

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

NPDES Permit No. CA0109045
SDRWQCB Order No. R9-2013-0006

FEBRUARY 2018

Environmental Monitoring and Technical Services
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March 31, 2018

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

Attention: POTW Compliance Unit

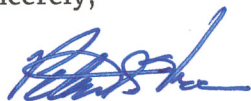
Dear Mr. Gibson:

Enclosed is the February 2018 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, 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 as amended Order Nos. R9-2014-0094 and R9-2017-0024, 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/rjg

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 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). 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 four 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 ≥ 4 scans per second. The data were then internally averaged using the CTD proprietary software, Seasoft, 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 chromomorphous 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 2018 Quality Assurance Report, which will be completed in March 2019.

SUMMARY OF RESULTS

➤ **Shoreline Water Quality Sampling**

- 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.
- During February, five of the eight shore stations located north of the border were out of compliance with various California Ocean Plan (Ocean Plan) water contact standards (see below); these standards do not apply to stations located in Mexican waters.
 - The 30-day geometric mean standard for total coliform bacteria was exceeded at station S4 on multiple days during the month.
 - The 30-day geometric mean standard for fecal coliform bacteria was exceeded at station S10 on multiple days during the month.
 - The 30-day geometric mean standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, and S11 on multiple days during the month.

- Although the Ocean Plan standards do not apply to these stations, 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 seawater samples collected at stations S0 and S2 on one or more days during the month.
 - 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>).
 - Notable visual observations for February included: a sewage-like odor at station S10, and water flowing from a storm drain at stations S0, S2 and S3. These observations were made on one or more days during the month.
- **Kelp Bed Water Quality Sampling**
- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled four times during the month (i.e. February 5, 16, 20, 26).
 - During February, all seven stations were in compliance with various Ocean Plan water contact standards (see below).
 - Water column temperatures ranged from 13.06 to 16.60°C. The difference between surface and bottom waters ranged from 0.05 to 1.55°C, indicating the water column was stratified at some of these sites during the month.
 - Chlorophyll *a* concentrations ranged from 0.35 to 3.65 µg/L at the kelp bed stations, suggesting the presence of phytoplankton during the month.
 - Nothing of sewage origin was observed at any of the kelp bed stations.
- **Offshore Water Quality Sampling**
- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., February 6, 7, 8).
 - During February, 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.
 - Although the Ocean Plan standards do not apply to stations outside State jurisdictional waters, bacteria densities for these stations did not exceed 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).
 - Water column temperatures ranged from 12.56 to 16.11°C at the offshore sites. The difference between surface and bottom waters ranged from 0.54 to 3.34°C, indicating that the water column was stratified at all of the offshore stations during the month.
 - Chlorophyll *a* concentrations ranged from 0.23 to 6.04 µg/L at the offshore sites, suggesting the presence of phytoplankton blooms during the month.
 - CDOM data are available upon request.
 - Nothing of sewage origin was observed at any of the offshore stations.



TABLES AND FIGURES

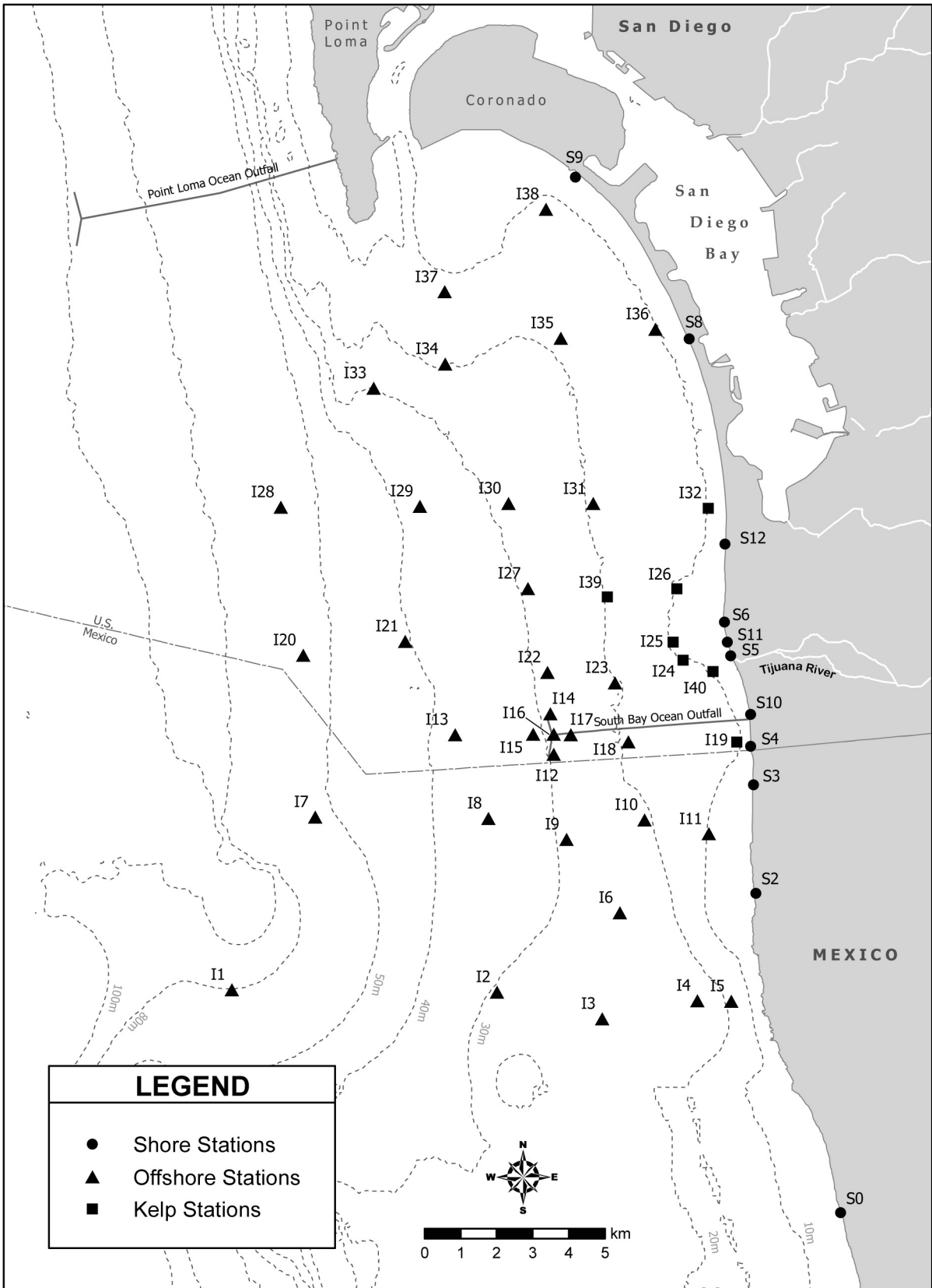


Figure 1.1 Station Map

Shore Stations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the 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 Feb 2018	1428	108*	226	36*	13*	918	459	88
02 Feb 2018	1428	108*	226	36*	13*	918	459	88
03 Feb 2018	1428	108*	226	36*	13*	918	459	88
04 Feb 2018	1428	108*	226	36*	13*	918	459	88
05 Feb 2018	1428	108*	226	36*	13*	918	459	88
06 Feb 2018	628	90	103	20	9	427	223	47
07 Feb 2018	628	90	103	20	9	427	223	47
08 Feb 2018	396	38*	37	8*	6*	254	95	16
09 Feb 2018	396	38*	37	8*	6*	254	95	16
10 Feb 2018	213	38*	11*	8*	6*	128	31*	6*
11 Feb 2018	90	38*	11*	8*	6*	49	31*	6*
12 Feb 2018	90	38*	11*	8*	6*	49	31*	6*
13 Feb 2018	39	26	13	6	5	15	28	7
14 Feb 2018	39	26	13	6	5	15	28	7
15 Feb 2018	16*	9*	6*	4*	4*	7*	15*	6*
16 Feb 2018	16*	9*	6*	4*	4*	7*	15*	6*
17 Feb 2018	16*	9*	6*	4*	4*	7*	15*	6*
18 Feb 2018	16*	9*	6*	4*	4*	7*	15*	6*
19 Feb 2018	16*	9*	6*	4*	4*	7*	15*	6*
20 Feb 2018	10	10	5	4	3	5	11	5
21 Feb 2018	10	10	5	4	3	5	11	5
22 Feb 2018	6*	10*	4*	2*	2*	2*	10*	6*
23 Feb 2018	6*	10*	4*	2*	2*	2*	10*	6*
24 Feb 2018	6*	10*	4*	2*	2*	2*	10*	6*
25 Feb 2018	6*	10*	4*	2*	2*	2*	10*	6*
26 Feb 2018	6*	10*	4*	2*	2*	2*	10*	6*
27 Feb 2018	8	12	5	4	3	6	11	7
28 Feb 2018	8	12	5	4	3	6	11	7

