WATER RECLAMATION PLANT

NPDES PERMIT No. CA 0109045
SDRWQCB Order No. R9-2013-0006

AUGUST 2017

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



September 30, 2017

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

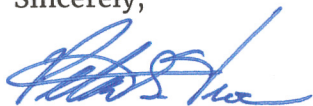
Dear Mr. Gibson:

Enclosed is the August 2017 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006, NPDES Permit No. CA0109045.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the South Bay outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan. These data are also presented in the monthly report submitted by the International Boundary and Water Commission, U.S. Section for discharge from the South Bay International Wastewater Treatment Plant (Order No. R9-2014-0009, NPDES Permit No. CA0108928).

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/gfw

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

INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2013-0006, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). Order No. R9-2013-0006 superseded Order No. R9-2006-0067 effective April 4, 2013. 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 SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

Water quality monitoring was conducted at 11 stations located along the shore from Playa Blanca, Mexico to Coronado, USA (see station locations map). Three sites are located south of the international border (stations S0, S2, S3), while eight sites are in the United States (stations S4–S6 and S8–S12).

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

Kelp Bed Stations

Seven kelp bed and other nearshore stations (I19, I24, I25, I26, I32, I39, I40; collectively referred to as “kelp” stations herein) were sampled five times during the month according to NPDES permit specifications. Six stations (I19, I24, I25, I26, I32, I40) are located along the 9- m depth contour, and one (I39) is located along the 18-m depth contour. Three of these stations, I25, I26, and I39, were selected based on their proximity to suitable substrates for the Imperial Beach kelp bed (see station locations map); however, this kelp bed has been historically transient and variable in terms of size and density. Thus, these three stations are only occasionally located within an area where kelp is actually found.

The seven kelp stations are sampled on a weekly basis during the month. Routine monitoring at each kelp site consists of collecting seawater samples at three discrete depths for bacteriological analyses (total coliforms, fecal coliforms, and *Enterococcus* bacteria) and generating water column profiles of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, and transmissivity. Visual observations of weather and water conditions are also recorded at all stations.

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate of eight scans per second. The data were then

internally averaged using the CTD proprietary software, Seasoftware, to create water column profiles equivalent to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

Quarterly offshore water quality sampling is typically conducted over three days during February, May, August, and November for a total of 40 stations during each month (see station locations map). These offshore stations (I1–I40) are arranged in a grid surrounding the discharge site, and are generally located along the 9, 19, 28, 38, and 55-m depth contours. The seven offshore sites designated as kelp bed stations (described above) are included as part of the monthly offshore water quality sampling, however the data from these seven stations are reported within the kelp bed station section of the report with the other four days of kelp bed water quality sampling. Monitoring at all sites included measurements of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, and chromomorphogenic dissolved organic matter (CDOM). Visual observations of weather and water conditions were also recorded at all stations. Seawater samples for the analysis of indicator bacteria, suspended solids, and oil and grease concentrations were collected at 28 of the stations.

At these offshore stations, water samples for bacteriological, suspended solids, and oil and grease analyses were typically collected using a rosette sampler with Niskin bottles. Measurements of the physical/chemical parameters listed above were taken using a Sea-Bird CTD. Additionally, CTD profile data for depths closest to those at which bacteriological samples were collected were extracted from the CTD profiles and are 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 (Ocean Plan). The seven standards are defined as follows:

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

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

^[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.

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.

Compliance with the seven Ocean Plan standards are summarized below for the stations located in USA waters. In contrast, no such compliance summaries are presented for the three shore stations located in Mexican waters south of the International Border (i.e., S0, S2, and S3) since this region is not subject to the Ocean Plan standards.

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 2017 Quality Assurance Report, which will be completed in March 2018.

SUMMARY OF RESULTS

➤ **Shoreline Water Quality Sampling**

- o Because of site access restrictions in Mexico, the South Bay shoreline sampling is carried out on the same day each week (i.e., Tuesday) in order to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the IBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
- o During August, each of the eight shore stations located north of the border was in compliance with various California Ocean Plan (Ocean Plan) water-contact standards; these standards do not apply to stations located in Mexican waters.
- o Although the Ocean Plan standards do not apply to this station, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected at station S0 on multiple days during the month.

- o Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *South Bay Ocean Outfall Annual Receiving Waters Monitoring and Assessment Report* for details (<http://www.sandiego.gov/mwwd/environment/oceanmonitor/reports/index.shtml>).
- o Nothing of sewage origin was observed at any of the shore stations.

➤ **Kelp Bed Water Quality Sampling**

- o The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled five times over six days during August (i.e. August 2, 3, 10, 19, 23, 28).
- o During August, each of the kelp bed stations was in compliance with various Ocean Plan water contact standards.
- o Water column temperatures ranged from 12.77 to 20.47°C. The difference between surface and bottom waters ranged from 2.54 to 6.85°C, indicating the water column was stratified at all of these sites during the month.
- o Chlorophyll *a* concentrations ranged from 0.51 to 6.72 µg/L at the kelp bed stations, suggesting the presence of phytoplankton blooms during the month.
- o Suspended solid values ranged from 0.2 to 8.0 mg/L in August. Elevated levels of suspended solids (i.e., values ≥ 8 mg/L) occurred in a seawater sample collected from station I25 on August 2 at 9 m.
- o Oil and grease values were ≤ 1.74 mg/L in all kelp bed seawater samples.
- o Nothing of sewage origin was observed at any of the kelp bed stations.

➤ **Offshore Water Quality Sampling**

- o Quarterly offshore water quality sampling was conducted over three days during the month (i.e., August 1, 2, 3).
- o All of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were in compliance with the relevant Ocean Plan single sample maximum standards.
- o Although the Ocean Plan standards do not apply to stations outside of State jurisdiction, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in a seawater sample collected from station I5 on August 1 at 11 m.
- o Water column temperatures ranged from 11.19 to 23.17°C at the offshore sites. The difference between surface and bottom waters ranged from 3.79 to 11.78°C, indicating that the water column was stratified at all of the offshore stations during the month.
- o Chlorophyll *a* concentrations ranged from 0.24 to 14.96 µg/L at the offshore sites, suggesting the presence of phytoplankton blooms during the month.

- o CDOM data are available upon request.
- o Suspended solid values ranged from 0.2 to 6.8 mg/L in August.
- o Oil and grease values were ≤ 2.18 mg/L in all offshore seawater samples.
- o Nothing of sewage origin was observed at any of the offshore stations.

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TABLES AND FIGURES

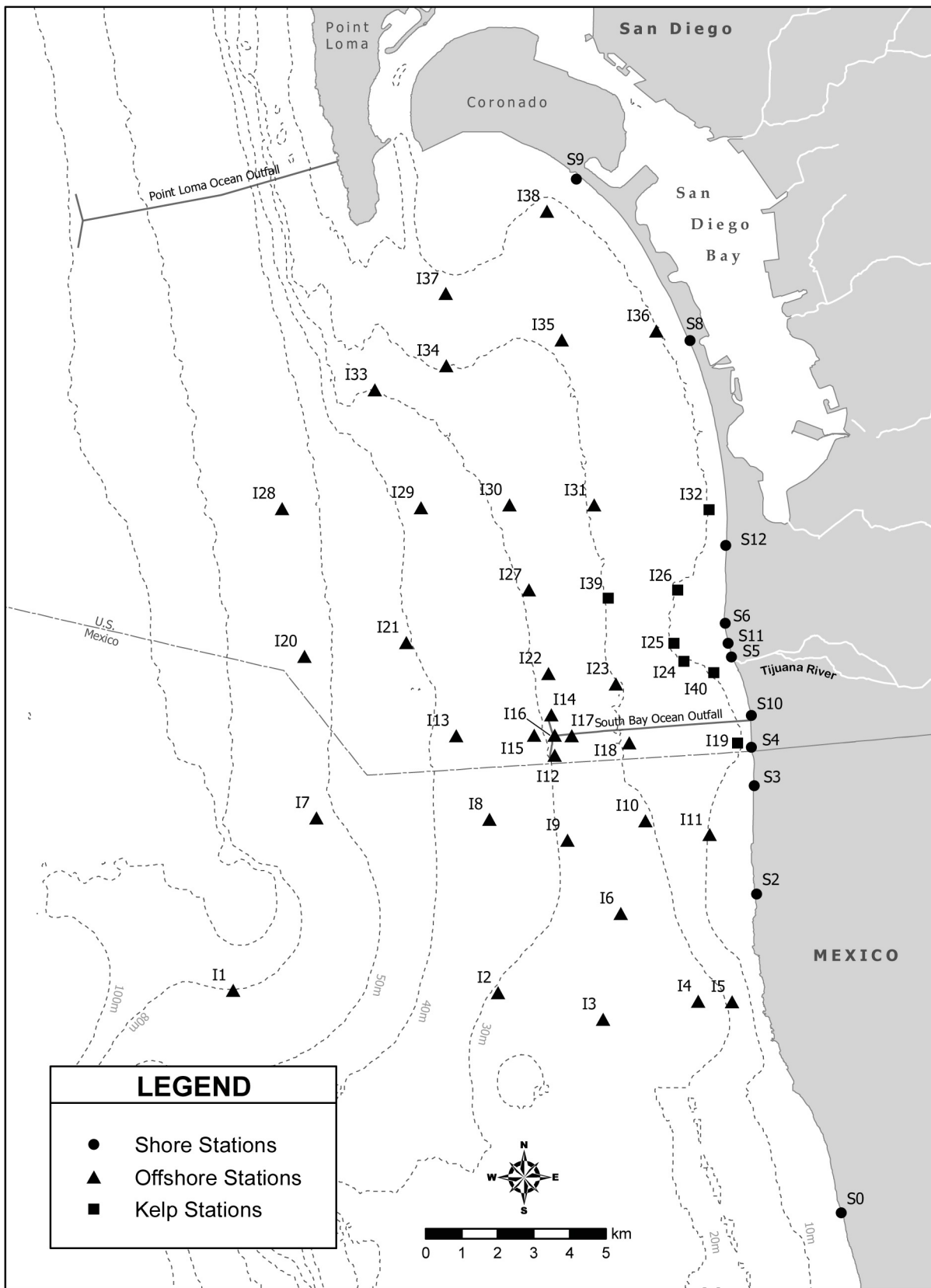


Figure 1.1 Station Map

Shore Stations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2017	32	36	32	20	126	38	23	32
02 Aug 2017	32	36	32	20	126	38	23	32
03 Aug 2017	32	36	32	20	126	38	23	32
04 Aug 2017	36*	42*	36*	20*	200*	44*	20*	36*
05 Aug 2017	36*	42*	36*	20*	200*	44*	20*	36*
06 Aug 2017	36*	42*	36*	20*	200*	44*	20*	36*
07 Aug 2017	36*	42*	36*	20*	200*	44*	20*	36*
08 Aug 2017	20	36	32	20	200	38	20	32
09 Aug 2017	20	36	32	20	200	38	20	32
10 Aug 2017	20*	42*	36*	20*	200*	34*	20*	36*
11 Aug 2017	20*	42*	36*	20*	200*	34*	20*	36*
12 Aug 2017	20*	42*	36*	20*	200*	34*	20*	36*
13 Aug 2017	20*	42*	36*	20*	200*	34*	20*	36*
14 Aug 2017	20*	42*	36*	20*	200*	34*	20*	36*
15 Aug 2017	32	58	50	20	200	30	20	32
16 Aug 2017	32	58	50	20	200	30	20	32
17 Aug 2017	36*	63*	63*	20*	200*	34*	20*	36*
18 Aug 2017	36*	63*	63*	20*	200*	34*	20*	36*
19 Aug 2017	36*	63*	63*	20*	200*	34*	20*	36*
20 Aug 2017	36*	63*	63*	20*	200*	34*	20*	36*
21 Aug 2017	36*	63*	63*	20*	200*	34*	20*	36*
22 Aug 2017	32	50	80	20	200	48	20	50
23 Aug 2017	32	50	80	20	200	48	20	50
24 Aug 2017	20*	63*	112*	20*	200*	36*	20*	63*
25 Aug 2017	20*	63*	112*	20*	200*	36*	20*	63*
26 Aug 2017	20*	63*	112*	20*	200*	36*	20*	63*
27 Aug 2017	20*	63*	112*	20*	200*	36*	20*	63*
28 Aug 2017	20*	63*	112*	20*	200*	36*	20*	63*
29 Aug 2017	20	50	80	20	126	32	20	50
30 Aug 2017	20	50	80	20	126	32	20	50
31 Aug 2017	20*	36*	63*	20*	112*	36*	20*	36*

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2017	3	6	2	2	3	3	2	2
02 Aug 2017	3	6	2	2	3	3	2	2
03 Aug 2017	3	6	2	2	3	3	2	2
04 Aug 2017	4*	4*	2*	2*	4*	3*	3*	2*
05 Aug 2017	4*	4*	2*	2*	4*	3*	3*	2*
06 Aug 2017	4*	4*	2*	2*	4*	3*	3*	2*
07 Aug 2017	4*	4*	2*	2*	4*	3*	3*	2*
08 Aug 2017	3	4	2	2	3	3	4	2
09 Aug 2017	3	4	2	2	3	3	4	2
10 Aug 2017	4*	4*	2*	2*	4*	3*	5*	2*
11 Aug 2017	4*	4*	2*	2*	4*	3*	5*	2*
12 Aug 2017	4*	4*	2*	2*	4*	3*	5*	2*
13 Aug 2017	4*	4*	2*	2*	4*	3*	5*	2*
14 Aug 2017	4*	4*	2*	2*	4*	3*	5*	2*
15 Aug 2017	4	4	3	2	3	3	4	3
16 Aug 2017	4	4	3	2	3	3	4	3
17 Aug 2017	4*	4*	3*	2*	2*	3*	5*	3*
18 Aug 2017	4*	4*	3*	2*	2*	3*	5*	3*
19 Aug 2017	4*	4*	3*	2*	2*	3*	5*	3*
20 Aug 2017	4*	4*	3*	2*	2*	3*	5*	3*
21 Aug 2017	4*	4*	3*	2*	2*	3*	5*	3*
22 Aug 2017	4	3	3	2	3	3	5	3
23 Aug 2017	4	3	3	2	3	3	5	3
24 Aug 2017	3*	4*	3*	2*	4*	2*	4*	2*
25 Aug 2017	3*	4*	3*	2*	4*	2*	4*	2*
26 Aug 2017	3*	4*	3*	2*	4*	2*	4*	2*
27 Aug 2017	3*	4*	3*	2*	4*	2*	4*	2*
28 Aug 2017	3*	4*	3*	2*	4*	2*	4*	2*
29 Aug 2017	3	3	3	2	4	2	4	2
30 Aug 2017	3	3	3	2	4	2	4	2
31 Aug 2017	2*	2*	2*	2*	5*	2*	4*	2*

* Geometric mean calculated using n<5

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2017	6	4	2	2	9	5	3	4
02 Aug 2017	6	4	2	2	9	5	3	4
03 Aug 2017	6	4	2	2	9	5	3	4
04 Aug 2017	7*	4*	2*	2*	5*	6*	3*	4*
05 Aug 2017	7*	4*	2*	2*	5*	6*	3*	4*
06 Aug 2017	7*	4*	2*	2*	5*	6*	3*	4*
07 Aug 2017	7*	4*	2*	2*	5*	6*	3*	4*
08 Aug 2017	7	3	2	2	5	6	3	3
09 Aug 2017	7	3	2	2	5	6	3	3
10 Aug 2017	7*	4*	2*	2*	6*	6*	3*	4*
11 Aug 2017	7*	4*	2*	2*	6*	6*	3*	4*
12 Aug 2017	7*	4*	2*	2*	6*	6*	3*	4*
13 Aug 2017	7*	4*	2*	2*	6*	6*	3*	4*
14 Aug 2017	7*	4*	2*	2*	6*	6*	3*	4*
15 Aug 2017	7	3	2	2	5	5	3	5
16 Aug 2017	7	3	2	2	5	5	3	5
17 Aug 2017	10*	4*	2*	2*	5*	6*	3*	6*
18 Aug 2017	10*	4*	2*	2*	5*	6*	3*	6*
19 Aug 2017	10*	4*	2*	2*	5*	6*	3*	6*
20 Aug 2017	10*	4*	2*	2*	5*	6*	3*	6*
21 Aug 2017	10*	4*	2*	2*	5*	6*	3*	6*
22 Aug 2017	10	3	3	2	4	5	3	5
23 Aug 2017	10	3	3	2	4	5	3	5
24 Aug 2017	9*	2*	3*	2*	4*	3*	3*	4*
25 Aug 2017	9*	2*	3*	2*	4*	3*	3*	4*
26 Aug 2017	9*	2*	3*	2*	4*	3*	3*	4*
27 Aug 2017	9*	2*	3*	2*	4*	3*	3*	4*
28 Aug 2017	9*	2*	3*	2*	4*	3*	3*	4*
29 Aug 2017	7	2	2	2	3	2	3	3
30 Aug 2017	7	2	2	2	3	2	3	3
31 Aug 2017	7*	2*	3*	2*	2*	3*	3*	3*

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
08 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
15 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
22 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
29 Aug 2017	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 SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
08 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
15 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
22 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
29 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.6

Summary of compliance at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
08 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
15 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
22 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
29 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of compliance at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
08 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
15 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
22 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC
29 Aug 2017	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.8

Summary of water quality parameters at the SBOO 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
S0	01 Aug 2017	1040	1200e	40	180e	0.03
S0	08 Aug 2017	1205	400	30e	140e	0.07
S0	15 Aug 2017	1035	7000	280e	2800e	0.04
S0	22 Aug 2017	805	460e	18e	32e	0.04
S0	29 Aug 2017	1120	60e	16e	42	0.27
S2	01 Aug 2017	1150	<20	<2	<2	0.10
S2	08 Aug 2017	1110	<20	2e	<2	0.10
S2	15 Aug 2017	1125	<20	<2	24e	0.10
S2	22 Aug 2017	1225	<20	4e	<2	0.20
S2	29 Aug 2017	1030	<200	2e	8e	0.01
S3	01 Aug 2017	1250	20e	<2	<2	0.10
S3	08 Aug 2017	1015	120e	2e	2e	0.02
S3	15 Aug 2017	1150	<20	<2	<2	0.10
S3	22 Aug 2017	1210	<2	<2	<2	1.00
S3	29 Aug 2017	943	2e	<2	2e	1.00
S4	01 Aug 2017	1044	20e	6e	10e	0.30
S4	08 Aug 2017	855	2e	<2	6e	1.00
S4	15 Aug 2017	831	<200	4e	8e	0.02
S4	22 Aug 2017	818	<20	2e	12e	0.10
S4	29 Aug 2017	1124	<20	<2	4e	0.10
S5	01 Aug 2017	922	200e	24e	4e	0.12
S5	08 Aug 2017	1025	20e	<2	<2	0.10
S5	15 Aug 2017	942	<200	<2	2e	0.01
S5	22 Aug 2017	935	<20	<2	2e	0.10
S5	29 Aug 2017	943	<20	<2	<2	0.10
S6	01 Aug 2017	911	<200	4e	<2	0.02
S6	08 Aug 2017	1017	<20	<2	<2	0.10
S6	15 Aug 2017	951	<200	4e	<2	0.02
S6	22 Aug 2017	926	<200	<2	6e	0.01
S6	29 Aug 2017	932	<20	<2	2e	0.10
S8	01 Aug 2017	818	<20	2e	<2	0.10
S8	08 Aug 2017	1140	<20	<2	<2	0.10
S8	15 Aug 2017	1104	<20	<2	2e	0.10
S8	22 Aug 2017	1055	<20	4e	<2	0.20
S8	29 Aug 2017	834	<20	<2	<2	0.10
S9	01 Aug 2017	745	<200	2e	10e	0.01
S9	08 Aug 2017	1220	<200	<2	4e	0.01
S9	15 Aug 2017	1140	<200	<2	<2	0.01
S9	22 Aug 2017	1132	200e	20e	2e	0.10
S9	29 Aug 2017	804	20e	6e	2e	0.30
S10	01 Aug 2017	1052	<20	2e	<2	0.10

Station	Date	Time	Total	Fecal	Enteroc	F:T
S10	08 Aug 2017	903	<20	<2	6e	0.10
S10	15 Aug 2017	827	<20	2e	2e	0.10
S10	22 Aug 2017	813	<200	<2	<2	0.01
S10	29 Aug 2017	1119	<20	2e	<2	0.10
S11	01 Aug 2017	915	<20	2e	2e	0.10
S11	08 Aug 2017	1020	<20	<20	<2	1.00
S11	15 Aug 2017	947	<20	<2	<2	0.10
S11	22 Aug 2017	930	<20	4e	8e	0.20
S11	29 Aug 2017	936	<20	<2	<2	0.10
S12	01 Aug 2017	853	<200	2e	6e	0.01
S12	08 Aug 2017	1002	<20	<2	2e	0.10
S12	15 Aug 2017	1008	20e	4e	10e	0.20
S12	22 Aug 2017	914	<200	<2	<2	0.01
S12	29 Aug 2017	909	20e	<2	<2	0.10

ns = not sampled

ND = no data

Table 2.9

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

Station	Date	Parameter	Value
S0	01 Aug 2017	Arrive Time	1040
S0	01 Aug 2017	Weather	Sunny
S0	01 Aug 2017	Wind Speed (kts)	2.7
S0	01 Aug 2017	Wind Dir	NW
S0	01 Aug 2017	Animal Life	19 Birds; 1 Dog
S0	01 Aug 2017	Floatables	None
S0	01 Aug 2017	Water Color	Green
S0	01 Aug 2017	Current Direction	N
S0	01 Aug 2017	Water Temp (C)	17
S0	01 Aug 2017	Wave Height Low (ft)	3
S0	01 Aug 2017	High Tide (ft)	3.1
S0	01 Aug 2017	High Tide Time	635
S0	01 Aug 2017	Low Tide (ft)	2.3
S0	01 Aug 2017	Low Tide Time	1119
S0	01 Aug 2017	Comments	Kelp; Seagrass; 4 Persons; 1 Boat; Water clear; Flow from storm drain 1 L/sec
S0	08 Aug 2017	Arrive Time	1205
S0	08 Aug 2017	Weather	Sunny
S0	08 Aug 2017	Wind Speed (kts)	8.8
S0	08 Aug 2017	Wind Dir	NE
S0	08 Aug 2017	Animal Life	None
S0	08 Aug 2017	Floatables	None
S0	08 Aug 2017	Water Color	Green
S0	08 Aug 2017	Current Direction	NE
S0	08 Aug 2017	Water Temp (C)	17
S0	08 Aug 2017	Wave Height Low (ft)	2
S0	08 Aug 2017	High Tide (ft)	4.4
S0	08 Aug 2017	High Tide Time	1041
S0	08 Aug 2017	Low Tide (ft)	1.6
S0	08 Aug 2017	Low Tide Time	1606
S0	08 Aug 2017	Comments	Kelp; 4 Persons; 5 Surfers; Water clear; Flow from storm drain 1L/sec
S0	15 Aug 2017	Arrive Time	1035
S0	15 Aug 2017	Weather	Cloudy
S0	15 Aug 2017	Wind Speed (kts)	1.9
S0	15 Aug 2017	Wind Dir	SE
S0	15 Aug 2017	Animal Life	5 Shorebirds
S0	15 Aug 2017	Floatables	None
S0	15 Aug 2017	Water Color	Green
S0	15 Aug 2017	Current Direction	SE
S0	15 Aug 2017	Water Temp (C)	19
S0	15 Aug 2017	Wave Height Low (ft)	4
S0	15 Aug 2017	High Tide (ft)	5.2
S0	15 Aug 2017	High Tide Time	1608
S0	15 Aug 2017	Low Tide (ft)	2
S0	15 Aug 2017	Low Tide Time	925
S0	15 Aug 2017	Comments	Kelp; Water clear; Flow from storm drain 1L/sec
S0	22 Aug 2017	Arrive Time	805

Station	Date	Parameter	Value
S0	22 Aug 2017	Weather	Sunny
S0	22 Aug 2017	Wind Speed (kts)	7.1
S0	22 Aug 2017	Wind Dir	NE
S0	22 Aug 2017	Animal Life	>10 Shorebirds; 1 Dog
S0	22 Aug 2017	Floatables	None
S0	22 Aug 2017	Water Color	Green
S0	22 Aug 2017	Current Direction	NE
S0	22 Aug 2017	Water Temp (C)	16
S0	22 Aug 2017	Wave Height Low (ft)	3
S0	22 Aug 2017	High Tide (ft)	5
S0	22 Aug 2017	High Tide Time	1030
S0	22 Aug 2017	Low Tide (ft)	-0.7
S0	22 Aug 2017	Low Tide Time	420
S0	22 Aug 2017	Comments	Kelp; Water clear; No flow from storm drain
S0	29 Aug 2017	Arrive Time	1120
S0	29 Aug 2017	Weather	Sunny
S0	29 Aug 2017	Wind Speed (kts)	2
S0	29 Aug 2017	Wind Dir	NW
S0	29 Aug 2017	Animal Life	3 Dogs; >20 Seagulls
S0	29 Aug 2017	Floatables	None
S0	29 Aug 2017	Water Color	Green
S0	29 Aug 2017	Current Direction	N
S0	29 Aug 2017	Water Temp (C)	17
S0	29 Aug 2017	Wave Height Low (ft)	2
S0	29 Aug 2017	High Tide (ft)	4.4
S0	29 Aug 2017	High Tide Time	1559
S0	29 Aug 2017	Low Tide (ft)	2.6
S0	29 Aug 2017	Low Tide Time	916
S0	29 Aug 2017	Comments	Kelp; Water turbid; Flow from storm drain 2 L/sec
S2	01 Aug 2017	Arrive Time	1150
S2	01 Aug 2017	Weather	Sunny
S2	01 Aug 2017	Wind Speed (kts)	2.6
S2	01 Aug 2017	Wind Dir	NW
S2	01 Aug 2017	Animal Life	9 Birds; 3 Dogs
S2	01 Aug 2017	Floatables	None
S2	01 Aug 2017	Water Color	Green
S2	01 Aug 2017	Current Direction	N
S2	01 Aug 2017	Water Temp (C)	17
S2	01 Aug 2017	Wave Height Low (ft)	3
S2	01 Aug 2017	High Tide (ft)	3.1
S2	01 Aug 2017	High Tide Time	635
S2	01 Aug 2017	Low Tide (ft)	2.3
S2	01 Aug 2017	Low Tide Time	1119
S2	01 Aug 2017	Comments	Kelp; Seagrass; 5 Persons; Water clear; No flow from storm drain
S2	08 Aug 2017	Arrive Time	1110
S2	08 Aug 2017	Weather	Sunny
S2	08 Aug 2017	Wind Speed (kts)	4.6
S2	08 Aug 2017	Wind Dir	NE
S2	08 Aug 2017	Animal Life	15 Shorebirds; 5 Dogs
S2	08 Aug 2017	Floatables	None
S2	08 Aug 2017	Water Color	Green
S2	08 Aug 2017	Current Direction	NE

Station	Date	Parameter	Value
S2	08 Aug 2017	Water Temp (C)	16.5
S2	08 Aug 2017	Wave Height Low (ft)	2
S2	08 Aug 2017	High Tide (ft)	4.4
S2	08 Aug 2017	High Tide Time	1041
S2	08 Aug 2017	Low Tide (ft)	1.6
S2	08 Aug 2017	Low Tide Time	1606
S2	08 Aug 2017	Comments	Kelp; 3 Surfers; Water clear; No flow from storm drain
S2	15 Aug 2017	Arrive Time	1125
S2	15 Aug 2017	Weather	Cloudy
S2	15 Aug 2017	Wind Speed (kts)	2.6
S2	15 Aug 2017	Wind Dir	SE
S2	15 Aug 2017	Animal Life	5 Shorebirds; 5 Dolphins
S2	15 Aug 2017	Floatables	None
S2	15 Aug 2017	Water Color	Green
S2	15 Aug 2017	Current Direction	SE
S2	15 Aug 2017	Water Temp (C)	20
S2	15 Aug 2017	Wave Height Low (ft)	4
S2	15 Aug 2017	High Tide (ft)	5.2
S2	15 Aug 2017	High Tide Time	1608
S2	15 Aug 2017	Low Tide (ft)	2
S2	15 Aug 2017	Low Tide Time	925
S2	15 Aug 2017	Comments	Kelp; Water clear; No flow from storm drain
S2	22 Aug 2017	Arrive Time	1225
S2	22 Aug 2017	Weather	Sunny
S2	22 Aug 2017	Wind Speed (kts)	5.7
S2	22 Aug 2017	Wind Dir	NE
S2	22 Aug 2017	Animal Life	>10 Shorebirds; 3 Dogs
S2	22 Aug 2017	Floatables	None
S2	22 Aug 2017	Water Color	Green
S2	22 Aug 2017	Current Direction	NE
S2	22 Aug 2017	Water Temp (C)	17
S2	22 Aug 2017	Wave Height Low (ft)	3
S2	22 Aug 2017	High Tide (ft)	5
S2	22 Aug 2017	High Tide Time	1030
S2	22 Aug 2017	Low Tide (ft)	0.9
S2	22 Aug 2017	Low Tide Time	1615
S2	22 Aug 2017	Comments	Kelp; >10 Persons; Water clear; No flow from storm drain
S2	29 Aug 2017	Arrive Time	1030
S2	29 Aug 2017	Weather	Cloudy
S2	29 Aug 2017	Wind Speed (kts)	3.8
S2	29 Aug 2017	Wind Dir	NW
S2	29 Aug 2017	Animal Life	>20 Seagulls
S2	29 Aug 2017	Floatables	None
S2	29 Aug 2017	Water Color	Green
S2	29 Aug 2017	Current Direction	N
S2	29 Aug 2017	Water Temp (C)	16
S2	29 Aug 2017	Wave Height Low (ft)	3
S2	29 Aug 2017	High Tide (ft)	4.4
S2	29 Aug 2017	High Tide Time	1559
S2	29 Aug 2017	Low Tide (ft)	2.6
S2	29 Aug 2017	Low Tide Time	916
S2	29 Aug 2017	Comments	Kelp; Water turbid; No flow from storm drain

Station	Date	Parameter	Value
S3	01 Aug 2017	Arrive Time	1250
S3	01 Aug 2017	Weather	Sunny
S3	01 Aug 2017	Wind Speed (kts)	2.7
S3	01 Aug 2017	Wind Dir	NW
S3	01 Aug 2017	Animal Life	7 Birds
S3	01 Aug 2017	Floatables	None
S3	01 Aug 2017	Water Color	Green
S3	01 Aug 2017	Current Direction	N
S3	01 Aug 2017	Water Temp (C)	17
S3	01 Aug 2017	Wave Height Low (ft)	3
S3	01 Aug 2017	High Tide (ft)	4.9
S3	01 Aug 2017	High Tide Time	1752
S3	01 Aug 2017	Low Tide (ft)	2.3
S3	01 Aug 2017	Low Tide Time	1119
S3	01 Aug 2017	Comments	Kelp; Seagrass; 15 Persons; Water clear; No flow from storm drain
S3	08 Aug 2017	Arrive Time	1015
S3	08 Aug 2017	Weather	Sunny
S3	08 Aug 2017	Wind Speed (kts)	4.2
S3	08 Aug 2017	Wind Dir	NE
S3	08 Aug 2017	Animal Life	15 Shorebirds; 5 Dogs
S3	08 Aug 2017	Floatables	None
S3	08 Aug 2017	Water Color	Green
S3	08 Aug 2017	Current Direction	NE
S3	08 Aug 2017	Water Temp (C)	16.5
S3	08 Aug 2017	Wave Height Low (ft)	2
S3	08 Aug 2017	High Tide (ft)	4.4
S3	08 Aug 2017	High Tide Time	1041
S3	08 Aug 2017	Low Tide (ft)	-0.4
S3	08 Aug 2017	Low Tide Time	430
S3	08 Aug 2017	Comments	Kelp; >15 Persons; 1 Surfer; Water clear; No flow from storm drain
S3	15 Aug 2017	Arrive Time	1150
S3	15 Aug 2017	Weather	Overcast
S3	15 Aug 2017	Wind Speed (kts)	3.2
S3	15 Aug 2017	Wind Dir	SE
S3	15 Aug 2017	Animal Life	5 Shorebirds
S3	15 Aug 2017	Floatables	None
S3	15 Aug 2017	Water Color	Green
S3	15 Aug 2017	Current Direction	SE
S3	15 Aug 2017	Water Temp (C)	20
S3	15 Aug 2017	Wave Height Low (ft)	3
S3	15 Aug 2017	High Tide (ft)	5.2
S3	15 Aug 2017	High Tide Time	1608
S3	15 Aug 2017	Low Tide (ft)	2
S3	15 Aug 2017	Low Tide Time	925
S3	15 Aug 2017	Comments	Kelp; Water clear; No flow from storm drain
S3	22 Aug 2017	Arrive Time	1210
S3	22 Aug 2017	Weather	Sunny
S3	22 Aug 2017	Wind Speed (kts)	4.8
S3	22 Aug 2017	Wind Dir	NE
S3	22 Aug 2017	Animal Life	>10 Shorebirds; 2 Dogs
S3	22 Aug 2017	Floatables	None

Station	Date	Parameter	Value
S3	22 Aug 2017	Water Color	Green
S3	22 Aug 2017	Current Direction	NE
S3	22 Aug 2017	Water Temp (C)	17
S3	22 Aug 2017	Wave Height Low (ft)	3
S3	22 Aug 2017	High Tide (ft)	5
S3	22 Aug 2017	High Tide Time	1030
S3	22 Aug 2017	Low Tide (ft)	0.9
S3	22 Aug 2017	Low Tide Time	1615
S3	22 Aug 2017	Comments	Kelp; Water clear; No flow from storm drain
S3	29 Aug 2017	Arrive Time	943
S3	29 Aug 2017	Weather	Cloudy
S3	29 Aug 2017	Wind Speed (kts)	2.6
S3	29 Aug 2017	Wind Dir	NW
S3	29 Aug 2017	Animal Life	3 Seagulls
S3	29 Aug 2017	Floatables	None
S3	29 Aug 2017	Water Color	Green
S3	29 Aug 2017	Current Direction	N
S3	29 Aug 2017	Water Temp (C)	16
S3	29 Aug 2017	Wave Height Low (ft)	2
S3	29 Aug 2017	High Tide (ft)	3
S3	29 Aug 2017	High Tide Time	441
S3	29 Aug 2017	Low Tide (ft)	2.6
S3	29 Aug 2017	Low Tide Time	916
S3	29 Aug 2017	Comments	Kelp; Water turbid; No flow from storm drain
S4	01 Aug 2017	Arrive Time	1044
S4	01 Aug 2017	Weather	Drizzle
S4	01 Aug 2017	Wind Speed (kts)	2.9
S4	01 Aug 2017	Wind Dir	N
S4	01 Aug 2017	Animal Life	None
S4	01 Aug 2017	Floatables	None
S4	01 Aug 2017	Water Color	Green
S4	01 Aug 2017	Current Direction	N
S4	01 Aug 2017	Water Temp (C)	16.9
S4	01 Aug 2017	Wave Height Low (ft)	1
S4	01 Aug 2017	High Tide (ft)	3.1
S4	01 Aug 2017	High Tide Time	635
S4	01 Aug 2017	Low Tide (ft)	2.3
S4	01 Aug 2017	Low Tide Time	1119
S4	01 Aug 2017	Comments	Kelp; Seagrass; Water clear
S4	08 Aug 2017	Arrive Time	855
S4	08 Aug 2017	Weather	Cloudy
S4	08 Aug 2017	Wind Speed (kts)	3.4
S4	08 Aug 2017	Wind Dir	W
S4	08 Aug 2017	Animal Life	None
S4	08 Aug 2017	Floatables	None
S4	08 Aug 2017	Water Color	Green
S4	08 Aug 2017	Current Direction	N
S4	08 Aug 2017	Water Temp (C)	15.8
S4	08 Aug 2017	Wave Height Low (ft)	2
S4	08 Aug 2017	High Tide (ft)	4.4
S4	08 Aug 2017	High Tide Time	1041
S4	08 Aug 2017	Low Tide (ft)	-0.4

Station	Date	Parameter	Value
S4	08 Aug 2017	Low Tide Time	430
S4	08 Aug 2017	Comments	Kelp; Seagrass; Water clear
S4	15 Aug 2017	Arrive Time	831
S4	15 Aug 2017	Weather	Overcast
S4	15 Aug 2017	Wind Speed (kts)	2.5
S4	15 Aug 2017	Wind Dir	E
S4	15 Aug 2017	Animal Life	None
S4	15 Aug 2017	Floatables	None
S4	15 Aug 2017	Water Color	Green
S4	15 Aug 2017	Current Direction	N
S4	15 Aug 2017	Water Temp (C)	17.5
S4	15 Aug 2017	Wave Height Low (ft)	1
S4	15 Aug 2017	High Tide (ft)	3.2
S4	15 Aug 2017	High Tide Time	408
S4	15 Aug 2017	Low Tide (ft)	2
S4	15 Aug 2017	Low Tide Time	925
S4	15 Aug 2017	Comments	Seagrass; Water clear
S4	22 Aug 2017	Arrive Time	818
S4	22 Aug 2017	Weather	Cloudy
S4	22 Aug 2017	Wind Speed (kts)	4.4
S4	22 Aug 2017	Wind Dir	NW
S4	22 Aug 2017	Animal Life	40 Shorebirds; 30 Birds; 2 Pelicans; 8 Sand Pipers; 30 Seagulls
S4	22 Aug 2017	Floatables	None
S4	22 Aug 2017	Water Color	Green
S4	22 Aug 2017	Current Direction	N
S4	22 Aug 2017	Water Temp (C)	15.6
S4	22 Aug 2017	Wave Height Low (ft)	3
S4	22 Aug 2017	High Tide (ft)	5
S4	22 Aug 2017	High Tide Time	1030
S4	22 Aug 2017	Low Tide (ft)	-0.7
S4	22 Aug 2017	Low Tide Time	420
S4	22 Aug 2017	Comments	Kelp; Seagrass; Water clear
S4	29 Aug 2017	Arrive Time	1124
S4	29 Aug 2017	Weather	Foggy
S4	29 Aug 2017	Wind Speed (kts)	1.4
S4	29 Aug 2017	Wind Dir	SW
S4	29 Aug 2017	Animal Life	None
S4	29 Aug 2017	Floatables	None
S4	29 Aug 2017	Water Color	Green
S4	29 Aug 2017	Current Direction	N
S4	29 Aug 2017	Water Temp (C)	14.1
S4	29 Aug 2017	Wave Height Low (ft)	2
S4	29 Aug 2017	High Tide (ft)	4.4
S4	29 Aug 2017	High Tide Time	1559
S4	29 Aug 2017	Low Tide (ft)	2.6
S4	29 Aug 2017	Low Tide Time	916
S4	29 Aug 2017	Comments	Kelp; Seagrass; Water clear
S5	01 Aug 2017	Arrive Time	922
S5	01 Aug 2017	Weather	Overcast
S5	01 Aug 2017	Wind Speed (kts)	3.4
S5	01 Aug 2017	Wind Dir	N

Station	Date	Parameter	Value
S5	01 Aug 2017	Animal Life	None
S5	01 Aug 2017	Floatables	None
S5	01 Aug 2017	Water Color	Green
S5	01 Aug 2017	Current Direction	N
S5	01 Aug 2017	Water Temp (C)	16.6
S5	01 Aug 2017	Wave Height Low (ft)	2
S5	01 Aug 2017	High Tide (ft)	3.1
S5	01 Aug 2017	High Tide Time	635
S5	01 Aug 2017	Low Tide (ft)	2.3
S5	01 Aug 2017	Low Tide Time	1119
S5	01 Aug 2017	Comments	Kelp; Seagrass; 2 Persons; Water clear
S5	08 Aug 2017	Arrive Time	1025
S5	08 Aug 2017	Weather	Sunny
S5	08 Aug 2017	Wind Speed (kts)	6.6
S5	08 Aug 2017	Wind Dir	W
S5	08 Aug 2017	Animal Life	None
S5	08 Aug 2017	Floatables	None
S5	08 Aug 2017	Water Color	Green
S5	08 Aug 2017	Current Direction	N
S5	08 Aug 2017	Water Temp (C)	18.2
S5	08 Aug 2017	Wave Height Low (ft)	3
S5	08 Aug 2017	High Tide (ft)	4.4
S5	08 Aug 2017	High Tide Time	1041
S5	08 Aug 2017	Low Tide (ft)	1.6
S5	08 Aug 2017	Low Tide Time	1606
S5	08 Aug 2017	Comments	Kelp; Seagrass; 3 Persons; Water clear
S5	15 Aug 2017	Arrive Time	942
S5	15 Aug 2017	Weather	Overcast
S5	15 Aug 2017	Wind Speed (kts)	1.2
S5	15 Aug 2017	Wind Dir	SE
S5	15 Aug 2017	Animal Life	None
S5	15 Aug 2017	Floatables	None
S5	15 Aug 2017	Water Color	Green
S5	15 Aug 2017	Current Direction	N
S5	15 Aug 2017	Water Temp (C)	18
S5	15 Aug 2017	Wave Height Low (ft)	1
S5	15 Aug 2017	High Tide (ft)	3.2
S5	15 Aug 2017	High Tide Time	408
S5	15 Aug 2017	Low Tide (ft)	2
S5	15 Aug 2017	Low Tide Time	925
S5	15 Aug 2017	Comments	Kelp; Water clear
S5	22 Aug 2017	Arrive Time	935
S5	22 Aug 2017	Weather	Cloudy
S5	22 Aug 2017	Wind Speed (kts)	5.4
S5	22 Aug 2017	Wind Dir	NW
S5	22 Aug 2017	Animal Life	None
S5	22 Aug 2017	Floatables	None
S5	22 Aug 2017	Water Color	Green
S5	22 Aug 2017	Current Direction	N
S5	22 Aug 2017	Water Temp (C)	15
S5	22 Aug 2017	Wave Height Low (ft)	3
S5	22 Aug 2017	High Tide (ft)	5

Station	Date	Parameter	Value
S5	22 Aug 2017	High Tide Time	1030
S5	22 Aug 2017	Low Tide (ft)	-0.7
S5	22 Aug 2017	Low Tide Time	420
S5	22 Aug 2017	Comments	Kelp; Seagrass; Water clear
S5	29 Aug 2017	Arrive Time	943
S5	29 Aug 2017	Weather	Foggy
S5	29 Aug 2017	Wind Speed (kts)	3.6
S5	29 Aug 2017	Wind Dir	N
S5	29 Aug 2017	Animal Life	None
S5	29 Aug 2017	Floatables	None
S5	29 Aug 2017	Water Color	Green
S5	29 Aug 2017	Current Direction	N
S5	29 Aug 2017	Water Temp (C)	14.1
S5	29 Aug 2017	Wave Height Low (ft)	2
S5	29 Aug 2017	High Tide (ft)	3
S5	29 Aug 2017	High Tide Time	441
S5	29 Aug 2017	Low Tide (ft)	2.6
S5	29 Aug 2017	Low Tide Time	916
S5	29 Aug 2017	Comments	Seagrass; Water clear
S6	01 Aug 2017	Arrive Time	911
S6	01 Aug 2017	Weather	Overcast
S6	01 Aug 2017	Wind Speed (kts)	1.5
S6	01 Aug 2017	Wind Dir	W
S6	01 Aug 2017	Animal Life	None
S6	01 Aug 2017	Floatables	None
S6	01 Aug 2017	Water Color	Green
S6	01 Aug 2017	Current Direction	N
S6	01 Aug 2017	Water Temp (C)	15.6
S6	01 Aug 2017	Wave Height Low (ft)	1
S6	01 Aug 2017	High Tide (ft)	3.1
S6	01 Aug 2017	High Tide Time	635
S6	01 Aug 2017	Low Tide (ft)	2.3
S6	01 Aug 2017	Low Tide Time	1119
S6	01 Aug 2017	Comments	Kelp; Seagrass; 1 Surfer; Water clear
S6	08 Aug 2017	Arrive Time	1017
S6	08 Aug 2017	Weather	Sunny
S6	08 Aug 2017	Wind Speed (kts)	6
S6	08 Aug 2017	Wind Dir	W
S6	08 Aug 2017	Animal Life	None
S6	08 Aug 2017	Floatables	None
S6	08 Aug 2017	Water Color	Green
S6	08 Aug 2017	Current Direction	N
S6	08 Aug 2017	Water Temp (C)	18.4
S6	08 Aug 2017	Wave Height Low (ft)	3
S6	08 Aug 2017	High Tide (ft)	4.4
S6	08 Aug 2017	High Tide Time	1041
S6	08 Aug 2017	Low Tide (ft)	-0.4
S6	08 Aug 2017	Low Tide Time	430
S6	08 Aug 2017	Comments	Kelp; Seagrass; 2 Persons; Water clear
S6	15 Aug 2017	Arrive Time	951
S6	15 Aug 2017	Weather	Overcast

Station	Date	Parameter	Value
S6	15 Aug 2017	Wind Speed (kts)	0.7
S6	15 Aug 2017	Wind Dir	SE
S6	15 Aug 2017	Animal Life	None
S6	15 Aug 2017	Floatables	None
S6	15 Aug 2017	Water Color	Green
S6	15 Aug 2017	Current Direction	N
S6	15 Aug 2017	Water Temp (C)	19
S6	15 Aug 2017	Wave Height Low (ft)	1
S6	15 Aug 2017	High Tide (ft)	3.2
S6	15 Aug 2017	High Tide Time	408
S6	15 Aug 2017	Low Tide (ft)	2
S6	15 Aug 2017	Low Tide Time	925
S6	15 Aug 2017	Comments	Kelp; 4 Persons; Water clear
S6	22 Aug 2017	Arrive Time	926
S6	22 Aug 2017	Weather	Cloudy
S6	22 Aug 2017	Wind Speed (kts)	3.6
S6	22 Aug 2017	Wind Dir	NW
S6	22 Aug 2017	Animal Life	None
S6	22 Aug 2017	Floatables	None
S6	22 Aug 2017	Water Color	Green
S6	22 Aug 2017	Current Direction	N
S6	22 Aug 2017	Water Temp (C)	15.8
S6	22 Aug 2017	Wave Height Low (ft)	3
S6	22 Aug 2017	High Tide (ft)	5
S6	22 Aug 2017	High Tide Time	1030
S6	22 Aug 2017	Low Tide (ft)	-0.7
S6	22 Aug 2017	Low Tide Time	420
S6	22 Aug 2017	Comments	Kelp; Seagrass; 2 Persons; Water clear
S6	29 Aug 2017	Arrive Time	932
S6	29 Aug 2017	Weather	Foggy
S6	29 Aug 2017	Wind Speed (kts)	3.1
S6	29 Aug 2017	Wind Dir	N
S6	29 Aug 2017	Animal Life	1 Dog
S6	29 Aug 2017	Floatables	None
S6	29 Aug 2017	Water Color	Green
S6	29 Aug 2017	Current Direction	N
S6	29 Aug 2017	Water Temp (C)	14.9
S6	29 Aug 2017	Wave Height Low (ft)	2
S6	29 Aug 2017	High Tide (ft)	3
S6	29 Aug 2017	High Tide Time	441
S6	29 Aug 2017	Low Tide (ft)	2.6
S6	29 Aug 2017	Low Tide Time	916
S6	29 Aug 2017	Comments	1 Jogger; 3 Persons; Water clear
S8	01 Aug 2017	Arrive Time	818
S8	01 Aug 2017	Weather	Overcast
S8	01 Aug 2017	Wind Speed (kts)	1.3
S8	01 Aug 2017	Wind Dir	NW
S8	01 Aug 2017	Animal Life	None
S8	01 Aug 2017	Floatables	None
S8	01 Aug 2017	Water Color	Green
S8	01 Aug 2017	Current Direction	N
S8	01 Aug 2017	Water Temp (C)	14.5

Station	Date	Parameter	Value
S8	01 Aug 2017	Wave Height Low (ft)	2
S8	01 Aug 2017	High Tide (ft)	3.1
S8	01 Aug 2017	High Tide Time	635
S8	01 Aug 2017	Low Tide (ft)	2.3
S8	01 Aug 2017	Low Tide Time	1119
S8	01 Aug 2017	Comments	Kelp; Seagrass; 6 Persons; Water clear
S8	08 Aug 2017	Arrive Time	1140
S8	08 Aug 2017	Weather	Sunny
S8	08 Aug 2017	Wind Speed (kts)	6.9
S8	08 Aug 2017	Wind Dir	W
S8	08 Aug 2017	Animal Life	None
S8	08 Aug 2017	Floatables	None
S8	08 Aug 2017	Water Color	Green
S8	08 Aug 2017	Current Direction	N
S8	08 Aug 2017	Water Temp (C)	22.1
S8	08 Aug 2017	Wave Height Low (ft)	3
S8	08 Aug 2017	High Tide (ft)	4.4
S8	08 Aug 2017	High Tide Time	1041
S8	08 Aug 2017	Low Tide (ft)	1.6
S8	08 Aug 2017	Low Tide Time	1606
S8	08 Aug 2017	Comments	Kelp; Seagrass; 5 Persons; 5 Surfers; 2 Swimmers; Water clear
S8	15 Aug 2017	Arrive Time	1104
S8	15 Aug 2017	Weather	Overcast
S8	15 Aug 2017	Wind Speed (kts)	6.2
S8	15 Aug 2017	Wind Dir	W
S8	15 Aug 2017	Animal Life	None
S8	15 Aug 2017	Floatables	None
S8	15 Aug 2017	Water Color	Green
S8	15 Aug 2017	Current Direction	N
S8	15 Aug 2017	Water Temp (C)	17.2
S8	15 Aug 2017	Wave Height Low (ft)	2
S8	15 Aug 2017	High Tide (ft)	5.2
S8	15 Aug 2017	High Tide Time	1608
S8	15 Aug 2017	Low Tide (ft)	2
S8	15 Aug 2017	Low Tide Time	925
S8	15 Aug 2017	Comments	Seagrass; 50 Persons; 2 Swimmers; Water clear
S8	22 Aug 2017	Arrive Time	1055
S8	22 Aug 2017	Weather	Sunny
S8	22 Aug 2017	Wind Speed (kts)	6
S8	22 Aug 2017	Wind Dir	NW
S8	22 Aug 2017	Animal Life	None
S8	22 Aug 2017	Floatables	None
S8	22 Aug 2017	Water Color	Green
S8	22 Aug 2017	Current Direction	N
S8	22 Aug 2017	Water Temp (C)	18.5
S8	22 Aug 2017	Wave Height Low (ft)	3
S8	22 Aug 2017	High Tide (ft)	5
S8	22 Aug 2017	High Tide Time	1030
S8	22 Aug 2017	Low Tide (ft)	0.9
S8	22 Aug 2017	Low Tide Time	1615
S8	22 Aug 2017	Comments	Kelp; Seagrass; 2 Persons; 2 Swimmers; Water clear

Station	Date	Parameter	Value
S8	29 Aug 2017	Arrive Time	834
S8	29 Aug 2017	Weather	Foggy
S8	29 Aug 2017	Wind Speed (kts)	1.1
S8	29 Aug 2017	Wind Dir	NW
S8	29 Aug 2017	Animal Life	None
S8	29 Aug 2017	Floatables	None
S8	29 Aug 2017	Water Color	Green
S8	29 Aug 2017	Current Direction	N
S8	29 Aug 2017	Water Temp (C)	14.4
S8	29 Aug 2017	Wave Height Low (ft)	2
S8	29 Aug 2017	High Tide (ft)	3
S8	29 Aug 2017	High Tide Time	441
S8	29 Aug 2017	Low Tide (ft)	2.6
S8	29 Aug 2017	Low Tide Time	916
S8	29 Aug 2017	Comments	Kelp; Seagrass; 2 Persons; Water clear
S9	01 Aug 2017	Arrive Time	745
S9	01 Aug 2017	Weather	Sunny
S9	01 Aug 2017	Wind Speed (kts)	0.2
S9	01 Aug 2017	Wind Dir	N
S9	01 Aug 2017	Animal Life	None
S9	01 Aug 2017	Floatables	None
S9	01 Aug 2017	Water Color	Green
S9	01 Aug 2017	Current Direction	N
S9	01 Aug 2017	Water Temp (C)	12.2
S9	01 Aug 2017	Wave Height Low (ft)	1
S9	01 Aug 2017	High Tide (ft)	3.1
S9	01 Aug 2017	High Tide Time	635
S9	01 Aug 2017	Low Tide (ft)	2.3
S9	01 Aug 2017	Low Tide Time	1119
S9	01 Aug 2017	Comments	Kelp; Seagrass; 2 Joggers; Water clear
S9	08 Aug 2017	Arrive Time	1220
S9	08 Aug 2017	Weather	Sunny
S9	08 Aug 2017	Wind Speed (kts)	3.4
S9	08 Aug 2017	Wind Dir	W
S9	08 Aug 2017	Animal Life	None
S9	08 Aug 2017	Floatables	None
S9	08 Aug 2017	Water Color	Green
S9	08 Aug 2017	Current Direction	N
S9	08 Aug 2017	Water Temp (C)	19
S9	08 Aug 2017	Wave Height Low (ft)	3
S9	08 Aug 2017	High Tide (ft)	4.4
S9	08 Aug 2017	High Tide Time	1041
S9	08 Aug 2017	Low Tide (ft)	1.6
S9	08 Aug 2017	Low Tide Time	1606
S9	08 Aug 2017	Comments	Kelp; Seagrass; 42 Persons; 7 Surfers; 12 Swimmers; Water clear
S9	15 Aug 2017	Arrive Time	1140
S9	15 Aug 2017	Weather	Drizzle
S9	15 Aug 2017	Wind Speed (kts)	5
S9	15 Aug 2017	Wind Dir	NW
S9	15 Aug 2017	Animal Life	None
S9	15 Aug 2017	Floatables	None
S9	15 Aug 2017	Water Color	Green

Station	Date	Parameter	Value
S9	15 Aug 2017	Current Direction	N
S9	15 Aug 2017	Water Temp (C)	17.8
S9	15 Aug 2017	Wave Height Low (ft)	2
S9	15 Aug 2017	High Tide (ft)	5.2
S9	15 Aug 2017	High Tide Time	1608
S9	15 Aug 2017	Low Tide (ft)	2
S9	15 Aug 2017	Low Tide Time	925
S9	15 Aug 2017	Comments	42 Persons; 21 Surfers; Water clear
S9	22 Aug 2017	Arrive Time	1132
S9	22 Aug 2017	Weather	Sunny
S9	22 Aug 2017	Wind Speed (kts)	7.5
S9	22 Aug 2017	Wind Dir	NW
S9	22 Aug 2017	Animal Life	None
S9	22 Aug 2017	Floatables	None
S9	22 Aug 2017	Water Color	Green
S9	22 Aug 2017	Current Direction	N
S9	22 Aug 2017	Water Temp (C)	18.2
S9	22 Aug 2017	Wave Height Low (ft)	2
S9	22 Aug 2017	High Tide (ft)	5
S9	22 Aug 2017	High Tide Time	1030
S9	22 Aug 2017	Low Tide (ft)	0.9
S9	22 Aug 2017	Low Tide Time	1615
S9	22 Aug 2017	Comments	Kelp; Seagrass; 25 Persons; 8 Surfers; 12 Swimmers; Water clear
S9	29 Aug 2017	Arrive Time	804
S9	29 Aug 2017	Weather	Foggy
S9	29 Aug 2017	Wind Speed (kts)	0.1
S9	29 Aug 2017	Wind Dir	NW
S9	29 Aug 2017	Animal Life	None
S9	29 Aug 2017	Floatables	None
S9	29 Aug 2017	Water Color	Green
S9	29 Aug 2017	Current Direction	NW
S9	29 Aug 2017	Water Temp (C)	15
S9	29 Aug 2017	Wave Height Low (ft)	1
S9	29 Aug 2017	High Tide (ft)	3
S9	29 Aug 2017	High Tide Time	441
S9	29 Aug 2017	Low Tide (ft)	2.6
S9	29 Aug 2017	Low Tide Time	916
S9	29 Aug 2017	Comments	Kelp; Water clear
S10	01 Aug 2017	Arrive Time	1052
S10	01 Aug 2017	Weather	Drizzle
S10	01 Aug 2017	Wind Speed (kts)	3.4
S10	01 Aug 2017	Wind Dir	N
S10	01 Aug 2017	Animal Life	None
S10	01 Aug 2017	Floatables	None
S10	01 Aug 2017	Water Color	Green
S10	01 Aug 2017	Current Direction	N
S10	01 Aug 2017	Water Temp (C)	15.2
S10	01 Aug 2017	Wave Height Low (ft)	1
S10	01 Aug 2017	High Tide (ft)	3.1
S10	01 Aug 2017	High Tide Time	635
S10	01 Aug 2017	Low Tide (ft)	2.3
S10	01 Aug 2017	Low Tide Time	1119

Station	Date	Parameter	Value
S10	01 Aug 2017	Comments	Seagrass; Water clear
S10	08 Aug 2017	Arrive Time	903
S10	08 Aug 2017	Weather	Cloudy
S10	08 Aug 2017	Wind Speed (kts)	4.4
S10	08 Aug 2017	Wind Dir	W
S10	08 Aug 2017	Animal Life	None
S10	08 Aug 2017	Floatables	None
S10	08 Aug 2017	Water Color	Green
S10	08 Aug 2017	Current Direction	N
S10	08 Aug 2017	Water Temp (C)	16.3
S10	08 Aug 2017	Wave Height Low (ft)	3
S10	08 Aug 2017	High Tide (ft)	4.4
S10	08 Aug 2017	High Tide Time	1041
S10	08 Aug 2017	Low Tide (ft)	-0.4
S10	08 Aug 2017	Low Tide Time	430
S10	08 Aug 2017	Comments	Kelp; Seagrass; Water clear
S10	15 Aug 2017	Arrive Time	827
S10	15 Aug 2017	Weather	Overcast
S10	15 Aug 2017	Wind Speed (kts)	2.5
S10	15 Aug 2017	Wind Dir	E
S10	15 Aug 2017	Animal Life	None
S10	15 Aug 2017	Floatables	None
S10	15 Aug 2017	Water Color	Green
S10	15 Aug 2017	Current Direction	N
S10	15 Aug 2017	Water Temp (C)	17.6
S10	15 Aug 2017	Wave Height Low (ft)	1
S10	15 Aug 2017	High Tide (ft)	3.2
S10	15 Aug 2017	High Tide Time	408
S10	15 Aug 2017	Low Tide (ft)	2
S10	15 Aug 2017	Low Tide Time	925
S10	15 Aug 2017	Comments	Kelp; Water clear
S10	22 Aug 2017	Arrive Time	813
S10	22 Aug 2017	Weather	Cloudy
S10	22 Aug 2017	Wind Speed (kts)	3.8
S10	22 Aug 2017	Wind Dir	NW
S10	22 Aug 2017	Animal Life	None
S10	22 Aug 2017	Floatables	None
S10	22 Aug 2017	Water Color	Green
S10	22 Aug 2017	Current Direction	N
S10	22 Aug 2017	Water Temp (C)	16.4
S10	22 Aug 2017	Wave Height Low (ft)	3
S10	22 Aug 2017	High Tide (ft)	5
S10	22 Aug 2017	High Tide Time	1030
S10	22 Aug 2017	Low Tide (ft)	-0.7
S10	22 Aug 2017	Low Tide Time	420
S10	22 Aug 2017	Comments	Kelp; Seagrass; Water clear
S10	29 Aug 2017	Arrive Time	1119
S10	29 Aug 2017	Weather	Foggy
S10	29 Aug 2017	Wind Speed (kts)	1.3
S10	29 Aug 2017	Wind Dir	N
S10	29 Aug 2017	Animal Life	None

Station	Date	Parameter	Value
S10	29 Aug 2017	Floatables	None
S10	29 Aug 2017	Water Color	Green
S10	29 Aug 2017	Current Direction	N
S10	29 Aug 2017	Water Temp (C)	16
S10	29 Aug 2017	Wave Height Low (ft)	2
S10	29 Aug 2017	High Tide (ft)	4.4
S10	29 Aug 2017	High Tide Time	1559
S10	29 Aug 2017	Low Tide (ft)	2.6
S10	29 Aug 2017	Low Tide Time	916
S10	29 Aug 2017	Comments	Kelp; Seagrass; Water clear
S11	01 Aug 2017	Arrive Time	915
S11	01 Aug 2017	Weather	Overcast
S11	01 Aug 2017	Wind Speed (kts)	2.9
S11	01 Aug 2017	Wind Dir	W
S11	01 Aug 2017	Animal Life	None
S11	01 Aug 2017	Floatables	None
S11	01 Aug 2017	Water Color	Green
S11	01 Aug 2017	Current Direction	N
S11	01 Aug 2017	Water Temp (C)	16.2
S11	01 Aug 2017	Wave Height Low (ft)	1
S11	01 Aug 2017	High Tide (ft)	3.1
S11	01 Aug 2017	High Tide Time	635
S11	01 Aug 2017	Low Tide (ft)	2.3
S11	01 Aug 2017	Low Tide Time	1119
S11	01 Aug 2017	Comments	Kelp; Water clear
S11	08 Aug 2017	Arrive Time	1020
S11	08 Aug 2017	Weather	Sunny
S11	08 Aug 2017	Wind Speed (kts)	5.6
S11	08 Aug 2017	Wind Dir	W
S11	08 Aug 2017	Animal Life	None
S11	08 Aug 2017	Floatables	None
S11	08 Aug 2017	Water Color	Green
S11	08 Aug 2017	Current Direction	N
S11	08 Aug 2017	Water Temp (C)	18.2
S11	08 Aug 2017	Wave Height Low (ft)	3
S11	08 Aug 2017	High Tide (ft)	4.4
S11	08 Aug 2017	High Tide Time	1041
S11	08 Aug 2017	Low Tide (ft)	-0.4
S11	08 Aug 2017	Low Tide Time	430
S11	08 Aug 2017	Comments	Kelp; Seagrass; Water clear
S11	15 Aug 2017	Arrive Time	947
S11	15 Aug 2017	Weather	Overcast
S11	15 Aug 2017	Wind Speed (kts)	0.1
S11	15 Aug 2017	Wind Dir	S
S11	15 Aug 2017	Animal Life	None
S11	15 Aug 2017	Floatables	None
S11	15 Aug 2017	Water Color	Green
S11	15 Aug 2017	Current Direction	N
S11	15 Aug 2017	Water Temp (C)	20
S11	15 Aug 2017	Wave Height Low (ft)	1
S11	15 Aug 2017	High Tide (ft)	3.2
S11	15 Aug 2017	High Tide Time	408

Station	Date	Parameter	Value
S11	15 Aug 2017	Low Tide (ft)	2
S11	15 Aug 2017	Low Tide Time	925
S11	15 Aug 2017	Comments	Seagrass; 1 Person; Water clear
S11	22 Aug 2017	Arrive Time	930
S11	22 Aug 2017	Weather	Cloudy
S11	22 Aug 2017	Wind Speed (kts)	6.6
S11	22 Aug 2017	Wind Dir	NW
S11	22 Aug 2017	Animal Life	None
S11	22 Aug 2017	Floatables	None
S11	22 Aug 2017	Water Color	Green
S11	22 Aug 2017	Current Direction	N
S11	22 Aug 2017	Water Temp (C)	15.4
S11	22 Aug 2017	Wave Height Low (ft)	3
S11	22 Aug 2017	High Tide (ft)	5
S11	22 Aug 2017	High Tide Time	1030
S11	22 Aug 2017	Low Tide (ft)	-0.7
S11	22 Aug 2017	Low Tide Time	420
S11	22 Aug 2017	Comments	Kelp; Seagrass; Water clear
S11	29 Aug 2017	Arrive Time	936
S11	29 Aug 2017	Weather	Foggy
S11	29 Aug 2017	Wind Speed (kts)	3.4
S11	29 Aug 2017	Wind Dir	N
S11	29 Aug 2017	Animal Life	None
S11	29 Aug 2017	Floatables	None
S11	29 Aug 2017	Water Color	Green
S11	29 Aug 2017	Current Direction	N
S11	29 Aug 2017	Water Temp (C)	14.1
S11	29 Aug 2017	Wave Height Low (ft)	2
S11	29 Aug 2017	High Tide (ft)	3
S11	29 Aug 2017	High Tide Time	441
S11	29 Aug 2017	Low Tide (ft)	2.6
S11	29 Aug 2017	Low Tide Time	916
S11	29 Aug 2017	Comments	Water clear
S12	01 Aug 2017	Arrive Time	853
S12	01 Aug 2017	Weather	Overcast
S12	01 Aug 2017	Wind Speed (kts)	0.9
S12	01 Aug 2017	Wind Dir	W
S12	01 Aug 2017	Animal Life	2 Dogs
S12	01 Aug 2017	Floatables	None
S12	01 Aug 2017	Water Color	Green
S12	01 Aug 2017	Current Direction	N
S12	01 Aug 2017	Water Temp (C)	14.8
S12	01 Aug 2017	Wave Height Low (ft)	1
S12	01 Aug 2017	High Tide (ft)	3.1
S12	01 Aug 2017	High Tide Time	635
S12	01 Aug 2017	Low Tide (ft)	2.3
S12	01 Aug 2017	Low Tide Time	1119
S12	01 Aug 2017	Comments	Seagrass; 2 Persons; Water clear
S12	08 Aug 2017	Arrive Time	1002
S12	08 Aug 2017	Weather	Partly Cloudy
S12	08 Aug 2017	Wind Speed (kts)	3.4

Station	Date	Parameter	Value
S12	08 Aug 2017	Wind Dir	W
S12	08 Aug 2017	Animal Life	1 Dog
S12	08 Aug 2017	Floatables	None
S12	08 Aug 2017	Water Color	Green
S12	08 Aug 2017	Current Direction	N
S12	08 Aug 2017	Water Temp (C)	18.6
S12	08 Aug 2017	Wave Height Low (ft)	3
S12	08 Aug 2017	High Tide (ft)	4.4
S12	08 Aug 2017	High Tide Time	1041
S12	08 Aug 2017	Low Tide (ft)	-0.4
S12	08 Aug 2017	Low Tide Time	430
S12	08 Aug 2017	Comments	Kelp; Seagrass; 3 Persons; Water clear
S12	15 Aug 2017	Arrive Time	1008
S12	15 Aug 2017	Weather	Overcast
S12	15 Aug 2017	Wind Speed (kts)	0.1
S12	15 Aug 2017	Wind Dir	N
S12	15 Aug 2017	Animal Life	None
S12	15 Aug 2017	Floatables	None
S12	15 Aug 2017	Water Color	Green
S12	15 Aug 2017	Current Direction	N
S12	15 Aug 2017	Water Temp (C)	19.4
S12	15 Aug 2017	Wave Height Low (ft)	1
S12	15 Aug 2017	High Tide (ft)	3.2
S12	15 Aug 2017	High Tide Time	408
S12	15 Aug 2017	Low Tide (ft)	2
S12	15 Aug 2017	Low Tide Time	925
S12	15 Aug 2017	Comments	4 Persons; Water clear
S12	22 Aug 2017	Arrive Time	914
S12	22 Aug 2017	Weather	Cloudy
S12	22 Aug 2017	Wind Speed (kts)	5.2
S12	22 Aug 2017	Wind Dir	NW
S12	22 Aug 2017	Animal Life	None
S12	22 Aug 2017	Floatables	None
S12	22 Aug 2017	Water Color	Green
S12	22 Aug 2017	Current Direction	N
S12	22 Aug 2017	Water Temp (C)	16.8
S12	22 Aug 2017	Wave Height Low (ft)	3
S12	22 Aug 2017	High Tide (ft)	5
S12	22 Aug 2017	High Tide Time	1030
S12	22 Aug 2017	Low Tide (ft)	-0.7
S12	22 Aug 2017	Low Tide Time	420
S12	22 Aug 2017	Comments	Kelp; Seagrass; 5 Persons; Water clear
S12	29 Aug 2017	Arrive Time	909
S12	29 Aug 2017	Weather	Foggy
S12	29 Aug 2017	Wind Speed (kts)	2.3
S12	29 Aug 2017	Wind Dir	N
S12	29 Aug 2017	Animal Life	None
S12	29 Aug 2017	Floatables	None
S12	29 Aug 2017	Water Color	Green
S12	29 Aug 2017	Current Direction	N
S12	29 Aug 2017	Water Temp (C)	13.3
S12	29 Aug 2017	Wave Height Low (ft)	2

Station	Date	Parameter	Value
S12	29 Aug 2017	High Tide (ft)	3
S12	29 Aug 2017	High Tide Time	441
S12	29 Aug 2017	Low Tide (ft)	2.6
S12	29 Aug 2017	Low Tide Time	916
S12	29 Aug 2017	Comments	Kelp; Seagrass; 3 Persons; Water clear

Kelp Stations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO 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	I19	I24	I25	I26	I32	I39	I40
01 Aug 2017	16	4	4	3	8	3	12
02 Aug 2017	14	3	4	3	8	3	12
03 Aug 2017	14	3	4	3	8	3	12
04 Aug 2017	14	3	4	3	8	3	12
05 Aug 2017	14	4	4	3	8	3	11
06 Aug 2017	14	4	4	3	8	3	11
07 Aug 2017	14	4	4	3	8	3	11
08 Aug 2017	14	4	4	3	8	3	11
09 Aug 2017	14	4	4	3	8	3	11
10 Aug 2017	15	4	5	3	10	3	11
11 Aug 2017	16	4	4	2	10	2	10
12 Aug 2017	16	4	4	2	10	2	10
13 Aug 2017	16	4	4	2	10	2	10
14 Aug 2017	16	4	4	2	10	2	10
15 Aug 2017	16	4	4	2	10	2	10
16 Aug 2017	16	4	4	2	10	2	10
17 Aug 2017	15*	4*	5*	2*	9*	2*	9*
18 Aug 2017	15*	4*	5*	2*	9*	2*	9*
19 Aug 2017	10	3	4	2	10	3	10
20 Aug 2017	10	3	4	2	10	3	10
21 Aug 2017	10	3	4	2	10	3	10
22 Aug 2017	10	3	4	2	10	3	10
23 Aug 2017	10	3	4	2	8	3	11
24 Aug 2017	9	3	4	2	7	3	12
25 Aug 2017	9	3	4	2	7	3	12
26 Aug 2017	9	3	4	2	7	3	12
27 Aug 2017	9	3	4	2	7	3	12
28 Aug 2017	7	3	4	2	6	3	11
29 Aug 2017	6	3	4	2	8	3	12
30 Aug 2017	6	3	4	2	8	3	12
31 Aug 2017	6	3	4	2	8	3	12