* 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 Feb 2018	192	17*	35	5*	3*	255	34	9
02 Feb 2018	192	17*	35	5*	3*	255	34	9
03 Feb 2018	192	17*	35	5*	3*	255	34	9
04 Feb 2018	192	17*	35	5*	3*	255	34	9
05 Feb 2018	192	17*	35	5*	3*	255	34	9
06 Feb 2018	109	11	22	4	3	139	21	7
07 Feb 2018	109	11	22	4	3	139	21	7
08 Feb 2018	63	7*	9	2*	3*	84	7	3
09 Feb 2018	63	7*	9	2*	3*	84	7	3
10 Feb 2018	35	7*	4*	2*	3*	36	3*	2*
11 Feb 2018	18	7*	4*	2*	3*	18	3*	2*
12 Feb 2018	18	7*	4*	2*	3*	18	3*	2*
13 Feb 2018	13	5	4	2	3	8	3	2
14 Feb 2018	13	5	4	2	3	8	3	2
15 Feb 2018	8*	2*	2*	2*	2*	5*	2*	2*
16 Feb 2018	8*	2*	2*	2*	2*	5*	2*	2*
17 Feb 2018	8*	2*	2*	2*	2*	5*	2*	2*
18 Feb 2018	8*	2*	2*	2*	2*	5*	2*	2*
19 Feb 2018	8*	2*	2*	2*	2*	5*	2*	2*
20 Feb 2018	6	2	2	2	2	4	2	2
21 Feb 2018	6	2	2	2	2	4	2	2
22 Feb 2018	3*	2*	2*	2*	2*	2*	2*	2*
23 Feb 2018	3*	2*	2*	2*	2*	2*	2*	2*
24 Feb 2018	3*	2*	2*	2*	2*	2*	2*	2*
25 Feb 2018	3*	2*	2*	2*	2*	2*	2*	2*
26 Feb 2018	3*	2*	2*	2*	2*	2*	2*	2*
27 Feb 2018	4	2	2	2	2	3	2	2
28 Feb 2018	4	2	2	2	2	3	2	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 Feb 2018	246	108	41	14	9*	198	41	27
02 Feb 2018	246	108	41	14	9*	198	41	27
03 Feb 2018	246	108	41	14	9*	198	41	27
04 Feb 2018	246	108	41	14	9*	198	41	27
05 Feb 2018	246	108	41	14	9*	198	41	27
06 Feb 2018	144	86	27	10	7	119	26	18
07 Feb 2018	144	86	27	10	7	119	26	18
08 Feb 2018	83	70	11	5	8*	67	10	6
09 Feb 2018	83	70	11	5	8*	67	10	6
10 Feb 2018	43	34	5	3*	8*	32	5	4*
11 Feb 2018	32	13	4*	3*	8*	20	3*	4*
12 Feb 2018	32	13	4*	3*	8*	20	3*	4*
13 Feb 2018	28	8	5	3	6	11	3	5
14 Feb 2018	28	8	5	3	6	11	3	5
15 Feb 2018	21	5	4*	3*	3*	6	2*	3*
16 Feb 2018	21	5	4*	3*	3*	6	2*	3*
17 Feb 2018	21*	6*	4*	3*	3*	7*	2*	3*
18 Feb 2018	21*	6*	4*	3*	3*	7*	2*	3*
19 Feb 2018	21*	6*	4*	3*	3*	7*	2*	3*
20 Feb 2018	13	5	3	3	3	5	2	3
21 Feb 2018	13	5	3	3	3	5	2	3
22 Feb 2018	8*	6*	4*	2*	3*	3*	2*	3*
23 Feb 2018	8*	6*	4*	2*	3*	3*	2*	3*
24 Feb 2018	8*	6*	4*	2*	3*	3*	2*	3*
25 Feb 2018	8*	6*	4*	2*	3*	3*	2*	3*
26 Feb 2018	8*	6*	4*	2*	3*	3*	2*	3*
27 Feb 2018	9	7	4	3	4	5	3	4
28 Feb 2018	9	7	4	3	4	5	3	4

* 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
06 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
13 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
20 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
27 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance at the 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
06 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
13 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
20 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
27 Feb 2018	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
06 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
13 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
20 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
27 Feb 2018	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
06 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
13 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
20 Feb 2018	IC	IC	IC	IC	IC	IC	IC	IC
27 Feb 2018	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	06 Feb 2018	1015	300e	16e	44	0.05
S0	13 Feb 2018	1025	1200e	74	320e	0.06
S0	20 Feb 2018	1105	1800e	60	160e	0.03
S0	27 Feb 2018	1040	>16000	>12000	>12000	0.75
S2	06 Feb 2018	1115	2e	<2	<2	1.00
S2	13 Feb 2018	1245	40e	2e	26e	0.05
S2	20 Feb 2018	1145	80e	4e	6e	0.05
S2	27 Feb 2018	1145	200e	36e	260e	0.18
S3	06 Feb 2018	1145	<2	<2	<2	1.00
S3	13 Feb 2018	1150	16e	4e	2e	0.25
S3	20 Feb 2018	1220	140e	22e	34e	0.16
S3	27 Feb 2018	1225	120e	22e	92	0.18
S4	06 Feb 2018	854	<2	<2	<2	1.00
S4	13 Feb 2018	842	14e	2e	12e	0.14
S4	20 Feb 2018	1057	<2	<2	<2	1.00
S4	27 Feb 2018	857	20e	6e	16e	0.30
S5	06 Feb 2018	1012	44	<2	14e	0.05
S5	13 Feb 2018	1007	6e	2e	6e	0.33
S5	20 Feb 2018	910	<20	<2	2e	0.10
S5	27 Feb 2018	1037	20e	<2	10e	0.10
S6	06 Feb 2018	1002	<2	<2	<2	1.00
S6	13 Feb 2018	955	20e	4e	22e	0.20
S6	20 Feb 2018	921	<2	<2	<2	1.00
S6	27 Feb 2018	1028	<20	<2	6e	0.10
S8	06 Feb 2018	1155	<2	<2	2e	1.00
S8	13 Feb 2018	1126	<2	<2	<2	1.00
S8	20 Feb 2018	831	2e	<2	<2	1.00
S8	27 Feb 2018	1149	20e	<2	8e	0.10
S9	06 Feb 2018	1224	<2	<2	<2	1.00
S9	13 Feb 2018	1159	<2	<2	2e	1.00
S9	20 Feb 2018	801	<2	2e	<2	1.00
S9	27 Feb 2018	1215	<20	<2	10e	0.10
S10	06 Feb 2018	901	<2	<2	2e	1.00
S10	13 Feb 2018	836	4e	<2	<2	0.50
S10	20 Feb 2018	1049	<2	<2	<2	1.00
S10	27 Feb 2018	851	260e	12e	56	0.05
S11	06 Feb 2018	1006	6e	<2	<2	0.33
S11	13 Feb 2018	1000	20e	2e	2e	0.10
S11	20 Feb 2018	916	4e	<2	<2	0.50
S11	27 Feb 2018	1032	<20	4e	10e	0.20

Station	Date	Time	Total	Fecal	Entero	F:T
S12	06 Feb 2018	949	<2	<2	<2	1.00
S12	13 Feb 2018	944	14e	<2	10e	0.14
S12	20 Feb 2018	930	<2	<2	<2	1.00
S12	27 Feb 2018	1012	<20	<2	8e	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	06 Feb 2018	Arrive Time	1015
S0	06 Feb 2018	Weather	Sunny
S0	06 Feb 2018	Wind Speed (kts)	1.3
S0	06 Feb 2018	Wind Dir	SW
S0	06 Feb 2018	Animal Life	5 Shorebirds
S0	06 Feb 2018	Floatables	None
S0	06 Feb 2018	Water Color	Green
S0	06 Feb 2018	Current Direction	S
S0	06 Feb 2018	Water Temp (C)	16
S0	06 Feb 2018	Wave Height Low (ft)	2
S0	06 Feb 2018	High Tide (ft)	3.1
S0	06 Feb 2018	High Tide Time	1340
S0	06 Feb 2018	Low Tide (ft)	1.5
S0	06 Feb 2018	Low Tide Time	807
S0	06 Feb 2018	Comments	5 Persons; Water clear; 1.5L/sec water flowing from stromdrain
S0	13 Feb 2018	Arrive Time	1025
S0	13 Feb 2018	Weather	Sunny
S0	13 Feb 2018	Wind Speed (kts)	1.1
S0	13 Feb 2018	Wind Dir	NE
S0	13 Feb 2018	Animal Life	9 Shorebirds; 1 Pelican; 5 Seagulls
S0	13 Feb 2018	Floatables	None
S0	13 Feb 2018	Water Color	Colorless
S0	13 Feb 2018	Current Direction	N
S0	13 Feb 2018	Water Temp (C)	16
S0	13 Feb 2018	Wave Height Low (ft)	2
S0	13 Feb 2018	High Tide (ft)	5.4
S0	13 Feb 2018	High Tide Time	721
S0	13 Feb 2018	Low Tide (ft)	-0.6
S0	13 Feb 2018	Low Tide Time	1424
S0	13 Feb 2018	Comments	Seagrass; Algae; Water clear; 0.5L/sec water flowing from stor- mdrain
S0	20 Feb 2018	Arrive Time	1105
S0	20 Feb 2018	Weather	Sunny
S0	20 Feb 2018	Wind Speed (kts)	9.5
S0	20 Feb 2018	Wind Dir	NE
S0	20 Feb 2018	Animal Life	None
S0	20 Feb 2018	Floatables	None
S0	20 Feb 2018	Water Color	Green
S0	20 Feb 2018	Current Direction	N
S0	20 Feb 2018	Water Temp (C)	16
S0	20 Feb 2018	Wave Height Low (ft)	3
S0	20 Feb 2018	High Tide (ft)	3.9
S0	20 Feb 2018	High Tide Time	1125
S0	20 Feb 2018	Low Tide (ft)	1.2
S0	20 Feb 2018	Low Tide Time	541
S0	20 Feb 2018	Comments	Kelp; Algae; Water clear; 1.0L/sec water flowing from stormdrain
S0	27 Feb 2018	Arrive Time	1040
S0	27 Feb 2018	Weather	Cloudy

Station	Date	Parameter	Value
S0	27 Feb 2018	Wind Speed (kts)	2.3
S0	27 Feb 2018	Wind Dir	S
S0	27 Feb 2018	Animal Life	5 Birds
S0	27 Feb 2018	Floatables	None
S0	27 Feb 2018	Water Color	Green
S0	27 Feb 2018	Current Direction	S
S0	27 Feb 2018	Water Temp (C)	14
S0	27 Feb 2018	Wave Height Low (ft)	3
S0	27 Feb 2018	High Tide (ft)	6
S0	27 Feb 2018	High Tide Time	640
S0	27 Feb 2018	Low Tide (ft)	1.4
S0	27 Feb 2018	Low Tide Time	1238
S0	27 Feb 2018	Comments	Water turbid; 3L/sec water flowing from stormdrain
S2	06 Feb 2018	Arrive Time	1115
S2	06 Feb 2018	Weather	Sunny
S2	06 Feb 2018	Wind Speed (kts)	1.4
S2	06 Feb 2018	Wind Dir	SW
S2	06 Feb 2018	Animal Life	5 Shorebirds
S2	06 Feb 2018	Floatables	None
S2	06 Feb 2018	Water Color	Green
S2	06 Feb 2018	Current Direction	S
S2	06 Feb 2018	Water Temp (C)	16
S2	06 Feb 2018	Wave Height Low (ft)	2
S2	06 Feb 2018	High Tide (ft)	3.1
S2	06 Feb 2018	High Tide Time	1340
S2	06 Feb 2018	Low Tide (ft)	1.5
S2	06 Feb 2018	Low Tide Time	807
S2	06 Feb 2018	Comments	5 Persons; Water clear; No flow from stormdrain
S2	13 Feb 2018	Arrive Time	1245
S2	13 Feb 2018	Weather	Sunny
S2	13 Feb 2018	Wind Speed (kts)	0.9
S2	13 Feb 2018	Wind Dir	NE
S2	13 Feb 2018	Animal Life	5 Shorebirds; 3 Seagulls
S2	13 Feb 2018	Floatables	None
S2	13 Feb 2018	Water Color	Colorless
S2	13 Feb 2018	Current Direction	N
S2	13 Feb 2018	Water Temp (C)	16
S2	13 Feb 2018	Wave Height Low (ft)	2
S2	13 Feb 2018	High Tide (ft)	5.4
S2	13 Feb 2018	High Tide Time	721
S2	13 Feb 2018	Low Tide (ft)	-0.6
S2	13 Feb 2018	Low Tide Time	1424
S2	13 Feb 2018	Comments	Seagrass; Algae; 3 Persons; Water clear; No flow from stormdrain
S2	20 Feb 2018	Arrive Time	1145
S2	20 Feb 2018	Weather	Sunny
S2	20 Feb 2018	Wind Speed (kts)	6.6
S2	20 Feb 2018	Wind Dir	NE
S2	20 Feb 2018	Animal Life	None
S2	20 Feb 2018	Floatables	None
S2	20 Feb 2018	Water Color	Green
S2	20 Feb 2018	Current Direction	N
S2	20 Feb 2018	Water Temp (C)	16

Station	Date	Parameter	Value
S2	20 Feb 2018	Wave Height Low (ft)	3
S2	20 Feb 2018	High Tide (ft)	3.9
S2	20 Feb 2018	High Tide Time	1125
S2	20 Feb 2018	Low Tide (ft)	0.8
S2	20 Feb 2018	Low Tide Time	1743
S2	20 Feb 2018	Comments	Kelp; Algae; Water clear; No flow from stormdrain
S2	27 Feb 2018	Arrive Time	1145
S2	27 Feb 2018	Weather	Moderate Rain
S2	27 Feb 2018	Wind Speed (kts)	1.7
S2	27 Feb 2018	Wind Dir	S
S2	27 Feb 2018	Animal Life	>20 Birds
S2	27 Feb 2018	Floatables	None
S2	27 Feb 2018	Water Color	Green
S2	27 Feb 2018	Current Direction	S
S2	27 Feb 2018	Water Temp (C)	14
S2	27 Feb 2018	Wave Height Low (ft)	3
S2	27 Feb 2018	High Tide (ft)	6
S2	27 Feb 2018	High Tide Time	640
S2	27 Feb 2018	Low Tide (ft)	1.4
S2	27 Feb 2018	Low Tide Time	1238
S2	27 Feb 2018	Comments	Water turbid; 0.5L/sec water flowing from stormdrain
S3	06 Feb 2018	Arrive Time	1145
S3	06 Feb 2018	Weather	Sunny
S3	06 Feb 2018	Wind Speed (kts)	1
S3	06 Feb 2018	Wind Dir	SW
S3	06 Feb 2018	Animal Life	5 Birds; 5 Dogs
S3	06 Feb 2018	Floatables	None
S3	06 Feb 2018	Water Color	Green
S3	06 Feb 2018	Current Direction	S
S3	06 Feb 2018	Water Temp (C)	16
S3	06 Feb 2018	Wave Height Low (ft)	2
S3	06 Feb 2018	High Tide (ft)	3.1
S3	06 Feb 2018	High Tide Time	1340
S3	06 Feb 2018	Low Tide (ft)	1.5
S3	06 Feb 2018	Low Tide Time	807
S3	06 Feb 2018	Comments	5 Persons; Water clear; No flow from stormdrain
S3	13 Feb 2018	Arrive Time	1150
S3	13 Feb 2018	Weather	Sunny
S3	13 Feb 2018	Wind Speed (kts)	1.1
S3	13 Feb 2018	Wind Dir	NE
S3	13 Feb 2018	Animal Life	7 Shorebirds; 3 Pelicans
S3	13 Feb 2018	Floatables	None
S3	13 Feb 2018	Water Color	Colorless
S3	13 Feb 2018	Current Direction	N
S3	13 Feb 2018	Water Temp (C)	16
S3	13 Feb 2018	Wave Height Low (ft)	2
S3	13 Feb 2018	High Tide (ft)	5.4
S3	13 Feb 2018	High Tide Time	721
S3	13 Feb 2018	Low Tide (ft)	-0.6
S3	13 Feb 2018	Low Tide Time	1424
S3	13 Feb 2018	Comments	Seagrass; Algae; 7 Persons; Water clear; No flow from stormdrain

Station	Date	Parameter	Value
S3	20 Feb 2018	Arrive Time	1220
S3	20 Feb 2018	Weather	Sunny
S3	20 Feb 2018	Wind Speed (kts)	3.3
S3	20 Feb 2018	Wind Dir	NE
S3	20 Feb 2018	Animal Life	None
S3	20 Feb 2018	Floatables	None
S3	20 Feb 2018	Water Color	Green
S3	20 Feb 2018	Current Direction	N
S3	20 Feb 2018	Water Temp (C)	16
S3	20 Feb 2018	Wave Height Low (ft)	3
S3	20 Feb 2018	High Tide (ft)	3.9
S3	20 Feb 2018	High Tide Time	1125
S3	20 Feb 2018	Low Tide (ft)	0.8
S3	20 Feb 2018	Low Tide Time	1743
S3	20 Feb 2018	Comments	Kelp; Algae; 5 Persons; Water clear; No flow from stormdrain
S3	27 Feb 2018	Arrive Time	1225
S3	27 Feb 2018	Weather	Moderate Rain
S3	27 Feb 2018	Wind Speed (kts)	1.6
S3	27 Feb 2018	Wind Dir	S
S3	27 Feb 2018	Animal Life	>20 Birds
S3	27 Feb 2018	Floatables	None
S3	27 Feb 2018	Water Color	Green
S3	27 Feb 2018	Current Direction	S
S3	27 Feb 2018	Water Temp (C)	14
S3	27 Feb 2018	Wave Height Low (ft)	3
S3	27 Feb 2018	High Tide (ft)	6
S3	27 Feb 2018	High Tide Time	640
S3	27 Feb 2018	Low Tide (ft)	1.4
S3	27 Feb 2018	Low Tide Time	1238
S3	27 Feb 2018	Comments	Water turbid; 0.5L/sec water flowing from stormdrain
S4	06 Feb 2018	Arrive Time	854
S4	06 Feb 2018	Weather	Sunny
S4	06 Feb 2018	Wind Speed (kts)	0.7
S4	06 Feb 2018	Wind Dir	W
S4	06 Feb 2018	Animal Life	26 Shorebirds; 4 Plovers
S4	06 Feb 2018	Floatables	None
S4	06 Feb 2018	Water Color	Green
S4	06 Feb 2018	Current Direction	N
S4	06 Feb 2018	Water Temp (C)	15
S4	06 Feb 2018	Wave Height Low (ft)	3
S4	06 Feb 2018	High Tide (ft)	3.1
S4	06 Feb 2018	High Tide Time	1340
S4	06 Feb 2018	Low Tide (ft)	1.5
S4	06 Feb 2018	Low Tide Time	807
S4	06 Feb 2018	Comments	Kelp; Seagrass; Water clear
S4	13 Feb 2018	Arrive Time	842
S4	13 Feb 2018	Weather	Sunny
S4	13 Feb 2018	Wind Speed (kts)	5.8
S4	13 Feb 2018	Wind Dir	E
S4	13 Feb 2018	Animal Life	None
S4	13 Feb 2018	Floatables	None
S4	13 Feb 2018	Water Color	Green