* 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 SBOO 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	I19	I24	I25	I26	I32	I39	I40
01 Aug 2017	2	2	2	2	2	2	2
02 Aug 2017	2	2	2	2	2	2	2
03 Aug 2017	2	2	2	2	2	2	2
04 Aug 2017	2	2	2	2	2	2	2
05 Aug 2017	2	2	2	2	2	2	2
06 Aug 2017	2	2	2	2	2	2	2
07 Aug 2017	2	2	2	2	2	2	2
08 Aug 2017	2	2	2	2	2	2	2
09 Aug 2017	2	2	2	2	2	2	2
10 Aug 2017	2	2	2	2	2	2	2
11 Aug 2017	2	2	2	2	2	2	2
12 Aug 2017	2	2	2	2	2	2	2
13 Aug 2017	2	2	2	2	2	2	2
14 Aug 2017	2	2	2	2	2	2	2
15 Aug 2017	2	2	2	2	2	2	2
16 Aug 2017	2	2	2	2	2	2	2
17 Aug 2017	2*	2*	2*	2*	2*	2*	2*
18 Aug 2017	2*	2*	2*	2*	2*	2*	2*
19 Aug 2017	2	2	2	2	2	2	2
20 Aug 2017	2	2	2	2	2	2	2
21 Aug 2017	2	2	2	2	2	2	2
22 Aug 2017	2	2	2	2	2	2	2
23 Aug 2017	2	2	2	2	2	2	2
24 Aug 2017	2	2	2	2	2	2	2
25 Aug 2017	2	2	2	2	2	2	2
26 Aug 2017	2	2	2	2	2	2	2
27 Aug 2017	2	2	2	2	2	2	2
28 Aug 2017	2	2	2	2	2	2	2
29 Aug 2017	2	2	2	2	2	2	2
30 Aug 2017	2	2	2	2	2	2	2
31 Aug 2017	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO 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	I19	I24	I25	I26	I32	I39	I40
01 Aug 2017	2	2	2	2	2	2	2
02 Aug 2017	2	2	2	2	2	2	2
03 Aug 2017	2	2	2	2	2	2	2
04 Aug 2017	2	2	2	2	2	2	2
05 Aug 2017	2	2	2	2	2	2	2
06 Aug 2017	2	2	2	2	2	2	2
07 Aug 2017	2	2	2	2	2	2	2
08 Aug 2017	2	2	2	2	2	2	2
09 Aug 2017	2	2	2	2	2	2	2
10 Aug 2017	2	2	2	2	2	2	2
11 Aug 2017	2	2	2	2	2	2	2
12 Aug 2017	2	2	2	2	2	2	2
13 Aug 2017	2	2	2	2	2	2	2
14 Aug 2017	2	2	2	2	2	2	2
15 Aug 2017	2	2	2	2	2	2	2
16 Aug 2017	2	2	2	2	2	2	2
17 Aug 2017	2*	2*	2*	2*	2*	2*	2*
18 Aug 2017	2*	2*	2*	2*	2*	2*	2*
19 Aug 2017	2	2	2	2	2	2	2
20 Aug 2017	2	2	2	2	2	2	2
21 Aug 2017	2	2	2	2	2	2	2
22 Aug 2017	2	2	2	2	2	2	2
23 Aug 2017	2	2	2	2	2	2	2
24 Aug 2017	2	2	2	2	2	2	2
25 Aug 2017	2	2	2	2	2	2	2
26 Aug 2017	2	2	2	2	2	2	2
27 Aug 2017	2	2	2	2	2	2	2
28 Aug 2017	2	2	2	2	2	2	2
29 Aug 2017	2	2	2	2	2	2	2
30 Aug 2017	2	2	2	2	2	2	2
31 Aug 2017	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO 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	I19	I24	I25	I26	I32	I39	I40
02 Aug 2017	IC	IC	IC	IC	ns	IC	IC
03 Aug 2017	ns	ns	ns	ns	IC	ns	ns
10 Aug 2017	IC	IC	IC	IC	IC	IC	IC
19 Aug 2017	IC	IC	IC	IC	IC	IC	IC
23 Aug 2017	IC	IC	IC	IC	IC	IC	IC
28 Aug 2017	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 SBOO 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	I19	I24	I25	I26	I32	I39	I40
02 Aug 2017	IC	IC	IC	IC	ns	IC	IC
03 Aug 2017	ns	ns	ns	ns	IC	ns	ns
10 Aug 2017	IC	IC	IC	IC	IC	IC	IC
19 Aug 2017	IC	IC	IC	IC	IC	IC	IC
23 Aug 2017	IC	IC	IC	IC	IC	IC	IC
28 Aug 2017	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 SBOO 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	I19	I24	I25	I26	I32	I39	I40
02 Aug 2017	IC	IC	IC	IC	ns	IC	IC
03 Aug 2017	ns	ns	ns	ns	IC	ns	ns
10 Aug 2017	IC	IC	IC	IC	IC	IC	IC
19 Aug 2017	IC	IC	IC	IC	IC	IC	IC
23 Aug 2017	IC	IC	IC	IC	IC	IC	IC
28 Aug 2017	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 SBOO 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	I19	I24	I25	I26	I32	I39	I40
02 Aug 2017	IC	IC	IC	IC	ns	IC	IC
03 Aug 2017	ns	ns	ns	ns	IC	ns	ns
10 Aug 2017	IC	IC	IC	IC	IC	IC	IC
19 Aug 2017	IC	IC	IC	IC	IC	IC	IC
23 Aug 2017	IC	IC	IC	IC	IC	IC	IC
28 Aug 2017	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 SBOO 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; oil and grease samples (OG) and suspended solids (SUSO) data are reported as mg/L. Duplicates are indicated by *. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I19	02 Aug 2017	922	2	2e	<2	<2	1.0	19.0	69.09	7.9	33.43	8.2	1.56	7.9
I19	02 Aug 2017	922	6	2e	<2	<2	1.0	15.4	66.94	8.2	33.39	8.1	ns	3.6
I19	02 Aug 2017	922	11	20e	<2	<2	0.1	14.8	57.77	7.2	33.38	8.0	ns	4.5
I19	10 Aug 2017	1057	2	<20	<2	<2	0.1	17.0	77.08	8.0	33.43	8.1	ns	ns
I19	10 Aug 2017	1057	6	<20	<2	<2	0.1	15.9	73.21	8.2	33.41	8.1	ns	ns
I19	10 Aug 2017	1057	11	<20	<2	<2	0.1	14.2	55.91	7.3	33.38	8.0	ns	ns
I19	19 Aug 2017	1106	2	<2	<2	<2	1.0	19.8	79.58	7.9	33.49	8.0	ns	ns
I19	19 Aug 2017	1106	6	<2	<2	<2	1.0	17.8	79.88	7.8	33.48	8.0	ns	ns
I19	19 Aug 2017	1106	11	<2	<2	<2	1.0	15.3	79.16	7.3	33.42	8.0	ns	ns
I19	23 Aug 2017	1122	2	4e	<2	<2	0.5	18.6	82.75	7.8	33.43	8.2	ns	ns
I19	23 Aug 2017	1122	6	<20	<2	<2	0.1	16.1	79.88	7.6	33.40	8.2	ns	ns
I19	23 Aug 2017	1122	11	<20	<2	<2	0.1	13.4	75.78	7.0	33.34	8.1	ns	ns
I19	28 Aug 2017	1119	2	<2	<2	<2	1.0	16.1	79.40	8.1	33.38	8.2	ns	ns
I19	28 Aug 2017	1119	6	<2	<2	<2	1.0	13.5	81.35	7.2	33.36	8.1	ns	ns
I19	28 Aug 2017	1119	11	2e	<2	<2	1.0	13.2	74.56	6.7	33.36	8.1	ns	ns
I24	02 Aug 2017	900	2	<2	<2	<2	1.0	19.0	74.20	8.5	33.46	8.2	0.78	<0.2
I24	02 Aug 2017	900	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	5.9*
I24	02 Aug 2017	900	6	2e	<2	<2	1.0	15.8	64.57	8.3	33.40	8.1	ns	4.5
I24	02 Aug 2017	900	11	2e	<2	<2	1.0	14.7	66.29	7.2	33.37	8.0	ns	4.0
I24	10 Aug 2017	1121	2	2e	<2	<2	1.0	18.7	80.30	8.3	33.46	8.2	ns	ns
I24	10 Aug 2017	1121	6	2e	<2	<2	1.0	14.8	75.61	7.6	33.40	8.0	ns	ns
I24	10 Aug 2017	1121	11	<20	<2	<2	0.1	14.1	71.93	6.6	33.38	7.9	ns	ns
I24	19 Aug 2017	1126	2	2e	<2	<2	1.0	18.6	78.50	7.5	33.52	8.0	ns	ns
I24	19 Aug 2017	1126	6	<2	2e	<2	1.0	15.8	83.81	8.4	33.39	8.0	ns	ns
I24	19 Aug 2017	1126	11	<2	<2	<2	1.0	15.4	79.76	7.8	33.37	8.0	ns	ns
I24	23 Aug 2017	1147	2	<2	<2	<2	1.0	18.6	83.46	7.6	33.46	8.2	ns	ns
I24	23 Aug 2017	1147	6	<2	<2	<2	1.0	13.9	84.70	7.5	33.34	8.2	ns	ns
I24	23 Aug 2017	1147	11	<2	<2	<2	1.0	13.3	83.63	6.7	33.35	8.1	ns	ns
I24	28 Aug 2017	1144	2	<2	<2	<2	1.0	17.4	80.17	8.5	33.39	8.3	ns	ns
I24	28 Aug 2017	1144	6	4e	<2	<2	0.5	15.3	79.55	8.1	33.42	8.2	ns	ns
I24	28 Aug 2017	1144	11	<2	<2	<2	1.0	13.2	78.93	7.0	33.35	8.1	ns	ns
I25	02 Aug 2017	851	2	4e	<2	<2	0.5	18.7	75.85	8.5	33.49	8.2	0.65	4.3
I25	02 Aug 2017	851	6	2e	<2	<2	1.0	15.9	63.75	7.4	33.40	8.0	ns	3.4
I25	02 Aug 2017	851	9	<20	<2	<2	0.1	15.0	63.33	7.3	33.37	8.0	ns	8.0
I25	10 Aug 2017	1131	2	<20	<2	<2	0.1	19.2	77.20	8.4	33.41	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I25	10 Aug 2017	1131	6	<20	<2	<2	0.1	15.4	74.29	7.8	33.39	8.0	ns	ns
I25	10 Aug 2017	1131	9	<2	<2	<2	1.0	14.6	77.33	7.8	33.35	8.0	ns	ns
I25	19 Aug 2017	1134	2	<2	<2	<2	1.0	19.9	82.73	7.8	33.50	8.1	ns	ns
I25	19 Aug 2017	1134	6	<2	<2	<2	1.0	15.3	87.30	8.4	33.34	8.0	ns	ns
I25	19 Aug 2017	1134	9	<2	<2	<2	1.0	15.2	85.87	8.2	33.32	8.0	ns	ns
I25	23 Aug 2017	1155	2	<2	<2	<2	1.0	18.3	83.49	7.4	33.52	8.3	ns	ns
I25	23 Aug 2017	1155	6	<2	<2	<2	1.0	13.8	84.48	7.2	33.35	8.2	ns	ns
I25	23 Aug 2017	1155	9	<2	<2	<2	1.0	13.7	84.30	7.0	33.33	8.1	ns	ns
I25	28 Aug 2017	1203	2	<2	<2	<2	1.0	17.2	81.83	8.4	33.39	8.2	ns	ns
I25	28 Aug 2017	1203	6	<2	<2	<2	1.0	16.6	80.17	8.4	33.38	8.2	ns	ns
I25	28 Aug 2017	1203	9	4e	<2	<2	0.5	13.4	79.78	7.3	33.35	8.1	ns	ns
I26	02 Aug 2017	841	2	<2	<2	<2	1.0	19.3	74.62	8.6	33.48	8.2	1.74	5.4
I26	02 Aug 2017	841	6	<2	<2	<2	1.0	16.0	71.61	8.3	33.41	8.1	ns	<0.2
I26	02 Aug 2017	841	9	<2	<2	<2	1.0	15.3	67.46	7.3	33.39	8.0	ns	3.6
I26	10 Aug 2017	1143	2	<2	<2	<2	1.0	19.0	81.40	8.5	33.40	8.1	ns	ns
I26	10 Aug 2017	1143	6	<2	<2	<2	1.0	16.4	76.61	8.3	33.44	8.1	ns	ns
I26	10 Aug 2017	1143	9	<2	<2	<2	1.0	14.3	70.66	7.4	33.36	7.9	ns	ns
I26	19 Aug 2017	1145	2	<2	<2	<2	1.0	18.8	82.17	8.0	33.48	8.1	ns	ns
I26	19 Aug 2017	1145	6	<2	<2	<2	1.0	14.7	89.13	8.4	33.30	8.0	ns	ns
I26	19 Aug 2017	1145	9	<2	2e	<2	1.0	14.6	85.84	8.2	33.31	8.0	ns	ns
I26	23 Aug 2017	1206	2	<2	<2	<2	1.0	18.8	83.24	7.8	33.47	8.3	ns	ns
I26	23 Aug 2017	1206	6	<2	<2	<2	1.0	14.5	85.61	7.4	33.39	8.2	ns	ns
I26	23 Aug 2017	1206	9	<2	<2	<2	1.0	13.8	87.12	7.2	33.34	8.2	ns	ns
I26	28 Aug 2017	1215	2	2e	<2	<2	1.0	17.4	79.84	8.5	33.40	8.3	ns	ns
I26	28 Aug 2017	1215	6	<2	<2	<2	1.0	16.0	80.36	8.3	33.44	8.2	ns	ns
I26	28 Aug 2017	1215	9	4e	<2	<2	0.5	13.8	82.43	7.3	33.34	8.2	ns	ns
I32	03 Aug 2017	1000	2	20e	<2	2e	0.1	19.7	70.67	7.8	33.47	8.2	1.12	3.2
I32	03 Aug 2017	1000	6	<20	<2	<2	0.1	15.4	69.69	8.7	33.39	8.1	ns	<0.2
I32	03 Aug 2017	1000	9	<2	2e	<2	1.0	14.7	77.18	8.4	33.36	8.1	ns	2.7
I32	10 Aug 2017	1154	2	<20	<2	<2	0.1	18.5	79.39	8.5	33.38	8.1	ns	ns
I32	10 Aug 2017	1154	6	<20	<2	<2	0.1	15.4	69.10	7.4	33.52	8.0	ns	ns
I32	10 Aug 2017	1154	9	<20	<2	<2	0.1	14.4	61.54	7.4	33.36	7.9	ns	ns
I32	19 Aug 2017	1158	2	<20	<2	<2	0.1	19.9	77.66	7.3	33.50	8.0	ns	ns
I32	19 Aug 2017	1158	6	2e	<2	<2	1.0	15.4	80.49	7.8	33.37	8.0	ns	ns
I32	19 Aug 2017	1158	9	<20	<2	<2	0.1	14.8	44.74	6.3	33.38	7.9	ns	ns
I32	23 Aug 2017	1220	2	<2	<2	<2	1.0	18.7	81.05	7.7	33.44	8.2	ns	ns
I32	23 Aug 2017	1220	6	<2	<2	<2	1.0	15.1	82.40	7.5	33.45	8.2	ns	ns
I32	23 Aug 2017	1220	9	<2	2e	<2	1.0	13.9	84.38	7.2	33.38	8.2	ns	ns
I32	28 Aug 2017	1236	2	<2	<2	<2	1.0	16.6	81.15	8.1	33.38	8.2	ns	ns
I32	28 Aug 2017	1236	6	6e	<2	<2	0.3	15.1	78.32	8.1	33.39	8.2	ns	ns
I32	28 Aug 2017	1236	9	6e	<2	<2	0.3	14.1	80.27	7.8	33.35	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I39	02 Aug 2017	829	2	<2	<2	<2	1.0	20.3	77.47	8.5	33.50	8.2	1.37	<0.2
I39	02 Aug 2017	829	12	<2	<2	<2	1.0	14.1	78.87	7.7	33.37	7.9	ns	<0.2
I39	02 Aug 2017	829	18	2e	<2	<2	1.0	13.6	75.31	7.0	33.37	7.9	ns	4.5
I39	10 Aug 2017	1033	2	<2	<2	<2	1.0	18.7	80.93	8.4	33.41	8.1	ns	ns
I39	10 Aug 2017	1033	12	<2	<2	<2	1.0	13.9	83.42	7.4	33.36	8.0	ns	ns
I39	10 Aug 2017	1033	18	<2	<2	<2	1.0	13.4	86.63	5.8	33.39	7.8	ns	ns
I39	19 Aug 2017	1042	2	<20	<2	<2	0.1	19.3	89.07	8.2	33.46	8.1	ns	ns
I39	19 Aug 2017	1042	12	<20	2e	<2	0.1	14.2	89.82	8.1	33.31	8.0	ns	ns
I39	19 Aug 2017	1042	18	<2	<2	2e	1.0	14.2	89.08	8.1	33.33	8.0	ns	ns
I39	23 Aug 2017	1058	2	<2	<2	<2	1.0	18.2	81.40	7.7	33.45	8.2	ns	ns
I39	23 Aug 2017	1058	12	2e	<2	<2	1.0	12.8	91.78	7.0	33.34	8.1	ns	ns
I39	23 Aug 2017	1058	18	<2	<2	<2	1.0	12.8	91.57	6.8	33.36	8.1	ns	ns
I39	28 Aug 2017	1052	2	<2	<2	<2	1.0	17.9	82.02	7.5	33.39	8.2	ns	ns
I39	28 Aug 2017	1052	12	6e	<2	<2	0.3	14.2	79.49	7.9	33.83	8.2	ns	ns
I39	28 Aug 2017	1052	18	<2	<2	<2	1.0	13.0	89.13	6.7	33.68	8.1	ns	ns
I40	02 Aug 2017	909	2	2e	<2	<2	1.0	18.6	68.10	8.0	33.43	8.1	1.41	3.1
I40	02 Aug 2017	909	6	<20	<2	4e	0.1	15.8	60.36	8.0	33.40	8.1	ns	3.8
I40	02 Aug 2017	909	9	<20	<2	<2	0.1	15.0	61.72	7.4	33.37	8.0	ns	5.6
I40	10 Aug 2017	1111	2	<20	<2	<2	0.1	17.8	77.32	7.8	33.43	8.1	ns	ns
I40	10 Aug 2017	1111	6	<2	<2	<2	1.0	14.8	76.30	8.6	33.35	8.1	ns	ns
I40	10 Aug 2017	1111	9	<2	<2	2e	1.0	14.5	70.92	7.8	33.36	8.0	ns	ns
I40	19 Aug 2017	1118	2	20e	2e	4e	0.1	19.2	67.81	7.3	33.52	8.0	ns	ns
I40	19 Aug 2017	1118	6	2e	<2	<2	1.0	16.4	61.58	7.2	33.44	8.0	ns	ns
I40	19 Aug 2017	1118	9	<20	<2	<2	0.1	14.8	63.13	6.4	33.39	7.9	ns	ns
I40	23 Aug 2017	1137	2	<20	<2	<2	0.1	18.0	78.92	7.6	33.48	8.2	ns	ns
I40	23 Aug 2017	1137	6	<20	2e	<2	0.1	14.4	81.62	7.6	33.34	8.2	ns	ns
I40	23 Aug 2017	1137	9	<20	<2	<2	0.1	14.0	73.71	7.2	33.35	8.2	ns	ns
I40	28 Aug 2017	1132	2	<2	<2	<2	1.0	16.1	76.44	8.2	33.36	8.2	ns	ns
I40	28 Aug 2017	1132	6	<2	<2	<2	1.0	14.1	74.70	7.2	33.36	8.1	ns	ns
I40	28 Aug 2017	1132	9	<20	<2	<2	0.1	13.3	75.75	6.8	33.35	8.1	ns	ns

ns = not sampled

ND = no data

Table 3.9

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

Station	Date	Parameter	Value
I19	02 Aug 2017	Depth (m)	11
I19	02 Aug 2017	Arrive Time	922
I19	02 Aug 2017	Depart Time	929
I19	02 Aug 2017	Air Temp (C)	20
I19	02 Aug 2017	Weather	Haze
I19	02 Aug 2017	Visibility (mi)	9
I19	02 Aug 2017	Wind Speed (kts)	1
I19	02 Aug 2017	Wind Dir	NE
I19	02 Aug 2017	Water Color	Green
I19	02 Aug 2017	Wave Ht Low (ft)	4
I19	02 Aug 2017	Wave Period (sec)	13
I19	02 Aug 2017	Sea State	Wind ripples
I19	02 Aug 2017	High Tide (ft)	3.3
I19	02 Aug 2017	High Tide Time	737
I19	02 Aug 2017	Low Tide (ft)	2.3
I19	02 Aug 2017	Low Tide Time	1217
I19	02 Aug 2017	Comments	
I19	10 Aug 2017	Depth (m)	11
I19	10 Aug 2017	Arrive Time	1057
I19	10 Aug 2017	Depart Time	1101
I19	10 Aug 2017	Air Temp (C)	19
I19	10 Aug 2017	Weather	Partly Cloudy
I19	10 Aug 2017	Visibility (mi)	9
I19	10 Aug 2017	Wind Speed (kts)	6
I19	10 Aug 2017	Wind Dir	W
I19	10 Aug 2017	Water Color	Green
I19	10 Aug 2017	Wave Ht Low (ft)	4
I19	10 Aug 2017	Wave Period (sec)	4
I19	10 Aug 2017	Sea State	Calm
I19	10 Aug 2017	High Tide (ft)	4.6
I19	10 Aug 2017	High Tide Time	1146
I19	10 Aug 2017	Low Tide (ft)	-0.1
I19	10 Aug 2017	Low Tide Time	532
I19	10 Aug 2017	Comments	
I19	19 Aug 2017	Depth (m)	11
I19	19 Aug 2017	Arrive Time	1106
I19	19 Aug 2017	Depart Time	1110
I19	19 Aug 2017	Air Temp (C)	20
I19	19 Aug 2017	Weather	Overcast
I19	19 Aug 2017	Visibility (mi)	9
I19	19 Aug 2017	Wind Speed (kts)	6
I19	19 Aug 2017	Wind Dir	SW
I19	19 Aug 2017	Water Color	Green
I19	19 Aug 2017	Wave Ht Low (ft)	4
I19	19 Aug 2017	Wave Period (sec)	13
I19	19 Aug 2017	Sea State	Calm
I19	19 Aug 2017	High Tide (ft)	4.4
I19	19 Aug 2017	High Tide Time	839
I19	19 Aug 2017	Low Tide (ft)	1.5

Station	Date	Parameter	Value
I19	19 Aug 2017	Low Tide Time	1358
I19	19 Aug 2017	Comments	
I19	23 Aug 2017	Depth (m)	12
I19	23 Aug 2017	Arrive Time	1122
I19	23 Aug 2017	Depart Time	1127
I19	23 Aug 2017	Air Temp (C)	19
I19	23 Aug 2017	Weather	Haze
I19	23 Aug 2017	Visibility (mi)	3
I19	23 Aug 2017	Wind Speed (kts)	7
I19	23 Aug 2017	Wind Dir	NW
I19	23 Aug 2017	Water Color	Greenish-Blue
I19	23 Aug 2017	Wave Ht Low (ft)	3
I19	23 Aug 2017	Wave Period (sec)	9
I19	23 Aug 2017	Sea State	Confused swell
I19	23 Aug 2017	High Tide (ft)	5
I19	23 Aug 2017	High Tide Time	1106
I19	23 Aug 2017	Low Tide (ft)	-0.4
I19	23 Aug 2017	Low Tide Time	456
I19	23 Aug 2017	Comments	
I19	28 Aug 2017	Depth (m)	12
I19	28 Aug 2017	Arrive Time	1119
I19	28 Aug 2017	Depart Time	1121
I19	28 Aug 2017	Air Temp (C)	19
I19	28 Aug 2017	Weather	Partly Cloudy
I19	28 Aug 2017	Visibility (mi)	11
I19	28 Aug 2017	Wind Speed (kts)	8
I19	28 Aug 2017	Wind Dir	NE
I19	28 Aug 2017	Water Color	Brownish-Green
I19	28 Aug 2017	Wave Ht Low (ft)	3
I19	28 Aug 2017	Wave Period (sec)	11
I19	28 Aug 2017	Sea State	Light chop
I19	28 Aug 2017	High Tide (ft)	4.4
I19	28 Aug 2017	High Tide Time	1446
I19	28 Aug 2017	Low Tide (ft)	2.3
I19	28 Aug 2017	Low Tide Time	802
I19	28 Aug 2017	Comments	
I24	02 Aug 2017	Depth (m)	10
I24	02 Aug 2017	Arrive Time	900
I24	02 Aug 2017	Depart Time	906
I24	02 Aug 2017	Air Temp (C)	20
I24	02 Aug 2017	Weather	Partly Cloudy
I24	02 Aug 2017	Visibility (mi)	8
I24	02 Aug 2017	Wind Speed (kts)	2
I24	02 Aug 2017	Wind Dir	W
I24	02 Aug 2017	Water Color	Green
I24	02 Aug 2017	Wave Ht Low (ft)	4
I24	02 Aug 2017	Wave Period (sec)	13
I24	02 Aug 2017	Sea State	Wind ripples
I24	02 Aug 2017	High Tide (ft)	3.3
I24	02 Aug 2017	High Tide Time	737
I24	02 Aug 2017	Low Tide (ft)	2.3
I24	02 Aug 2017	Low Tide Time	1217

Station	Date	Parameter	Value
I24	02 Aug 2017	Comments	Unable to obtain station depth
I24	10 Aug 2017	Depth (m)	12
I24	10 Aug 2017	Arrive Time	1121
I24	10 Aug 2017	Depart Time	1126
I24	10 Aug 2017	Air Temp (C)	19
I24	10 Aug 2017	Weather	Clear
I24	10 Aug 2017	Visibility (mi)	11
I24	10 Aug 2017	Wind Speed (kts)	7
I24	10 Aug 2017	Wind Dir	SW
I24	10 Aug 2017	Water Color	Green
I24	10 Aug 2017	Wave Ht Low (ft)	4
I24	10 Aug 2017	Wave Period (sec)	4
I24	10 Aug 2017	Sea State	Calm
I24	10 Aug 2017	High Tide (ft)	4.6
I24	10 Aug 2017	High Tide Time	1146
I24	10 Aug 2017	Low Tide (ft)	-0.1
I24	10 Aug 2017	Low Tide Time	532
I24	10 Aug 2017	Comments	
I24	19 Aug 2017	Depth (m)	11
I24	19 Aug 2017	Arrive Time	1126
I24	19 Aug 2017	Depart Time	1130
I24	19 Aug 2017	Air Temp (C)	20
I24	19 Aug 2017	Weather	Overcast
I24	19 Aug 2017	Visibility (mi)	9
I24	19 Aug 2017	Wind Speed (kts)	7
I24	19 Aug 2017	Wind Dir	S
I24	19 Aug 2017	Water Color	Green
I24	19 Aug 2017	Wave Ht Low (ft)	4
I24	19 Aug 2017	Wave Period (sec)	13
I24	19 Aug 2017	Sea State	Calm
I24	19 Aug 2017	High Tide (ft)	4.4
I24	19 Aug 2017	High Tide Time	839
I24	19 Aug 2017	Low Tide (ft)	1.5
I24	19 Aug 2017	Low Tide Time	1358
I24	19 Aug 2017	Comments	
I24	23 Aug 2017	Depth (m)	12
I24	23 Aug 2017	Arrive Time	1147
I24	23 Aug 2017	Depart Time	1150
I24	23 Aug 2017	Air Temp (C)	19
I24	23 Aug 2017	Weather	Haze
I24	23 Aug 2017	Visibility (mi)	3
I24	23 Aug 2017	Wind Speed (kts)	8
I24	23 Aug 2017	Wind Dir	SW
I24	23 Aug 2017	Water Color	Greenish-Blue
I24	23 Aug 2017	Wave Ht Low (ft)	3
I24	23 Aug 2017	Wave Period (sec)	9
I24	23 Aug 2017	Sea State	Confused swell
I24	23 Aug 2017	High Tide (ft)	5
I24	23 Aug 2017	High Tide Time	1106
I24	23 Aug 2017	Low Tide (ft)	-0.4
I24	23 Aug 2017	Low Tide Time	456
I24	23 Aug 2017	Comments	

Station	Date	Parameter	Value
I24	28 Aug 2017	Depth (m)	11
I24	28 Aug 2017	Arrive Time	1144
I24	28 Aug 2017	Depart Time	1155
I24	28 Aug 2017	Air Temp (C)	19
I24	28 Aug 2017	Weather	Partly Cloudy
I24	28 Aug 2017	Visibility (mi)	11
I24	28 Aug 2017	Wind Speed (kts)	10
I24	28 Aug 2017	Wind Dir	N
I24	28 Aug 2017	Water Color	Brownish-Green
I24	28 Aug 2017	Wave Ht Low (ft)	3
I24	28 Aug 2017	Wave Period (sec)	11
I24	28 Aug 2017	Sea State	Light chop
I24	28 Aug 2017	High Tide (ft)	4.4
I24	28 Aug 2017	High Tide Time	1446
I24	28 Aug 2017	Low Tide (ft)	2.3
I24	28 Aug 2017	Low Tide Time	802
I24	28 Aug 2017	Comments	
I25	02 Aug 2017	Depth (m)	9
I25	02 Aug 2017	Arrive Time	851
I25	02 Aug 2017	Depart Time	857
I25	02 Aug 2017	Air Temp (C)	20
I25	02 Aug 2017	Weather	Partly Cloudy
I25	02 Aug 2017	Visibility (mi)	8
I25	02 Aug 2017	Wind Speed (kts)	0
I25	02 Aug 2017	Wind Dir	
I25	02 Aug 2017	Water Color	Green
I25	02 Aug 2017	Wave Ht Low (ft)	4
I25	02 Aug 2017	Wave Period (sec)	13
I25	02 Aug 2017	Sea State	Wind ripples
I25	02 Aug 2017	High Tide (ft)	3.3
I25	02 Aug 2017	High Tide Time	737
I25	02 Aug 2017	Low Tide (ft)	2.3
I25	02 Aug 2017	Low Tide Time	1217
I25	02 Aug 2017	Comments	
I25	10 Aug 2017	Depth (m)	10
I25	10 Aug 2017	Arrive Time	1131
I25	10 Aug 2017	Depart Time	1136
I25	10 Aug 2017	Air Temp (C)	19
I25	10 Aug 2017	Weather	Clear
I25	10 Aug 2017	Visibility (mi)	11
I25	10 Aug 2017	Wind Speed (kts)	6
I25	10 Aug 2017	Wind Dir	S
I25	10 Aug 2017	Water Color	Green
I25	10 Aug 2017	Wave Ht Low (ft)	4
I25	10 Aug 2017	Wave Period (sec)	4
I25	10 Aug 2017	Sea State	Calm
I25	10 Aug 2017	High Tide (ft)	4.6
I25	10 Aug 2017	High Tide Time	1146
I25	10 Aug 2017	Low Tide (ft)	-0.1
I25	10 Aug 2017	Low Tide Time	532
I25	10 Aug 2017	Comments	

Station	Date	Parameter	Value
I25	19 Aug 2017	Depth (m)	10
I25	19 Aug 2017	Arrive Time	1134
I25	19 Aug 2017	Depart Time	1139
I25	19 Aug 2017	Air Temp (C)	20
I25	19 Aug 2017	Weather	Overcast
I25	19 Aug 2017	Visibility (mi)	9
I25	19 Aug 2017	Wind Speed (kts)	8
I25	19 Aug 2017	Wind Dir	SW
I25	19 Aug 2017	Water Color	Green
I25	19 Aug 2017	Wave Ht Low (ft)	4
I25	19 Aug 2017	Wave Period (sec)	13
I25	19 Aug 2017	Sea State	Calm
I25	19 Aug 2017	High Tide (ft)	4.4
I25	19 Aug 2017	High Tide Time	839
I25	19 Aug 2017	Low Tide (ft)	1.5
I25	19 Aug 2017	Low Tide Time	1358
I25	19 Aug 2017	Comments	
I25	23 Aug 2017	Depth (m)	11
I25	23 Aug 2017	Arrive Time	1155
I25	23 Aug 2017	Depart Time	1159
I25	23 Aug 2017	Air Temp (C)	19
I25	23 Aug 2017	Weather	Haze
I25	23 Aug 2017	Visibility (mi)	3
I25	23 Aug 2017	Wind Speed (kts)	7
I25	23 Aug 2017	Wind Dir	NW
I25	23 Aug 2017	Water Color	Greenish-Blue
I25	23 Aug 2017	Wave Ht Low (ft)	3
I25	23 Aug 2017	Wave Period (sec)	9
I25	23 Aug 2017	Sea State	Confused swell
I25	23 Aug 2017	High Tide (ft)	5
I25	23 Aug 2017	High Tide Time	1106
I25	23 Aug 2017	Low Tide (ft)	-0.4
I25	23 Aug 2017	Low Tide Time	456
I25	23 Aug 2017	Comments	
I25	28 Aug 2017	Depth (m)	9
I25	28 Aug 2017	Arrive Time	1203
I25	28 Aug 2017	Depart Time	1205
I25	28 Aug 2017	Air Temp (C)	19
I25	28 Aug 2017	Weather	Partly Cloudy
I25	28 Aug 2017	Visibility (mi)	11
I25	28 Aug 2017	Wind Speed (kts)	10
I25	28 Aug 2017	Wind Dir	N
I25	28 Aug 2017	Water Color	Greenish-Brown
I25	28 Aug 2017	Wave Ht Low (ft)	3
I25	28 Aug 2017	Wave Period (sec)	11
I25	28 Aug 2017	Sea State	Light chop
I25	28 Aug 2017	High Tide (ft)	4.4
I25	28 Aug 2017	High Tide Time	1446
I25	28 Aug 2017	Low Tide (ft)	2.3
I25	28 Aug 2017	Low Tide Time	802
I25	28 Aug 2017	Comments	
I26	02 Aug 2017	Depth (m)	9

Station	Date	Parameter	Value
I26	02 Aug 2017	Arrive Time	841
I26	02 Aug 2017	Depart Time	848
I26	02 Aug 2017	Air Temp (C)	21
I26	02 Aug 2017	Weather	Partly Cloudy
I26	02 Aug 2017	Visibility (mi)	8
I26	02 Aug 2017	Wind Speed (kts)	0
I26	02 Aug 2017	Wind Dir	
I26	02 Aug 2017	Water Color	Green
I26	02 Aug 2017	Wave Ht Low (ft)	4
I26	02 Aug 2017	Wave Period (sec)	13
I26	02 Aug 2017	Sea State	Wind ripples
I26	02 Aug 2017	High Tide (ft)	3.3
I26	02 Aug 2017	High Tide Time	737
I26	02 Aug 2017	Low Tide (ft)	2.3
I26	02 Aug 2017	Low Tide Time	1217
I26	02 Aug 2017	Comments	
I26	10 Aug 2017	Depth (m)	10
I26	10 Aug 2017	Arrive Time	1143
I26	10 Aug 2017	Depart Time	1148
I26	10 Aug 2017	Air Temp (C)	19
I26	10 Aug 2017	Weather	Clear
I26	10 Aug 2017	Visibility (mi)	11
I26	10 Aug 2017	Wind Speed (kts)	5
I26	10 Aug 2017	Wind Dir	SE
I26	10 Aug 2017	Water Color	Green
I26	10 Aug 2017	Wave Ht Low (ft)	4
I26	10 Aug 2017	Wave Period (sec)	4
I26	10 Aug 2017	Sea State	Calm
I26	10 Aug 2017	High Tide (ft)	4.6
I26	10 Aug 2017	High Tide Time	1146
I26	10 Aug 2017	Low Tide (ft)	-0.1
I26	10 Aug 2017	Low Tide Time	532
I26	10 Aug 2017	Comments	
I26	19 Aug 2017	Depth (m)	10
I26	19 Aug 2017	Arrive Time	1145
I26	19 Aug 2017	Depart Time	1150
I26	19 Aug 2017	Air Temp (C)	20
I26	19 Aug 2017	Weather	Overcast
I26	19 Aug 2017	Visibility (mi)	9
I26	19 Aug 2017	Wind Speed (kts)	7
I26	19 Aug 2017	Wind Dir	SW
I26	19 Aug 2017	Water Color	Green
I26	19 Aug 2017	Wave Ht Low (ft)	4
I26	19 Aug 2017	Wave Period (sec)	13
I26	19 Aug 2017	Sea State	Calm
I26	19 Aug 2017	High Tide (ft)	4.4
I26	19 Aug 2017	High Tide Time	839
I26	19 Aug 2017	Low Tide (ft)	1.5
I26	19 Aug 2017	Low Tide Time	1358
I26	19 Aug 2017	Comments	Boats
I26	23 Aug 2017	Depth (m)	11
I26	23 Aug 2017	Arrive Time	1206

Station	Date	Parameter	Value
I26	23 Aug 2017	Depart Time	1210
I26	23 Aug 2017	Air Temp (C)	19
I26	23 Aug 2017	Weather	Haze
I26	23 Aug 2017	Visibility (mi)	5
I26	23 Aug 2017	Wind Speed (kts)	8
I26	23 Aug 2017	Wind Dir	E
I26	23 Aug 2017	Water Color	Greenish-Blue
I26	23 Aug 2017	Wave Ht Low (ft)	3
I26	23 Aug 2017	Wave Period (sec)	9
I26	23 Aug 2017	Sea State	Confused swell
I26	23 Aug 2017	High Tide (ft)	5
I26	23 Aug 2017	High Tide Time	1106
I26	23 Aug 2017	Low Tide (ft)	-0.4
I26	23 Aug 2017	Low Tide Time	456
I26	23 Aug 2017	Comments	
I26	28 Aug 2017	Depth (m)	10
I26	28 Aug 2017	Arrive Time	1215
I26	28 Aug 2017	Depart Time	1222
I26	28 Aug 2017	Air Temp (C)	19
I26	28 Aug 2017	Weather	Partly Cloudy
I26	28 Aug 2017	Visibility (mi)	11
I26	28 Aug 2017	Wind Speed (kts)	10
I26	28 Aug 2017	Wind Dir	E
I26	28 Aug 2017	Water Color	Greenish-Brown
I26	28 Aug 2017	Wave Ht Low (ft)	3
I26	28 Aug 2017	Wave Period (sec)	11
I26	28 Aug 2017	Sea State	Light chop
I26	28 Aug 2017	High Tide (ft)	4.4
I26	28 Aug 2017	High Tide Time	1446
I26	28 Aug 2017	Low Tide (ft)	2.3
I26	28 Aug 2017	Low Tide Time	802
I26	28 Aug 2017	Comments	
I32	03 Aug 2017	Depth (m)	10
I32	03 Aug 2017	Arrive Time	1000
I32	03 Aug 2017	Depart Time	1004
I32	03 Aug 2017	Air Temp (C)	21
I32	03 Aug 2017	Weather	Fog
I32	03 Aug 2017	Visibility (mi)	3
I32	03 Aug 2017	Wind Speed (kts)	4
I32	03 Aug 2017	Wind Dir	E
I32	03 Aug 2017	Water Color	Green
I32	03 Aug 2017	Wave Ht Low (ft)	4
I32	03 Aug 2017	Wave Period (sec)	13
I32	03 Aug 2017	Sea State	Calm
I32	03 Aug 2017	High Tide (ft)	3.5
I32	03 Aug 2017	High Tide Time	816
I32	03 Aug 2017	Low Tide (ft)	2.2
I32	03 Aug 2017	Low Tide Time	1305
I32	03 Aug 2017	Comments	
I32	10 Aug 2017	Depth (m)	10
I32	10 Aug 2017	Arrive Time	1154
I32	10 Aug 2017	Depart Time	1159

Station	Date	Parameter	Value
I32	10 Aug 2017	Air Temp (C)	19
I32	10 Aug 2017	Weather	Clear
I32	10 Aug 2017	Visibility (mi)	12
I32	10 Aug 2017	Wind Speed (kts)	5
I32	10 Aug 2017	Wind Dir	NE
I32	10 Aug 2017	Water Color	Green
I32	10 Aug 2017	Wave Ht Low (ft)	4
I32	10 Aug 2017	Wave Period (sec)	4
I32	10 Aug 2017	Sea State	Calm
I32	10 Aug 2017	High Tide (ft)	4.6
I32	10 Aug 2017	High Tide Time	1146
I32	10 Aug 2017	Low Tide (ft)	-0.1
I32	10 Aug 2017	Low Tide Time	532
I32	10 Aug 2017	Comments	
I32	19 Aug 2017	Depth (m)	11
I32	19 Aug 2017	Arrive Time	1158
I32	19 Aug 2017	Depart Time	1204
I32	19 Aug 2017	Air Temp (C)	20
I32	19 Aug 2017	Weather	Overcast
I32	19 Aug 2017	Visibility (mi)	9
I32	19 Aug 2017	Wind Speed (kts)	8
I32	19 Aug 2017	Wind Dir	S
I32	19 Aug 2017	Water Color	Green
I32	19 Aug 2017	Wave Ht Low (ft)	4
I32	19 Aug 2017	Wave Period (sec)	13
I32	19 Aug 2017	Sea State	Calm
I32	19 Aug 2017	High Tide (ft)	4.4
I32	19 Aug 2017	High Tide Time	839
I32	19 Aug 2017	Low Tide (ft)	1.5
I32	19 Aug 2017	Low Tide Time	1358
I32	19 Aug 2017	Comments	
I32	23 Aug 2017	Depth (m)	11
I32	23 Aug 2017	Arrive Time	1220
I32	23 Aug 2017	Depart Time	1223
I32	23 Aug 2017	Air Temp (C)	19
I32	23 Aug 2017	Weather	Haze
I32	23 Aug 2017	Visibility (mi)	5
I32	23 Aug 2017	Wind Speed (kts)	9
I32	23 Aug 2017	Wind Dir	E
I32	23 Aug 2017	Water Color	Greenish-Blue
I32	23 Aug 2017	Wave Ht Low (ft)	3
I32	23 Aug 2017	Wave Period (sec)	9
I32	23 Aug 2017	Sea State	Confused swell
I32	23 Aug 2017	High Tide (ft)	5
I32	23 Aug 2017	High Tide Time	1106
I32	23 Aug 2017	Low Tide (ft)	-0.4
I32	23 Aug 2017	Low Tide Time	456
I32	23 Aug 2017	Comments	none
I32	28 Aug 2017	Depth (m)	11
I32	28 Aug 2017	Arrive Time	1236
I32	28 Aug 2017	Depart Time	1238
I32	28 Aug 2017	Air Temp (C)	19