Station	Date	Parameter	Value
S4	13 Feb 2018	Current Direction	N
S4	13 Feb 2018	Water Temp (C)	13.5
S4	13 Feb 2018	Wave Height Low (ft)	2
S4	13 Feb 2018	High Tide (ft)	5.4
S4	13 Feb 2018	High Tide Time	721
S4	13 Feb 2018	Low Tide (ft)	-0.6
S4	13 Feb 2018	Low Tide Time	1424
S4	13 Feb 2018	Comments	Seagrass; Water clear
S4	20 Feb 2018	Arrive Time	1057
S4	20 Feb 2018	Weather	Sunny
S4	20 Feb 2018	Wind Speed (kts)	5.4
S4	20 Feb 2018	Wind Dir	S
S4	20 Feb 2018	Animal Life	None
S4	20 Feb 2018	Floatables	None
S4	20 Feb 2018	Water Color	Green
S4	20 Feb 2018	Current Direction	S
S4	20 Feb 2018	Water Temp (C)	13.4
S4	20 Feb 2018	Wave Height Low (ft)	4
S4	20 Feb 2018	High Tide (ft)	3.9
S4	20 Feb 2018	High Tide Time	1125
S4	20 Feb 2018	Low Tide (ft)	1.2
S4	20 Feb 2018	Low Tide Time	541
S4	20 Feb 2018	Comments	Seagrass; Debris; 5 Persons; Water clear; Dead seal on beach
S4	27 Feb 2018	Arrive Time	857
S4	27 Feb 2018	Weather	Drizzle
S4	27 Feb 2018	Wind Speed (kts)	9.6
S4	27 Feb 2018	Wind Dir	W
S4	27 Feb 2018	Animal Life	None
S4	27 Feb 2018	Floatables	None
S4	27 Feb 2018	Water Color	Green
S4	27 Feb 2018	Current Direction	N
S4	27 Feb 2018	Water Temp (C)	12.8
S4	27 Feb 2018	Wave Height Low (ft)	4
S4	27 Feb 2018	High Tide (ft)	6
S4	27 Feb 2018	High Tide Time	640
S4	27 Feb 2018	Low Tide (ft)	1.4
S4	27 Feb 2018	Low Tide Time	1238
S4	27 Feb 2018	Comments	Kelp; Seagrass; 1 Person; Water clear
S5	06 Feb 2018	Arrive Time	1012
S5	06 Feb 2018	Weather	Sunny
S5	06 Feb 2018	Wind Speed (kts)	3.8
S5	06 Feb 2018	Wind Dir	W
S5	06 Feb 2018	Animal Life	None
S5	06 Feb 2018	Floatables	None
S5	06 Feb 2018	Water Color	Green
S5	06 Feb 2018	Current Direction	N
S5	06 Feb 2018	Water Temp (C)	13.2
S5	06 Feb 2018	Wave Height Low (ft)	3
S5	06 Feb 2018	High Tide (ft)	3.1
S5	06 Feb 2018	High Tide Time	1340
S5	06 Feb 2018	Low Tide (ft)	1.5
S5	06 Feb 2018	Low Tide Time	807

Station	Date	Parameter	Value
S5	06 Feb 2018	Comments	Kelp; Seagrass; 1 Person; Water clear
S5	13 Feb 2018	Arrive Time	1007
S5	13 Feb 2018	Weather	Sunny
S5	13 Feb 2018	Wind Speed (kts)	2.2
S5	13 Feb 2018	Wind Dir	S
S5	13 Feb 2018	Animal Life	None
S5	13 Feb 2018	Floatables	None
S5	13 Feb 2018	Water Color	Green
S5	13 Feb 2018	Current Direction	N
S5	13 Feb 2018	Water Temp (C)	12.3
S5	13 Feb 2018	Wave Height Low (ft)	2
S5	13 Feb 2018	High Tide (ft)	5.4
S5	13 Feb 2018	High Tide Time	721
S5	13 Feb 2018	Low Tide (ft)	-0.6
S5	13 Feb 2018	Low Tide Time	1424
S5	13 Feb 2018	Comments	Kelp; Seagrass; 2 Persons; Water clear
S5	20 Feb 2018	Arrive Time	910
S5	20 Feb 2018	Weather	Sunny
S5	20 Feb 2018	Wind Speed (kts)	5.8
S5	20 Feb 2018	Wind Dir	W
S5	20 Feb 2018	Animal Life	None
S5	20 Feb 2018	Floatables	None
S5	20 Feb 2018	Water Color	Green
S5	20 Feb 2018	Current Direction	W
S5	20 Feb 2018	Water Temp (C)	12.6
S5	20 Feb 2018	Wave Height Low (ft)	4
S5	20 Feb 2018	High Tide (ft)	3.9
S5	20 Feb 2018	High Tide Time	1125
S5	20 Feb 2018	Low Tide (ft)	1.2
S5	20 Feb 2018	Low Tide Time	541
S5	20 Feb 2018	Comments	Kelp; Debris; Water clear
S5	27 Feb 2018	Arrive Time	1037
S5	27 Feb 2018	Weather	Partly Cloudy
S5	27 Feb 2018	Wind Speed (kts)	0.6
S5	27 Feb 2018	Wind Dir	W
S5	27 Feb 2018	Animal Life	None
S5	27 Feb 2018	Floatables	None
S5	27 Feb 2018	Water Color	Brown
S5	27 Feb 2018	Current Direction	N
S5	27 Feb 2018	Water Temp (C)	15.6
S5	27 Feb 2018	Wave Height Low (ft)	2
S5	27 Feb 2018	High Tide (ft)	6
S5	27 Feb 2018	High Tide Time	640
S5	27 Feb 2018	Low Tide (ft)	1.4
S5	27 Feb 2018	Low Tide Time	1238
S5	27 Feb 2018	Comments	Kelp; Seagrass; Water clear
S6	06 Feb 2018	Arrive Time	1002
S6	06 Feb 2018	Weather	Sunny
S6	06 Feb 2018	Wind Speed (kts)	3.1
S6	06 Feb 2018	Wind Dir	W
S6	06 Feb 2018	Animal Life	None

Station	Date	Parameter	Value
S6	06 Feb 2018	Floatables	None
S6	06 Feb 2018	Water Color	Green
S6	06 Feb 2018	Current Direction	N
S6	06 Feb 2018	Water Temp (C)	13.5
S6	06 Feb 2018	Wave Height Low (ft)	4
S6	06 Feb 2018	High Tide (ft)	3.1
S6	06 Feb 2018	High Tide Time	1340
S6	06 Feb 2018	Low Tide (ft)	1.5
S6	06 Feb 2018	Low Tide Time	807
S6	06 Feb 2018	Comments	2 Persons; 6 Surfers; Water clear
S6	13 Feb 2018	Arrive Time	955
S6	13 Feb 2018	Weather	Sunny
S6	13 Feb 2018	Wind Speed (kts)	0.1
S6	13 Feb 2018	Wind Dir	SE
S6	13 Feb 2018	Animal Life	None
S6	13 Feb 2018	Floatables	None
S6	13 Feb 2018	Water Color	Green
S6	13 Feb 2018	Current Direction	N
S6	13 Feb 2018	Water Temp (C)	13.1
S6	13 Feb 2018	Wave Height Low (ft)	2
S6	13 Feb 2018	High Tide (ft)	5.4
S6	13 Feb 2018	High Tide Time	721
S6	13 Feb 2018	Low Tide (ft)	-0.6
S6	13 Feb 2018	Low Tide Time	1424
S6	13 Feb 2018	Comments	2 Persons; Water clear
S6	20 Feb 2018	Arrive Time	921
S6	20 Feb 2018	Weather	Sunny
S6	20 Feb 2018	Wind Speed (kts)	2.5
S6	20 Feb 2018	Wind Dir	W
S6	20 Feb 2018	Animal Life	None
S6	20 Feb 2018	Floatables	None
S6	20 Feb 2018	Water Color	Green
S6	20 Feb 2018	Current Direction	W
S6	20 Feb 2018	Water Temp (C)	13.1
S6	20 Feb 2018	Wave Height Low (ft)	4
S6	20 Feb 2018	High Tide (ft)	3.9
S6	20 Feb 2018	High Tide Time	1125
S6	20 Feb 2018	Low Tide (ft)	1.2
S6	20 Feb 2018	Low Tide Time	541
S6	20 Feb 2018	Comments	Kelp; Debris; 1 Person; 6 Surfers; Water clear
S6	27 Feb 2018	Arrive Time	1028
S6	27 Feb 2018	Weather	Partly Cloudy
S6	27 Feb 2018	Wind Speed (kts)	1.9
S6	27 Feb 2018	Wind Dir	W
S6	27 Feb 2018	Animal Life	None
S6	27 Feb 2018	Floatables	None
S6	27 Feb 2018	Water Color	Green
S6	27 Feb 2018	Current Direction	N
S6	27 Feb 2018	Water Temp (C)	14.4
S6	27 Feb 2018	Wave Height Low (ft)	3
S6	27 Feb 2018	High Tide (ft)	6
S6	27 Feb 2018	High Tide Time	640

Station	Date	Parameter	Value
S6	27 Feb 2018	Low Tide (ft)	1.4
S6	27 Feb 2018	Low Tide Time	1238
S6	27 Feb 2018	Comments	Kelp; Seagrass; Water clear
S8	06 Feb 2018	Arrive Time	1155
S8	06 Feb 2018	Weather	Sunny
S8	06 Feb 2018	Wind Speed (kts)	4.8
S8	06 Feb 2018	Wind Dir	W
S8	06 Feb 2018	Animal Life	None
S8	06 Feb 2018	Floatables	None
S8	06 Feb 2018	Water Color	Green
S8	06 Feb 2018	Current Direction	N
S8	06 Feb 2018	Water Temp (C)	14.4
S8	06 Feb 2018	Wave Height Low (ft)	3
S8	06 Feb 2018	High Tide (ft)	3.1
S8	06 Feb 2018	High Tide Time	1340
S8	06 Feb 2018	Low Tide (ft)	1.5
S8	06 Feb 2018	Low Tide Time	807
S8	06 Feb 2018	Comments	Kelp; Seagrass; Water clear
S8	13 Feb 2018	Arrive Time	1126
S8	13 Feb 2018	Weather	Partly Cloudy
S8	13 Feb 2018	Wind Speed (kts)	5.2
S8	13 Feb 2018	Wind Dir	N
S8	13 Feb 2018	Animal Life	None
S8	13 Feb 2018	Floatables	None
S8	13 Feb 2018	Water Color	Green
S8	13 Feb 2018	Current Direction	N
S8	13 Feb 2018	Water Temp (C)	13.1
S8	13 Feb 2018	Wave Height Low (ft)	2
S8	13 Feb 2018	High Tide (ft)	5.4
S8	13 Feb 2018	High Tide Time	721
S8	13 Feb 2018	Low Tide (ft)	-0.6
S8	13 Feb 2018	Low Tide Time	1424
S8	13 Feb 2018	Comments	Seagrass; Water clear
S8	20 Feb 2018	Arrive Time	831
S8	20 Feb 2018	Weather	Sunny
S8	20 Feb 2018	Wind Speed (kts)	5.4
S8	20 Feb 2018	Wind Dir	S
S8	20 Feb 2018	Animal Life	None
S8	20 Feb 2018	Floatables	None
S8	20 Feb 2018	Water Color	Green
S8	20 Feb 2018	Current Direction	S
S8	20 Feb 2018	Water Temp (C)	12
S8	20 Feb 2018	Wave Height Low (ft)	2
S8	20 Feb 2018	High Tide (ft)	3.9
S8	20 Feb 2018	High Tide Time	1125
S8	20 Feb 2018	Low Tide (ft)	1.2
S8	20 Feb 2018	Low Tide Time	541
S8	20 Feb 2018	Comments	Kelp; Seagrass; 2 Persons; Water clear
S8	27 Feb 2018	Arrive Time	1149
S8	27 Feb 2018	Weather	Partly Cloudy
S8	27 Feb 2018	Wind Speed (kts)	3.2

Station	Date	Parameter	Value
S8	27 Feb 2018	Wind Dir	W
S8	27 Feb 2018	Animal Life	None
S8	27 Feb 2018	Floatables	None
S8	27 Feb 2018	Water Color	Green
S8	27 Feb 2018	Current Direction	N
S8	27 Feb 2018	Water Temp (C)	17.4
S8	27 Feb 2018	Wave Height Low (ft)	2
S8	27 Feb 2018	High Tide (ft)	6
S8	27 Feb 2018	High Tide Time	640
S8	27 Feb 2018	Low Tide (ft)	1.4
S8	27 Feb 2018	Low Tide Time	1238
S8	27 Feb 2018	Comments	Kelp; 4 Persons; Water clear
S9	06 Feb 2018	Arrive Time	1224
S9	06 Feb 2018	Weather	Sunny
S9	06 Feb 2018	Wind Speed (kts)	3.1
S9	06 Feb 2018	Wind Dir	W
S9	06 Feb 2018	Animal Life	None
S9	06 Feb 2018	Floatables	None
S9	06 Feb 2018	Water Color	Green
S9	06 Feb 2018	Current Direction	N
S9	06 Feb 2018	Water Temp (C)	14
S9	06 Feb 2018	Wave Height Low (ft)	3
S9	06 Feb 2018	High Tide (ft)	3.1
S9	06 Feb 2018	High Tide Time	1340
S9	06 Feb 2018	Low Tide (ft)	1.5
S9	06 Feb 2018	Low Tide Time	807
S9	06 Feb 2018	Comments	Kelp; Seagrass; 5 Persons; 2 Surfers; Water clear
S9	13 Feb 2018	Arrive Time	1159
S9	13 Feb 2018	Weather	Partly Cloudy
S9	13 Feb 2018	Wind Speed (kts)	5.5
S9	13 Feb 2018	Wind Dir	N
S9	13 Feb 2018	Animal Life	None
S9	13 Feb 2018	Floatables	None
S9	13 Feb 2018	Water Color	Green
S9	13 Feb 2018	Current Direction	N
S9	13 Feb 2018	Water Temp (C)	12.1
S9	13 Feb 2018	Wave Height Low (ft)	1
S9	13 Feb 2018	High Tide (ft)	5.4
S9	13 Feb 2018	High Tide Time	721
S9	13 Feb 2018	Low Tide (ft)	-0.6
S9	13 Feb 2018	Low Tide Time	1424
S9	13 Feb 2018	Comments	Kelp; Seagrass; 6 Persons; Water clear
S9	20 Feb 2018	Arrive Time	801
S9	20 Feb 2018	Weather	Sunny
S9	20 Feb 2018	Wind Speed (kts)	2.7
S9	20 Feb 2018	Wind Dir	S
S9	20 Feb 2018	Animal Life	None
S9	20 Feb 2018	Floatables	None
S9	20 Feb 2018	Water Color	Green
S9	20 Feb 2018	Current Direction	S
S9	20 Feb 2018	Water Temp (C)	11.9
S9	20 Feb 2018	Wave Height Low (ft)	1

Station	Date	Parameter	Value
S9	20 Feb 2018	High Tide (ft)	3.9
S9	20 Feb 2018	High Tide Time	1125
S9	20 Feb 2018	Low Tide (ft)	1.2
S9	20 Feb 2018	Low Tide Time	541
S9	20 Feb 2018	Comments	1 Jogger; 2 Persons; Water clear
S9	27 Feb 2018	Arrive Time	1215
S9	27 Feb 2018	Weather	Partly Cloudy
S9	27 Feb 2018	Wind Speed (kts)	4.7
S9	27 Feb 2018	Wind Dir	W
S9	27 Feb 2018	Animal Life	None
S9	27 Feb 2018	Floatables	None
S9	27 Feb 2018	Water Color	Green
S9	27 Feb 2018	Current Direction	N
S9	27 Feb 2018	Water Temp (C)	16
S9	27 Feb 2018	Wave Height Low (ft)	2
S9	27 Feb 2018	High Tide (ft)	6
S9	27 Feb 2018	High Tide Time	640
S9	27 Feb 2018	Low Tide (ft)	1.4
S9	27 Feb 2018	Low Tide Time	1238
S9	27 Feb 2018	Comments	Kelp; Seagrass; 9 Persons; Water clear
S10	06 Feb 2018	Arrive Time	901
S10	06 Feb 2018	Weather	Sunny
S10	06 Feb 2018	Wind Speed (kts)	2.2
S10	06 Feb 2018	Wind Dir	W
S10	06 Feb 2018	Animal Life	None
S10	06 Feb 2018	Floatables	None
S10	06 Feb 2018	Water Color	Green
S10	06 Feb 2018	Current Direction	N
S10	06 Feb 2018	Water Temp (C)	13.8
S10	06 Feb 2018	Wave Height Low (ft)	4
S10	06 Feb 2018	High Tide (ft)	3.1
S10	06 Feb 2018	High Tide Time	1340
S10	06 Feb 2018	Low Tide (ft)	1.5
S10	06 Feb 2018	Low Tide Time	807
S10	06 Feb 2018	Comments	Kelp; Seagrass; Water clear
S10	13 Feb 2018	Arrive Time	836
S10	13 Feb 2018	Weather	Partly Cloudy
S10	13 Feb 2018	Wind Speed (kts)	5.4
S10	13 Feb 2018	Wind Dir	E
S10	13 Feb 2018	Animal Life	None
S10	13 Feb 2018	Floatables	None
S10	13 Feb 2018	Water Color	Green
S10	13 Feb 2018	Current Direction	N
S10	13 Feb 2018	Water Temp (C)	13.3
S10	13 Feb 2018	Wave Height Low (ft)	2
S10	13 Feb 2018	High Tide (ft)	5.4
S10	13 Feb 2018	High Tide Time	721
S10	13 Feb 2018	Low Tide (ft)	-0.6
S10	13 Feb 2018	Low Tide Time	1424
S10	13 Feb 2018	Comments	Kelp; Seagrass; Water clear
S10	20 Feb 2018	Arrive Time	1049

Station	Date	Parameter	Value
S10	20 Feb 2018	Weather	Sunny
S10	20 Feb 2018	Wind Speed (kts)	5.6
S10	20 Feb 2018	Wind Dir	S
S10	20 Feb 2018	Animal Life	None
S10	20 Feb 2018	Floatables	None
S10	20 Feb 2018	Water Color	Green
S10	20 Feb 2018	Current Direction	S
S10	20 Feb 2018	Water Temp (C)	12.3
S10	20 Feb 2018	Wave Height Low (ft)	3
S10	20 Feb 2018	High Tide (ft)	3.9
S10	20 Feb 2018	High Tide Time	1125
S10	20 Feb 2018	Low Tide (ft)	1.2
S10	20 Feb 2018	Low Tide Time	541
S10	20 Feb 2018	Comments	Kelp; Seagrass; Debris; Sewage-like odor; 2 Persons; Water clear; 2 Horses
S10	27 Feb 2018	Arrive Time	851
S10	27 Feb 2018	Weather	Cloudy
S10	27 Feb 2018	Wind Speed (kts)	10.6
S10	27 Feb 2018	Wind Dir	W
S10	27 Feb 2018	Animal Life	None
S10	27 Feb 2018	Floatables	None
S10	27 Feb 2018	Water Color	Green
S10	27 Feb 2018	Current Direction	N
S10	27 Feb 2018	Water Temp (C)	13
S10	27 Feb 2018	Wave Height Low (ft)	4
S10	27 Feb 2018	High Tide (ft)	6
S10	27 Feb 2018	High Tide Time	640
S10	27 Feb 2018	Low Tide (ft)	1.4
S10	27 Feb 2018	Low Tide Time	1238
S10	27 Feb 2018	Comments	Kelp; Seagrass; Water clear
S11	06 Feb 2018	Arrive Time	1006
S11	06 Feb 2018	Weather	Sunny
S11	06 Feb 2018	Wind Speed (kts)	4.8
S11	06 Feb 2018	Wind Dir	W
S11	06 Feb 2018	Animal Life	None
S11	06 Feb 2018	Floatables	None
S11	06 Feb 2018	Water Color	Green
S11	06 Feb 2018	Current Direction	N
S11	06 Feb 2018	Water Temp (C)	13.9
S11	06 Feb 2018	Wave Height Low (ft)	4
S11	06 Feb 2018	High Tide (ft)	3.1
S11	06 Feb 2018	High Tide Time	1340
S11	06 Feb 2018	Low Tide (ft)	1.5
S11	06 Feb 2018	Low Tide Time	807
S11	06 Feb 2018	Comments	Water clear
S11	13 Feb 2018	Arrive Time	1000
S11	13 Feb 2018	Weather	Sunny
S11	13 Feb 2018	Wind Speed (kts)	5.3
S11	13 Feb 2018	Wind Dir	S
S11	13 Feb 2018	Animal Life	None
S11	13 Feb 2018	Floatables	None
S11	13 Feb 2018	Water Color	Green