Station	Date	Parameter	Value
I32	28 Aug 2017	Weather	Partly Cloudy
I32	28 Aug 2017	Visibility (mi)	11
I32	28 Aug 2017	Wind Speed (kts)	10
I32	28 Aug 2017	Wind Dir	SW
I32	28 Aug 2017	Water Color	Greenish-Brown
I32	28 Aug 2017	Wave Ht Low (ft)	3
I32	28 Aug 2017	Wave Period (sec)	11
I32	28 Aug 2017	Sea State	Light chop
I32	28 Aug 2017	High Tide (ft)	4.4
I32	28 Aug 2017	High Tide Time	1446
I32	28 Aug 2017	Low Tide (ft)	2.3
I32	28 Aug 2017	Low Tide Time	802
I32	28 Aug 2017	Comments	
I39	02 Aug 2017	Depth (m)	18
I39	02 Aug 2017	Arrive Time	829
I39	02 Aug 2017	Depart Time	836
I39	02 Aug 2017	Air Temp (C)	21
I39	02 Aug 2017	Weather	Partly Cloudy
I39	02 Aug 2017	Visibility (mi)	8
I39	02 Aug 2017	Wind Speed (kts)	2
I39	02 Aug 2017	Wind Dir	S
I39	02 Aug 2017	Water Color	Green
I39	02 Aug 2017	Wave Ht Low (ft)	4
I39	02 Aug 2017	Wave Period (sec)	13
I39	02 Aug 2017	Sea State	Wind ripples
I39	02 Aug 2017	High Tide (ft)	3.3
I39	02 Aug 2017	High Tide Time	737
I39	02 Aug 2017	Low Tide (ft)	2.3
I39	02 Aug 2017	Low Tide Time	1217
I39	02 Aug 2017	Comments	
I39	10 Aug 2017	Depth (m)	19
I39	10 Aug 2017	Arrive Time	1033
I39	10 Aug 2017	Depart Time	1038
I39	10 Aug 2017	Air Temp (C)	19
I39	10 Aug 2017	Weather	Partly Cloudy
I39	10 Aug 2017	Visibility (mi)	9
I39	10 Aug 2017	Wind Speed (kts)	6
I39	10 Aug 2017	Wind Dir	E
I39	10 Aug 2017	Water Color	Green
I39	10 Aug 2017	Wave Ht Low (ft)	4
I39	10 Aug 2017	Wave Period (sec)	4
I39	10 Aug 2017	Sea State	Calm
I39	10 Aug 2017	High Tide (ft)	4.6
I39	10 Aug 2017	High Tide Time	1146
I39	10 Aug 2017	Low Tide (ft)	-0.1
I39	10 Aug 2017	Low Tide Time	532
I39	10 Aug 2017	Comments	
I39	19 Aug 2017	Depth (m)	20
I39	19 Aug 2017	Arrive Time	1042
I39	19 Aug 2017	Depart Time	1100
I39	19 Aug 2017	Air Temp (C)	20
I39	19 Aug 2017	Weather	Overcast

Station	Date	Parameter	Value
I39	19 Aug 2017	Visibility (mi)	9
I39	19 Aug 2017	Wind Speed (kts)	4
I39	19 Aug 2017	Wind Dir	W
I39	19 Aug 2017	Water Color	Green
I39	19 Aug 2017	Wave Ht Low (ft)	4
I39	19 Aug 2017	Wave Period (sec)	13
I39	19 Aug 2017	Sea State	Calm
I39	19 Aug 2017	High Tide (ft)	4.4
I39	19 Aug 2017	High Tide Time	839
I39	19 Aug 2017	Low Tide (ft)	1.5
I39	19 Aug 2017	Low Tide Time	1358
I39	19 Aug 2017	Comments	
I39	23 Aug 2017	Depth (m)	20
I39	23 Aug 2017	Arrive Time	1058
I39	23 Aug 2017	Depart Time	1103
I39	23 Aug 2017	Air Temp (C)	19
I39	23 Aug 2017	Weather	Haze
I39	23 Aug 2017	Visibility (mi)	3
I39	23 Aug 2017	Wind Speed (kts)	8
I39	23 Aug 2017	Wind Dir	N
I39	23 Aug 2017	Water Color	Greenish-Blue
I39	23 Aug 2017	Wave Ht Low (ft)	3
I39	23 Aug 2017	Wave Period (sec)	9
I39	23 Aug 2017	Sea State	Confused swell
I39	23 Aug 2017	High Tide (ft)	5
I39	23 Aug 2017	High Tide Time	1106
I39	23 Aug 2017	Low Tide (ft)	-0.4
I39	23 Aug 2017	Low Tide Time	456
I39	23 Aug 2017	Comments	
I39	28 Aug 2017	Depth (m)	19
I39	28 Aug 2017	Arrive Time	1052
I39	28 Aug 2017	Depart Time	1056
I39	28 Aug 2017	Air Temp (C)	19
I39	28 Aug 2017	Weather	Partly Cloudy
I39	28 Aug 2017	Visibility (mi)	11
I39	28 Aug 2017	Wind Speed (kts)	9
I39	28 Aug 2017	Wind Dir	E
I39	28 Aug 2017	Water Color	Green
I39	28 Aug 2017	Wave Ht Low (ft)	3
I39	28 Aug 2017	Wave Period (sec)	11
I39	28 Aug 2017	Sea State	Light chop
I39	28 Aug 2017	High Tide (ft)	4.4
I39	28 Aug 2017	High Tide Time	1446
I39	28 Aug 2017	Low Tide (ft)	2.3
I39	28 Aug 2017	Low Tide Time	802
I39	28 Aug 2017	Comments	Kelp
I40	02 Aug 2017	Depth (m)	10
I40	02 Aug 2017	Arrive Time	909
I40	02 Aug 2017	Depart Time	914
I40	02 Aug 2017	Air Temp (C)	20
I40	02 Aug 2017	Weather	Haze
I40	02 Aug 2017	Visibility (mi)	9

Station	Date	Parameter	Value
I40	02 Aug 2017	Wind Speed (kts)	2
I40	02 Aug 2017	Wind Dir	N
I40	02 Aug 2017	Water Color	Green
I40	02 Aug 2017	Wave Ht Low (ft)	4
I40	02 Aug 2017	Wave Period (sec)	13
I40	02 Aug 2017	Sea State	Wind ripples
I40	02 Aug 2017	High Tide (ft)	3.3
I40	02 Aug 2017	High Tide Time	737
I40	02 Aug 2017	Low Tide (ft)	2.3
I40	02 Aug 2017	Low Tide Time	1217
I40	02 Aug 2017	Comments	
I40	10 Aug 2017	Depth (m)	11
I40	10 Aug 2017	Arrive Time	1111
I40	10 Aug 2017	Depart Time	1119
I40	10 Aug 2017	Air Temp (C)	19
I40	10 Aug 2017	Weather	Clear
I40	10 Aug 2017	Visibility (mi)	11
I40	10 Aug 2017	Wind Speed (kts)	4
I40	10 Aug 2017	Wind Dir	SE
I40	10 Aug 2017	Water Color	Green
I40	10 Aug 2017	Wave Ht Low (ft)	4
I40	10 Aug 2017	Wave Period (sec)	4
I40	10 Aug 2017	Sea State	Calm
I40	10 Aug 2017	High Tide (ft)	4.6
I40	10 Aug 2017	High Tide Time	1146
I40	10 Aug 2017	Low Tide (ft)	-0.1
I40	10 Aug 2017	Low Tide Time	532
I40	10 Aug 2017	Comments	
I40	19 Aug 2017	Depth (m)	11
I40	19 Aug 2017	Arrive Time	1118
I40	19 Aug 2017	Depart Time	1122
I40	19 Aug 2017	Air Temp (C)	20
I40	19 Aug 2017	Weather	Overcast
I40	19 Aug 2017	Visibility (mi)	9
I40	19 Aug 2017	Wind Speed (kts)	7
I40	19 Aug 2017	Wind Dir	NW
I40	19 Aug 2017	Water Color	Green
I40	19 Aug 2017	Wave Ht Low (ft)	4
I40	19 Aug 2017	Wave Period (sec)	13
I40	19 Aug 2017	Sea State	Calm
I40	19 Aug 2017	High Tide (ft)	4.4
I40	19 Aug 2017	High Tide Time	839
I40	19 Aug 2017	Low Tide (ft)	1.5
I40	19 Aug 2017	Low Tide Time	1358
I40	19 Aug 2017	Comments	Boats
I40	23 Aug 2017	Depth (m)	11
I40	23 Aug 2017	Arrive Time	1137
I40	23 Aug 2017	Depart Time	1141
I40	23 Aug 2017	Air Temp (C)	19
I40	23 Aug 2017	Weather	Haze
I40	23 Aug 2017	Visibility (mi)	3
I40	23 Aug 2017	Wind Speed (kts)	10

Station	Date	Parameter	Value
I40	23 Aug 2017	Wind Dir	S
I40	23 Aug 2017	Water Color	Greenish-Blue
I40	23 Aug 2017	Wave Ht Low (ft)	3
I40	23 Aug 2017	Wave Period (sec)	9
I40	23 Aug 2017	Sea State	Confused swell
I40	23 Aug 2017	High Tide (ft)	5
I40	23 Aug 2017	High Tide Time	1106
I40	23 Aug 2017	Low Tide (ft)	-0.4
I40	23 Aug 2017	Low Tide Time	456
I40	23 Aug 2017	Comments	
I40	28 Aug 2017	Depth (m)	11
I40	28 Aug 2017	Arrive Time	1132
I40	28 Aug 2017	Depart Time	1135
I40	28 Aug 2017	Air Temp (C)	19
I40	28 Aug 2017	Weather	Partly Cloudy
I40	28 Aug 2017	Visibility (mi)	11
I40	28 Aug 2017	Wind Speed (kts)	9
I40	28 Aug 2017	Wind Dir	NE
I40	28 Aug 2017	Water Color	Brownish-Green
I40	28 Aug 2017	Wave Ht Low (ft)	3
I40	28 Aug 2017	Wave Period (sec)	11
I40	28 Aug 2017	Sea State	Light chop
I40	28 Aug 2017	High Tide (ft)	4.4
I40	28 Aug 2017	High Tide Time	1446
I40	28 Aug 2017	Low Tide (ft)	2.3
I40	28 Aug 2017	Low Tide Time	802
I40	28 Aug 2017	Comments	

Table 3.10

Summary of CTD profile data from the SBOO 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)
I19	02 Aug 2017	1	19.12	69.24	8.1	33.44	8.2	23.8	1.57
I19	02 Aug 2017	2	19.01	69.09	7.9	33.43	8.2	23.8	1.60
I19	02 Aug 2017	3	17.74	69.28	7.9	33.53	8.2	24.2	1.94
I19	02 Aug 2017	4	15.98	66.99	8.4	33.43	8.1	24.5	2.94
I19	02 Aug 2017	5	15.61	65.61	8.4	33.38	8.1	24.6	4.09
I19	02 Aug 2017	6	15.44	66.94	8.2	33.39	8.1	24.6	4.97
I19	02 Aug 2017	7	15.08	65.40	7.9	33.37	8.1	24.7	6.13
I19	02 Aug 2017	8	15.05	62.88	7.7	33.37	8.0	24.7	6.72
I19	02 Aug 2017	9	14.97	63.08	7.5	33.37	8.0	24.7	6.71
I19	02 Aug 2017	10	14.84	57.77	7.2	33.38	8.0	24.8	6.01
I19	10 Aug 2017	1	17.15	77.10	8.0	33.33	8.1	24.2	1.14
I19	10 Aug 2017	2	17.03	77.08	8.0	33.43	8.1	24.3	1.16
I19	10 Aug 2017	3	16.93	76.40	8.1	33.35	8.1	24.3	1.31
I19	10 Aug 2017	4	16.71	75.21	8.1	33.43	8.1	24.4	1.41
I19	10 Aug 2017	5	16.14	73.97	8.1	33.46	8.1	24.5	1.74
I19	10 Aug 2017	6	15.88	73.21	8.2	33.41	8.1	24.5	2.37
I19	10 Aug 2017	7	15.38	67.17	8.0	33.48	8.0	24.7	3.48
I19	10 Aug 2017	8	14.54	64.04	7.9	33.43	8.0	24.9	3.66
I19	10 Aug 2017	9	14.36	63.24	7.5	33.40	8.0	24.9	4.54
I19	10 Aug 2017	10	14.24	55.91	7.3	33.38	8.0	24.9	5.50
I19	19 Aug 2017	1	19.93	79.41	7.9	33.48	8.0	23.6	1.08
I19	19 Aug 2017	2	19.75	79.58	7.9	33.49	8.0	23.7	1.10
I19	19 Aug 2017	3	19.48	79.97	7.8	33.48	8.0	23.7	1.23
I19	19 Aug 2017	4	18.55	79.52	7.9	33.50	8.0	24.0	1.36
I19	19 Aug 2017	5	18.31	80.06	7.9	33.43	8.0	24.0	1.41
I19	19 Aug 2017	6	17.80	79.88	7.8	33.48	8.0	24.2	1.50
I19	19 Aug 2017	7	17.19	79.48	7.9	33.45	8.0	24.3	1.69
I19	19 Aug 2017	8	17.21	79.36	7.8	33.39	8.0	24.2	1.98
I19	19 Aug 2017	9	16.24	79.46	7.5	33.47	8.0	24.5	2.25
I19	19 Aug 2017	10	15.34	79.16	7.3	33.42	8.0	24.7	2.79
I19	23 Aug 2017	1	18.63	82.81	7.9	33.43	8.2	23.9	1.31
I19	23 Aug 2017	2	18.61	82.75	7.8	33.43	8.2	23.9	1.33
I19	23 Aug 2017	3	17.70	82.40	7.7	33.48	8.2	24.2	1.50
I19	23 Aug 2017	4	17.17	81.20	7.7	33.43	8.2	24.3	1.86
I19	23 Aug 2017	5	16.45	80.76	7.7	33.42	8.2	24.4	2.32
I19	23 Aug 2017	6	16.11	79.88	7.6	33.40	8.2	24.5	2.64
I19	23 Aug 2017	7	15.20	79.52	7.2	33.45	8.2	24.7	2.64
I19	23 Aug 2017	8	13.53	79.28	7.2	33.41	8.2	25.1	2.46
I19	23 Aug 2017	9	13.78	79.71	7.1	33.33	8.1	24.9	2.35
I19	23 Aug 2017	10	13.39	75.78	7.0	33.34	8.1	25.0	2.38
I19	28 Aug 2017	1	16.21	79.19	8.2	33.36	8.2	24.4	0.97
I19	28 Aug 2017	2	16.11	79.40	8.1	33.38	8.2	24.5	1.00
I19	28 Aug 2017	3	15.62	79.46	8.0	33.41	8.2	24.6	1.12
I19	28 Aug 2017	4	14.78	79.26	7.9	33.37	8.2	24.8	1.51
I19	28 Aug 2017	5	14.07	79.02	7.5	33.40	8.2	24.9	1.84
I19	28 Aug 2017	6	13.52	81.35	7.2	33.36	8.1	25.0	1.59
I19	28 Aug 2017	7	13.75	83.64	7.1	33.34	8.1	25.0	1.52

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I19	28 Aug 2017	8	13.36	83.04	7.0	33.35	8.1	25.0	1.53
I19	28 Aug 2017	9	13.32	77.25	6.9	33.35	8.1	25.1	1.72
I19	28 Aug 2017	10	13.20	74.56	6.7	33.36	8.1	25.1	1.87
I24	02 Aug 2017	1	19.52	74.58	8.6	33.46	8.2	23.7	1.55
I24	02 Aug 2017	2	18.98	74.20	8.5	33.46	8.2	23.9	1.60
I24	02 Aug 2017	3	17.85	72.43	8.2	33.45	8.2	24.1	1.93
I24	02 Aug 2017	4	17.30	68.15	7.9	33.42	8.1	24.2	2.66
I24	02 Aug 2017	5	16.51	63.25	8.2	33.41	8.1	24.4	3.36
I24	02 Aug 2017	6	15.79	64.57	8.3	33.40	8.1	24.6	4.53
I24	02 Aug 2017	7	15.65	65.29	8.0	33.36	8.1	24.6	5.29
I24	02 Aug 2017	8	15.17	66.93	7.8	33.41	8.1	24.7	5.59
I24	02 Aug 2017	9	14.75	68.57	7.4	33.38	8.0	24.8	5.69
I24	02 Aug 2017	10	14.68	66.29	7.2	33.37	8.0	24.8	4.60
I24	10 Aug 2017	1	19.16	80.72	8.4	33.41	8.2	23.8	0.93
I24	10 Aug 2017	2	18.69	80.30	8.3	33.46	8.2	23.9	1.00
I24	10 Aug 2017	3	17.32	78.06	7.9	33.60	8.1	24.4	1.07
I24	10 Aug 2017	4	15.54	75.40	7.8	33.50	8.1	24.7	1.19
I24	10 Aug 2017	5	15.27	74.66	7.7	33.41	8.0	24.7	1.31
I24	10 Aug 2017	6	14.75	75.61	7.6	33.40	8.0	24.8	1.51
I24	10 Aug 2017	7	14.63	76.22	7.5	33.38	8.0	24.8	1.53
I24	10 Aug 2017	8	14.36	76.27	7.2	33.40	8.0	24.9	1.62
I24	10 Aug 2017	9	14.19	73.81	6.9	33.38	7.9	24.9	1.64
I24	10 Aug 2017	10	14.14	72.80	6.7	33.38	7.9	24.9	1.52
I24	10 Aug 2017	11	14.11	71.93	6.6	33.38	7.9	24.9	1.44
I24	19 Aug 2017	1	19.09	78.43	7.7	33.48	8.0	23.8	1.12
I24	19 Aug 2017	2	18.62	78.50	7.5	33.52	8.0	24.0	1.12
I24	19 Aug 2017	3	17.40	78.63	7.5	33.51	8.0	24.3	1.09
I24	19 Aug 2017	4	17.00	78.48	7.8	33.44	8.0	24.3	1.07
I24	19 Aug 2017	5	16.38	79.39	8.2	33.43	8.0	24.5	1.20
I24	19 Aug 2017	6	15.79	83.81	8.4	33.39	8.0	24.6	1.26
I24	19 Aug 2017	7	15.57	85.84	8.2	33.36	8.0	24.6	1.33
I24	19 Aug 2017	8	15.46	84.97	8.1	33.36	8.0	24.6	1.49
I24	19 Aug 2017	9	15.44	83.39	8.0	33.36	8.0	24.6	1.59
I24	19 Aug 2017	10	15.43	81.33	7.9	33.36	8.0	24.6	1.63
I24	19 Aug 2017	11	15.45	79.76	7.8	33.37	8.0	24.6	1.59
I24	23 Aug 2017	1	18.95	83.09	7.8	33.45	8.2	23.8	1.20
I24	23 Aug 2017	2	18.63	83.46	7.6	33.46	8.2	23.9	1.27
I24	23 Aug 2017	3	16.70	83.55	7.5	33.52	8.2	24.4	1.48
I24	23 Aug 2017	4	15.08	82.86	7.5	33.42	8.2	24.7	1.73
I24	23 Aug 2017	5	14.44	83.45	7.4	33.36	8.2	24.8	1.85
I24	23 Aug 2017	6	13.89	84.70	7.5	33.34	8.2	24.9	2.02
I24	23 Aug 2017	7	13.69	86.51	7.4	33.33	8.2	25.0	2.10
I24	23 Aug 2017	8	13.53	86.42	7.1	33.34	8.2	25.0	1.99
I24	23 Aug 2017	9	13.40	85.63	6.9	33.34	8.1	25.0	1.73
I24	23 Aug 2017	10	13.37	84.83	6.8	33.34	8.1	25.0	1.60
I24	23 Aug 2017	11	13.31	83.63	6.7	33.35	8.1	25.1	1.56
I24	28 Aug 2017	1	17.44	80.30	8.5	33.39	8.3	24.2	0.80
I24	28 Aug 2017	2	17.40	80.17	8.5	33.39	8.3	24.2	0.82
I24	28 Aug 2017	3	17.26	80.34	8.5	33.39	8.3	24.2	0.92
I24	28 Aug 2017	4	16.93	80.49	8.3	33.41	8.2	24.3	1.05

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I24	28 Aug 2017	5	16.18	80.43	8.3	33.41	8.2	24.5	1.28
I24	28 Aug 2017	6	15.31	79.55	8.1	33.42	8.2	24.7	1.76
I24	28 Aug 2017	7	14.17	81.11	7.8	33.37	8.2	24.9	2.23
I24	28 Aug 2017	8	13.82	82.13	7.4	33.36	8.2	25.0	2.36
I24	28 Aug 2017	9	13.60	76.95	7.2	33.36	8.1	25.0	2.36
I24	28 Aug 2017	10	13.34	78.82	7.0	33.36	8.1	25.1	2.11
I24	28 Aug 2017	11	13.25	78.93	7.0	33.35	8.1	25.1	1.65
I25	02 Aug 2017	1	19.17	75.76	8.8	33.43	8.2	23.8	1.70
I25	02 Aug 2017	2	18.68	75.85	8.5	33.49	8.2	23.9	1.84
I25	02 Aug 2017	3	17.02	74.71	8.3	33.45	8.1	24.3	2.39
I25	02 Aug 2017	4	16.29	69.28	8.2	33.40	8.1	24.4	2.92
I25	02 Aug 2017	5	16.19	66.75	7.7	33.37	8.1	24.5	3.38
I25	02 Aug 2017	6	15.88	63.75	7.4	33.40	8.0	24.5	3.75
I25	02 Aug 2017	7	15.09	64.27	7.4	33.39	8.0	24.7	3.49
I25	02 Aug 2017	8	14.98	66.53	7.3	33.37	8.0	24.7	3.05
I25	02 Aug 2017	9	14.98	63.33	7.3	33.37	8.0	24.7	2.82
I25	10 Aug 2017	1	19.22	79.50	8.5	33.40	8.2	23.7	0.84
I25	10 Aug 2017	2	19.19	77.20	8.4	33.41	8.2	23.8	0.93
I25	10 Aug 2017	3	18.71	78.94	8.2	33.43	8.2	23.9	1.08
I25	10 Aug 2017	4	17.31	78.76	8.1	33.44	8.1	24.2	1.26
I25	10 Aug 2017	5	16.28	76.15	7.8	33.43	8.1	24.5	1.44
I25	10 Aug 2017	6	15.40	74.29	7.8	33.39	8.0	24.6	1.61
I25	10 Aug 2017	7	15.25	74.76	7.8	33.35	8.0	24.6	1.67
I25	10 Aug 2017	8	14.63	76.23	7.8	33.37	8.0	24.8	1.57
I25	10 Aug 2017	9	14.58	77.33	7.8	33.35	8.0	24.8	1.48
I25	19 Aug 2017	1	20.16	82.82	8.0	33.47	8.1	23.6	0.95
I25	19 Aug 2017	2	19.91	82.73	7.8	33.50	8.1	23.6	0.99
I25	19 Aug 2017	3	18.02	82.14	8.2	33.51	8.1	24.1	1.11
I25	19 Aug 2017	4	17.23	83.62	8.4	33.42	8.1	24.2	1.08
I25	19 Aug 2017	5	16.04	85.71	8.4	33.44	8.1	24.5	0.96
I25	19 Aug 2017	6	15.30	87.30	8.4	33.34	8.0	24.6	1.00
I25	19 Aug 2017	7	15.24	87.02	8.3	33.33	8.0	24.6	1.12
I25	19 Aug 2017	8	15.22	86.11	8.3	33.32	8.0	24.6	1.19
I25	19 Aug 2017	9	15.22	85.87	8.2	33.32	8.0	24.6	1.27
I25	23 Aug 2017	1	19.10	83.49	7.5	33.45	8.2	23.8	1.23
I25	23 Aug 2017	2	18.31	83.49	7.4	33.52	8.3	24.1	1.30
I25	23 Aug 2017	3	15.74	82.72	7.6	33.49	8.2	24.6	1.59
I25	23 Aug 2017	4	14.99	83.72	7.6	33.40	8.2	24.7	1.75
I25	23 Aug 2017	5	14.45	84.89	7.4	33.36	8.2	24.8	1.85
I25	23 Aug 2017	6	13.83	84.48	7.2	33.35	8.2	24.9	1.83
I25	23 Aug 2017	7	13.68	84.38	7.1	33.33	8.1	25.0	1.61
I25	23 Aug 2017	8	13.66	84.13	7.2	33.33	8.1	25.0	1.47
I25	23 Aug 2017	9	13.66	84.30	7.0	33.33	8.1	25.0	1.42
I25	28 Aug 2017	1	17.26	81.51	8.4	33.40	8.2	24.2	0.89
I25	28 Aug 2017	2	17.24	81.83	8.4	33.39	8.2	24.2	0.91
I25	28 Aug 2017	3	17.07	81.93	8.3	33.41	8.2	24.3	0.95
I25	28 Aug 2017	4	16.79	81.04	8.4	33.39	8.2	24.3	1.09
I25	28 Aug 2017	5	16.61	80.38	8.5	33.39	8.2	24.4	1.25
I25	28 Aug 2017	6	16.57	80.17	8.4	33.38	8.2	24.4	1.42
I25	28 Aug 2017	7	15.80	80.13	7.8	33.45	8.2	24.6	1.53

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I25	28 Aug 2017	8	14.07	82.27	7.5	33.37	8.2	24.9	1.54
I25	28 Aug 2017	9	13.37	79.78	7.3	33.35	8.1	25.0	1.25
I26	02 Aug 2017	1	19.79	74.63	8.6	33.47	8.2	23.6	1.88
I26	02 Aug 2017	2	19.28	74.62	8.6	33.48	8.2	23.8	1.98
I26	02 Aug 2017	3	18.14	75.76	8.8	33.50	8.2	24.1	1.92
I26	02 Aug 2017	4	16.90	77.55	9.1	33.42	8.2	24.3	2.23
I26	02 Aug 2017	5	16.71	75.60	8.8	33.40	8.1	24.4	2.73
I26	02 Aug 2017	6	16.03	71.61	8.3	33.41	8.1	24.5	3.34
I26	02 Aug 2017	7	15.71	70.65	8.0	33.37	8.1	24.6	3.80
I26	02 Aug 2017	8	15.83	68.36	7.9	33.37	8.0	24.5	3.96
I26	02 Aug 2017	9	15.27	67.46	7.3	33.39	8.0	24.7	3.49
I26	10 Aug 2017	1	19.04	81.42	8.6	33.40	8.1	23.8	0.82
I26	10 Aug 2017	2	18.98	81.40	8.5	33.40	8.1	23.8	0.82
I26	10 Aug 2017	3	18.73	80.95	8.6	33.40	8.1	23.9	0.96
I26	10 Aug 2017	4	18.56	79.85	8.4	33.42	8.1	23.9	1.08
I26	10 Aug 2017	5	17.47	78.19	8.3	33.42	8.1	24.2	1.22
I26	10 Aug 2017	6	16.44	76.61	8.3	33.44	8.1	24.4	1.51
I26	10 Aug 2017	7	15.78	72.95	8.2	33.36	8.0	24.5	1.93
I26	10 Aug 2017	8	14.73	72.40	7.6	33.43	8.0	24.8	2.16
I26	10 Aug 2017	9	14.31	70.66	7.4	33.36	7.9	24.9	2.25
I26	19 Aug 2017	1	19.27	82.10	8.1	33.45	8.0	23.8	0.97
I26	19 Aug 2017	2	18.75	82.17	8.0	33.48	8.1	23.9	0.96
I26	19 Aug 2017	3	16.40	84.59	8.6	33.45	8.1	24.5	0.79
I26	19 Aug 2017	4	16.05	89.35	8.6	33.33	8.1	24.4	0.65
I26	19 Aug 2017	5	14.85	90.93	8.5	33.35	8.1	24.7	0.74
I26	19 Aug 2017	6	14.68	89.13	8.4	33.30	8.0	24.7	1.00
I26	19 Aug 2017	7	14.68	87.62	8.3	33.31	8.0	24.7	1.12
I26	19 Aug 2017	8	14.64	87.22	8.2	33.31	8.0	24.7	1.24
I26	19 Aug 2017	9	14.65	85.84	8.2	33.31	8.0	24.7	1.35
I26	23 Aug 2017	1	19.20	83.39	7.8	33.45	8.3	23.8	1.31
I26	23 Aug 2017	2	18.76	83.24	7.8	33.47	8.3	23.9	1.38
I26	23 Aug 2017	3	17.63	83.36	7.7	33.48	8.2	24.2	1.66
I26	23 Aug 2017	4	16.54	82.85	7.5	33.45	8.2	24.4	2.07
I26	23 Aug 2017	5	15.11	82.96	7.5	33.44	8.2	24.7	2.15
I26	23 Aug 2017	6	14.50	85.61	7.4	33.39	8.2	24.8	1.99
I26	23 Aug 2017	7	13.86	87.46	7.3	33.36	8.2	24.9	1.64
I26	23 Aug 2017	8	13.79	87.17	7.2	33.34	8.2	24.9	1.46
I26	23 Aug 2017	9	13.78	87.12	7.2	33.34	8.2	24.9	1.42
I26	28 Aug 2017	1	17.42	78.89	8.6	33.39	8.3	24.2	0.90
I26	28 Aug 2017	2	17.38	79.84	8.5	33.40	8.3	24.2	0.91
I26	28 Aug 2017	3	17.30	80.24	8.6	33.39	8.3	24.2	1.03
I26	28 Aug 2017	4	17.15	80.07	8.6	33.40	8.3	24.3	1.12
I26	28 Aug 2017	5	17.01	79.90	8.4	33.40	8.3	24.3	1.26
I26	28 Aug 2017	6	15.96	80.36	8.3	33.44	8.2	24.6	1.47
I26	28 Aug 2017	7	15.06	78.99	8.1	33.40	8.2	24.7	1.87
I26	28 Aug 2017	8	13.95	78.34	7.6	33.39	8.2	25.0	2.17
I26	28 Aug 2017	9	13.77	82.43	7.3	33.34	8.2	25.0	1.71
I32	03 Aug 2017	1	19.97	70.90	7.9	33.41	8.2	23.6	2.05
I32	03 Aug 2017	2	19.72	70.67	7.8	33.47	8.2	23.7	2.17

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I32	03 Aug 2017	3	18.28	71.35	8.2	33.52	8.2	24.1	2.50
I32	03 Aug 2017	4	16.37	71.44	8.8	33.47	8.2	24.5	3.14
I32	03 Aug 2017	5	15.74	69.78	8.7	33.41	8.1	24.6	4.13
I32	03 Aug 2017	6	15.37	69.69	8.7	33.39	8.1	24.6	4.67
I32	03 Aug 2017	7	15.17	72.28	8.7	33.37	8.1	24.7	4.83
I32	03 Aug 2017	8	14.96	74.68	8.8	33.36	8.1	24.7	4.66
I32	03 Aug 2017	9	14.70	77.18	8.4	33.36	8.1	24.8	4.46
I32	03 Aug 2017	10	14.64	73.14	8.0	33.36	8.0	24.8	4.42
I32	10 Aug 2017	1	18.54	79.32	8.6	33.38	8.1	23.9	0.88
I32	10 Aug 2017	2	18.53	79.39	8.5	33.38	8.1	23.9	0.90
I32	10 Aug 2017	3	18.51	79.21	8.5	33.39	8.1	23.9	0.97
I32	10 Aug 2017	4	18.16	78.57	8.2	33.41	8.1	24.0	1.32
I32	10 Aug 2017	5	17.79	75.06	7.6	33.39	8.1	24.1	1.79
I32	10 Aug 2017	6	15.43	69.10	7.4	33.52	8.0	24.7	3.04
I32	10 Aug 2017	7	14.75	55.70	7.5	33.38	8.0	24.8	4.49
I32	10 Aug 2017	8	14.51	56.07	7.4	33.37	8.0	24.8	4.48
I32	10 Aug 2017	9	14.39	61.54	7.4	33.36	7.9	24.8	4.10
I32	10 Aug 2017	10	14.34	64.66	6.8	33.36	7.9	24.8	3.72
I32	19 Aug 2017	1	20.19	78.02	7.6	33.47	8.0	23.5	0.89
I32	19 Aug 2017	2	19.91	77.66	7.3	33.50	8.0	23.6	0.94
I32	19 Aug 2017	3	16.75	74.96	7.9	33.59	8.0	24.5	1.03
I32	19 Aug 2017	4	15.69	81.24	8.4	33.38	8.0	24.6	1.01
I32	19 Aug 2017	5	15.50	85.53	8.2	33.35	8.0	24.6	1.16
I32	19 Aug 2017	6	15.36	80.49	7.8	33.37	8.0	24.6	1.67
I32	19 Aug 2017	7	15.29	68.73	7.3	33.37	8.0	24.7	2.20
I32	19 Aug 2017	8	14.93	58.51	6.6	33.39	7.9	24.7	3.15
I32	19 Aug 2017	9	14.82	44.74	6.3	33.38	7.9	24.8	4.03
I32	19 Aug 2017	10	14.70	43.42	6.2	33.38	7.9	24.8	4.39
I32	23 Aug 2017	1	18.78	81.03	7.8	33.41	8.2	23.9	1.20
I32	23 Aug 2017	2	18.70	81.05	7.7	33.44	8.2	23.9	1.23
I32	23 Aug 2017	3	17.65	82.20	7.6	33.54	8.2	24.2	1.29
I32	23 Aug 2017	4	16.55	82.21	7.7	33.45	8.2	24.4	1.76
I32	23 Aug 2017	5	16.20	82.40	7.6	33.44	8.2	24.5	2.43
I32	23 Aug 2017	6	15.11	82.40	7.5	33.45	8.2	24.8	3.02
I32	23 Aug 2017	7	14.48	84.16	7.4	33.41	8.2	24.9	3.04
I32	23 Aug 2017	8	14.23	85.36	7.3	33.38	8.2	24.9	2.55
I32	23 Aug 2017	9	13.90	84.38	7.2	33.38	8.2	25.0	2.21
I32	23 Aug 2017	10	13.81	82.21	7.1	33.36	8.2	25.0	1.88
I32	28 Aug 2017	1	16.58	80.48	8.2	33.38	8.2	24.4	0.90
I32	28 Aug 2017	2	16.59	81.15	8.1	33.38	8.2	24.4	0.83
I32	28 Aug 2017	3	16.59	81.48	8.1	33.38	8.2	24.4	0.82
I32	28 Aug 2017	4	16.31	81.16	8.0	33.41	8.2	24.5	1.00
I32	28 Aug 2017	5	15.51	80.39	8.1	33.42	8.2	24.6	1.48
I32	28 Aug 2017	6	15.09	78.32	8.1	33.39	8.2	24.7	2.16
I32	28 Aug 2017	7	14.22	77.90	8.1	33.36	8.2	24.9	3.47
I32	28 Aug 2017	8	14.16	79.23	8.0	33.35	8.2	24.9	4.04
I32	28 Aug 2017	9	14.06	80.27	7.8	33.35	8.2	24.9	4.22
I32	28 Aug 2017	10	14.05	81.24	7.7	33.35	8.2	24.9	4.25
I39	02 Aug 2017	1	20.47	77.42	8.4	33.48	8.2	23.5	1.74
I39	02 Aug 2017	2	20.28	77.47	8.5	33.50	8.2	23.5	1.75