Station	Date	Parameter	Value
S11	13 Feb 2018	Current Direction	S
S11	13 Feb 2018	Water Temp (C)	13.2
S11	13 Feb 2018	Wave Height Low (ft)	3
S11	13 Feb 2018	High Tide (ft)	5.4
S11	13 Feb 2018	High Tide Time	721
S11	13 Feb 2018	Low Tide (ft)	-0.6
S11	13 Feb 2018	Low Tide Time	1424
S11	13 Feb 2018	Comments	Kelp; Water clear
S11	20 Feb 2018	Arrive Time	916
S11	20 Feb 2018	Weather	Sunny
S11	20 Feb 2018	Wind Speed (kts)	6.4
S11	20 Feb 2018	Wind Dir	W
S11	20 Feb 2018	Animal Life	None
S11	20 Feb 2018	Floatables	None
S11	20 Feb 2018	Water Color	Green
S11	20 Feb 2018	Current Direction	W
S11	20 Feb 2018	Water Temp (C)	14.7
S11	20 Feb 2018	Wave Height Low (ft)	5
S11	20 Feb 2018	High Tide (ft)	3.9
S11	20 Feb 2018	High Tide Time	1125
S11	20 Feb 2018	Low Tide (ft)	1.2
S11	20 Feb 2018	Low Tide Time	541
S11	20 Feb 2018	Comments	Kelp; Debris; Water clear
S11	27 Feb 2018	Arrive Time	1032
S11	27 Feb 2018	Weather	Partly Cloudy
S11	27 Feb 2018	Wind Speed (kts)	0.2
S11	27 Feb 2018	Wind Dir	W
S11	27 Feb 2018	Animal Life	None
S11	27 Feb 2018	Floatables	None
S11	27 Feb 2018	Water Color	Green
S11	27 Feb 2018	Current Direction	N
S11	27 Feb 2018	Water Temp (C)	14.4
S11	27 Feb 2018	Wave Height Low (ft)	3
S11	27 Feb 2018	High Tide (ft)	6
S11	27 Feb 2018	High Tide Time	640
S11	27 Feb 2018	Low Tide (ft)	1.4
S11	27 Feb 2018	Low Tide Time	1238
S11	27 Feb 2018	Comments	Kelp; Seagrass; Water clear
S12	06 Feb 2018	Arrive Time	949
S12	06 Feb 2018	Weather	Sunny
S12	06 Feb 2018	Wind Speed (kts)	1.9
S12	06 Feb 2018	Wind Dir	W
S12	06 Feb 2018	Animal Life	None
S12	06 Feb 2018	Floatables	None
S12	06 Feb 2018	Water Color	Green
S12	06 Feb 2018	Current Direction	N
S12	06 Feb 2018	Water Temp (C)	14.3
S12	06 Feb 2018	Wave Height Low (ft)	4
S12	06 Feb 2018	High Tide (ft)	3.1
S12	06 Feb 2018	High Tide Time	1340
S12	06 Feb 2018	Low Tide (ft)	1.5
S12	06 Feb 2018	Low Tide Time	807

Station	Date	Parameter	Value
S12	06 Feb 2018	Comments	Kelp; Seagrass; 1 Person; 1 Surfer; Water clear
S12	13 Feb 2018	Arrive Time	944
S12	13 Feb 2018	Weather	Sunny
S12	13 Feb 2018	Wind Speed (kts)	0.1
S12	13 Feb 2018	Wind Dir	NW
S12	13 Feb 2018	Animal Life	1 Dog; 1 Seal
S12	13 Feb 2018	Floatables	None
S12	13 Feb 2018	Water Color	Green
S12	13 Feb 2018	Current Direction	N
S12	13 Feb 2018	Water Temp (C)	13.1
S12	13 Feb 2018	Wave Height Low (ft)	2
S12	13 Feb 2018	High Tide (ft)	5.4
S12	13 Feb 2018	High Tide Time	721
S12	13 Feb 2018	Low Tide (ft)	-0.6
S12	13 Feb 2018	Low Tide Time	1424
S12	13 Feb 2018	Comments	Seagrass; 5 Persons; Water clear
S12	20 Feb 2018	Arrive Time	930
S12	20 Feb 2018	Weather	Sunny
S12	20 Feb 2018	Wind Speed (kts)	2.1
S12	20 Feb 2018	Wind Dir	W
S12	20 Feb 2018	Animal Life	None
S12	20 Feb 2018	Floatables	None
S12	20 Feb 2018	Water Color	Green
S12	20 Feb 2018	Current Direction	W
S12	20 Feb 2018	Water Temp (C)	13.4
S12	20 Feb 2018	Wave Height Low (ft)	3
S12	20 Feb 2018	High Tide (ft)	3.9
S12	20 Feb 2018	High Tide Time	1125
S12	20 Feb 2018	Low Tide (ft)	1.2
S12	20 Feb 2018	Low Tide Time	541
S12	20 Feb 2018	Comments	Seagrass; 1 Person; Water clear
S12	27 Feb 2018	Arrive Time	1012
S12	27 Feb 2018	Weather	Cloudy
S12	27 Feb 2018	Wind Speed (kts)	2.2
S12	27 Feb 2018	Wind Dir	W
S12	27 Feb 2018	Animal Life	None
S12	27 Feb 2018	Floatables	None
S12	27 Feb 2018	Water Color	Green
S12	27 Feb 2018	Current Direction	N
S12	27 Feb 2018	Water Temp (C)	14
S12	27 Feb 2018	Wave Height Low (ft)	4
S12	27 Feb 2018	High Tide (ft)	6
S12	27 Feb 2018	High Tide Time	640
S12	27 Feb 2018	Low Tide (ft)	1.4
S12	27 Feb 2018	Low Tide Time	1238
S12	27 Feb 2018	Comments	Kelp; Seagrass; 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 Feb 2018	59	40	26	14	13	7	48
02 Feb 2018	137*	86*	48*	22*	21*	9*	106*
03 Feb 2018	137*	86*	48*	22*	21*	9*	106*
04 Feb 2018	137*	86*	48*	22*	21*	9*	106*
05 Feb 2018	59	43	27	14	13	8	51
06 Feb 2018	59	43	27	14	13	8	51
07 Feb 2018	59	43	27	14	13	8	51
08 Feb 2018	59	43	27	14	13	8	51
09 Feb 2018	59	43	27	14	13	8	51
10 Feb 2018	16*	13*	11*	7*	5*	3*	13*
11 Feb 2018	16*	13*	11*	7*	5*	3*	13*
12 Feb 2018	16*	13*	11*	7*	5*	3*	13*
13 Feb 2018	16*	13*	11*	7*	5*	3*	13*
14 Feb 2018	16*	13*	11*	7*	5*	3*	13*
15 Feb 2018	6*	4*	3*	3*	4*	3*	5*
16 Feb 2018	16*	3*	3*	3*	3*	2*	19*
17 Feb 2018	16*	3*	3*	3*	3*	2*	19*
18 Feb 2018	16*	3*	3*	3*	3*	2*	19*
19 Feb 2018	16*	3*	3*	3*	3*	2*	19*
20 Feb 2018	11	4	3	3	3	2	12
21 Feb 2018	7*	3*	2*	2*	2*	2*	11*
22 Feb 2018	7*	3*	2*	2*	2*	2*	11*
23 Feb 2018	7*	3*	2*	2*	2*	2*	11*
24 Feb 2018	7*	3*	2*	2*	2*	2*	11*
25 Feb 2018	7*	3*	2*	2*	2*	2*	11*
26 Feb 2018	6	3	2	2	3	3	10
27 Feb 2018	6	3	2	2	3	3	10
28 Feb 2018	7*	3*	2*	2*	3*	3*	15*

* 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 Feb 2018	13	8	4	3	3	3	12
02 Feb 2018	21*	11*	5*	3*	4*	4*	19*
03 Feb 2018	21*	11*	5*	3*	4*	4*	19*
04 Feb 2018	21*	11*	5*	3*	4*	4*	19*
05 Feb 2018	13	8	4	3	3	3	12
06 Feb 2018	13	8	4	3	3	3	12
07 Feb 2018	13	8	4	3	3	3	12
08 Feb 2018	13	8	4	3	3	3	12
09 Feb 2018	13	8	4	3	3	3	12
10 Feb 2018	3*	3*	3*	2*	2*	2*	3*
11 Feb 2018	3*	3*	3*	2*	2*	2*	3*
12 Feb 2018	3*	3*	3*	2*	2*	2*	3*
13 Feb 2018	3*	3*	3*	2*	2*	2*	3*
14 Feb 2018	3*	3*	3*	2*	2*	2*	3*
15 Feb 2018	2*	2*	2*	2*	2*	2*	2*
16 Feb 2018	4*	2*	2*	2*	2*	2*	5*
17 Feb 2018	4*	2*	2*	2*	2*	2*	5*
18 Feb 2018	4*	2*	2*	2*	2*	2*	5*
19 Feb 2018	4*	2*	2*	2*	2*	2*	5*
20 Feb 2018	3	2	2	2	2	2	4
21 Feb 2018	4*	2*	2*	2*	2*	2*	5*
22 Feb 2018	4*	2*	2*	2*	2*	2*	5*
23 Feb 2018	4*	2*	2*	2*	2*	2*	5*
24 Feb 2018	4*	2*	2*	2*	2*	2*	5*
25 Feb 2018	4*	2*	2*	2*	2*	2*	5*
26 Feb 2018	3	2	2	2	2	2	4
27 Feb 2018	3	2	2	2	2	2	4
28 Feb 2018	4*	2*	2*	2*	2*	2*	5*