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	02 Aug 2017	3	19.60	78.52	8.6	33.51	8.2	23.7	1.77
I39	02 Aug 2017	4	17.82	79.61	9.2	33.52	8.2	24.2	1.68
I39	02 Aug 2017	5	16.95	81.59	9.3	33.44	8.2	24.3	1.67
I39	02 Aug 2017	6	15.50	81.98	9.1	33.40	8.1	24.6	2.13
I39	02 Aug 2017	7	15.38	81.51	8.9	33.37	8.1	24.6	2.74
I39	02 Aug 2017	8	15.12	80.07	8.7	33.38	8.1	24.7	3.48
I39	02 Aug 2017	9	14.71	77.40	8.4	33.37	8.0	24.8	4.82
I39	02 Aug 2017	10	14.27	75.55	8.1	33.36	8.0	24.9	5.40
I39	02 Aug 2017	11	14.19	77.75	7.9	33.36	8.0	24.9	4.77
I39	02 Aug 2017	12	14.08	78.87	7.7	33.37	7.9	24.9	4.26
I39	02 Aug 2017	13	13.82	79.32	7.4	33.37	7.9	25.0	3.52
I39	02 Aug 2017	14	13.71	79.02	7.2	33.36	7.9	25.0	2.59
I39	02 Aug 2017	15	13.66	77.76	7.1	33.37	7.9	25.0	2.05
I39	02 Aug 2017	16	13.65	77.32	7.0	33.37	7.9	25.0	1.92
I39	02 Aug 2017	17	13.62	75.31	7.0	33.37	7.9	25.0	1.84
I39	10 Aug 2017	1	18.78	80.93	8.5	33.40	8.1	23.9	0.93
I39	10 Aug 2017	2	18.73	80.93	8.4	33.41	8.1	23.9	0.97
I39	10 Aug 2017	3	18.44	81.06	8.4	33.43	8.1	24.0	1.03
I39	10 Aug 2017	4	17.64	80.96	8.5	33.44	8.1	24.2	1.16
I39	10 Aug 2017	5	17.26	81.15	8.5	33.39	8.1	24.2	1.24
I39	10 Aug 2017	6	15.90	81.46	8.6	33.45	8.1	24.6	1.28
I39	10 Aug 2017	7	15.17	82.94	8.8	33.36	8.1	24.7	1.32
I39	10 Aug 2017	8	14.92	83.36	8.6	33.36	8.1	24.7	1.47
I39	10 Aug 2017	9	14.75	82.27	8.4	33.37	8.0	24.8	1.69
I39	10 Aug 2017	10	14.37	82.64	8.1	33.38	8.0	24.9	2.03
I39	10 Aug 2017	11	14.16	82.59	7.8	33.36	8.0	24.9	2.32
I39	10 Aug 2017	12	13.91	83.42	7.4	33.36	8.0	24.9	2.44
I39	10 Aug 2017	13	13.75	84.14	7.1	33.37	7.9	25.0	2.52
I39	10 Aug 2017	14	13.75	84.40	6.9	33.37	7.9	25.0	2.69
I39	10 Aug 2017	15	13.63	84.47	6.5	33.38	7.9	25.0	2.64
I39	10 Aug 2017	16	13.54	84.14	6.2	33.38	7.8	25.0	2.62
I39	10 Aug 2017	17	13.48	84.84	6.0	33.39	7.8	25.0	2.24
I39	10 Aug 2017	18	13.42	86.63	5.8	33.39	7.8	25.1	1.36
I39	19 Aug 2017	1	19.61	89.22	8.3	33.45	8.1	23.7	0.66
I39	19 Aug 2017	2	19.28	89.07	8.2	33.46	8.1	23.8	0.73
I39	19 Aug 2017	3	17.62	89.09	8.2	33.48	8.1	24.2	0.78
I39	19 Aug 2017	4	15.87	88.82	8.5	33.38	8.0	24.5	0.88
I39	19 Aug 2017	5	15.55	87.71	8.6	33.32	8.0	24.6	0.79
I39	19 Aug 2017	6	14.96	89.16	8.7	33.29	8.0	24.7	0.61
I39	19 Aug 2017	7	14.83	91.28	8.7	33.27	8.0	24.7	0.51
I39	19 Aug 2017	8	14.74	92.04	8.6	33.28	8.0	24.7	0.55
I39	19 Aug 2017	9	14.60	92.05	8.4	33.30	8.0	24.8	0.77
I39	19 Aug 2017	10	14.34	91.15	8.3	33.31	8.0	24.8	1.11
I39	19 Aug 2017	11	14.26	90.22	8.2	33.31	8.0	24.8	1.29
I39	19 Aug 2017	12	14.22	89.82	8.1	33.31	8.0	24.8	1.42
I39	19 Aug 2017	13	14.22	89.45	8.1	33.31	8.0	24.8	1.50
I39	19 Aug 2017	14	14.22	89.25	8.1	33.32	8.0	24.8	1.55
I39	19 Aug 2017	15	14.21	89.24	8.0	33.32	8.0	24.8	1.58
I39	19 Aug 2017	16	14.21	89.17	8.0	33.32	8.0	24.8	1.61
I39	19 Aug 2017	17	14.21	89.13	8.0	33.32	8.0	24.8	1.63
I39	19 Aug 2017	18	14.21	89.08	8.1	33.33	8.0	24.8	1.58
I39	23 Aug 2017	1	18.17	81.32	7.8	33.44	8.2	24.0	2.05

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	23 Aug 2017	2	18.23	81.40	7.7	33.45	8.2	24.0	2.05
I39	23 Aug 2017	3	17.39	80.58	7.6	33.48	8.2	24.3	2.43
I39	23 Aug 2017	4	16.98	80.28	7.5	33.45	8.2	24.3	2.91
I39	23 Aug 2017	5	16.19	80.30	7.2	33.48	8.2	24.5	3.10
I39	23 Aug 2017	6	14.88	81.86	7.1	33.45	8.2	24.8	2.65
I39	23 Aug 2017	7	14.04	87.22	7.1	33.40	8.1	24.9	1.81
I39	23 Aug 2017	8	13.59	90.42	7.2	33.36	8.1	25.0	1.39
I39	23 Aug 2017	9	13.35	91.01	7.2	33.36	8.1	25.1	1.40
I39	23 Aug 2017	10	12.98	91.29	7.1	33.35	8.1	25.1	1.36
I39	23 Aug 2017	11	12.87	91.58	7.0	33.34	8.1	25.1	1.25
I39	23 Aug 2017	12	12.78	91.78	7.0	33.34	8.1	25.2	1.14
I39	23 Aug 2017	13	12.77	91.79	6.9	33.34	8.1	25.2	1.15
I39	23 Aug 2017	14	12.77	91.73	6.9	33.35	8.1	25.2	1.12
I39	23 Aug 2017	15	12.77	91.58	6.8	33.35	8.1	25.2	1.12
I39	23 Aug 2017	16	12.77	91.50	6.8	33.35	8.1	25.2	1.13
I39	23 Aug 2017	17	12.78	91.53	6.8	33.36	8.1	25.2	1.15
I39	23 Aug 2017	18	12.77	91.57	6.8	33.36	8.1	25.2	1.12
I39	28 Aug 2017	1	17.87	82.03	7.6	33.37	8.2	24.1	0.62
I39	28 Aug 2017	2	17.87	82.02	7.5	33.39	8.2	24.1	0.62
I39	28 Aug 2017	3	17.86	82.42	7.3	33.40	8.2	24.1	0.62
I39	28 Aug 2017	4	17.83	82.27	7.2	33.42	8.2	24.1	0.60
I39	28 Aug 2017	5	17.67	82.39	7.2	33.54	8.2	24.2	0.62
I39	28 Aug 2017	6	17.37	81.38	7.2	33.72	8.2	24.4	0.62
I39	28 Aug 2017	7	17.07	80.70	7.3	33.86	8.2	24.6	0.64
I39	28 Aug 2017	8	16.67	80.20	7.8	33.81	8.2	24.7	0.63
I39	28 Aug 2017	9	16.29	80.22	8.0	33.71	8.2	24.7	0.65
I39	28 Aug 2017	10	15.60	80.15	8.0	33.84	8.2	24.9	0.66
I39	28 Aug 2017	11	14.90	79.81	8.1	33.85	8.2	25.1	0.69
I39	28 Aug 2017	12	14.23	79.49	7.9	33.83	8.2	25.2	0.71
I39	28 Aug 2017	13	13.97	81.21	7.7	33.67	8.2	25.2	0.76
I39	28 Aug 2017	14	13.83	83.74	7.5	33.57	8.1	25.1	0.74
I39	28 Aug 2017	15	13.79	84.45	7.4	33.51	8.1	25.1	0.69
I39	28 Aug 2017	16	13.38	85.86	7.3	33.59	8.1	25.2	0.73
I39	28 Aug 2017	17	13.05	88.25	7.0	33.62	8.1	25.3	0.93
I39	28 Aug 2017	18	13.04	89.13	6.7	33.68	8.1	25.4	2.54
I40	02 Aug 2017	1	18.69	67.16	8.1	33.42	8.1	23.9	1.53
I40	02 Aug 2017	2	18.62	68.10	8.0	33.43	8.1	23.9	1.58
I40	02 Aug 2017	3	18.27	68.24	7.8	33.47	8.1	24.0	1.84
I40	02 Aug 2017	4	16.99	67.07	7.9	33.44	8.1	24.3	2.91
I40	02 Aug 2017	5	16.21	61.60	8.1	33.41	8.1	24.5	4.29
I40	02 Aug 2017	6	15.79	60.36	8.0	33.40	8.1	24.6	6.00
I40	02 Aug 2017	7	15.15	61.09	7.8	33.39	8.0	24.7	6.29
I40	02 Aug 2017	8	14.97	67.28	7.6	33.37	8.0	24.7	5.37
I40	02 Aug 2017	9	14.96	61.72	7.4	33.37	8.0	24.7	4.78
I40	02 Aug 2017	10	14.93	53.04	7.2	33.38	8.0	24.7	4.17
I40	10 Aug 2017	1	18.26	77.39	8.1	33.38	8.1	24.0	0.96
I40	10 Aug 2017	2	17.77	77.32	7.8	33.43	8.1	24.1	0.97
I40	10 Aug 2017	3	15.97	76.95	8.0	33.47	8.1	24.6	1.01
I40	10 Aug 2017	4	15.32	76.01	8.3	33.38	8.1	24.7	1.23
I40	10 Aug 2017	5	15.09	76.29	8.6	33.36	8.1	24.7	1.35
I40	10 Aug 2017	6	14.82	76.30	8.6	33.35	8.1	24.7	1.81
I40	10 Aug 2017	7	14.69	75.71	8.5	33.35	8.1	24.8	2.59

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I40	10 Aug 2017	8	14.71	72.78	8.3	33.35	8.1	24.8	3.06
I40	10 Aug 2017	9	14.50	70.92	7.8	33.36	8.0	24.8	3.70
I40	10 Aug 2017	10	14.31	66.33	7.3	33.37	8.0	24.9	3.45
I40	19 Aug 2017	1	19.69	67.56	7.5	33.48	8.0	23.7	1.59
I40	19 Aug 2017	2	19.21	67.81	7.3	33.52	8.0	23.8	1.77
I40	19 Aug 2017	3	18.63	66.86	7.2	33.47	8.0	23.9	2.18
I40	19 Aug 2017	4	18.24	63.12	6.9	33.47	8.0	24.0	2.72
I40	19 Aug 2017	5	16.94	60.58	6.9	33.50	8.0	24.4	2.62
I40	19 Aug 2017	6	16.41	61.58	7.2	33.44	8.0	24.5	2.95
I40	19 Aug 2017	7	15.87	66.82	7.3	33.42	8.0	24.6	2.97
I40	19 Aug 2017	8	14.95	72.29	7.0	33.43	8.0	24.8	2.95
I40	19 Aug 2017	9	14.81	63.13	6.4	33.39	7.9	24.8	3.64
I40	19 Aug 2017	10	14.71	42.82	6.2	33.39	7.9	24.8	4.33
I40	23 Aug 2017	1	18.67	79.09	7.8	33.42	8.2	23.9	1.28
I40	23 Aug 2017	2	17.96	78.92	7.6	33.48	8.2	24.1	1.37
I40	23 Aug 2017	3	16.77	79.35	7.4	33.41	8.2	24.3	1.78
I40	23 Aug 2017	4	15.02	77.15	7.5	33.43	8.2	24.8	2.18
I40	23 Aug 2017	5	14.62	80.11	7.6	33.34	8.2	24.8	2.44
I40	23 Aug 2017	6	14.45	81.62	7.6	33.34	8.2	24.8	2.71
I40	23 Aug 2017	7	14.26	80.30	7.6	33.34	8.2	24.8	3.07
I40	23 Aug 2017	8	14.10	78.05	7.4	33.33	8.2	24.9	3.53
I40	23 Aug 2017	9	13.97	73.71	7.2	33.35	8.2	24.9	3.62
I40	23 Aug 2017	10	13.69	68.20	6.8	33.35	8.1	25.0	3.06
I40	28 Aug 2017	1	16.01	77.04	8.2	33.36	8.2	24.5	1.27
I40	28 Aug 2017	2	16.06	76.44	8.2	33.36	8.2	24.5	1.27
I40	28 Aug 2017	3	15.47	77.24	8.1	33.42	8.2	24.6	1.46
I40	28 Aug 2017	4	14.62	76.66	8.0	33.39	8.2	24.8	2.11
I40	28 Aug 2017	5	14.19	75.51	7.7	33.36	8.2	24.9	3.06
I40	28 Aug 2017	6	14.07	74.70	7.2	33.36	8.1	24.9	3.22
I40	28 Aug 2017	7	13.51	76.58	7.0	33.37	8.1	25.0	2.49
I40	28 Aug 2017	8	13.37	73.83	7.0	33.35	8.1	25.0	2.39
I40	28 Aug 2017	9	13.28	75.75	6.8	33.35	8.1	25.1	2.37
I40	28 Aug 2017	10	13.29	71.83	6.8	33.35	8.1	25.1	2.72

NA = not available

Offshore Stations

Table 4.1

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria at the SBOO offshore stations within three nautical miles of shore. Total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
02 Aug 2017	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
03 Aug 2017	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.2

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria at the SBOO offshore stations within three nautical miles of shore. Fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
02 Aug 2017	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
03 Aug 2017	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.3

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
02 Aug 2017	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
03 Aug 2017	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.4

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T) at the SBOO offshore stations within three nautical miles of shore. Total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
02 Aug 2017	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
03 Aug 2017	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.5

Summary of water quality parameters at the SBOO offshore 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; oil and grease samples (OG) and suspended solids (SUSO) data are reported as mg/L. Duplicates are indicated by *. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I3	01 Aug 2017	1008	2	<2	<2	<2	1.00	20.5	69.31	9.0	33.52	8.2	2.18	<0.2
I3	01 Aug 2017	1008	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I3	01 Aug 2017	1008	18	<2	<2	<2	1.00	13.6	91.29	7.8	33.36	7.9	ns	<0.2
I3	01 Aug 2017	1008	27	12e	<2	<2	0.17	13.1	87.49	6.7	33.37	7.8	ns	3.2
I5	01 Aug 2017	1035	2	40	2e	12e	0.05	17.7	70.93	8.7	33.42	8.0	0.61	3.4
I5	01 Aug 2017	1035	6	320e	66	40	0.21	16.1	72.39	8.6	33.40	8.0	ns	<0.2
I5	01 Aug 2017	1035	11	3600e	80e	160e	0.02	15.0	64.17	7.6	33.40	7.9	ns	3.6
I7	01 Aug 2017	853	2	<2	<2	<2	1.00	22.3	76.15	10.1	33.57	8.2	0	5.2
I7	01 Aug 2017	853	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	6.8*
I7	01 Aug 2017	853	18	2e	<2	<2	1.00	13.7	91.53	7.1	33.38	7.8	ns	<0.2
I7	01 Aug 2017	853	52	10e	2e	<2	0.20	11.2	91.06	4.8	33.52	7.6	ns	<0.2
I8	01 Aug 2017	1207	2	<2	<2	<2	1.00	20.8	78.28	9.1	33.52	8.1	0.22	3.1
I8	01 Aug 2017	1207	18	<2	<2	<2	1.00	13.6	92.36	7.8	33.34	7.9	ns	3.2
I8	01 Aug 2017	1207	37	<2	<2	<2	1.00	12.5	91.35	6.0	33.41	7.8	ns	4.1
I9	01 Aug 2017	1150	2	<2	<2	<2	1.00	19.3	80.46	9.5	33.48	8.1	0.51	<0.2
I9	01 Aug 2017	1150	18	<2	<2	<2	1.00	13.6	91.70	7.7	33.36	7.9	ns	<0.2
I9	01 Aug 2017	1150	27	6e	<2	<2	0.33	13.1	88.11	6.6	33.37	7.8	ns	3.5
I10	01 Aug 2017	1133	2	<2	<2	<2	1.00	20.4	72.87	8.6	33.50	8.1	0.5	<0.2
I10	01 Aug 2017	1133	12	<2	<2	<2	1.00	14.6	83.56	8.7	33.37	8.0	ns	<0.2
I10	01 Aug 2017	1133	18	10e	<2	<2	0.20	13.5	78.46	6.5	33.36	7.8	ns	3.6
I11	01 Aug 2017	1119	2	<2	<2	<2	1.00	19.3	74.78	8.7	33.48	8.1	0.59	<0.2
I11	01 Aug 2017	1119	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I11	01 Aug 2017	1119	6	4e	<2	<2	0.50	15.6	71.17	8.6	33.37	8.0	ns	<0.2
I11	01 Aug 2017	1119	11	6e	<2	2e	0.33	14.5	69.45	7.2	33.38	7.9	ns	3.3
I12	02 Aug 2017	1010	2	<2	<2	<2	1.00	18.5	80.13	9.5	33.52	8.3	0.56	<0.2
I12	02 Aug 2017	1010	18	<2	2e	<2	1.00	13.4	91.11	7.3	33.37	8.0	ns	<0.2
I12	02 Aug 2017	1010	27	2e	<2	<2	1.00	13.1	86.82	6.6	33.36	7.9	ns	4.1
I13	01 Aug 2017	1226	2	<2	<2	<2	1.00	20.9	78.18	8.8	33.55	8.2	0.21	<0.2
I13	01 Aug 2017	1226	18	<2	<2	<2	1.00	13.5	92.41	7.6	33.36	7.9	ns	<0.2
I13	01 Aug 2017	1226	37	4e	2e	<2	0.50	12.2	91.00	5.6	33.42	7.7	ns	<0.2
I14	02 Aug 2017	1028	2	<2	<2	<2	1.00	19.1	80.13	9.2	33.45	8.2	1.71	3.7
I14	02 Aug 2017	1028	18	2e	<2	<2	1.00	13.2	90.32	7.0	33.37	7.9	ns	<0.2
I14	02 Aug 2017	1028	27	<2	2e	<2	1.00	13.1	88.18	6.6	33.37	7.9	ns	2.6
I16	02 Aug 2017	1000	2	<2	<2	<2	1.00	19.3	80.02	8.8	33.51	8.2	1.64	<0.2
I16	02 Aug 2017	1000	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	5.4*
I16	02 Aug 2017	1000	18	18e	<2	<2	0.11	13.1	90.22	6.9	33.36	7.9	ns	4.0

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I16	02 Aug 2017	1000	27	2e	<2	<2	1.00	13.1	87.49	6.6	33.37	7.9	ns	<0.2
I18	02 Aug 2017	937	2	<2	<2	<2	1.00	20.1	75.16	8.8	33.51	8.2	1.41	2.9
I18	02 Aug 2017	937	12	<2	<2	<2	1.00	14.3	81.26	7.9	33.37	8.0	ns	5.1
I18	02 Aug 2017	937	18	<2	<2	<2	1.00	13.5	75.83	6.8	33.36	7.9	ns	3.1
I20	01 Aug 2017	826	2	<2	<2	<2	1.00	21.7	75.43	10.3	33.57	8.2	0.87	<0.2
I20	01 Aug 2017	826	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I20	01 Aug 2017	826	18	<2	<2	<2	1.00	14.2	91.50	7.2	33.39	7.8	ns	<0.2
I20	01 Aug 2017	826	55	6e	<2	14e	0.33	11.2	92.46	5.0	33.50	7.6	ns	<0.2
I21	01 Aug 2017	1248	2	<2	<2	<2	1.00	21.2	70.73	8.9	33.56	8.2	0.4	<0.2
I21	01 Aug 2017	1248	18	<2	<2	<2	1.00	13.5	92.14	7.2	33.36	7.9	ns	<0.2
I21	01 Aug 2017	1248	37	2e	<2	<2	1.00	12.1	92.83	5.9	33.42	7.8	ns	<0.2
I22	02 Aug 2017	1039	2	4e	<2	<2	0.50	19.5	79.45	8.7	33.50	8.2	0.5	5.7
I22	02 Aug 2017	1039	18	42	16e	2e	0.38	13.2	90.01	7.1	33.36	8.0	ns	<0.2
I22	02 Aug 2017	1039	27	4e	<2	<2	0.50	13.1	88.02	6.6	33.37	7.9	ns	3.3
I23	02 Aug 2017	1052	2	<2	<2	<2	1.00	20.5	73.81	8.5	33.49	8.2	1.61	4.5
I23	02 Aug 2017	1052	12	<2	<2	<2	1.00	14.1	85.08	8.4	33.34	8.0	ns	<0.2
I23	02 Aug 2017	1052	18	6e	<2	2e	0.33	13.5	73.71	7.0	33.36	7.9	ns	4.0
I30	03 Aug 2017	923	2	<2	<2	<2	1.00	18.6	78.68	8.5	33.49	8.2	1.78	<0.2
I30	03 Aug 2017	923	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I30	03 Aug 2017	923	18	<2	<2	<2	1.00	13.1	89.39	6.8	33.35	7.9	ns	<0.2
I30	03 Aug 2017	923	27	<2	<2	<2	1.00	13.1	87.96	6.6	33.37	7.9	ns	<0.2
I33	03 Aug 2017	829	2	<20	<2	<2	0.10	20.5	77.87	8.5	33.56	8.3	1.39	<0.2
I33	03 Aug 2017	829	18	<2	<2	<2	1.00	13.9	85.95	7.8	33.34	8.0	ns	<0.2
I33	03 Aug 2017	829	27	<2	<2	<2	1.00	12.9	88.83	6.4	33.38	7.8	ns	<0.2
I36	03 Aug 2017	1020	2	<2	<2	<2	1.00	18.4	74.84	8.8	33.50	8.2	1.41	<0.2
I36	03 Aug 2017	1020	6	<2	<2	<2	1.00	15.3	70.78	8.8	33.38	8.1	ns	<0.2
I36	03 Aug 2017	1020	11	<2	<2	<2	1.00	14.4	65.39	7.6	33.36	8.0	ns	3.5
I37	03 Aug 2017	755	2	<2	<2	<2	1.00	18.6	80.88	8.6	33.52	8.2	1.58	<0.2
I37	03 Aug 2017	755	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	3.4*
I37	03 Aug 2017	755	6	<2	<2	<2	1.00	14.5	74.99	8.6	33.38	8.1	ns	3.9
I37	03 Aug 2017	755	11	<2	<2	<2	1.00	14.0	70.34	7.7	33.37	8.0	ns	6.3
I38	03 Aug 2017	1053	2	<2	<2	<2	1.00	20.4	73.76	8.4	33.47	8.2	1.03	<0.2
I38	03 Aug 2017	1053	6	<2	<2	<2	1.00	16.0	63.65	9.2	33.44	8.2	ns	2.9
I38	03 Aug 2017	1053	11	<2	<2	<2	1.00	14.5	62.19	6.8	33.37	8.0	ns	2.9

ns = not sampled

ND = no data

Table 4.6

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

Station	Date	Parameter	Value
I1	01 Aug 2017	Depth (m)	62
I1	01 Aug 2017	Arrive Time	920
I1	01 Aug 2017	Depart Time	927
I1	01 Aug 2017	Air Temp (C)	20
I1	01 Aug 2017	Weather	Overcast
I1	01 Aug 2017	Visibility (mi)	7
I1	01 Aug 2017	Wind Speed (kts)	8
I1	01 Aug 2017	Wind Dir	N
I1	01 Aug 2017	Water Color	Green
I1	01 Aug 2017	Wave Ht Low (ft)	4
I1	01 Aug 2017	Wave Period (sec)	9
I1	01 Aug 2017	Sea State	Confused swell
I1	01 Aug 2017	High Tide (ft)	3.1
I1	01 Aug 2017	High Tide Time	635
I1	01 Aug 2017	Low Tide (ft)	2.3
I1	01 Aug 2017	Low Tide Time	1119
I1	01 Aug 2017	Comments	Unable to obtain station depth
I2	01 Aug 2017	Depth (m)	33
I2	01 Aug 2017	Arrive Time	951
I2	01 Aug 2017	Depart Time	956
I2	01 Aug 2017	Air Temp (C)	20
I2	01 Aug 2017	Weather	Overcast
I2	01 Aug 2017	Visibility (mi)	7
I2	01 Aug 2017	Wind Speed (kts)	3
I2	01 Aug 2017	Wind Dir	E
I2	01 Aug 2017	Water Color	Green
I2	01 Aug 2017	Wave Ht Low (ft)	4
I2	01 Aug 2017	Wave Period (sec)	9
I2	01 Aug 2017	Sea State	Confused swell
I2	01 Aug 2017	High Tide (ft)	3.1
I2	01 Aug 2017	High Tide Time	635
I2	01 Aug 2017	Low Tide (ft)	2.3
I2	01 Aug 2017	Low Tide Time	1119
I2	01 Aug 2017	Comments	
I3	01 Aug 2017	Depth (m)	28
I3	01 Aug 2017	Arrive Time	1008
I3	01 Aug 2017	Depart Time	1013
I3	01 Aug 2017	Air Temp (C)	20
I3	01 Aug 2017	Weather	Overcast
I3	01 Aug 2017	Visibility (mi)	7
I3	01 Aug 2017	Wind Speed (kts)	4
I3	01 Aug 2017	Wind Dir	E
I3	01 Aug 2017	Water Color	Green
I3	01 Aug 2017	Wave Ht Low (ft)	4
I3	01 Aug 2017	Wave Period (sec)	9
I3	01 Aug 2017	Sea State	Confused swell
I3	01 Aug 2017	High Tide (ft)	3.1
I3	01 Aug 2017	High Tide Time	635
I3	01 Aug 2017	Low Tide (ft)	2.3

Station	Date	Parameter	Value
I3	01 Aug 2017	Low Tide Time	1119
I3	01 Aug 2017	Comments	
I4	01 Aug 2017	Depth (m)	20
I4	01 Aug 2017	Arrive Time	1025
I4	01 Aug 2017	Depart Time	1029
I4	01 Aug 2017	Air Temp (C)	20
I4	01 Aug 2017	Weather	Rain
I4	01 Aug 2017	Visibility (mi)	7
I4	01 Aug 2017	Wind Speed (kts)	7
I4	01 Aug 2017	Wind Dir	E
I4	01 Aug 2017	Water Color	Green
I4	01 Aug 2017	Wave Ht Low (ft)	4
I4	01 Aug 2017	Wave Period (sec)	9
I4	01 Aug 2017	Sea State	Confused swell
I4	01 Aug 2017	High Tide (ft)	3.1
I4	01 Aug 2017	High Tide Time	635
I4	01 Aug 2017	Low Tide (ft)	2.3
I4	01 Aug 2017	Low Tide Time	1119
I4	01 Aug 2017	Comments	Green foam at surface; Rain
I5	01 Aug 2017	Depth (m)	14
I5	01 Aug 2017	Arrive Time	1035
I5	01 Aug 2017	Depart Time	1038
I5	01 Aug 2017	Air Temp (C)	20
I5	01 Aug 2017	Weather	Overcast
I5	01 Aug 2017	Visibility (mi)	7
I5	01 Aug 2017	Wind Speed (kts)	7
I5	01 Aug 2017	Wind Dir	SE
I5	01 Aug 2017	Water Color	Green
I5	01 Aug 2017	Wave Ht Low (ft)	4
I5	01 Aug 2017	Wave Period (sec)	9
I5	01 Aug 2017	Sea State	Confused swell
I5	01 Aug 2017	High Tide (ft)	3.1
I5	01 Aug 2017	High Tide Time	635
I5	01 Aug 2017	Low Tide (ft)	2.3
I5	01 Aug 2017	Low Tide Time	1119
I5	01 Aug 2017	Comments	
I6	01 Aug 2017	Depth (m)	25
I6	01 Aug 2017	Arrive Time	1058
I6	01 Aug 2017	Depart Time	1104
I6	01 Aug 2017	Air Temp (C)	20
I6	01 Aug 2017	Weather	Drizzle
I6	01 Aug 2017	Visibility (mi)	7
I6	01 Aug 2017	Wind Speed (kts)	6
I6	01 Aug 2017	Wind Dir	W
I6	01 Aug 2017	Water Color	Green
I6	01 Aug 2017	Wave Ht Low (ft)	4
I6	01 Aug 2017	Wave Period (sec)	9
I6	01 Aug 2017	Sea State	Confused swell
I6	01 Aug 2017	High Tide (ft)	3.1
I6	01 Aug 2017	High Tide Time	635
I6	01 Aug 2017	Low Tide (ft)	2.3
I6	01 Aug 2017	Low Tide Time	1119

Station	Date	Parameter	Value
I6	01 Aug 2017	Comments	
I7	01 Aug 2017	Depth (m)	51
I7	01 Aug 2017	Arrive Time	853
I7	01 Aug 2017	Depart Time	859
I7	01 Aug 2017	Air Temp (C)	21
I7	01 Aug 2017	Weather	Overcast
I7	01 Aug 2017	Visibility (mi)	7
I7	01 Aug 2017	Wind Speed (kts)	7
I7	01 Aug 2017	Wind Dir	E
I7	01 Aug 2017	Water Color	Green
I7	01 Aug 2017	Wave Ht Low (ft)	4
I7	01 Aug 2017	Wave Period (sec)	9
I7	01 Aug 2017	Sea State	Light chop
I7	01 Aug 2017	High Tide (ft)	3.1
I7	01 Aug 2017	High Tide Time	635
I7	01 Aug 2017	Low Tide (ft)	2.3
I7	01 Aug 2017	Low Tide Time	1119
I7	01 Aug 2017	Comments	Unable to obtain station depth
I8	01 Aug 2017	Depth (m)	36
I8	01 Aug 2017	Arrive Time	1207
I8	01 Aug 2017	Depart Time	1214
I8	01 Aug 2017	Air Temp (C)	21
I8	01 Aug 2017	Weather	Partly Cloudy
I8	01 Aug 2017	Visibility (mi)	8
I8	01 Aug 2017	Wind Speed (kts)	8
I8	01 Aug 2017	Wind Dir	NW
I8	01 Aug 2017	Water Color	Green
I8	01 Aug 2017	Wave Ht Low (ft)	4
I8	01 Aug 2017	Wave Period (sec)	9
I8	01 Aug 2017	Sea State	Confused swell
I8	01 Aug 2017	High Tide (ft)	3.1
I8	01 Aug 2017	High Tide Time	635
I8	01 Aug 2017	Low Tide (ft)	2.3
I8	01 Aug 2017	Low Tide Time	1119
I8	01 Aug 2017	Comments	
I9	01 Aug 2017	Depth (m)	29
I9	01 Aug 2017	Arrive Time	1150
I9	01 Aug 2017	Depart Time	1156
I9	01 Aug 2017	Air Temp (C)	21
I9	01 Aug 2017	Weather	Partly Cloudy
I9	01 Aug 2017	Visibility (mi)	8
I9	01 Aug 2017	Wind Speed (kts)	6
I9	01 Aug 2017	Wind Dir	E
I9	01 Aug 2017	Water Color	Green
I9	01 Aug 2017	Wave Ht Low (ft)	4
I9	01 Aug 2017	Wave Period (sec)	9
I9	01 Aug 2017	Sea State	Confused swell
I9	01 Aug 2017	High Tide (ft)	3.1
I9	01 Aug 2017	High Tide Time	635
I9	01 Aug 2017	Low Tide (ft)	2.3
I9	01 Aug 2017	Low Tide Time	1119
I9	01 Aug 2017	Comments	

Station	Date	Parameter	Value
I10	01 Aug 2017	Depth (m)	20
I10	01 Aug 2017	Arrive Time	1133
I10	01 Aug 2017	Depart Time	1138
I10	01 Aug 2017	Air Temp (C)	21
I10	01 Aug 2017	Weather	Partly Cloudy
I10	01 Aug 2017	Visibility (mi)	8
I10	01 Aug 2017	Wind Speed (kts)	4
I10	01 Aug 2017	Wind Dir	W
I10	01 Aug 2017	Water Color	Green
I10	01 Aug 2017	Wave Ht Low (ft)	4
I10	01 Aug 2017	Wave Period (sec)	9
I10	01 Aug 2017	Sea State	Confused swell
I10	01 Aug 2017	High Tide (ft)	3.1
I10	01 Aug 2017	High Tide Time	635
I10	01 Aug 2017	Low Tide (ft)	2.3
I10	01 Aug 2017	Low Tide Time	1119
I10	01 Aug 2017	Comments	
I11	01 Aug 2017	Depth (m)	13
I11	01 Aug 2017	Arrive Time	1119
I11	01 Aug 2017	Depart Time	1123
I11	01 Aug 2017	Air Temp (C)	20
I11	01 Aug 2017	Weather	Partly Cloudy
I11	01 Aug 2017	Visibility (mi)	7
I11	01 Aug 2017	Wind Speed (kts)	2
I11	01 Aug 2017	Wind Dir	NW
I11	01 Aug 2017	Water Color	Green
I11	01 Aug 2017	Wave Ht Low (ft)	4
I11	01 Aug 2017	Wave Period (sec)	9
I11	01 Aug 2017	Sea State	Confused swell
I11	01 Aug 2017	High Tide (ft)	3.1
I11	01 Aug 2017	High Tide Time	635
I11	01 Aug 2017	Low Tide (ft)	2.3
I11	01 Aug 2017	Low Tide Time	1119
I11	01 Aug 2017	Comments	
I12	02 Aug 2017	Depth (m)	29
I12	02 Aug 2017	Arrive Time	1010
I12	02 Aug 2017	Depart Time	1015
I12	02 Aug 2017	Air Temp (C)	21
I12	02 Aug 2017	Weather	Haze
I12	02 Aug 2017	Visibility (mi)	9
I12	02 Aug 2017	Wind Speed (kts)	2
I12	02 Aug 2017	Wind Dir	SW
I12	02 Aug 2017	Water Color	Bluish-Green
I12	02 Aug 2017	Wave Ht Low (ft)	4
I12	02 Aug 2017	Wave Period (sec)	13
I12	02 Aug 2017	Sea State	Wind ripples
I12	02 Aug 2017	High Tide (ft)	3.3
I12	02 Aug 2017	High Tide Time	737
I12	02 Aug 2017	Low Tide (ft)	2.3
I12	02 Aug 2017	Low Tide Time	1217
I12	02 Aug 2017	Comments	Kelp debris

Station	Date	Parameter	Value
I13	01 Aug 2017	Depth (m)	38
I13	01 Aug 2017	Arrive Time	1226
I13	01 Aug 2017	Depart Time	1231
I13	01 Aug 2017	Air Temp (C)	21
I13	01 Aug 2017	Weather	Partly Cloudy
I13	01 Aug 2017	Visibility (mi)	8
I13	01 Aug 2017	Wind Speed (kts)	12
I13	01 Aug 2017	Wind Dir	SE
I13	01 Aug 2017	Water Color	Green
I13	01 Aug 2017	Wave Ht Low (ft)	4
I13	01 Aug 2017	Wave Period (sec)	9
I13	01 Aug 2017	Sea State	Confused swell
I13	01 Aug 2017	High Tide (ft)	3.1
I13	01 Aug 2017	High Tide Time	635
I13	01 Aug 2017	Low Tide (ft)	2.3
I13	01 Aug 2017	Low Tide Time	1119
I13	01 Aug 2017	Comments	
I14	02 Aug 2017	Depth (m)	28
I14	02 Aug 2017	Arrive Time	1028
I14	02 Aug 2017	Depart Time	1035
I14	02 Aug 2017	Air Temp (C)	22
I14	02 Aug 2017	Weather	Haze
I14	02 Aug 2017	Visibility (mi)	9
I14	02 Aug 2017	Wind Speed (kts)	2
I14	02 Aug 2017	Wind Dir	E
I14	02 Aug 2017	Water Color	Bluish-Green
I14	02 Aug 2017	Wave Ht Low (ft)	4
I14	02 Aug 2017	Wave Period (sec)	13
I14	02 Aug 2017	Sea State	Wind ripples
I14	02 Aug 2017	High Tide (ft)	3.3
I14	02 Aug 2017	High Tide Time	737
I14	02 Aug 2017	Low Tide (ft)	2.3
I14	02 Aug 2017	Low Tide Time	1217
I14	02 Aug 2017	Comments	
I15	02 Aug 2017	Depth (m)	31
I15	02 Aug 2017	Arrive Time	1020
I15	02 Aug 2017	Depart Time	1025
I15	02 Aug 2017	Air Temp (C)	22
I15	02 Aug 2017	Weather	Haze
I15	02 Aug 2017	Visibility (mi)	9
I15	02 Aug 2017	Wind Speed (kts)	1
I15	02 Aug 2017	Wind Dir	N
I15	02 Aug 2017	Water Color	Bluish-Green
I15	02 Aug 2017	Wave Ht Low (ft)	4
I15	02 Aug 2017	Wave Period (sec)	13
I15	02 Aug 2017	Sea State	Wind ripples
I15	02 Aug 2017	High Tide (ft)	3.3
I15	02 Aug 2017	High Tide Time	737
I15	02 Aug 2017	Low Tide (ft)	2.3
I15	02 Aug 2017	Low Tide Time	1217
I15	02 Aug 2017	Comments	
I16	02 Aug 2017	Depth (m)	29

Station	Date	Parameter	Value
I16	02 Aug 2017	Arrive Time	1000
I16	02 Aug 2017	Depart Time	1005
I16	02 Aug 2017	Air Temp (C)	21
I16	02 Aug 2017	Weather	Haze
I16	02 Aug 2017	Visibility (mi)	9
I16	02 Aug 2017	Wind Speed (kts)	2
I16	02 Aug 2017	Wind Dir	W
I16	02 Aug 2017	Water Color	Bluish-Green
I16	02 Aug 2017	Wave Ht Low (ft)	4
I16	02 Aug 2017	Wave Period (sec)	13
I16	02 Aug 2017	Sea State	Wind ripples
I16	02 Aug 2017	High Tide (ft)	3.3
I16	02 Aug 2017	High Tide Time	737
I16	02 Aug 2017	Low Tide (ft)	2.3
I16	02 Aug 2017	Low Tide Time	1217
I16	02 Aug 2017	Comments	
I17	02 Aug 2017	Depth (m)	26
I17	02 Aug 2017	Arrive Time	950
I17	02 Aug 2017	Depart Time	955
I17	02 Aug 2017	Air Temp (C)	21
I17	02 Aug 2017	Weather	Haze
I17	02 Aug 2017	Visibility (mi)	9
I17	02 Aug 2017	Wind Speed (kts)	2
I17	02 Aug 2017	Wind Dir	NE
I17	02 Aug 2017	Water Color	Bluish-Green
I17	02 Aug 2017	Wave Ht Low (ft)	4
I17	02 Aug 2017	Wave Period (sec)	13
I17	02 Aug 2017	Sea State	Wind ripples
I17	02 Aug 2017	High Tide (ft)	3.3
I17	02 Aug 2017	High Tide Time	737
I17	02 Aug 2017	Low Tide (ft)	2.3
I17	02 Aug 2017	Low Tide Time	1217
I17	02 Aug 2017	Comments	Kelp debris; Unable to obtain station depth
I18	02 Aug 2017	Depth (m)	20
I18	02 Aug 2017	Arrive Time	937
I18	02 Aug 2017	Depart Time	944
I18	02 Aug 2017	Air Temp (C)	21
I18	02 Aug 2017	Weather	Haze
I18	02 Aug 2017	Visibility (mi)	9
I18	02 Aug 2017	Wind Speed (kts)	3
I18	02 Aug 2017	Wind Dir	W
I18	02 Aug 2017	Water Color	Bluish-Green
I18	02 Aug 2017	Wave Ht Low (ft)	4
I18	02 Aug 2017	Wave Period (sec)	13
I18	02 Aug 2017	Sea State	Wind ripples
I18	02 Aug 2017	High Tide (ft)	3.3
I18	02 Aug 2017	High Tide Time	737
I18	02 Aug 2017	Low Tide (ft)	2.3
I18	02 Aug 2017	Low Tide Time	1217
I18	02 Aug 2017	Comments	
I20	01 Aug 2017	Depth (m)	55
I20	01 Aug 2017	Arrive Time	826

Station	Date	Parameter	Value
I20	01 Aug 2017	Depart Time	834
I20	01 Aug 2017	Air Temp (C)	20
I20	01 Aug 2017	Weather	Overcast
I20	01 Aug 2017	Visibility (mi)	7
I20	01 Aug 2017	Wind Speed (kts)	9
I20	01 Aug 2017	Wind Dir	NW
I20	01 Aug 2017	Water Color	Green
I20	01 Aug 2017	Wave Ht Low (ft)	4
I20	01 Aug 2017	Wave Period (sec)	9
I20	01 Aug 2017	Sea State	Light chop
I20	01 Aug 2017	High Tide (ft)	3.1
I20	01 Aug 2017	High Tide Time	635
I20	01 Aug 2017	Low Tide (ft)	2.3
I20	01 Aug 2017	Low Tide Time	1119
I20	01 Aug 2017	Comments	Unable to obtain station depth
I21	01 Aug 2017	Depth (m)	42
I21	01 Aug 2017	Arrive Time	1248
I21	01 Aug 2017	Depart Time	1256
I21	01 Aug 2017	Air Temp (C)	21
I21	01 Aug 2017	Weather	Partly Cloudy
I21	01 Aug 2017	Visibility (mi)	8
I21	01 Aug 2017	Wind Speed (kts)	10
I21	01 Aug 2017	Wind Dir	E
I21	01 Aug 2017	Water Color	Green
I21	01 Aug 2017	Wave Ht Low (ft)	4
I21	01 Aug 2017	Wave Period (sec)	9
I21	01 Aug 2017	Sea State	Confused swell
I21	01 Aug 2017	High Tide (ft)	3.1
I21	01 Aug 2017	High Tide Time	635
I21	01 Aug 2017	Low Tide (ft)	2.3
I21	01 Aug 2017	Low Tide Time	1119
I21	01 Aug 2017	Comments	none
I22	02 Aug 2017	Depth (m)	29
I22	02 Aug 2017	Arrive Time	1039
I22	02 Aug 2017	Depart Time	1045
I22	02 Aug 2017	Air Temp (C)	22
I22	02 Aug 2017	Weather	Haze
I22	02 Aug 2017	Visibility (mi)	10
I22	02 Aug 2017	Wind Speed (kts)	2
I22	02 Aug 2017	Wind Dir	SW
I22	02 Aug 2017	Water Color	Bluish-Green
I22	02 Aug 2017	Wave Ht Low (ft)	4
I22	02 Aug 2017	Wave Period (sec)	13
I22	02 Aug 2017	Sea State	Wind ripples
I22	02 Aug 2017	High Tide (ft)	3.3
I22	02 Aug 2017	High Tide Time	737
I22	02 Aug 2017	Low Tide (ft)	2.3
I22	02 Aug 2017	Low Tide Time	1217
I22	02 Aug 2017	Comments	
I23	02 Aug 2017	Depth (m)	21
I23	02 Aug 2017	Arrive Time	1052
I23	02 Aug 2017	Depart Time	1058

Station	Date	Parameter	Value
I23	02 Aug 2017	Air Temp (C)	22
I23	02 Aug 2017	Weather	Haze
I23	02 Aug 2017	Visibility (mi)	10
I23	02 Aug 2017	Wind Speed (kts)	2
I23	02 Aug 2017	Wind Dir	S
I23	02 Aug 2017	Water Color	Bluish-Green
I23	02 Aug 2017	Wave Ht Low (ft)	4
I23	02 Aug 2017	Wave Period (sec)	13
I23	02 Aug 2017	Sea State	Wind ripples
I23	02 Aug 2017	High Tide (ft)	3.3
I23	02 Aug 2017	High Tide Time	737
I23	02 Aug 2017	Low Tide (ft)	2.3
I23	02 Aug 2017	Low Tide Time	1217
I23	02 Aug 2017	Comments	
I27	02 Aug 2017	Depth (m)	29
I27	02 Aug 2017	Arrive Time	817
I27	02 Aug 2017	Depart Time	823
I27	02 Aug 2017	Air Temp (C)	20
I27	02 Aug 2017	Weather	Partly Cloudy
I27	02 Aug 2017	Visibility (mi)	8
I27	02 Aug 2017	Wind Speed (kts)	4
I27	02 Aug 2017	Wind Dir	N
I27	02 Aug 2017	Water Color	Greenish-Blue
I27	02 Aug 2017	Wave Ht Low (ft)	4
I27	02 Aug 2017	Wave Period (sec)	13
I27	02 Aug 2017	Sea State	Wind ripples
I27	02 Aug 2017	High Tide (ft)	3.3
I27	02 Aug 2017	High Tide Time	737
I27	02 Aug 2017	Low Tide (ft)	2.3
I27	02 Aug 2017	Low Tide Time	1217
I27	02 Aug 2017	Comments	
I28	03 Aug 2017	Depth (m)	56
I28	03 Aug 2017	Arrive Time	850
I28	03 Aug 2017	Depart Time	856
I28	03 Aug 2017	Air Temp (C)	22
I28	03 Aug 2017	Weather	Fog
I28	03 Aug 2017	Visibility (mi)	1
I28	03 Aug 2017	Wind Speed (kts)	2
I28	03 Aug 2017	Wind Dir	W
I28	03 Aug 2017	Water Color	Green
I28	03 Aug 2017	Wave Ht Low (ft)	4
I28	03 Aug 2017	Wave Period (sec)	13
I28	03 Aug 2017	Sea State	Calm
I28	03 Aug 2017	High Tide (ft)	3.5
I28	03 Aug 2017	High Tide Time	816
I28	03 Aug 2017	Low Tide (ft)	2.2
I28	03 Aug 2017	Low Tide Time	1305
I28	03 Aug 2017	Comments	Green foam at surface (phytoplankton)
I29	03 Aug 2017	Depth (m)	37
I29	03 Aug 2017	Arrive Time	909
I29	03 Aug 2017	Depart Time	913
I29	03 Aug 2017	Air Temp (C)	21

Station	Date	Parameter	Value
I29	03 Aug 2017	Weather	Fog
I29	03 Aug 2017	Visibility (mi)	1
I29	03 Aug 2017	Wind Speed (kts)	4
I29	03 Aug 2017	Wind Dir	S
I29	03 Aug 2017	Water Color	Green
I29	03 Aug 2017	Wave Ht Low (ft)	4
I29	03 Aug 2017	Wave Period (sec)	13
I29	03 Aug 2017	Sea State	Calm
I29	03 Aug 2017	High Tide (ft)	3.5
I29	03 Aug 2017	High Tide Time	816
I29	03 Aug 2017	Low Tide (ft)	2.2
I29	03 Aug 2017	Low Tide Time	1305
I29	03 Aug 2017	Comments	
I30	03 Aug 2017	Depth (m)	28
I30	03 Aug 2017	Arrive Time	923
I30	03 Aug 2017	Depart Time	937
I30	03 Aug 2017	Air Temp (C)	21
I30	03 Aug 2017	Weather	Fog
I30	03 Aug 2017	Visibility (mi)	1
I30	03 Aug 2017	Wind Speed (kts)	4
I30	03 Aug 2017	Wind Dir	NE
I30	03 Aug 2017	Water Color	Green
I30	03 Aug 2017	Wave Ht Low (ft)	4
I30	03 Aug 2017	Wave Period (sec)	13
I30	03 Aug 2017	Sea State	Calm
I30	03 Aug 2017	High Tide (ft)	3.5
I30	03 Aug 2017	High Tide Time	816
I30	03 Aug 2017	Low Tide (ft)	2.2
I30	03 Aug 2017	Low Tide Time	1305
I30	03 Aug 2017	Comments	Boats
I31	03 Aug 2017	Depth (m)	20
I31	03 Aug 2017	Arrive Time	944
I31	03 Aug 2017	Depart Time	947
I31	03 Aug 2017	Air Temp (C)	21
I31	03 Aug 2017	Weather	Fog
I31	03 Aug 2017	Visibility (mi)	2
I31	03 Aug 2017	Wind Speed (kts)	5
I31	03 Aug 2017	Wind Dir	NE
I31	03 Aug 2017	Water Color	Green
I31	03 Aug 2017	Wave Ht Low (ft)	4
I31	03 Aug 2017	Wave Period (sec)	13
I31	03 Aug 2017	Sea State	Calm
I31	03 Aug 2017	High Tide (ft)	3.5
I31	03 Aug 2017	High Tide Time	816
I31	03 Aug 2017	Low Tide (ft)	2.2
I31	03 Aug 2017	Low Tide Time	1305
I31	03 Aug 2017	Comments	
I33	03 Aug 2017	Depth (m)	30
I33	03 Aug 2017	Arrive Time	829
I33	03 Aug 2017	Depart Time	833
I33	03 Aug 2017	Air Temp (C)	21
I33	03 Aug 2017	Weather	Fog

Station	Date	Parameter	Value
I33	03 Aug 2017	Visibility (mi)	< 1
I33	03 Aug 2017	Wind Speed (kts)	1
I33	03 Aug 2017	Wind Dir	N
I33	03 Aug 2017	Water Color	Green
I33	03 Aug 2017	Wave Ht Low (ft)	4
I33	03 Aug 2017	Wave Period (sec)	13
I33	03 Aug 2017	Sea State	Calm
I33	03 Aug 2017	High Tide (ft)	3.5
I33	03 Aug 2017	High Tide Time	816
I33	03 Aug 2017	Low Tide (ft)	2.2
I33	03 Aug 2017	Low Tide Time	1305
I33	03 Aug 2017	Comments	
I34	03 Aug 2017	Depth (m)	20
I34	03 Aug 2017	Arrive Time	813
I34	03 Aug 2017	Depart Time	816
I34	03 Aug 2017	Air Temp (C)	21
I34	03 Aug 2017	Weather	Fog
I34	03 Aug 2017	Visibility (mi)	< 1
I34	03 Aug 2017	Wind Speed (kts)	2
I34	03 Aug 2017	Wind Dir	E
I34	03 Aug 2017	Water Color	Green
I34	03 Aug 2017	Wave Ht Low (ft)	4
I34	03 Aug 2017	Wave Period (sec)	13
I34	03 Aug 2017	Sea State	Calm
I34	03 Aug 2017	High Tide (ft)	3.5
I34	03 Aug 2017	High Tide Time	816
I34	03 Aug 2017	Low Tide (ft)	2.2
I34	03 Aug 2017	Low Tide Time	1305
I34	03 Aug 2017	Comments	
I35	03 Aug 2017	Depth (m)	20
I35	03 Aug 2017	Arrive Time	1037
I35	03 Aug 2017	Depart Time	1040
I35	03 Aug 2017	Air Temp (C)	21
I35	03 Aug 2017	Weather	Fog
I35	03 Aug 2017	Visibility (mi)	< 1
I35	03 Aug 2017	Wind Speed (kts)	4
I35	03 Aug 2017	Wind Dir	NE
I35	03 Aug 2017	Water Color	Green
I35	03 Aug 2017	Wave Ht Low (ft)	4
I35	03 Aug 2017	Wave Period (sec)	13
I35	03 Aug 2017	Sea State	Calm
I35	03 Aug 2017	High Tide (ft)	3.5
I35	03 Aug 2017	High Tide Time	816
I35	03 Aug 2017	Low Tide (ft)	2.2
I35	03 Aug 2017	Low Tide Time	1305
I35	03 Aug 2017	Comments	
I36	03 Aug 2017	Depth (m)	12
I36	03 Aug 2017	Arrive Time	1020
I36	03 Aug 2017	Depart Time	1028
I36	03 Aug 2017	Air Temp (C)	21
I36	03 Aug 2017	Weather	Fog
I36	03 Aug 2017	Visibility (mi)	3

Station	Date	Parameter	Value
I36	03 Aug 2017	Wind Speed (kts)	3
I36	03 Aug 2017	Wind Dir	W
I36	03 Aug 2017	Water Color	Green
I36	03 Aug 2017	Wave Ht Low (ft)	4
I36	03 Aug 2017	Wave Period (sec)	13
I36	03 Aug 2017	Sea State	Calm
I36	03 Aug 2017	High Tide (ft)	3.5
I36	03 Aug 2017	High Tide Time	816
I36	03 Aug 2017	Low Tide (ft)	2.2
I36	03 Aug 2017	Low Tide Time	1305
I36	03 Aug 2017	Comments	
I37	03 Aug 2017	Depth (m)	13
I37	03 Aug 2017	Arrive Time	755
I37	03 Aug 2017	Depart Time	801
I37	03 Aug 2017	Air Temp (C)	21
I37	03 Aug 2017	Weather	Rain
I37	03 Aug 2017	Visibility (mi)	< 1
I37	03 Aug 2017	Wind Speed (kts)	3
I37	03 Aug 2017	Wind Dir	S
I37	03 Aug 2017	Water Color	Green
I37	03 Aug 2017	Wave Ht Low (ft)	4
I37	03 Aug 2017	Wave Period (sec)	13
I37	03 Aug 2017	Sea State	Calm
I37	03 Aug 2017	High Tide (ft)	3.5
I37	03 Aug 2017	High Tide Time	816
I37	03 Aug 2017	Low Tide (ft)	2.2
I37	03 Aug 2017	Low Tide Time	1305
I37	03 Aug 2017	Comments	Boats
I38	03 Aug 2017	Depth (m)	12
I38	03 Aug 2017	Arrive Time	1053
I38	03 Aug 2017	Depart Time	1057
I38	03 Aug 2017	Air Temp (C)	22
I38	03 Aug 2017	Weather	Fog
I38	03 Aug 2017	Visibility (mi)	2
I38	03 Aug 2017	Wind Speed (kts)	3
I38	03 Aug 2017	Wind Dir	N
I38	03 Aug 2017	Water Color	Green
I38	03 Aug 2017	Wave Ht Low (ft)	4
I38	03 Aug 2017	Wave Period (sec)	13
I38	03 Aug 2017	Sea State	Calm
I38	03 Aug 2017	High Tide (ft)	3.5
I38	03 Aug 2017	High Tide Time	816
I38	03 Aug 2017	Low Tide (ft)	2.2
I38	03 Aug 2017	Low Tide Time	1305
I38	03 Aug 2017	Comments	Boats

Table 4.7

Summary of CTD profile data from the SBOO offshore 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)
I1	01 Aug 2017	1	23.17	78.12	9.7	33.59	8.2	22.8	1.97
I1	01 Aug 2017	2	23.17	77.65	9.8	33.59	8.2	22.8	2.04
I1	01 Aug 2017	3	23.17	78.63	9.7	33.59	8.2	22.8	2.02
I1	01 Aug 2017	4	23.17	78.87	9.7	33.60	8.2	22.8	2.19
I1	01 Aug 2017	5	23.17	79.07	9.8	33.60	8.3	22.8	2.30
I1	01 Aug 2017	6	23.16	79.09	9.9	33.60	8.3	22.8	2.45
I1	01 Aug 2017	7	22.93	78.95	10.7	33.61	8.3	22.9	3.15
I1	01 Aug 2017	8	20.92	77.85	13.2	33.59	8.3	23.4	6.29
I1	01 Aug 2017	9	20.55	66.18	14.0	33.43	8.3	23.4	11.36
I1	01 Aug 2017	10	19.80	56.92	13.4	33.52	8.3	23.7	14.96
I1	01 Aug 2017	11	19.20	54.54	12.6	33.46	8.3	23.8	13.27
I1	01 Aug 2017	12	18.14	60.47	11.1	33.47	8.2	24.1	7.60
I1	01 Aug 2017	13	17.20	72.75	9.5	33.46	8.1	24.3	4.23
I1	01 Aug 2017	14	16.50	81.57	9.0	33.41	8.0	24.4	2.42
I1	01 Aug 2017	15	16.35	86.25	8.8	33.40	8.0	24.4	1.67
I1	01 Aug 2017	16	15.85	88.00	8.6	33.40	8.0	24.6	1.25
I1	01 Aug 2017	17	15.30	88.96	8.3	33.41	8.0	24.7	1.05
I1	01 Aug 2017	18	15.06	90.24	8.3	33.37	7.9	24.7	0.92
I1	01 Aug 2017	19	15.26	90.85	8.1	33.39	7.9	24.7	0.90
I1	01 Aug 2017	20	14.47	90.96	8.1	33.40	7.9	24.9	0.83
I1	01 Aug 2017	21	14.25	91.29	8.0	33.38	7.9	24.9	0.80
I1	01 Aug 2017	22	14.25	91.62	7.7	33.38	7.9	24.9	0.82
I1	01 Aug 2017	23	14.05	91.65	7.3	33.38	7.8	24.9	0.76
I1	01 Aug 2017	24	14.03	91.68	7.1	33.38	7.8	24.9	0.86
I1	01 Aug 2017	25	13.91	91.80	7.0	33.39	7.8	25.0	0.71
I1	01 Aug 2017	26	13.96	91.85	6.9	33.39	7.8	25.0	0.60
I1	01 Aug 2017	27	13.83	91.89	6.8	33.40	7.8	25.0	0.55
I1	01 Aug 2017	28	13.59	91.92	6.7	33.41	7.8	25.0	0.54
I1	01 Aug 2017	29	13.64	92.00	6.6	33.38	7.8	25.0	0.55
I1	01 Aug 2017	30	13.17	92.00	6.3	33.43	7.8	25.1	0.51
I1	01 Aug 2017	31	12.88	92.11	6.2	33.42	7.8	25.2	0.49
I1	01 Aug 2017	32	12.72	92.58	6.1	33.41	7.7	25.2	0.48
I1	01 Aug 2017	33	12.67	92.72	6.1	33.41	7.7	25.2	0.49
I1	01 Aug 2017	34	12.17	92.96	6.3	33.40	7.7	25.3	0.65
I1	01 Aug 2017	35	12.08	93.04	6.3	33.39	7.7	25.3	0.67
I1	01 Aug 2017	36	11.99	93.06	6.2	33.40	7.7	25.4	0.75
I1	01 Aug 2017	37	11.89	93.08	6.1	33.41	7.7	25.4	0.66
I1	01 Aug 2017	38	11.94	93.00	6.0	33.41	7.7	25.4	0.68
I1	01 Aug 2017	39	11.85	93.04	5.9	33.42	7.7	25.4	0.62
I1	01 Aug 2017	40	11.79	93.05	5.7	33.44	7.7	25.4	0.53
I1	01 Aug 2017	41	11.75	92.96	5.6	33.45	7.7	25.4	0.49
I1	01 Aug 2017	42	11.72	92.89	5.4	33.47	7.7	25.4	0.50
I1	01 Aug 2017	43	11.71	92.82	5.4	33.47	7.7	25.5	0.51
I1	01 Aug 2017	44	11.66	92.87	5.3	33.47	7.7	25.5	0.51
I1	01 Aug 2017	45	11.56	92.84	5.3	33.48	7.7	25.5	0.43
I1	01 Aug 2017	46	11.54	92.81	5.2	33.48	7.7	25.5	0.40
I1	01 Aug 2017	47	11.52	92.88	5.2	33.48	7.7	25.5	0.36
I1	01 Aug 2017	48	11.48	92.89	5.2	33.49	7.7	25.5	0.35
I1	01 Aug 2017	49	11.45	92.76	5.1	33.50	7.6	25.5	0.34
I1	01 Aug 2017	50	11.43	92.60	5.0	33.50	7.6	25.5	0.36
I1	01 Aug 2017	51	11.43	92.48	4.9	33.50	7.6	25.5	0.39

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	01 Aug 2017	52	11.42	92.34	4.9	33.50	7.6	25.5	0.37
I1	01 Aug 2017	53	11.42	92.36	4.9	33.50	7.6	25.5	0.34
I1	01 Aug 2017	54	11.41	92.27	4.9	33.51	7.6	25.5	0.35
I1	01 Aug 2017	55	11.41	92.12	4.8	33.51	7.6	25.5	0.38
I1	01 Aug 2017	56	11.40	92.04	4.8	33.51	7.6	25.5	0.40
I1	01 Aug 2017	57	11.40	91.96	4.8	33.51	7.6	25.5	0.37
I1	01 Aug 2017	58	11.40	91.82	4.8	33.51	7.6	25.5	0.33
I1	01 Aug 2017	59	11.39	91.66	4.7	33.51	7.6	25.5	0.32
I2	01 Aug 2017	1	21.92	76.01	10.8	33.56	8.3	23.1	2.27
I2	01 Aug 2017	2	21.92	76.37	10.8	33.56	8.3	23.1	2.37
I2	01 Aug 2017	3	21.91	76.50	10.9	33.56	8.3	23.2	2.51
I2	01 Aug 2017	4	21.84	76.30	11.1	33.56	8.3	23.2	2.77
I2	01 Aug 2017	5	21.39	76.21	12.2	33.57	8.3	23.3	4.14
I2	01 Aug 2017	6	20.27	74.03	12.8	33.52	8.3	23.6	6.78
I2	01 Aug 2017	7	19.71	69.04	12.2	33.49	8.3	23.7	8.45
I2	01 Aug 2017	8	18.74	67.71	11.5	33.44	8.2	23.9	8.86
I2	01 Aug 2017	9	17.47	75.04	9.7	33.56	8.2	24.3	6.86
I2	01 Aug 2017	10	15.89	82.14	8.6	33.41	8.0	24.5	3.52
I2	01 Aug 2017	11	15.64	88.63	8.3	33.39	8.0	24.6	1.98
I2	01 Aug 2017	12	14.96	89.87	8.1	33.39	8.0	24.7	1.25
I2	01 Aug 2017	13	14.85	90.73	8.0	33.36	7.9	24.7	1.00
I2	01 Aug 2017	14	14.43	91.21	8.0	33.36	7.9	24.8	0.92
I2	01 Aug 2017	15	14.25	91.55	8.1	33.34	7.9	24.9	0.86
I2	01 Aug 2017	16	14.14	92.07	8.2	33.34	7.9	24.9	0.81
I2	01 Aug 2017	17	14.02	91.97	8.2	33.34	7.9	24.9	0.79
I2	01 Aug 2017	18	13.88	92.26	8.1	33.34	7.9	24.9	0.71
I2	01 Aug 2017	19	13.90	92.43	8.0	33.34	7.9	24.9	0.74
I2	01 Aug 2017	20	13.71	92.52	7.8	33.35	7.9	25.0	0.70
I2	01 Aug 2017	21	13.63	92.35	7.7	33.35	7.9	25.0	0.68
I2	01 Aug 2017	22	13.53	92.45	7.6	33.35	7.9	25.0	0.69
I2	01 Aug 2017	23	13.48	92.54	7.5	33.36	7.8	25.0	0.65
I2	01 Aug 2017	24	13.24	92.48	7.3	33.38	7.8	25.1	0.65
I2	01 Aug 2017	25	13.14	92.51	7.1	33.37	7.8	25.1	0.67
I2	01 Aug 2017	26	13.11	92.68	7.0	33.38	7.8	25.1	0.68
I2	01 Aug 2017	27	12.95	92.58	6.9	33.38	7.8	25.2	0.73
I2	01 Aug 2017	28	12.85	92.33	6.7	33.38	7.8	25.2	0.75
I2	01 Aug 2017	29	12.77	92.26	6.6	33.38	7.8	25.2	0.72
I2	01 Aug 2017	30	12.77	91.95	6.5	33.38	7.8	25.2	0.69
I2	01 Aug 2017	31	12.65	91.98	6.4	33.39	7.8	25.2	0.73
I2	01 Aug 2017	32	12.62	91.75	6.3	33.40	7.8	25.2	0.70
I3	01 Aug 2017	1	20.53	79.95	9.0	33.52	8.2	23.5	1.76
I3	01 Aug 2017	2	20.53	69.31	9.0	33.52	8.2	23.5	1.79
I3	01 Aug 2017	3	20.09	79.17	9.5	33.56	8.2	23.6	2.08
I3	01 Aug 2017	4	18.09	79.55	10.9	33.50	8.2	24.1	2.82
I3	01 Aug 2017	5	17.68	78.32	10.8	33.43	8.2	24.1	3.19
I3	01 Aug 2017	6	17.19	78.78	10.2	33.42	8.1	24.3	3.31
I3	01 Aug 2017	7	17.01	80.01	9.7	33.41	8.1	24.3	3.55
I3	01 Aug 2017	8	16.70	80.19	9.3	33.41	8.1	24.4	4.20
I3	01 Aug 2017	9	16.00	78.23	9.1	33.40	8.0	24.5	5.56
I3	01 Aug 2017	10	15.93	76.61	8.8	33.40	8.0	24.5	5.54
I3	01 Aug 2017	11	14.64	80.39	8.7	33.36	8.0	24.8	4.23
I3	01 Aug 2017	12	14.41	85.67	8.6	33.34	8.0	24.8	3.16
I3	01 Aug 2017	13	14.16	88.02	8.3	33.34	7.9	24.9	2.35

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I3	01 Aug 2017	14	14.11	89.81	8.3	33.33	7.9	24.9	1.98
I3	01 Aug 2017	15	14.02	90.62	8.2	33.34	7.9	24.9	1.70
I3	01 Aug 2017	16	13.95	90.83	8.1	33.34	7.9	24.9	1.55
I3	01 Aug 2017	17	13.95	91.18	8.0	33.35	7.9	24.9	1.48
I3	01 Aug 2017	18	13.59	91.29	7.8	33.36	7.9	25.0	1.47
I3	01 Aug 2017	19	13.59	91.13	7.6	33.35	7.9	25.0	1.43
I3	01 Aug 2017	20	13.32	91.27	7.4	33.35	7.9	25.1	1.23
I3	01 Aug 2017	21	13.29	91.17	7.3	33.35	7.8	25.1	1.14
I3	01 Aug 2017	22	13.25	90.94	7.1	33.35	7.8	25.1	1.16
I3	01 Aug 2017	23	13.19	90.54	7.0	33.36	7.8	25.1	1.17
I3	01 Aug 2017	24	13.15	90.10	6.8	33.37	7.8	25.1	1.15
I3	01 Aug 2017	25	13.10	89.30	6.7	33.37	7.8	25.1	1.14
I3	01 Aug 2017	26	13.09	88.14	6.7	33.37	7.8	25.1	1.15
I3	01 Aug 2017	27	13.09	87.49	6.7	33.37	7.8	25.1	1.15
I4	01 Aug 2017	1	19.67	75.56	8.9	33.45	8.1	23.7	2.47
I4	01 Aug 2017	2	19.69	75.43	8.8	33.45	8.1	23.7	2.56
I4	01 Aug 2017	3	19.58	75.39	8.8	33.47	8.1	23.7	2.55
I4	01 Aug 2017	4	17.81	76.86	9.3	33.56	8.1	24.2	2.45
I4	01 Aug 2017	5	16.19	79.78	9.3	33.45	8.1	24.5	2.65
I4	01 Aug 2017	6	15.74	79.62	8.8	33.38	8.0	24.6	3.16
I4	01 Aug 2017	7	15.23	76.61	8.5	33.42	8.0	24.7	4.08
I4	01 Aug 2017	8	14.71	75.19	8.3	33.37	7.9	24.8	5.41
I4	01 Aug 2017	9	14.69	74.00	8.1	33.37	7.9	24.8	5.89
I4	01 Aug 2017	10	14.38	73.18	7.6	33.38	7.9	24.9	6.14
I4	01 Aug 2017	11	14.02	76.10	7.3	33.38	7.9	24.9	5.56
I4	01 Aug 2017	12	14.02	76.43	7.0	33.39	7.8	24.9	4.83
I4	01 Aug 2017	13	13.77	75.21	6.6	33.37	7.8	25.0	3.35
I4	01 Aug 2017	14	13.76	73.58	6.5	33.38	7.8	25.0	2.60
I4	01 Aug 2017	15	13.67	73.34	6.4	33.38	7.8	25.0	2.08
I4	01 Aug 2017	16	13.64	72.59	6.4	33.38	7.8	25.0	1.92
I4	01 Aug 2017	17	13.58	71.59	6.3	33.38	7.8	25.0	1.81
I4	01 Aug 2017	18	13.59	70.28	6.3	33.38	7.8	25.0	1.81
I5	01 Aug 2017	1	17.92	70.44	8.8	33.42	8.0	24.1	3.61
I5	01 Aug 2017	2	17.72	70.93	8.7	33.42	8.0	24.1	4.17
I5	01 Aug 2017	3	17.03	70.35	8.7	33.44	8.0	24.3	4.71
I5	01 Aug 2017	4	16.40	70.19	8.8	33.41	8.0	24.4	4.63
I5	01 Aug 2017	5	16.37	72.99	8.8	33.39	8.0	24.4	4.53
I5	01 Aug 2017	6	16.08	72.39	8.6	33.40	8.0	24.5	5.00
I5	01 Aug 2017	7	15.80	70.71	8.4	33.39	8.0	24.6	5.23
I5	01 Aug 2017	8	15.47	68.09	8.3	33.38	8.0	24.6	5.17
I5	01 Aug 2017	9	15.57	64.48	8.2	33.37	8.0	24.6	5.14
I5	01 Aug 2017	10	15.29	63.53	8.0	33.38	7.9	24.7	5.03
I5	01 Aug 2017	11	14.99	64.17	7.6	33.40	7.9	24.7	4.92
I5	01 Aug 2017	12	14.61	65.48	7.3	33.39	7.9	24.8	4.52
I5	01 Aug 2017	13	14.35	64.36	7.1	33.39	7.9	24.9	4.84
I5	01 Aug 2017	14	14.13	66.36	7.0	33.38	7.9	24.9	4.66
I6	01 Aug 2017	1	20.25	77.94	8.9	33.49	8.1	23.5	1.77
I6	01 Aug 2017	2	20.30	72.81	8.8	33.49	8.1	23.5	1.80
I6	01 Aug 2017	3	19.74	79.26	9.2	33.56	8.1	23.7	2.01
I6	01 Aug 2017	4	17.72	79.41	10.2	33.48	8.1	24.2	2.50
I6	01 Aug 2017	5	17.00	79.58	9.9	33.42	8.1	24.3	2.83
I6	01 Aug 2017	6	16.64	79.86	9.4	33.40	8.1	24.4	3.05

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I6	01 Aug 2017	7	16.33	80.91	9.3	33.37	8.0	24.4	3.53
I6	01 Aug 2017	8	15.90	78.90	8.8	33.45	8.0	24.6	3.94
I6	01 Aug 2017	9	14.67	78.91	8.6	33.36	8.0	24.8	3.89
I6	01 Aug 2017	10	14.58	82.72	8.6	33.33	8.0	24.8	3.65
I6	01 Aug 2017	11	14.32	84.58	8.4	33.35	8.0	24.8	3.62
I6	01 Aug 2017	12	14.12	85.19	8.3	33.33	7.9	24.9	3.75
I6	01 Aug 2017	13	14.07	85.99	8.1	33.34	7.9	24.9	3.43
I6	01 Aug 2017	14	13.83	88.13	8.0	33.34	7.9	24.9	2.63
I6	01 Aug 2017	15	13.74	89.84	7.8	33.35	7.9	25.0	2.25
I6	01 Aug 2017	16	13.48	90.37	7.6	33.35	7.9	25.0	2.06
I6	01 Aug 2017	17	13.38	90.30	7.5	33.34	7.9	25.0	2.05
I6	01 Aug 2017	18	13.35	90.55	7.5	33.34	7.9	25.0	1.95
I6	01 Aug 2017	19	13.27	89.78	7.2	33.35	7.9	25.1	1.85
I6	01 Aug 2017	20	13.19	89.07	6.9	33.36	7.8	25.1	1.73
I6	01 Aug 2017	21	13.14	88.19	6.6	33.36	7.8	25.1	1.69
I6	01 Aug 2017	22	13.14	86.86	6.6	33.36	7.8	25.1	1.58
I6	01 Aug 2017	23	13.15	86.78	6.6	33.37	7.8	25.1	1.59
I6	01 Aug 2017	24	13.13	86.58	6.6	33.37	7.8	25.1	1.62
I6	01 Aug 2017	25	13.13	86.20	6.5	33.37	7.8	25.1	1.58
I6	01 Aug 2017	26	13.13	86.07	6.5	33.37	7.8	25.1	1.55
I7	01 Aug 2017	1	22.25	75.68	10.1	33.57	8.2	23.1	2.50
I7	01 Aug 2017	2	22.32	76.15	10.1	33.57	8.2	23.0	2.60
I7	01 Aug 2017	3	22.20	76.18	10.4	33.58	8.2	23.1	3.02
I7	01 Aug 2017	4	21.41	75.63	11.1	33.57	8.2	23.3	3.86
I7	01 Aug 2017	5	21.28	73.93	11.0	33.51	8.2	23.3	4.41
I7	01 Aug 2017	6	20.17	72.60	11.0	33.51	8.2	23.6	5.81
I7	01 Aug 2017	7	19.08	71.86	11.1	33.51	8.2	23.9	8.75
I7	01 Aug 2017	8	18.65	66.92	11.1	33.42	8.1	23.9	12.73
I7	01 Aug 2017	9	18.04	64.35	10.4	33.45	8.1	24.1	12.05
I7	01 Aug 2017	10	17.15	72.78	9.4	33.44	8.1	24.3	6.92
I7	01 Aug 2017	11	16.15	81.42	8.7	33.42	8.0	24.5	3.64
I7	01 Aug 2017	12	16.10	84.42	8.7	33.38	8.0	24.5	2.51
I7	01 Aug 2017	13	15.78	84.26	8.4	33.41	8.0	24.6	1.98
I7	01 Aug 2017	14	15.54	86.95	8.1	33.39	7.9	24.6	1.41
I7	01 Aug 2017	15	15.15	89.46	7.9	33.37	7.9	24.7	1.06
I7	01 Aug 2017	16	14.56	90.43	7.5	33.42	7.9	24.9	0.87
I7	01 Aug 2017	17	14.02	91.07	7.3	33.38	7.9	24.9	0.70
I7	01 Aug 2017	18	13.74	91.53	7.1	33.38	7.8	25.0	0.61
I7	01 Aug 2017	19	13.58	91.75	7.0	33.38	7.8	25.0	0.60
I7	01 Aug 2017	20	13.38	91.85	7.0	33.38	7.8	25.1	0.58
I7	01 Aug 2017	21	13.28	91.95	6.6	33.39	7.8	25.1	0.53
I7	01 Aug 2017	22	13.18	92.06	6.4	33.40	7.8	25.1	0.51
I7	01 Aug 2017	23	12.95	92.12	6.3	33.41	7.8	25.2	0.50
I7	01 Aug 2017	24	12.73	92.06	6.2	33.41	7.8	25.2	0.45
I7	01 Aug 2017	25	12.66	92.27	6.1	33.40	7.7	25.2	0.44
I7	01 Aug 2017	26	12.59	92.45	6.0	33.41	7.7	25.2	0.40
I7	01 Aug 2017	27	12.54	92.63	6.0	33.40	7.7	25.2	0.38
I7	01 Aug 2017	28	12.47	92.76	6.0	33.41	7.7	25.3	0.44
I7	01 Aug 2017	29	12.42	92.71	5.9	33.41	7.7	25.3	0.37
I7	01 Aug 2017	30	12.38	92.84	5.9	33.41	7.7	25.3	0.35
I7	01 Aug 2017	31	12.36	93.01	5.9	33.41	7.7	25.3	0.37
I7	01 Aug 2017	32	12.35	93.05	5.9	33.41	7.7	25.3	0.35
I7	01 Aug 2017	33	12.34	93.13	5.8	33.41	7.7	25.3	0.35
I7	01 Aug 2017	34	12.26	93.07	5.7	33.42	7.7	25.3	0.34