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

* 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
05 Feb 2018	IC	IC	IC	IC	IC	IC	IC
16 Feb 2018	IC	IC	IC	IC	IC	IC	IC
20 Feb 2018	IC	IC	IC	IC	IC	IC	IC
26 Feb 2018	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
05 Feb 2018	IC	IC	IC	IC	IC	IC	IC
16 Feb 2018	IC	IC	IC	IC	IC	IC	IC
20 Feb 2018	IC	IC	IC	IC	IC	IC	IC
26 Feb 2018	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
05 Feb 2018	IC	IC	IC	IC	IC	IC	IC
16 Feb 2018	IC	IC	IC	IC	IC	IC	IC
20 Feb 2018	IC	IC	IC	IC	IC	IC	IC
26 Feb 2018	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
05 Feb 2018	IC	IC	IC	IC	IC	IC	IC
16 Feb 2018	IC	IC	IC	IC	IC	IC	IC
20 Feb 2018	IC	IC	IC	IC	IC	IC	IC
26 Feb 2018	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. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
119	05 Feb 2018	1138	2	<2	<2	<2	1.00	15.2	78.54	9.1	33.46	8.2
119	05 Feb 2018	1138	6	<2	<2	<2	1.00	15.1	78.51	9.1	33.47	8.2
119	05 Feb 2018	1138	11	<2	<2	<2	1.00	14.9	75.96	9.2	33.46	8.2
119	16 Feb 2018	1011	2	480	14e	2e	0.03	16.2	69.60	8.1	33.52	8.2
119	16 Feb 2018	1011	6	200e	4e	10e	0.02	16.2	69.17	8.1	33.52	8.2
119	16 Feb 2018	1011	11	360e	40	16e	0.11	16.2	69.01	8.1	33.52	8.2
119	20 Feb 2018	1017	2	<2	<2	<2	1.00	15.8	59.46	7.6	33.53	8.2
119	20 Feb 2018	1017	6	<2	<2	<2	1.00	15.7	57.06	7.8	33.54	8.2
119	20 Feb 2018	1017	11	<2	<2	<2	1.00	15.7	55.66	7.8	33.54	8.2
119	26 Feb 2018	1104	2	<2	<2	<2	1.00	14.8	72.08	8.0	33.57	8.1
119	26 Feb 2018	1104	6	<2	<2	<2	1.00	14.3	68.97	7.6	33.56	8.1
119	26 Feb 2018	1104	11	<2	<2	<2	1.00	13.6	74.52	7.0	33.48	8.0
124	05 Feb 2018	1159	2	<2	<2	<2	1.00	15.3	77.89	9.2	33.46	8.2
124	05 Feb 2018	1159	6	<2	<2	<2	1.00	15.1	77.45	9.2	33.47	8.2
124	05 Feb 2018	1159	11	4e	<2	<2	0.50	14.7	69.54	8.8	33.44	8.2
124	16 Feb 2018	1033	2	<2	<2	<2	1.00	16.6	71.91	8.3	33.50	8.2
124	16 Feb 2018	1033	6	<2	<2	<2	1.00	16.4	71.40	8.3	33.49	8.2
124	16 Feb 2018	1033	11	2e	<2	<2	1.00	16.4	73.35	8.2	33.49	8.2
124	20 Feb 2018	1041	2	<20	<2	<2	0.10	15.6	60.05	7.8	33.53	8.2
124	20 Feb 2018	1041	6	<2	<2	<2	1.00	15.6	56.21	7.8	33.53	8.2
124	20 Feb 2018	1041	11	<2	<2	<2	1.00	15.6	38.66	7.7	33.53	8.2
124	26 Feb 2018	1125	2	<2	<2	<2	1.00	14.9	73.71	8.0	33.58	8.1
124	26 Feb 2018	1125	6	<2	<2	<2	1.00	14.7	71.78	8.0	33.58	8.1
124	26 Feb 2018	1125	11	<2	<2	<2	1.00	14.5	59.13	7.6	33.55	8.1
125	05 Feb 2018	1207	2	<2	<2	<2	1.00	15.3	78.18	9.1	33.46	8.2
125	05 Feb 2018	1207	6	<2	<2	<2	1.00	15.1	78.01	9.1	33.47	8.2
125	05 Feb 2018	1207	9	4e	<2	<2	0.50	14.7	74.33	8.8	33.44	8.2
125	16 Feb 2018	1041	2	<2	<2	<2	1.00	16.5	75.33	8.2	33.51	8.2
125	16 Feb 2018	1041	6	<2	<2	<2	1.00	16.3	76.11	8.3	33.51	8.2
125	16 Feb 2018	1041	9	<2	<2	<2	1.00	16.3	75.90	8.3	33.51	8.2
125	20 Feb 2018	1049	2	<2	<2	<2	1.00	15.7	66.23	7.9	33.53	8.2
125	20 Feb 2018	1049	6	<2	<2	<2	1.00	15.6	65.22	7.8	33.52	8.2
125	20 Feb 2018	1049	9	<2	<2	<2	1.00	15.6	60.31	7.8	33.52	8.2
125	26 Feb 2018	1131	2	<2	<2	<2	1.00	14.9	70.21	7.9	33.59	8.1
125	26 Feb 2018	1131	6	<2	<2	4e	1.00	14.8	68.61	7.9	33.59	8.1
125	26 Feb 2018	1131	9	<2	<2	<2	1.00	14.1	69.41	7.5	33.56	8.0

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I26	05 Feb 2018	1219	2	<2	<2	<2	1.00	15.3	75.80	9.1	33.45	8.2
I26	05 Feb 2018	1219	6	<2	2e	<2	1.00	15.0	76.11	9.0	33.44	8.2
I26	05 Feb 2018	1219	9	<2	<2	<2	1.00	14.9	76.50	8.9	33.43	8.2
I26	16 Feb 2018	1051	2	<2	<2	<2	1.00	16.4	79.69	8.1	33.52	8.2
I26	16 Feb 2018	1051	6	<2	<2	<2	1.00	16.3	78.00	8.2	33.52	8.2
I26	16 Feb 2018	1051	9	<2	<2	<2	1.00	16.3	77.79	8.2	33.52	8.2
I26	20 Feb 2018	1054	2	<2	<2	<2	1.00	15.8	69.30	7.9	33.53	8.2
I26	20 Feb 2018	1054	6	<2	<2	<2	1.00	15.5	69.58	7.9	33.52	8.2
I26	20 Feb 2018	1054	9	<2	<2	<2	1.00	ns	ns	ns	ns	ns
I26	26 Feb 2018	1142	2	<2	<2	<2	1.00	14.8	74.01	7.9	33.57	8.1
I26	26 Feb 2018	1142	6	<2	<2	<2	1.00	14.4	74.81	7.9	33.56	8.1
I26	26 Feb 2018	1142	9	2e	<2	<2	1.00	13.4	79.45	7.0	33.48	8.0
I32	05 Feb 2018	1232	2	<2	<2	<2	1.00	15.6	78.99	8.2	33.48	8.1
I32	05 Feb 2018	1232	6	<2	<2	<2	1.00	15.6	78.92	8.2	33.48	8.1
I32	05 Feb 2018	1232	9	<2	<2	<2	1.00	15.6	77.94	8.2	33.48	8.1
I32	16 Feb 2018	1104	2	<2	<2	<2	1.00	16.4	71.72	8.2	33.52	8.2
I32	16 Feb 2018	1104	6	<2	<2	<2	1.00	16.2	71.73	8.3	33.51	8.2
I32	16 Feb 2018	1104	9	2e	<2	<2	1.00	16.2	70.31	8.3	33.51	8.2
I32	20 Feb 2018	1408	2	<2	<2	<2	1.00	ns	ns	ns	ns	ns
I32	20 Feb 2018	1408	6	<2	<2	<2	1.00	ns	ns	ns	ns	ns
I32	20 Feb 2018	1408	9	<2	<2	<2	1.00	ns	ns	ns	ns	ns
I32	26 Feb 2018	1154	2	<2	<2	<2	1.00	14.8	71.23	7.9	33.56	8.1
I32	26 Feb 2018	1154	6	<20	<2	<2	0.10	14.6	69.65	7.9	33.56	8.1
I32	26 Feb 2018	1154	9	<2	<2	<2	1.00	14.5	65.20	7.9	33.57	8.1
I39	05 Feb 2018	1114	2	<2	<2	<2	1.00	15.5	78.26	9.3	33.45	8.2
I39	05 Feb 2018	1114	12	<2	<2	<2	1.00	15.0	79.68	8.9	33.47	8.2
I39	05 Feb 2018	1114	18	8e	2e	<2	0.25	14.6	76.83	8.4	33.45	8.1
I39	16 Feb 2018	952	2	<2	<2	<2	1.00	16.2	81.87	8.2	33.53	8.2
I39	16 Feb 2018	952	12	<2	<2	<2	1.00	16.2	82.21	8.1	33.52	8.2
I39	16 Feb 2018	952	18	<2	<2	<2	1.00	15.7	83.05	8.0	33.51	8.2
I39	20 Feb 2018	959	2	<2	<2	<2	1.00	15.4	83.52	7.7	33.52	8.2
I39	20 Feb 2018	959	12	<2	<2	<2	1.00	15.2	84.03	7.6	33.51	8.2
I39	20 Feb 2018	959	18	<2	<2	<2	1.00	14.7	81.44	7.2	33.48	8.1
I39	26 Feb 2018	1040	2	<2	<2	<2	1.00	14.6	77.03	8.0	33.56	8.1
I39	26 Feb 2018	1040	12	<2	<2	<2	1.00	14.1	79.49	8.0	33.52	8.1
I39	26 Feb 2018	1040	18	12e	<2	<2	0.17	13.1	82.71	6.8	33.50	8.0
I40	05 Feb 2018	1149	2	<2	<2	<2	1.00	15.0	74.99	9.1	33.44	8.2
I40	05 Feb 2018	1149	6	<2	<2	<2	1.00	14.8	74.27	9.1	33.44	8.2
I40	05 Feb 2018	1149	9	4e	<2	<2	0.50	14.8	72.59	9.0	33.43	8.2
I40	16 Feb 2018	1024	2	1400e	80e	6e	0.06	16.6	67.68	8.1	33.46	8.2
I40	16 Feb 2018	1024	6	600e	64	30e	0.11	16.2	61.81	8.0	33.49	8.2