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I7	01 Aug 2017	35	12.18	92.94	5.7	33.43	7.7	25.3	0.34
I7	01 Aug 2017	36	12.05	93.08	5.7	33.44	7.7	25.4	0.38
I7	01 Aug 2017	37	11.87	93.20	5.7	33.45	7.7	25.4	0.35
I7	01 Aug 2017	38	11.71	93.30	5.7	33.44	7.7	25.4	0.37
I7	01 Aug 2017	39	11.76	93.36	5.8	33.42	7.7	25.4	0.39
I7	01 Aug 2017	40	11.68	93.39	5.7	33.45	7.7	25.4	0.38
I7	01 Aug 2017	41	11.58	93.18	5.6	33.44	7.7	25.5	0.44
I7	01 Aug 2017	42	11.57	93.18	5.5	33.46	7.7	25.5	0.38
I7	01 Aug 2017	43	11.53	92.98	5.4	33.47	7.7	25.5	0.35
I7	01 Aug 2017	44	11.49	92.91	5.3	33.47	7.7	25.5	0.33
I7	01 Aug 2017	45	11.48	92.81	5.3	33.47	7.7	25.5	0.34
I7	01 Aug 2017	46	11.45	92.72	5.2	33.48	7.7	25.5	0.32
I7	01 Aug 2017	47	11.40	92.70	5.2	33.49	7.7	25.5	0.32
I7	01 Aug 2017	48	11.33	92.79	5.1	33.50	7.6	25.5	0.34
I7	01 Aug 2017	49	11.25	92.64	5.0	33.52	7.6	25.6	0.42
I7	01 Aug 2017	50	11.22	91.49	4.9	33.52	7.6	25.6	0.37
I7	01 Aug 2017	51	11.21	91.06	4.8	33.52	7.6	25.6	0.31
I8	01 Aug 2017	1	20.81	76.04	9.1	33.52	8.1	23.4	0.83
I8	01 Aug 2017	2	20.79	78.28	9.1	33.52	8.1	23.4	0.85
I8	01 Aug 2017	3	20.56	78.52	9.1	33.53	8.1	23.5	0.97
I8	01 Aug 2017	4	20.31	78.70	9.4	33.52	8.1	23.6	1.19
I8	01 Aug 2017	5	19.74	78.65	10.5	33.53	8.2	23.7	2.28
I8	01 Aug 2017	6	18.46	74.36	11.1	33.41	8.2	23.9	3.47
I8	01 Aug 2017	7	18.37	74.02	9.4	33.55	8.1	24.1	3.35
I8	01 Aug 2017	8	16.34	76.49	8.8	33.44	8.1	24.5	3.36
I8	01 Aug 2017	9	15.69	83.59	8.3	33.39	8.0	24.6	2.60
I8	01 Aug 2017	10	15.24	88.63	8.0	33.40	8.0	24.7	1.75
I8	01 Aug 2017	11	14.79	90.47	8.0	33.37	7.9	24.8	1.14
I8	01 Aug 2017	12	14.48	91.17	8.1	33.36	7.9	24.8	0.98
I8	01 Aug 2017	13	14.26	91.62	8.3	33.32	7.9	24.8	0.86
I8	01 Aug 2017	14	14.12	91.87	8.2	33.33	7.9	24.9	0.84
I8	01 Aug 2017	15	13.85	91.99	8.1	33.33	7.9	24.9	0.76
I8	01 Aug 2017	16	13.74	92.13	8.0	33.33	7.9	24.9	0.73
I8	01 Aug 2017	17	13.67	92.42	7.9	33.34	7.9	25.0	0.76
I8	01 Aug 2017	18	13.61	92.36	7.8	33.34	7.9	25.0	0.74
I8	01 Aug 2017	19	13.42	92.53	7.5	33.37	7.9	25.0	0.68
I8	01 Aug 2017	20	13.17	92.40	7.2	33.37	7.8	25.1	0.76
I8	01 Aug 2017	21	13.15	92.48	7.1	33.37	7.8	25.1	0.72
I8	01 Aug 2017	22	13.12	92.51	7.0	33.37	7.8	25.1	0.72
I8	01 Aug 2017	23	13.12	92.43	7.0	33.38	7.8	25.1	0.77
I8	01 Aug 2017	24	13.10	92.54	6.9	33.38	7.8	25.1	0.76
I8	01 Aug 2017	25	13.08	92.59	6.9	33.38	7.8	25.1	0.79
I8	01 Aug 2017	26	12.90	92.52	6.7	33.39	7.8	25.2	0.76
I8	01 Aug 2017	27	12.77	92.31	6.5	33.39	7.8	25.2	0.75
I8	01 Aug 2017	28	12.79	92.18	6.5	33.38	7.8	25.2	0.76
I8	01 Aug 2017	29	12.74	92.12	6.4	33.39	7.8	25.2	0.73
I8	01 Aug 2017	30	12.73	91.78	6.3	33.39	7.8	25.2	0.79
I8	01 Aug 2017	31	12.70	91.44	6.2	33.39	7.8	25.2	0.85
I8	01 Aug 2017	32	12.67	91.40	6.1	33.40	7.8	25.2	0.83
I8	01 Aug 2017	33	12.65	91.54	6.1	33.40	7.8	25.2	0.84
I8	01 Aug 2017	34	12.66	91.33	6.1	33.40	7.8	25.2	0.76
I8	01 Aug 2017	35	12.55	91.32	6.0	33.41	7.8	25.2	0.77
I8	01 Aug 2017	36	12.52	91.35	6.0	33.41	7.8	25.3	0.67

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I9	01 Aug 2017	1	19.67	80.66	8.9	33.48	8.1	23.7	0.92
I9	01 Aug 2017	2	19.31	80.46	9.5	33.48	8.1	23.8	1.03
I9	01 Aug 2017	3	18.80	79.16	10.2	33.49	8.1	23.9	1.41
I9	01 Aug 2017	4	17.55	78.12	10.7	33.45	8.1	24.2	2.27
I9	01 Aug 2017	5	17.66	74.50	10.3	33.41	8.1	24.1	2.58
I9	01 Aug 2017	6	16.88	74.94	9.8	33.44	8.1	24.3	2.81
I9	01 Aug 2017	7	16.60	76.09	9.5	33.40	8.1	24.4	3.62
I9	01 Aug 2017	8	16.30	75.35	9.1	33.40	8.0	24.4	3.81
I9	01 Aug 2017	9	16.04	78.89	8.7	33.41	8.0	24.5	3.92
I9	01 Aug 2017	10	15.69	79.31	8.5	33.41	8.0	24.6	3.82
I9	01 Aug 2017	11	15.11	81.60	8.5	33.40	8.0	24.7	3.55
I9	01 Aug 2017	12	14.53	85.35	8.5	33.35	8.0	24.8	2.82
I9	01 Aug 2017	13	14.34	88.64	8.5	33.34	7.9	24.8	2.01
I9	01 Aug 2017	14	14.02	90.09	8.3	33.35	7.9	24.9	1.59
I9	01 Aug 2017	15	13.88	91.03	8.1	33.34	7.9	24.9	1.39
I9	01 Aug 2017	16	13.85	91.36	8.1	33.34	7.9	24.9	1.27
I9	01 Aug 2017	17	13.82	91.62	8.0	33.34	7.9	24.9	1.25
I9	01 Aug 2017	18	13.64	91.70	7.7	33.36	7.9	25.0	1.22
I9	01 Aug 2017	19	13.45	91.67	7.6	33.36	7.9	25.0	1.26
I9	01 Aug 2017	20	13.44	91.23	7.5	33.35	7.8	25.0	1.38
I9	01 Aug 2017	21	13.27	91.33	7.3	33.36	7.8	25.1	1.40
I9	01 Aug 2017	22	13.18	91.25	7.0	33.37	7.8	25.1	1.37
I9	01 Aug 2017	23	13.09	90.81	6.9	33.36	7.8	25.1	1.26
I9	01 Aug 2017	24	13.09	90.86	6.8	33.36	7.8	25.1	1.27
I9	01 Aug 2017	25	13.07	90.36	6.7	33.36	7.8	25.1	1.30
I9	01 Aug 2017	26	13.07	88.76	6.7	33.37	7.8	25.1	1.29
I9	01 Aug 2017	27	13.06	88.11	6.6	33.37	7.8	25.1	1.30
I9	01 Aug 2017	28	13.07	87.52	6.6	33.37	7.8	25.1	1.29
I9	01 Aug 2017	29	13.06	85.93	6.6	33.37	7.8	25.1	1.26
I10	01 Aug 2017	1	20.36	74.67	8.7	33.49	8.1	23.5	1.37
I10	01 Aug 2017	2	20.36	72.87	8.6	33.50	8.1	23.5	1.38
I10	01 Aug 2017	3	20.29	76.78	8.7	33.50	8.1	23.5	1.50
I10	01 Aug 2017	4	20.15	77.75	8.6	33.51	8.1	23.6	1.64
I10	01 Aug 2017	5	19.39	78.31	9.0	33.51	8.1	23.8	1.64
I10	01 Aug 2017	6	19.23	80.21	9.0	33.48	8.1	23.8	1.63
I10	01 Aug 2017	7	17.10	80.74	9.5	33.50	8.1	24.3	1.69
I10	01 Aug 2017	8	16.26	81.27	9.5	33.41	8.1	24.5	1.85
I10	01 Aug 2017	9	16.20	81.63	9.2	33.40	8.0	24.5	2.00
I10	01 Aug 2017	10	15.28	81.26	8.9	33.40	8.0	24.7	2.19
I10	01 Aug 2017	11	14.95	81.93	8.8	33.36	8.0	24.7	2.43
I10	01 Aug 2017	12	14.61	83.56	8.7	33.37	8.0	24.8	2.62
I10	01 Aug 2017	13	14.30	83.93	8.5	33.35	8.0	24.8	2.85
I10	01 Aug 2017	14	14.07	84.05	8.1	33.35	7.9	24.9	3.57
I10	01 Aug 2017	15	13.93	80.41	7.2	33.36	7.9	24.9	4.57
I10	01 Aug 2017	16	13.66	77.77	6.6	33.37	7.8	25.0	4.00
I10	01 Aug 2017	17	13.56	77.95	6.5	33.37	7.8	25.0	3.10
I10	01 Aug 2017	18	13.51	78.46	6.5	33.36	7.8	25.0	2.70
I10	01 Aug 2017	19	13.49	78.38	6.6	33.36	7.8	25.0	2.50
I11	01 Aug 2017	1	19.63	75.49	8.9	33.46	8.1	23.7	1.34
I11	01 Aug 2017	2	19.27	74.78	8.7	33.48	8.1	23.8	1.39
I11	01 Aug 2017	3	16.60	76.46	9.1	33.46	8.1	24.4	1.73
I11	01 Aug 2017	4	16.84	75.01	8.8	33.42	8.0	24.3	1.93
I11	01 Aug 2017	5	15.75	74.01	8.7	33.39	8.0	24.6	2.41

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I11	01 Aug 2017	6	15.61	71.17	8.6	33.37	8.0	24.6	2.88
I11	01 Aug 2017	7	15.49	70.75	8.5	33.38	8.0	24.6	3.32
I11	01 Aug 2017	8	15.09	71.01	8.1	33.38	8.0	24.7	4.37
I11	01 Aug 2017	9	14.87	69.00	7.7	33.38	7.9	24.8	5.24
I11	01 Aug 2017	10	14.68	69.56	7.5	33.37	7.9	24.8	5.37
I11	01 Aug 2017	11	14.52	69.45	7.2	33.38	7.9	24.8	5.00
I11	01 Aug 2017	12	14.44	69.07	7.1	33.38	7.9	24.8	4.37
I11	01 Aug 2017	13	14.39	69.23	7.1	33.38	7.9	24.9	3.90
I12	02 Aug 2017	1	19.85	79.85	8.6	33.47	8.2	23.6	0.91
I12	02 Aug 2017	2	18.54	80.13	9.5	33.52	8.3	24.0	0.98
I12	02 Aug 2017	3	17.35	80.53	10.0	33.44	8.3	24.2	1.33
I12	02 Aug 2017	4	16.46	79.57	9.3	33.43	8.2	24.4	1.59
I12	02 Aug 2017	5	15.68	80.31	9.1	33.35	8.2	24.5	2.51
I12	02 Aug 2017	6	15.30	78.33	8.8	33.32	8.2	24.6	3.58
I12	02 Aug 2017	7	14.96	77.31	8.6	33.31	8.1	24.7	3.86
I12	02 Aug 2017	8	14.55	78.70	8.4	33.33	8.1	24.8	3.55
I12	02 Aug 2017	9	14.42	82.06	8.4	33.33	8.1	24.8	3.34
I12	02 Aug 2017	10	14.29	83.72	8.4	33.32	8.1	24.8	3.40
I12	02 Aug 2017	11	14.29	84.00	8.4	33.33	8.1	24.8	3.52
I12	02 Aug 2017	12	14.23	84.20	8.3	33.33	8.1	24.8	3.56
I12	02 Aug 2017	13	14.13	84.42	8.1	33.33	8.1	24.9	3.23
I12	02 Aug 2017	14	14.03	85.41	8.1	33.33	8.1	24.9	2.55
I12	02 Aug 2017	15	13.98	87.86	8.0	33.35	8.0	24.9	2.18
I12	02 Aug 2017	16	13.86	89.38	8.0	33.35	8.0	24.9	1.72
I12	02 Aug 2017	17	13.71	90.61	7.8	33.36	8.0	25.0	1.44
I12	02 Aug 2017	18	13.36	91.11	7.3	33.37	8.0	25.1	1.45
I12	02 Aug 2017	19	13.18	91.00	7.1	33.37	8.0	25.1	1.38
I12	02 Aug 2017	20	13.13	90.94	6.9	33.36	8.0	25.1	1.30
I12	02 Aug 2017	21	13.11	90.67	6.8	33.36	8.0	25.1	1.31
I12	02 Aug 2017	22	13.10	90.19	6.8	33.36	7.9	25.1	1.31
I12	02 Aug 2017	23	13.10	89.68	6.7	33.36	7.9	25.1	1.40
I12	02 Aug 2017	24	13.09	89.09	6.7	33.36	7.9	25.1	1.42
I12	02 Aug 2017	25	13.09	88.44	6.6	33.36	7.9	25.1	1.37
I12	02 Aug 2017	26	13.09	86.99	6.6	33.37	7.9	25.1	1.40
I12	02 Aug 2017	27	13.09	86.82	6.6	33.36	7.9	25.1	1.42
I12	02 Aug 2017	28	13.09	86.68	6.5	33.36	7.9	25.1	1.42
I13	01 Aug 2017	1	21.33	78.09	8.8	33.55	8.2	23.3	0.97
I13	01 Aug 2017	2	20.93	78.18	8.8	33.55	8.2	23.4	1.02
I13	01 Aug 2017	3	20.42	79.00	9.2	33.55	8.2	23.5	1.20
I13	01 Aug 2017	4	19.88	78.80	9.8	33.49	8.2	23.6	1.51
I13	01 Aug 2017	5	19.47	77.11	10.6	33.48	8.2	23.7	2.29
I13	01 Aug 2017	6	18.84	72.80	10.6	33.52	8.2	23.9	3.24
I13	01 Aug 2017	7	17.17	73.01	10.3	33.45	8.1	24.3	4.02
I13	01 Aug 2017	8	16.93	77.09	9.8	33.42	8.1	24.3	4.23
I13	01 Aug 2017	9	16.31	79.64	9.1	33.41	8.0	24.5	4.35
I13	01 Aug 2017	10	15.88	82.04	8.6	33.42	8.0	24.6	3.58
I13	01 Aug 2017	11	15.27	86.48	8.2	33.43	8.0	24.7	2.45
I13	01 Aug 2017	12	14.56	89.28	7.8	33.40	7.9	24.8	1.49
I13	01 Aug 2017	13	14.30	91.29	7.8	33.38	7.9	24.9	1.00
I13	01 Aug 2017	14	14.07	92.08	8.0	33.36	7.9	24.9	0.83
I13	01 Aug 2017	15	13.86	92.20	7.9	33.35	7.9	24.9	0.78
I13	01 Aug 2017	16	13.81	92.27	7.9	33.35	7.9	25.0	0.75
I13	01 Aug 2017	17	13.67	92.40	7.8	33.35	7.9	25.0	0.82

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I13	01 Aug 2017	18	13.48	92.41	7.6	33.36	7.9	25.0	0.72
I13	01 Aug 2017	19	13.40	92.38	7.6	33.35	7.9	25.0	0.68
I13	01 Aug 2017	20	13.24	92.42	7.3	33.37	7.9	25.1	0.69
I13	01 Aug 2017	21	13.04	92.66	7.0	33.38	7.8	25.1	0.66
I13	01 Aug 2017	22	13.01	92.48	6.9	33.38	7.8	25.1	0.67
I13	01 Aug 2017	23	12.98	92.44	6.8	33.38	7.8	25.1	0.68
I13	01 Aug 2017	24	12.91	92.64	6.7	33.39	7.8	25.2	0.68
I13	01 Aug 2017	25	12.86	92.57	6.6	33.39	7.8	25.2	0.69
I13	01 Aug 2017	26	12.65	92.57	6.4	33.40	7.8	25.2	0.67
I13	01 Aug 2017	27	12.59	92.51	6.2	33.40	7.8	25.2	0.67
I13	01 Aug 2017	28	12.60	92.17	6.2	33.40	7.8	25.2	0.68
I13	01 Aug 2017	29	12.55	92.02	6.1	33.40	7.8	25.2	0.71
I13	01 Aug 2017	30	12.56	91.94	6.1	33.40	7.8	25.2	0.72
I13	01 Aug 2017	31	12.52	91.80	6.0	33.41	7.8	25.3	0.76
I13	01 Aug 2017	32	12.45	91.72	5.9	33.41	7.8	25.3	0.75
I13	01 Aug 2017	33	12.36	91.66	5.8	33.42	7.8	25.3	0.71
I13	01 Aug 2017	34	12.27	91.43	5.7	33.42	7.7	25.3	0.69
I13	01 Aug 2017	35	12.23	91.49	5.7	33.42	7.7	25.3	0.64
I13	01 Aug 2017	36	12.20	91.09	5.6	33.42	7.7	25.3	0.63
I13	01 Aug 2017	37	12.20	91.00	5.6	33.42	7.7	25.3	0.56
I14	02 Aug 2017	1	18.96	80.18	9.3	33.46	8.2	23.9	0.89
I14	02 Aug 2017	2	19.08	80.13	9.2	33.45	8.2	23.8	0.94
I14	02 Aug 2017	3	18.70	80.03	9.3	33.50	8.2	24.0	0.99
I14	02 Aug 2017	4	17.29	80.07	10.1	33.44	8.2	24.3	1.30
I14	02 Aug 2017	5	16.90	79.21	9.6	33.44	8.2	24.3	1.47
I14	02 Aug 2017	6	16.12	80.63	9.4	33.40	8.2	24.5	1.81
I14	02 Aug 2017	7	16.10	80.59	9.0	33.39	8.2	24.5	2.04
I14	02 Aug 2017	8	14.46	80.30	8.6	33.35	8.1	24.8	2.56
I14	02 Aug 2017	9	14.33	81.20	8.3	33.31	8.1	24.8	2.64
I14	02 Aug 2017	10	14.19	84.59	8.1	33.31	8.1	24.8	2.11
I14	02 Aug 2017	11	13.93	87.71	7.9	33.27	8.0	24.9	1.93
I14	02 Aug 2017	12	13.85	88.02	7.9	33.30	8.0	24.9	1.79
I14	02 Aug 2017	13	13.79	88.85	7.9	33.30	8.0	24.9	1.64
I14	02 Aug 2017	14	13.78	90.07	7.9	33.33	8.0	24.9	1.40
I14	02 Aug 2017	15	13.71	90.86	7.8	33.34	8.0	25.0	1.33
I14	02 Aug 2017	16	13.51	91.00	7.6	33.35	8.0	25.0	1.48
I14	02 Aug 2017	17	13.48	90.58	7.4	33.35	8.0	25.0	1.54
I14	02 Aug 2017	18	13.16	90.32	7.0	33.37	7.9	25.1	1.49
I14	02 Aug 2017	19	13.12	90.13	6.9	33.36	7.9	25.1	1.44
I14	02 Aug 2017	20	13.12	89.76	6.8	33.36	7.9	25.1	1.46
I14	02 Aug 2017	21	13.13	89.81	6.8	33.36	7.9	25.1	1.51
I14	02 Aug 2017	22	13.10	89.90	6.8	33.36	7.9	25.1	1.50
I14	02 Aug 2017	23	13.09	89.63	6.7	33.36	7.9	25.1	1.49
I14	02 Aug 2017	24	13.09	89.34	6.7	33.36	7.9	25.1	1.44
I14	02 Aug 2017	25	13.09	88.83	6.6	33.36	7.9	25.1	1.39
I14	02 Aug 2017	26	13.09	88.37	6.6	33.37	7.9	25.1	1.41
I14	02 Aug 2017	27	13.09	88.18	6.6	33.37	7.9	25.1	1.39
I14	02 Aug 2017	28	13.09	87.51	6.5	33.37	7.9	25.1	1.35
I15	02 Aug 2017	1	20.74	78.26	8.4	33.48	8.2	23.4	1.18
I15	02 Aug 2017	2	20.76	78.27	8.4	33.48	8.2	23.4	1.20
I15	02 Aug 2017	3	20.60	78.13	8.4	33.48	8.2	23.4	1.27
I15	02 Aug 2017	4	20.55	78.25	8.4	33.48	8.2	23.5	1.29
I15	02 Aug 2017	5	20.37	78.34	8.4	33.48	8.2	23.5	1.29

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I15	02 Aug 2017	6	20.23	79.03	8.4	33.48	8.2	23.5	1.28
I15	02 Aug 2017	7	19.18	79.89	9.0	33.52	8.2	23.8	1.19
I15	02 Aug 2017	8	18.13	80.81	9.9	33.45	8.2	24.1	1.20
I15	02 Aug 2017	9	17.50	79.57	9.9	33.48	8.2	24.2	1.46
I15	02 Aug 2017	10	16.81	79.41	9.7	33.41	8.2	24.3	1.94
I15	02 Aug 2017	11	16.52	79.62	9.4	33.40	8.2	24.4	2.26
I15	02 Aug 2017	12	16.16	80.52	9.0	33.41	8.2	24.5	2.69
I15	02 Aug 2017	13	15.31	77.97	8.6	33.38	8.1	24.7	3.96
I15	02 Aug 2017	14	14.77	79.39	8.4	33.34	8.1	24.7	4.08
I15	02 Aug 2017	15	14.47	84.92	7.9	33.33	8.0	24.8	3.32
I15	02 Aug 2017	16	13.63	87.59	7.6	33.21	8.0	24.9	1.97
I15	02 Aug 2017	17	13.79	89.18	7.8	33.26	8.0	24.9	1.60
I15	02 Aug 2017	18	13.82	89.94	7.9	33.33	8.0	24.9	1.42
I15	02 Aug 2017	19	13.62	91.23	7.8	33.34	8.0	25.0	1.24
I15	02 Aug 2017	20	13.48	91.57	7.6	33.34	8.0	25.0	1.16
I15	02 Aug 2017	21	13.39	91.68	7.4	33.36	8.0	25.0	1.14
I15	02 Aug 2017	22	13.25	91.74	7.3	33.36	8.0	25.1	1.12
I15	02 Aug 2017	23	13.19	91.92	7.1	33.37	7.9	25.1	1.09
I15	02 Aug 2017	24	13.16	91.67	7.0	33.37	7.9	25.1	1.09
I15	02 Aug 2017	25	13.12	90.97	6.9	33.36	7.9	25.1	1.19
I15	02 Aug 2017	26	13.12	90.48	6.8	33.36	7.9	25.1	1.22
I15	02 Aug 2017	27	13.10	90.40	6.8	33.36	7.9	25.1	1.23
I15	02 Aug 2017	28	13.09	90.17	6.7	33.37	7.9	25.1	1.29
I15	02 Aug 2017	29	13.03	89.64	6.5	33.38	7.9	25.1	1.28
I15	02 Aug 2017	30	12.88	89.65	6.4	33.38	7.9	25.2	1.17
I15	02 Aug 2017	31	12.82	89.42	6.3	33.38	7.9	25.2	1.05
I16	02 Aug 2017	1	20.12	79.65	8.5	33.49	8.2	23.6	1.10
I16	02 Aug 2017	2	19.30	80.02	8.8	33.51	8.2	23.8	1.02
I16	02 Aug 2017	3	18.39	80.75	9.6	33.47	8.2	24.0	1.01
I16	02 Aug 2017	4	17.47	79.61	9.4	33.48	8.2	24.2	1.24
I16	02 Aug 2017	5	16.14	80.49	9.3	33.38	8.2	24.5	2.01
I16	02 Aug 2017	6	15.86	78.87	9.1	33.35	8.2	24.5	3.15
I16	02 Aug 2017	7	15.06	75.86	8.7	33.35	8.1	24.7	4.23
I16	02 Aug 2017	8	14.57	77.93	8.5	33.30	8.1	24.8	4.06
I16	02 Aug 2017	9	14.40	81.55	8.3	33.32	8.1	24.8	3.77
I16	02 Aug 2017	10	14.14	84.80	8.1	33.29	8.0	24.8	2.80
I16	02 Aug 2017	11	14.13	87.51	8.0	33.28	8.0	24.8	2.48
I16	02 Aug 2017	12	13.91	88.34	7.9	33.26	8.0	24.9	2.15
I16	02 Aug 2017	13	13.98	88.61	7.9	33.33	8.0	24.9	2.02
I16	02 Aug 2017	14	13.63	89.03	7.6	33.32	8.0	25.0	1.82
I16	02 Aug 2017	15	13.42	89.29	7.3	33.28	8.0	25.0	1.61
I16	02 Aug 2017	16	13.37	90.02	7.2	33.34	8.0	25.0	1.63
I16	02 Aug 2017	17	13.22	90.60	7.1	33.36	7.9	25.1	1.69
I16	02 Aug 2017	18	13.14	90.22	6.9	33.36	7.9	25.1	1.53
I16	02 Aug 2017	19	13.12	89.17	6.7	33.36	7.9	25.1	1.51
I16	02 Aug 2017	20	13.12	88.57	6.7	33.37	7.9	25.1	1.51
I16	02 Aug 2017	21	13.10	88.04	6.6	33.36	7.9	25.1	1.44
I16	02 Aug 2017	22	13.10	87.74	6.6	33.37	7.9	25.1	1.43
I16	02 Aug 2017	23	13.10	87.64	6.6	33.37	7.9	25.1	1.41
I16	02 Aug 2017	24	13.11	87.68	6.6	33.37	7.9	25.1	1.45
I16	02 Aug 2017	25	13.10	87.80	6.6	33.37	7.9	25.1	1.41
I16	02 Aug 2017	26	13.10	87.71	6.6	33.37	7.9	25.1	1.42
I16	02 Aug 2017	27	13.10	87.49	6.6	33.37	7.9	25.1	1.49
I16	02 Aug 2017	28	13.10	87.63	6.5	33.37	7.9	25.1	1.43

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I17	02 Aug 2017	1	20.42	77.93	8.3	33.49	8.2	23.5	1.13
I17	02 Aug 2017	2	19.52	78.63	8.6	33.52	8.2	23.8	1.00
I17	02 Aug 2017	3	18.46	80.49	9.3	33.48	8.2	24.0	0.93
I17	02 Aug 2017	4	18.07	81.49	9.6	33.45	8.2	24.1	1.03
I17	02 Aug 2017	5	16.82	80.99	9.7	33.45	8.2	24.4	1.24
I17	02 Aug 2017	6	16.50	81.32	9.6	33.39	8.2	24.4	1.50
I17	02 Aug 2017	7	16.28	81.25	9.2	33.40	8.2	24.4	1.74
I17	02 Aug 2017	8	15.07	81.19	8.9	33.40	8.1	24.7	2.31
I17	02 Aug 2017	9	15.01	81.22	8.7	33.30	8.1	24.7	2.62
I17	02 Aug 2017	10	14.39	82.49	8.5	33.35	8.1	24.8	2.89
I17	02 Aug 2017	11	14.31	83.33	8.5	33.31	8.1	24.8	3.10
I17	02 Aug 2017	12	14.38	83.70	8.4	33.34	8.1	24.8	3.17
I17	02 Aug 2017	13	14.07	83.14	8.3	33.34	8.0	24.9	3.36
I17	02 Aug 2017	14	14.06	83.96	8.2	33.34	8.0	24.9	3.29
I17	02 Aug 2017	15	13.87	86.25	8.0	33.35	8.0	24.9	2.78
I17	02 Aug 2017	16	13.66	88.24	7.8	33.36	8.0	25.0	2.26
I17	02 Aug 2017	17	13.56	89.75	7.6	33.37	8.0	25.0	2.19
I17	02 Aug 2017	18	13.22	89.58	7.1	33.37	8.0	25.1	2.00
I17	02 Aug 2017	19	13.13	88.93	6.8	33.36	7.9	25.1	1.78
I17	02 Aug 2017	20	13.13	87.30	6.8	33.36	7.9	25.1	1.70
I17	02 Aug 2017	21	13.15	86.88	6.7	33.36	7.9	25.1	1.69
I17	02 Aug 2017	22	13.13	86.92	6.7	33.36	7.9	25.1	1.70
I17	02 Aug 2017	23	13.14	86.79	6.7	33.36	7.9	25.1	1.60
I17	02 Aug 2017	24	13.14	86.33	6.6	33.37	7.9	25.1	1.59
I18	02 Aug 2017	1	20.45	74.64	8.8	33.48	8.2	23.5	1.71
I18	02 Aug 2017	2	20.14	75.16	8.8	33.51	8.2	23.6	1.70
I18	02 Aug 2017	3	19.16	78.47	9.2	33.46	8.2	23.8	1.45
I18	02 Aug 2017	4	18.70	79.97	9.4	33.50	8.2	23.9	1.39
I18	02 Aug 2017	5	17.86	80.15	9.8	33.44	8.2	24.1	1.44
I18	02 Aug 2017	6	17.48	80.41	9.7	33.43	8.2	24.2	1.65
I18	02 Aug 2017	7	17.27	79.89	9.6	33.40	8.2	24.2	1.99
I18	02 Aug 2017	8	16.19	79.82	9.2	33.40	8.2	24.5	2.21
I18	02 Aug 2017	9	15.47	80.90	9.2	33.36	8.1	24.6	2.61
I18	02 Aug 2017	10	15.35	81.82	9.0	33.38	8.1	24.6	3.02
I18	02 Aug 2017	11	14.63	81.40	8.6	33.36	8.1	24.8	3.62
I18	02 Aug 2017	12	14.29	81.26	7.9	33.37	8.0	24.9	4.52
I18	02 Aug 2017	13	14.12	77.72	7.4	33.37	8.0	24.9	5.48
I18	02 Aug 2017	14	14.03	76.31	7.1	33.37	8.0	24.9	5.80
I18	02 Aug 2017	15	13.89	75.95	7.0	33.38	7.9	25.0	6.17
I18	02 Aug 2017	16	13.59	75.21	7.0	33.37	7.9	25.0	6.42
I18	02 Aug 2017	17	13.50	75.55	7.0	33.36	7.9	25.0	6.32
I18	02 Aug 2017	18	13.47	75.83	6.8	33.36	7.9	25.0	5.59
I18	02 Aug 2017	19	13.46	76.04	6.7	33.37	7.9	25.0	4.66
I20	01 Aug 2017	1	21.87	76.96	10.1	33.57	8.2	23.2	2.62
I20	01 Aug 2017	2	21.74	75.43	10.3	33.57	8.2	23.2	2.87
I20	01 Aug 2017	3	21.60	74.54	10.7	33.56	8.2	23.2	3.47
I20	01 Aug 2017	4	20.57	73.94	12.2	33.54	8.2	23.5	5.64
I20	01 Aug 2017	5	19.97	70.12	13.2	33.47	8.2	23.6	8.27
I20	01 Aug 2017	6	19.66	62.40	12.8	33.47	8.2	23.7	10.99
I20	01 Aug 2017	7	18.84	61.49	11.9	33.44	8.2	23.9	13.72
I20	01 Aug 2017	8	18.68	64.08	11.0	33.44	8.2	23.9	12.68
I20	01 Aug 2017	9	17.58	68.41	9.8	33.47	8.1	24.2	8.10

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I20	01 Aug 2017	10	16.69	82.04	9.1	33.41	8.0	24.4	4.00
I20	01 Aug 2017	11	15.85	85.84	8.6	33.42	8.0	24.6	2.30
I20	01 Aug 2017	12	15.51	87.17	8.2	33.39	7.9	24.6	1.66
I20	01 Aug 2017	13	14.99	88.52	8.0	33.37	7.9	24.7	1.27
I20	01 Aug 2017	14	14.86	90.32	7.8	33.39	7.9	24.8	0.98
I20	01 Aug 2017	15	14.65	90.86	7.6	33.38	7.9	24.8	0.78
I20	01 Aug 2017	16	14.61	91.15	7.5	33.38	7.9	24.8	0.69
I20	01 Aug 2017	17	14.30	91.46	7.3	33.39	7.8	24.9	0.65
I20	01 Aug 2017	18	14.15	91.50	7.2	33.39	7.8	24.9	0.61
I20	01 Aug 2017	19	13.73	91.58	6.9	33.42	7.8	25.0	0.56
I20	01 Aug 2017	20	13.50	91.84	6.6	33.41	7.8	25.1	0.55
I20	01 Aug 2017	21	13.25	92.00	6.5	33.41	7.8	25.1	0.52
I20	01 Aug 2017	22	13.05	92.21	6.4	33.41	7.8	25.1	0.50
I20	01 Aug 2017	23	12.93	92.41	6.4	33.40	7.8	25.2	0.46
I20	01 Aug 2017	24	12.91	92.50	6.3	33.40	7.8	25.2	0.46
I20	01 Aug 2017	25	12.59	92.63	6.3	33.40	7.8	25.2	0.47
I20	01 Aug 2017	26	12.55	92.80	6.3	33.39	7.7	25.2	0.43
I20	01 Aug 2017	27	12.43	92.83	6.1	33.40	7.7	25.3	0.43
I20	01 Aug 2017	28	12.42	93.05	6.1	33.40	7.7	25.3	0.39
I20	01 Aug 2017	29	12.35	93.12	6.0	33.41	7.7	25.3	0.34
I20	01 Aug 2017	30	12.32	93.21	5.9	33.42	7.7	25.3	0.31
I20	01 Aug 2017	31	12.26	93.22	5.8	33.42	7.7	25.3	0.30
I20	01 Aug 2017	32	12.09	93.14	5.8	33.44	7.7	25.4	0.30
I20	01 Aug 2017	33	11.97	93.25	5.7	33.44	7.7	25.4	0.30
I20	01 Aug 2017	34	12.01	93.33	5.7	33.43	7.7	25.4	0.30
I20	01 Aug 2017	35	11.93	93.43	5.6	33.45	7.7	25.4	0.25
I20	01 Aug 2017	36	11.83	93.24	5.6	33.44	7.7	25.4	0.28
I20	01 Aug 2017	37	11.84	93.35	5.6	33.44	7.7	25.4	0.28
I20	01 Aug 2017	38	11.71	93.46	5.7	33.44	7.7	25.4	0.34
I20	01 Aug 2017	39	11.64	93.44	5.7	33.43	7.7	25.4	0.35
I20	01 Aug 2017	40	11.65	93.36	5.8	33.43	7.7	25.4	0.34
I20	01 Aug 2017	41	11.61	93.43	5.8	33.43	7.7	25.4	0.34
I20	01 Aug 2017	42	11.54	93.52	5.8	33.43	7.7	25.5	0.37
I20	01 Aug 2017	43	11.56	93.47	5.8	33.43	7.7	25.4	0.36
I20	01 Aug 2017	44	11.53	93.50	5.7	33.43	7.7	25.5	0.33
I20	01 Aug 2017	45	11.51	93.52	5.7	33.43	7.7	25.5	0.35
I20	01 Aug 2017	46	11.42	93.49	5.6	33.44	7.7	25.5	0.34
I20	01 Aug 2017	47	11.34	93.43	5.5	33.46	7.7	25.5	0.32
I20	01 Aug 2017	48	11.21	93.37	5.3	33.48	7.7	25.6	0.32
I20	01 Aug 2017	49	11.22	92.96	5.2	33.49	7.7	25.6	0.29
I20	01 Aug 2017	50	11.22	92.82	5.1	33.49	7.6	25.6	0.28
I20	01 Aug 2017	51	11.21	92.67	5.1	33.49	7.6	25.6	0.26
I20	01 Aug 2017	52	11.20	92.54	5.1	33.50	7.6	25.6	0.25
I20	01 Aug 2017	53	11.19	92.41	5.0	33.50	7.6	25.6	0.27
I20	01 Aug 2017	54	11.19	92.46	5.0	33.50	7.6	25.6	0.24
I21	01 Aug 2017	1	21.40	77.52	9.1	33.55	8.2	23.3	0.93
I21	01 Aug 2017	2	21.25	70.73	8.9	33.56	8.2	23.3	0.95
I21	01 Aug 2017	3	20.75	77.84	8.9	33.53	8.2	23.4	1.05
I21	01 Aug 2017	4	20.58	78.38	8.7	33.54	8.2	23.5	1.08
I21	01 Aug 2017	5	20.08	78.89	8.7	33.51	8.1	23.6	1.19
I21	01 Aug 2017	6	19.89	78.71	8.6	33.51	8.1	23.7	1.33
I21	01 Aug 2017	7	19.52	79.21	8.6	33.49	8.1	23.7	1.38
I21	01 Aug 2017	8	19.03	80.66	8.6	33.49	8.1	23.9	1.52
I21	01 Aug 2017	9	17.89	80.40	8.9	33.50	8.1	24.1	1.92

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I21	01 Aug 2017	10	16.20	79.27	8.9	33.43	8.1	24.5	2.50
I21	01 Aug 2017	11	15.57	80.75	8.4	33.41	8.0	24.6	2.30
I21	01 Aug 2017	12	15.37	86.69	8.2	33.37	8.0	24.6	1.80
I21	01 Aug 2017	13	15.01	88.45	7.8	33.39	8.0	24.7	1.43
I21	01 Aug 2017	14	14.49	89.55	7.5	33.40	7.9	24.8	1.12
I21	01 Aug 2017	15	14.00	90.39	7.3	33.39	7.9	24.9	0.89
I21	01 Aug 2017	16	14.03	91.68	7.3	33.40	7.9	24.9	0.77
I21	01 Aug 2017	17	13.54	92.09	7.2	33.38	7.9	25.0	0.70
I21	01 Aug 2017	18	13.46	92.14	7.2	33.36	7.9	25.0	0.64
I21	01 Aug 2017	19	13.42	92.11	7.2	33.37	7.8	25.0	0.62
I21	01 Aug 2017	20	13.35	92.29	7.1	33.37	7.8	25.1	0.63
I21	01 Aug 2017	21	13.10	92.46	7.0	33.37	7.8	25.1	0.63
I21	01 Aug 2017	22	12.84	92.53	6.9	33.37	7.8	25.2	0.59
I21	01 Aug 2017	23	12.79	92.79	6.8	33.38	7.8	25.2	0.61
I21	01 Aug 2017	24	12.70	92.85	6.6	33.38	7.8	25.2	0.63
I21	01 Aug 2017	25	12.62	92.52	6.5	33.39	7.8	25.2	0.62
I21	01 Aug 2017	26	12.55	92.86	6.4	33.39	7.8	25.2	0.62
I21	01 Aug 2017	27	12.51	92.93	6.4	33.39	7.8	25.2	0.58
I21	01 Aug 2017	28	12.48	92.93	6.3	33.40	7.8	25.2	0.56
I21	01 Aug 2017	29	12.42	92.89	6.2	33.40	7.8	25.3	0.59
I21	01 Aug 2017	30	12.41	92.55	6.1	33.41	7.8	25.3	0.72
I21	01 Aug 2017	31	12.40	92.24	6.1	33.41	7.8	25.3	0.75
I21	01 Aug 2017	32	12.39	92.24	6.0	33.41	7.8	25.3	0.71
I21	01 Aug 2017	33	12.34	92.28	5.9	33.42	7.8	25.3	0.68
I21	01 Aug 2017	34	12.27	91.95	5.8	33.42	7.7	25.3	0.64
I21	01 Aug 2017	35	12.19	91.87	5.8	33.42	7.7	25.3	0.66
I21	01 Aug 2017	36	12.13	92.25	6.0	33.42	7.7	25.3	0.61
I21	01 Aug 2017	37	12.07	92.83	5.9	33.42	7.8	25.3	0.67
I21	01 Aug 2017	38	12.04	92.45	5.8	33.42	7.7	25.4	0.54
I21	01 Aug 2017	39	11.99	91.79	5.7	33.44	7.7	25.4	0.57
I21	01 Aug 2017	40	11.96	91.48	5.6	33.43	7.7	25.4	0.50
I22	02 Aug 2017	1	20.71	78.78	8.5	33.47	8.2	23.4	1.27
I22	02 Aug 2017	2	19.46	79.45	8.7	33.50	8.2	23.8	1.23
I22	02 Aug 2017	3	17.52	81.13	9.7	33.45	8.2	24.2	1.30
I22	02 Aug 2017	4	17.06	80.79	9.8	33.41	8.2	24.3	1.51
I22	02 Aug 2017	5	16.33	80.82	9.4	33.39	8.2	24.4	1.92
I22	02 Aug 2017	6	16.13	81.08	9.1	33.37	8.2	24.5	2.59
I22	02 Aug 2017	7	15.69	79.57	8.8	33.38	8.2	24.6	3.18
I22	02 Aug 2017	8	14.79	79.10	8.9	33.31	8.1	24.7	3.77
I22	02 Aug 2017	9	14.94	81.10	8.4	33.36	8.1	24.7	3.70
I22	02 Aug 2017	10	13.95	82.84	8.1	33.30	8.1	24.9	2.85
I22	02 Aug 2017	11	13.90	87.20	8.0	33.27	8.0	24.9	2.23
I22	02 Aug 2017	12	13.85	88.86	7.8	33.29	8.0	24.9	2.15
I22	02 Aug 2017	13	13.78	89.29	7.9	33.29	8.0	24.9	1.68
I22	02 Aug 2017	14	13.81	90.34	8.0	33.33	8.0	24.9	1.56
I22	02 Aug 2017	15	13.75	90.71	7.8	33.33	8.0	24.9	1.61
I22	02 Aug 2017	16	13.40	90.45	7.4	33.34	8.0	25.0	1.67
I22	02 Aug 2017	17	13.32	90.14	7.3	33.34	8.0	25.0	1.63
I22	02 Aug 2017	18	13.24	90.01	7.1	33.36	8.0	25.1	1.67
I22	02 Aug 2017	19	13.14	89.95	6.9	33.36	8.0	25.1	1.73
I22	02 Aug 2017	20	13.11	88.61	6.7	33.36	8.0	25.1	1.69
I22	02 Aug 2017	21	13.11	87.47	6.7	33.36	7.9	25.1	1.64
I22	02 Aug 2017	22	13.13	87.53	6.7	33.36	7.9	25.1	1.63
I22	02 Aug 2017	23	13.11	87.43	6.7	33.36	7.9	25.1	1.59

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I22	02 Aug 2017	24	13.11	87.29	6.7	33.36	7.9	25.1	1.60
I22	02 Aug 2017	25	13.11	87.36	6.6	33.36	7.9	25.1	1.60
I22	02 Aug 2017	26	13.11	87.75	6.7	33.37	7.9	25.1	1.58
I22	02 Aug 2017	27	13.11	88.02	6.6	33.37	7.9	25.1	1.60
I22	02 Aug 2017	28	13.11	87.33	6.6	33.37	7.9	25.1	1.55
I23	02 Aug 2017	1	20.80	72.56	8.5	33.48	8.2	23.4	1.85
I23	02 Aug 2017	2	20.53	73.81	8.5	33.49	8.2	23.5	1.88
I23	02 Aug 2017	3	20.26	74.98	8.5	33.49	8.2	23.5	1.88
I23	02 Aug 2017	4	18.83	76.93	9.0	33.53	8.2	23.9	1.76
I23	02 Aug 2017	5	17.86	79.25	9.6	33.44	8.2	24.1	1.57
I23	02 Aug 2017	6	17.73	80.04	9.5	33.41	8.2	24.1	1.61
I23	02 Aug 2017	7	16.57	79.42	9.3	33.47	8.2	24.4	1.92
I23	02 Aug 2017	8	15.66	78.28	9.0	33.40	8.2	24.6	2.60
I23	02 Aug 2017	9	15.00	76.79	8.7	33.38	8.1	24.7	3.65
I23	02 Aug 2017	10	14.68	78.21	8.5	33.38	8.1	24.8	3.65
I23	02 Aug 2017	11	14.15	82.30	8.4	33.36	8.1	24.9	3.22
I23	02 Aug 2017	12	14.10	85.08	8.4	33.34	8.0	24.9	3.14
I23	02 Aug 2017	13	13.88	84.03	8.0	33.36	8.0	24.9	4.38
I23	02 Aug 2017	14	13.81	78.48	7.7	33.35	8.0	25.0	6.15
I23	02 Aug 2017	15	13.63	73.25	7.4	33.36	8.0	25.0	7.69
I23	02 Aug 2017	16	13.57	71.84	7.2	33.36	8.0	25.0	8.95
I23	02 Aug 2017	17	13.55	71.39	7.1	33.36	7.9	25.0	8.37
I23	02 Aug 2017	18	13.52	73.71	7.0	33.36	7.9	25.0	6.71
I23	02 Aug 2017	19	13.56	76.29	7.0	33.37	7.9	25.0	6.40
I23	02 Aug 2017	20	13.50	76.73	7.0	33.37	7.9	25.0	4.70
I23	02 Aug 2017	21	13.49	77.68	6.9	33.37	7.9	25.0	3.53
I27	02 Aug 2017	1	19.36	81.23	8.6	33.46	8.1	23.8	1.13
I27	02 Aug 2017	2	19.29	81.38	8.5	33.48	8.1	23.8	1.13
I27	02 Aug 2017	3	18.18	81.74	8.8	33.48	8.1	24.1	1.23
I27	02 Aug 2017	4	17.77	82.34	9.1	33.45	8.1	24.1	1.34
I27	02 Aug 2017	5	17.42	82.17	9.1	33.44	8.1	24.2	1.47
I27	02 Aug 2017	6	16.27	82.79	9.1	33.43	8.1	24.5	1.66
I27	02 Aug 2017	7	16.05	83.31	9.1	33.39	8.1	24.5	1.89
I27	02 Aug 2017	8	15.70	83.51	8.7	33.40	8.1	24.6	2.62
I27	02 Aug 2017	9	15.25	80.94	8.2	33.36	8.0	24.7	4.07
I27	02 Aug 2017	10	14.41	79.64	8.1	33.34	8.0	24.8	3.57
I27	02 Aug 2017	11	14.30	84.83	8.2	33.28	8.0	24.8	2.81
I27	02 Aug 2017	12	14.06	86.72	8.0	33.32	8.0	24.9	2.44
I27	02 Aug 2017	13	13.78	88.16	7.9	33.33	7.9	24.9	1.92
I27	02 Aug 2017	14	13.81	90.04	7.8	33.32	7.9	24.9	1.81
I27	02 Aug 2017	15	13.61	90.23	7.6	33.32	7.9	25.0	1.61
I27	02 Aug 2017	16	13.51	90.17	7.5	33.31	7.9	25.0	1.42
I27	02 Aug 2017	17	13.44	90.57	7.4	33.35	7.9	25.0	1.32
I27	02 Aug 2017	18	13.29	90.95	7.2	33.37	7.9	25.1	1.39
I27	02 Aug 2017	19	13.22	90.68	7.0	33.36	7.9	25.1	1.37
I27	02 Aug 2017	20	13.11	90.68	6.9	33.37	7.9	25.1	1.32
I27	02 Aug 2017	21	13.10	90.20	6.8	33.36	7.8	25.1	1.33
I27	02 Aug 2017	22	13.07	88.92	6.6	33.37	7.8	25.1	1.32
I27	02 Aug 2017	23	13.07	87.90	6.6	33.37	7.8	25.1	1.33
I27	02 Aug 2017	24	13.07	87.47	6.6	33.37	7.8	25.1	1.36
I27	02 Aug 2017	25	13.07	87.15	6.6	33.37	7.8	25.1	1.35
I27	02 Aug 2017	26	13.07	86.54	6.5	33.37	7.8	25.1	1.36
I27	02 Aug 2017	27	13.07	86.62	6.5	33.37	7.8	25.1	1.37

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I27	02 Aug 2017	28	13.07	85.28	6.5	33.37	7.8	25.1	1.37
I28	03 Aug 2017	1	22.93	81.09	8.8	33.53	8.3	22.8	1.43
I28	03 Aug 2017	2	22.82	78.83	8.6	33.54	8.3	22.9	1.49
I28	03 Aug 2017	3	22.40	83.30	9.0	33.55	8.3	23.0	1.60
I28	03 Aug 2017	4	21.62	83.28	10.1	33.57	8.3	23.2	1.89
I28	03 Aug 2017	5	20.44	82.37	11.6	33.53	8.4	23.5	2.17
I28	03 Aug 2017	6	19.67	80.06	12.5	33.48	8.4	23.7	2.45
I28	03 Aug 2017	7	19.17	79.40	12.9	33.43	8.4	23.8	2.87
I28	03 Aug 2017	8	18.58	78.03	12.6	33.46	8.4	23.9	3.34
I28	03 Aug 2017	9	17.73	76.92	12.0	33.45	8.3	24.1	4.22
I28	03 Aug 2017	10	16.65	76.08	10.4	33.44	8.2	24.4	5.60
I28	03 Aug 2017	11	15.93	74.57	9.0	33.41	8.2	24.5	6.28
I28	03 Aug 2017	12	15.56	75.11	8.5	33.39	8.1	24.6	5.68
I28	03 Aug 2017	13	15.37	78.03	8.2	33.39	8.1	24.6	5.31
I28	03 Aug 2017	14	15.09	79.31	7.9	33.39	8.0	24.7	4.60
I28	03 Aug 2017	15	14.91	82.10	7.7	33.39	8.0	24.8	3.46
I28	03 Aug 2017	16	14.71	84.49	7.6	33.39	8.0	24.8	2.26
I28	03 Aug 2017	17	14.55	85.94	7.4	33.39	8.0	24.8	1.59
I28	03 Aug 2017	18	14.36	88.88	7.3	33.40	7.9	24.9	1.37
I28	03 Aug 2017	19	14.20	89.78	7.1	33.40	7.9	24.9	1.20
I28	03 Aug 2017	20	13.68	90.35	6.8	33.41	7.9	25.0	0.99
I28	03 Aug 2017	21	13.44	91.13	6.6	33.40	7.9	25.1	0.87
I28	03 Aug 2017	22	13.25	91.45	6.5	33.40	7.8	25.1	0.81
I28	03 Aug 2017	23	13.19	91.46	6.5	33.39	7.8	25.1	0.77
I28	03 Aug 2017	24	13.13	91.93	6.4	33.40	7.8	25.1	0.74
I28	03 Aug 2017	25	12.95	91.98	6.3	33.41	7.8	25.2	0.73
I28	03 Aug 2017	26	12.85	92.15	6.2	33.41	7.8	25.2	0.74
I28	03 Aug 2017	27	12.79	92.13	6.0	33.41	7.8	25.2	0.73
I28	03 Aug 2017	28	12.71	92.18	5.9	33.41	7.8	25.2	0.72
I28	03 Aug 2017	29	12.62	92.24	5.9	33.42	7.8	25.2	0.69
I28	03 Aug 2017	30	12.55	92.20	5.8	33.42	7.8	25.3	0.64
I28	03 Aug 2017	31	12.53	92.42	5.8	33.42	7.8	25.3	0.61
I28	03 Aug 2017	32	12.48	92.47	5.8	33.42	7.8	25.3	0.60
I28	03 Aug 2017	33	12.43	92.45	5.8	33.42	7.8	25.3	0.57
I28	03 Aug 2017	34	12.33	92.62	5.9	33.42	7.8	25.3	0.56
I28	03 Aug 2017	35	12.28	92.69	5.9	33.41	7.8	25.3	0.53
I28	03 Aug 2017	36	12.24	92.95	5.9	33.42	7.8	25.3	0.53
I28	03 Aug 2017	37	12.18	92.93	5.8	33.42	7.8	25.3	0.49
I28	03 Aug 2017	38	12.12	93.02	5.8	33.43	7.8	25.3	0.44
I28	03 Aug 2017	39	12.05	93.16	5.7	33.43	7.8	25.4	0.43
I28	03 Aug 2017	40	11.95	93.24	5.6	33.44	7.8	25.4	0.40
I28	03 Aug 2017	41	11.86	93.33	5.6	33.44	7.7	25.4	0.38
I28	03 Aug 2017	42	11.82	93.42	5.5	33.45	7.7	25.4	0.38
I28	03 Aug 2017	43	11.65	93.37	5.6	33.44	7.7	25.4	0.41
I28	03 Aug 2017	44	11.55	93.38	5.6	33.44	7.7	25.5	0.45
I28	03 Aug 2017	45	11.49	93.35	5.5	33.45	7.7	25.5	0.42
I28	03 Aug 2017	46	11.44	93.50	5.5	33.45	7.7	25.5	0.43
I28	03 Aug 2017	47	11.44	93.48	5.5	33.45	7.7	25.5	0.44
I28	03 Aug 2017	48	11.44	93.37	5.4	33.46	7.7	25.5	0.44
I28	03 Aug 2017	49	11.44	92.83	5.3	33.46	7.7	25.5	0.43
I28	03 Aug 2017	50	11.41	93.04	5.1	33.49	7.7	25.5	0.43
I28	03 Aug 2017	51	11.35	92.82	4.9	33.50	7.7	25.5	0.41
I28	03 Aug 2017	52	11.33	91.82	4.8	33.51	7.7	25.6	0.42
I28	03 Aug 2017	53	11.29	92.12	4.8	33.52	7.7	25.6	0.38

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I28	03 Aug 2017	54	11.27	92.00	4.7	33.52	7.7	25.6	0.37
I28	03 Aug 2017	55	11.25	91.91	4.7	33.52	7.7	25.6	0.36
I29	03 Aug 2017	1	20.03	79.22	8.8	33.51	8.3	23.6	1.73
I29	03 Aug 2017	2	19.82	78.95	8.8	33.51	8.2	23.7	1.87
I29	03 Aug 2017	3	19.66	78.54	8.7	33.50	8.2	23.7	2.02
I29	03 Aug 2017	4	19.43	78.14	8.5	33.51	8.2	23.8	2.33
I29	03 Aug 2017	5	19.42	76.44	8.4	33.51	8.2	23.8	2.64
I29	03 Aug 2017	6	19.23	75.98	8.3	33.51	8.2	23.8	2.63
I29	03 Aug 2017	7	18.01	77.96	8.5	33.52	8.2	24.1	2.66
I29	03 Aug 2017	8	16.04	82.19	8.4	33.54	8.2	24.6	2.52
I29	03 Aug 2017	9	15.44	83.58	8.2	33.40	8.1	24.6	2.89
I29	03 Aug 2017	10	15.17	82.59	8.1	33.39	8.1	24.7	4.27
I29	03 Aug 2017	11	15.03	79.06	7.9	33.38	8.0	24.7	5.31
I29	03 Aug 2017	12	14.75	79.71	7.6	33.40	8.0	24.8	4.87
I29	03 Aug 2017	13	14.26	84.07	7.5	33.40	8.0	24.9	3.25
I29	03 Aug 2017	14	13.75	88.65	7.3	33.38	8.0	25.0	1.98
I29	03 Aug 2017	15	13.60	90.83	7.2	33.36	7.9	25.0	1.44
I29	03 Aug 2017	16	13.55	91.45	7.2	33.36	7.9	25.0	1.25
I29	03 Aug 2017	17	13.48	91.27	7.3	33.36	7.9	25.0	1.16
I29	03 Aug 2017	18	13.41	91.55	7.3	33.35	7.9	25.0	1.14
I29	03 Aug 2017	19	13.32	91.82	7.3	33.36	7.9	25.1	1.08
I29	03 Aug 2017	20	13.16	91.86	7.2	33.37	7.9	25.1	1.05
I29	03 Aug 2017	21	13.06	92.05	7.1	33.36	7.9	25.1	1.00
I29	03 Aug 2017	22	12.99	92.17	7.0	33.37	7.9	25.1	1.38
I29	03 Aug 2017	23	12.92	92.12	6.8	33.37	7.9	25.1	1.32
I29	03 Aug 2017	24	12.89	92.26	6.7	33.38	7.9	25.2	1.06
I29	03 Aug 2017	25	12.79	92.39	6.6	33.39	7.9	25.2	0.93
I29	03 Aug 2017	26	12.74	92.41	6.5	33.38	7.8	25.2	0.90
I29	03 Aug 2017	27	12.69	92.56	6.4	33.40	7.8	25.2	0.88
I29	03 Aug 2017	28	12.54	92.46	6.2	33.41	7.8	25.2	0.85
I29	03 Aug 2017	29	12.43	92.20	6.1	33.41	7.8	25.3	0.86
I29	03 Aug 2017	30	12.41	91.71	5.9	33.41	7.8	25.3	0.84
I29	03 Aug 2017	31	12.32	91.18	5.8	33.41	7.8	25.3	0.78
I29	03 Aug 2017	32	12.28	90.93	5.8	33.41	7.8	25.3	0.70
I29	03 Aug 2017	33	12.24	90.97	5.8	33.41	7.8	25.3	0.69
I29	03 Aug 2017	34	12.20	90.97	5.7	33.41	7.8	25.3	0.69
I29	03 Aug 2017	35	12.18	90.98	5.7	33.41	7.8	25.3	0.66
I29	03 Aug 2017	36	12.13	91.10	5.7	33.42	7.8	25.3	0.66
I29	03 Aug 2017	37	12.08	91.05	5.8	33.42	7.8	25.3	0.68
I30	03 Aug 2017	1	19.15	78.82	8.5	33.47	8.2	23.8	1.58
I30	03 Aug 2017	2	18.63	78.68	8.5	33.49	8.2	24.0	1.60
I30	03 Aug 2017	3	18.32	79.46	8.5	33.46	8.2	24.0	1.71
I30	03 Aug 2017	4	17.92	79.73	8.5	33.48	8.2	24.1	1.86
I30	03 Aug 2017	5	17.33	80.19	8.7	33.47	8.2	24.3	1.99
I30	03 Aug 2017	6	16.24	81.25	8.9	33.44	8.2	24.5	2.24
I30	03 Aug 2017	7	15.60	81.87	8.5	33.44	8.1	24.6	2.62
I30	03 Aug 2017	8	14.68	82.65	8.3	33.38	8.1	24.8	3.64
I30	03 Aug 2017	9	14.23	81.91	8.2	33.33	8.1	24.8	4.44
I30	03 Aug 2017	10	14.05	81.79	8.1	33.31	8.0	24.9	4.04
I30	03 Aug 2017	11	13.96	84.93	8.0	33.31	8.0	24.9	3.04
I30	03 Aug 2017	12	13.91	87.43	8.0	33.31	8.0	24.9	2.34
I30	03 Aug 2017	13	13.84	89.07	7.9	33.32	8.0	24.9	2.04
I30	03 Aug 2017	14	13.71	89.66	7.8	33.34	8.0	25.0	1.90

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I30	03 Aug 2017	15	13.45	90.10	7.4	33.36	8.0	25.0	1.77
I30	03 Aug 2017	16	13.20	90.18	7.0	33.36	7.9	25.1	1.70
I30	03 Aug 2017	17	13.11	90.00	6.8	33.36	7.9	25.1	1.69
I30	03 Aug 2017	18	13.09	89.39	6.8	33.35	7.9	25.1	1.69
I30	03 Aug 2017	19	13.09	88.79	6.7	33.36	7.9	25.1	1.67
I30	03 Aug 2017	20	13.09	88.88	6.7	33.36	7.9	25.1	1.67
I30	03 Aug 2017	21	13.09	88.76	6.7	33.36	7.9	25.1	1.73
I30	03 Aug 2017	22	13.09	88.67	6.6	33.36	7.9	25.1	1.67
I30	03 Aug 2017	23	13.09	88.65	6.6	33.36	7.9	25.1	1.71
I30	03 Aug 2017	24	13.09	88.65	6.6	33.37	7.9	25.1	1.68
I30	03 Aug 2017	25	13.08	88.72	6.6	33.37	7.9	25.1	1.64
I30	03 Aug 2017	26	13.08	88.43	6.6	33.37	7.9	25.1	1.61
I30	03 Aug 2017	27	13.08	87.96	6.6	33.37	7.9	25.1	1.58
I30	03 Aug 2017	28	13.08	86.90	6.5	33.37	7.9	25.1	1.55
I31	03 Aug 2017	1	19.82	80.52	8.7	33.46	8.2	23.6	1.58
I31	03 Aug 2017	2	19.83	80.38	8.6	33.47	8.2	23.6	1.62
I31	03 Aug 2017	3	18.96	81.03	8.5	33.52	8.2	23.9	1.56
I31	03 Aug 2017	4	17.41	81.81	8.8	33.47	8.2	24.2	1.58
I31	03 Aug 2017	5	16.62	82.45	9.1	33.44	8.2	24.4	2.07
I31	03 Aug 2017	6	15.95	81.55	9.1	33.40	8.2	24.5	2.72
I31	03 Aug 2017	7	15.10	80.57	8.8	33.37	8.2	24.7	3.73
I31	03 Aug 2017	8	14.59	79.85	8.7	33.32	8.1	24.8	4.72
I31	03 Aug 2017	9	14.27	79.17	8.5	33.29	8.1	24.8	5.03
I31	03 Aug 2017	10	14.23	79.91	8.4	33.31	8.1	24.8	5.15
I31	03 Aug 2017	11	14.16	79.77	8.0	33.35	8.1	24.9	6.46
I31	03 Aug 2017	12	14.03	74.94	7.7	33.36	8.0	24.9	7.93
I31	03 Aug 2017	13	13.85	71.97	7.6	33.36	8.0	25.0	7.40
I31	03 Aug 2017	14	13.67	74.35	7.5	33.36	8.0	25.0	5.99
I31	03 Aug 2017	15	13.52	77.31	7.3	33.36	8.0	25.0	4.63
I31	03 Aug 2017	16	13.47	79.76	7.1	33.35	8.0	25.0	3.65
I31	03 Aug 2017	17	13.47	79.88	7.0	33.35	7.9	25.0	3.28
I31	03 Aug 2017	18	13.47	79.92	7.0	33.36	7.9	25.0	3.09
I31	03 Aug 2017	19	13.46	79.97	7.0	33.36	7.9	25.0	3.04
I33	03 Aug 2017	1	21.40	78.38	8.8	33.55	8.3	23.3	2.26
I33	03 Aug 2017	2	20.48	77.87	8.5	33.56	8.3	23.5	2.71
I33	03 Aug 2017	3	20.22	76.56	8.5	33.52	8.2	23.6	3.05
I33	03 Aug 2017	4	19.96	75.96	8.3	33.52	8.2	23.6	3.19
I33	03 Aug 2017	5	19.16	75.79	8.2	33.54	8.2	23.9	3.46
I33	03 Aug 2017	6	18.29	74.68	8.3	33.50	8.2	24.1	3.67
I33	03 Aug 2017	7	17.88	74.22	8.3	33.46	8.1	24.1	3.50
I33	03 Aug 2017	8	17.48	75.13	8.5	33.46	8.1	24.2	3.17
I33	03 Aug 2017	9	17.15	77.31	8.5	33.44	8.1	24.3	2.94
I33	03 Aug 2017	10	16.63	78.72	8.5	33.44	8.1	24.4	2.91
I33	03 Aug 2017	11	16.08	79.64	8.3	33.43	8.1	24.5	3.00
I33	03 Aug 2017	12	15.05	80.59	8.1	33.44	8.1	24.8	3.33
I33	03 Aug 2017	13	14.71	81.67	7.9	33.38	8.0	24.8	3.65
I33	03 Aug 2017	14	14.48	82.52	7.9	33.37	8.0	24.8	3.69
I33	03 Aug 2017	15	14.29	83.56	7.9	33.36	8.0	24.9	3.34
I33	03 Aug 2017	16	14.15	84.73	7.9	33.35	8.0	24.9	3.14
I33	03 Aug 2017	17	13.96	85.39	7.9	33.35	8.0	24.9	3.01
I33	03 Aug 2017	18	13.87	85.95	7.8	33.34	8.0	24.9	2.79
I33	03 Aug 2017	19	13.65	87.20	7.7	33.36	8.0	25.0	2.35
I33	03 Aug 2017	20	13.48	88.57	7.5	33.36	7.9	25.0	2.03

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I33	03 Aug 2017	21	13.23	89.33	7.1	33.38	7.9	25.1	2.06
I33	03 Aug 2017	22	13.13	88.58	6.8	33.37	7.9	25.1	2.09
I33	03 Aug 2017	23	13.09	87.48	6.7	33.37	7.9	25.1	1.96
I33	03 Aug 2017	24	13.07	87.42	6.7	33.37	7.9	25.1	1.82
I33	03 Aug 2017	25	13.02	87.78	6.6	33.37	7.8	25.1	1.66
I33	03 Aug 2017	26	13.01	88.50	6.5	33.37	7.8	25.1	1.51
I33	03 Aug 2017	27	12.92	88.83	6.4	33.38	7.8	25.2	1.39
I33	03 Aug 2017	28	12.83	88.43	6.3	33.38	7.8	25.2	1.24
I33	03 Aug 2017	29	12.80	88.50	6.2	33.39	7.8	25.2	1.14
I33	03 Aug 2017	30	12.73	88.37	6.2	33.39	7.8	25.2	1.05
I34	03 Aug 2017	1	19.36	76.73	8.2	33.48	8.2	23.8	2.55
I34	03 Aug 2017	2	17.83	76.36	8.3	33.50	8.2	24.2	2.92
I34	03 Aug 2017	3	16.20	75.13	8.7	33.44	8.1	24.5	3.21
I34	03 Aug 2017	4	15.45	76.00	8.6	33.41	8.1	24.6	3.40
I34	03 Aug 2017	5	14.76	78.00	8.6	33.36	8.1	24.8	3.30
I34	03 Aug 2017	6	14.56	80.57	8.5	33.34	8.1	24.8	3.19
I34	03 Aug 2017	7	14.30	82.60	8.5	33.32	8.0	24.8	3.16
I34	03 Aug 2017	8	14.21	83.42	8.4	33.31	8.0	24.8	3.31
I34	03 Aug 2017	9	14.15	83.67	8.3	33.31	8.0	24.9	3.65
I34	03 Aug 2017	10	13.99	83.69	8.2	33.31	8.0	24.9	4.45
I34	03 Aug 2017	11	13.82	81.46	8.0	33.32	8.0	24.9	4.65
I34	03 Aug 2017	12	13.73	81.33	7.8	33.34	8.0	25.0	4.90
I34	03 Aug 2017	13	13.68	81.61	7.6	33.35	8.0	25.0	5.04
I34	03 Aug 2017	14	13.60	80.80	7.3	33.36	7.9	25.0	4.78
I34	03 Aug 2017	15	13.47	80.01	7.0	33.37	7.9	25.0	3.84
I34	03 Aug 2017	16	13.36	79.47	6.9	33.36	7.9	25.1	2.81
I34	03 Aug 2017	17	13.35	81.95	6.9	33.36	7.9	25.1	2.26
I34	03 Aug 2017	18	13.35	81.97	6.9	33.36	7.9	25.1	2.14
I34	03 Aug 2017	19	13.34	81.81	6.9	33.37	7.9	25.1	2.08
I35	03 Aug 2017	1	20.67	76.32	8.6	33.44	8.2	23.4	2.07
I35	03 Aug 2017	2	20.65	76.22	8.5	33.44	8.2	23.4	2.17
I35	03 Aug 2017	3	19.75	76.59	8.5	33.52	8.2	23.7	2.20
I35	03 Aug 2017	4	17.52	78.03	8.8	33.51	8.2	24.2	2.03
I35	03 Aug 2017	5	16.70	81.24	9.0	33.41	8.2	24.4	2.07
I35	03 Aug 2017	6	15.94	81.79	8.9	33.43	8.2	24.6	2.26
I35	03 Aug 2017	7	15.15	82.27	8.9	33.37	8.1	24.7	2.59
I35	03 Aug 2017	8	14.79	82.21	9.1	33.35	8.1	24.7	3.08
I35	03 Aug 2017	9	14.33	81.90	9.0	33.33	8.1	24.8	3.93
I35	03 Aug 2017	10	14.21	80.27	8.6	33.33	8.1	24.9	5.05
I35	03 Aug 2017	11	14.07	76.73	8.1	33.35	8.1	24.9	7.37
I35	03 Aug 2017	12	13.91	70.90	7.8	33.35	8.0	24.9	9.14
I35	03 Aug 2017	13	13.84	68.85	7.8	33.35	8.0	24.9	8.32
I35	03 Aug 2017	14	13.79	72.29	7.6	33.35	8.0	25.0	6.74
I35	03 Aug 2017	15	13.76	75.75	7.4	33.36	8.0	25.0	6.18
I35	03 Aug 2017	16	13.68	74.54	7.0	33.37	8.0	25.0	5.06
I35	03 Aug 2017	17	13.61	70.88	6.8	33.37	7.9	25.0	3.79
I35	03 Aug 2017	18	13.61	68.76	6.7	33.37	7.9	25.0	3.13
I35	03 Aug 2017	19	13.61	64.43	6.6	33.37	7.9	25.0	2.93
I36	03 Aug 2017	1	19.92	73.56	8.3	33.48	8.2	23.6	1.86
I36	03 Aug 2017	2	18.40	74.84	8.8	33.50	8.2	24.0	1.86
I36	03 Aug 2017	3	17.18	77.64	9.2	33.45	8.2	24.3	2.01
I36	03 Aug 2017	4	16.40	78.04	9.1	33.42	8.2	24.4	2.79

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I36	03 Aug 2017	5	15.77	74.18	8.9	33.40	8.2	24.6	4.00
I36	03 Aug 2017	6	15.29	70.78	8.8	33.38	8.1	24.7	5.29
I36	03 Aug 2017	7	15.01	68.47	8.7	33.37	8.1	24.7	5.78
I36	03 Aug 2017	8	14.82	70.19	8.6	33.37	8.1	24.8	6.14
I36	03 Aug 2017	9	14.68	71.05	8.5	33.36	8.1	24.8	6.79
I36	03 Aug 2017	10	14.57	70.45	8.2	33.37	8.1	24.8	7.27
I36	03 Aug 2017	11	14.45	65.39	7.6	33.36	8.0	24.8	7.66
I37	03 Aug 2017	1	19.63	81.11	8.4	33.47	8.2	23.7	1.82
I37	03 Aug 2017	2	18.61	80.88	8.6	33.52	8.2	24.0	1.87
I37	03 Aug 2017	3	17.18	81.01	8.9	33.50	8.2	24.3	1.97
I37	03 Aug 2017	4	15.75	81.48	9.2	33.47	8.2	24.6	2.14
I37	03 Aug 2017	5	14.89	80.48	9.2	33.39	8.1	24.8	3.33
I37	03 Aug 2017	6	14.54	74.99	8.6	33.38	8.1	24.8	6.44
I37	03 Aug 2017	7	14.31	64.97	8.2	33.37	8.0	24.9	7.80
I37	03 Aug 2017	8	14.15	65.11	8.0	33.37	8.0	24.9	7.47
I37	03 Aug 2017	9	14.05	68.39	7.8	33.36	8.0	24.9	7.01
I37	03 Aug 2017	10	14.05	69.86	7.7	33.36	8.0	24.9	6.59
I37	03 Aug 2017	11	14.04	70.34	7.7	33.37	8.0	24.9	6.35
I37	03 Aug 2017	12	14.03	70.39	7.6	33.37	7.9	24.9	6.15
I38	03 Aug 2017	1	20.57	73.81	8.5	33.44	8.2	23.4	1.92
I38	03 Aug 2017	2	20.41	73.76	8.4	33.47	8.2	23.5	1.94
I38	03 Aug 2017	3	19.51	74.72	8.2	33.53	8.2	23.8	1.95
I38	03 Aug 2017	4	17.74	72.70	8.5	33.54	8.2	24.2	2.19
I38	03 Aug 2017	5	16.67	64.45	9.0	33.48	8.2	24.4	2.74
I38	03 Aug 2017	6	16.04	63.65	9.2	33.44	8.2	24.5	3.30
I38	03 Aug 2017	7	15.52	66.22	9.2	33.40	8.2	24.6	4.37
I38	03 Aug 2017	8	15.20	66.14	8.9	33.39	8.2	24.7	6.72
I38	03 Aug 2017	9	14.85	62.57	8.5	33.39	8.1	24.8	8.11
I38	03 Aug 2017	10	14.63	62.51	7.8	33.37	8.1	24.8	9.15
I38	03 Aug 2017	11	14.53	62.19	6.8	33.37	8.0	24.8	7.87

NA = not available

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APPENDIX A

Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected SBOO 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
I3	01 Aug 2017	18	JT	LAB DUPLICATE	<2	<2	<2
I9	01 Aug 2017	27	JT	LAB DUPLICATE	<2	<2	<2
I12	02 Aug 2017	18	AE	LAB DUPLICATE	2e	<2	<2
I13	01 Aug 2017	18	AE	LAB DUPLICATE	<2	<2	<2
I14	02 Aug 2017	2	AE	LAB DUPLICATE	<2	<2	<2
I16	02 Aug 2017	18	AE	LAB DUPLICATE	12e	2e	<2
I19	02 Aug 2017	6	ZV	FIELD DUPLICATE	2e	<2	<2
I19	02 Aug 2017	6	ZV	LAB DUPLICATE	2e	<2	<2
I19	10 Aug 2017	6	JT	LAB DUPLICATE	<20	<2	2e
I19	19 Aug 2017	6	LMA	LAB DUPLICATE	<2	<2	<2
I19	23 Aug 2017	6	JT	LAB DUPLICATE	20e	<2	<2
I19	28 Aug 2017	6	JT	LAB DUPLICATE	<2	<2	<2
I20	01 Aug 2017	55	AE	LAB DUPLICATE	8e	<2	8e
I32	03 Aug 2017	9	AR	LAB DUPLICATE	<2	<2	<2
I36	03 Aug 2017	11	AR	LAB DUPLICATE	<2	<2	<2
I40	10 Aug 2017	6	JT	LAB DUPLICATE	<2	<2	<2
I40	19 Aug 2017	6	LMA	LAB DUPLICATE	<2	<2	<2
I40	23 Aug 2017	6	JT	LAB DUPLICATE	20e	<2	<2
I40	28 Aug 2017	6	JT	LAB DUPLICATE	<2	<2	<2
S12	01 Aug 2017		AR	FIELD DUPLICATE	20e	4e	6e
S12	01 Aug 2017		AR	LAB DUPLICATE	200e	4e	6e
S12	08 Aug 2017		AE	FIELD DUPLICATE	<20	<2	6e
S12	08 Aug 2017		AE	LAB DUPLICATE	20e	<2	<2
S12	15 Aug 2017		LMA	FIELD DUPLICATE	20e	6e	<2
S12	15 Aug 2017		LMA	LAB DUPLICATE	20e	6e	6e
S12	22 Aug 2017		AE	FIELD DUPLICATE	<20	4e	8e
S12	22 Aug 2017		AE	LAB DUPLICATE	40e	2e	<2
S12	29 Aug 2017		AR	FIELD DUPLICATE	<20	2e	2e
S12	29 Aug 2017		AR	LAB DUPLICATE	20e	<2	<2

ns = not sampled

ND = no data