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I40	16 Feb 2018	1024	9	1600e	140e	42	0.09	16.2	59.76	7.9	33.50	8.2
I40	20 Feb 2018	1032	2	<2	<2	2e	1.00	15.8	57.85	7.8	33.55	8.2
I40	20 Feb 2018	1032	6	<2	<2	<2	1.00	15.5	57.36	7.9	33.55	8.2
I40	20 Feb 2018	1032	9	<2	<2	<2	1.00	15.3	59.91	8.0	33.55	8.2
I40	26 Feb 2018	1116	2	<2	<2	<2	1.00	14.8	74.16	8.0	33.57	8.1
I40	26 Feb 2018	1116	6	<2	<2	<2	1.00	14.7	69.92	8.1	33.59	8.1
I40	26 Feb 2018	1116	9	<20	<2	<2	0.10	14.3	59.30	7.6	33.57	8.1

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
I26	20 Feb 2018			No CTD data below 6m due to wire failure
I32	20 Feb 2018			No CTD data due to wire failure

Table 3.9

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

Station	Date	Parameter	Value
I19	05 Feb 2018	Depth (m)	11
I19	05 Feb 2018	Arrive Time	1138
I19	05 Feb 2018	Depart Time	1142
I19	05 Feb 2018	Air Temp (C)	13
I19	05 Feb 2018	Weather	Haze
I19	05 Feb 2018	Visibility (mi)	1
I19	05 Feb 2018	Wind Speed (kts)	10
I19	05 Feb 2018	Wind Dir	S
I19	05 Feb 2018	Water Color	Green
I19	05 Feb 2018	Wave Ht Low (ft)	2
I19	05 Feb 2018	Wave Period (sec)	7
I19	05 Feb 2018	Sea State	Light chop
I19	05 Feb 2018	High Tide (ft)	4.44
I19	05 Feb 2018	High Tide Time	1234
I19	05 Feb 2018	Low Tide (ft)	1.38
I19	05 Feb 2018	Low Tide Time	646
I19	05 Feb 2018	Comments	none
I19	16 Feb 2018	Depth (m)	12
I19	16 Feb 2018	Arrive Time	1011
I19	16 Feb 2018	Depart Time	1016
I19	16 Feb 2018	Air Temp (C)	22
I19	16 Feb 2018	Weather	Partly Cloudy
I19	16 Feb 2018	Visibility (mi)	15
I19	16 Feb 2018	Wind Speed (kts)	6
I19	16 Feb 2018	Wind Dir	NE
I19	16 Feb 2018	Water Color	Green
I19	16 Feb 2018	Wave Ht Low (ft)	3
I19	16 Feb 2018	Wave Period (sec)	11
I19	16 Feb 2018	Sea State	Confused swell
I19	16 Feb 2018	High Tide (ft)	5.5
I19	16 Feb 2018	High Tide Time	856
I19	16 Feb 2018	Low Tide (ft)	-0.61
I19	16 Feb 2018	Low Tide Time	1546
I19	16 Feb 2018	Comments	none
I19	20 Feb 2018	Depth (m)	13
I19	20 Feb 2018	Arrive Time	1017
I19	20 Feb 2018	Depart Time	1020
I19	20 Feb 2018	Air Temp (C)	12
I19	20 Feb 2018	Weather	Clear
I19	20 Feb 2018	Visibility (mi)	10
I19	20 Feb 2018	Wind Speed (kts)	4
I19	20 Feb 2018	Wind Dir	W
I19	20 Feb 2018	Water Color	Green
I19	20 Feb 2018	Wave Ht Low (ft)	6
I19	20 Feb 2018	Wave Period (sec)	7
I19	20 Feb 2018	Sea State	Confused swell
I19	20 Feb 2018	High Tide (ft)	3.86
I19	20 Feb 2018	High Tide Time	1125
I19	20 Feb 2018	Low Tide (ft)	1.15

Station	Date	Parameter	Value
I19	20 Feb 2018	Low Tide Time	541
I19	20 Feb 2018	Comments	none
I19	26 Feb 2018	Depth (m)	11
I19	26 Feb 2018	Arrive Time	1104
I19	26 Feb 2018	Depart Time	1108
I19	26 Feb 2018	Air Temp (C)	20
I19	26 Feb 2018	Weather	Partly Cloudy
I19	26 Feb 2018	Visibility (mi)	10
I19	26 Feb 2018	Wind Speed (kts)	9
I19	26 Feb 2018	Wind Dir	S
I19	26 Feb 2018	Water Color	Green
I19	26 Feb 2018	Wave Ht Low (ft)	3
I19	26 Feb 2018	Wave Period (sec)	9
I19	26 Feb 2018	Sea State	Light chop
I19	26 Feb 2018	High Tide (ft)	5.64
I19	26 Feb 2018	High Tide Time	547
I19	26 Feb 2018	Low Tide (ft)	-1.03
I19	26 Feb 2018	Low Tide Time	1303
I19	26 Feb 2018	Comments	none
I24	05 Feb 2018	Depth (m)	11
I24	05 Feb 2018	Arrive Time	1159
I24	05 Feb 2018	Depart Time	1203
I24	05 Feb 2018	Air Temp (C)	14
I24	05 Feb 2018	Weather	Haze
I24	05 Feb 2018	Visibility (mi)	2
I24	05 Feb 2018	Wind Speed (kts)	5
I24	05 Feb 2018	Wind Dir	SW
I24	05 Feb 2018	Water Color	Greenish-Brown
I24	05 Feb 2018	Wave Ht Low (ft)	2
I24	05 Feb 2018	Wave Period (sec)	7
I24	05 Feb 2018	Sea State	Light chop
I24	05 Feb 2018	High Tide (ft)	4.44
I24	05 Feb 2018	High Tide Time	1234
I24	05 Feb 2018	Low Tide (ft)	1.38
I24	05 Feb 2018	Low Tide Time	646
I24	05 Feb 2018	Comments	none
I24	16 Feb 2018	Depth (m)	12
I24	16 Feb 2018	Arrive Time	1033
I24	16 Feb 2018	Depart Time	1038
I24	16 Feb 2018	Air Temp (C)	19
I24	16 Feb 2018	Weather	Partly Cloudy
I24	16 Feb 2018	Visibility (mi)	15
I24	16 Feb 2018	Wind Speed (kts)	4
I24	16 Feb 2018	Wind Dir	SW
I24	16 Feb 2018	Water Color	Green
I24	16 Feb 2018	Wave Ht Low (ft)	3
I24	16 Feb 2018	Wave Period (sec)	11
I24	16 Feb 2018	Sea State	Confused swell
I24	16 Feb 2018	High Tide (ft)	5.5
I24	16 Feb 2018	High Tide Time	856
I24	16 Feb 2018	Low Tide (ft)	-0.61
I24	16 Feb 2018	Low Tide Time	1546

Station	Date	Parameter	Value
I24	16 Feb 2018	Comments	none
I24	20 Feb 2018	Depth (m)	13
I24	20 Feb 2018	Arrive Time	1041
I24	20 Feb 2018	Depart Time	1043
I24	20 Feb 2018	Air Temp (C)	11
I24	20 Feb 2018	Weather	Clear
I24	20 Feb 2018	Visibility (mi)	12
I24	20 Feb 2018	Wind Speed (kts)	5
I24	20 Feb 2018	Wind Dir	NW
I24	20 Feb 2018	Water Color	Green
I24	20 Feb 2018	Wave Ht Low (ft)	6
I24	20 Feb 2018	Wave Period (sec)	7
I24	20 Feb 2018	Sea State	Confused swell
I24	20 Feb 2018	High Tide (ft)	3.86
I24	20 Feb 2018	High Tide Time	1125
I24	20 Feb 2018	Low Tide (ft)	1.15
I24	20 Feb 2018	Low Tide Time	541
I24	20 Feb 2018	Comments	none
I24	26 Feb 2018	Depth (m)	10
I24	26 Feb 2018	Arrive Time	1125
I24	26 Feb 2018	Depart Time	1128
I24	26 Feb 2018	Air Temp (C)	21
I24	26 Feb 2018	Weather	Partly Cloudy
I24	26 Feb 2018	Visibility (mi)	10
I24	26 Feb 2018	Wind Speed (kts)	8
I24	26 Feb 2018	Wind Dir	S
I24	26 Feb 2018	Water Color	Green
I24	26 Feb 2018	Wave Ht Low (ft)	3
I24	26 Feb 2018	Wave Period (sec)	9
I24	26 Feb 2018	Sea State	Light chop
I24	26 Feb 2018	High Tide (ft)	5.64
I24	26 Feb 2018	High Tide Time	547
I24	26 Feb 2018	Low Tide (ft)	-1.03
I24	26 Feb 2018	Low Tide Time	1303
I24	26 Feb 2018	Comments	Water sampled at 10 meters due to low tide
I25	05 Feb 2018	Depth (m)	9
I25	05 Feb 2018	Arrive Time	1207
I25	05 Feb 2018	Depart Time	1213
I25	05 Feb 2018	Air Temp (C)	14
I25	05 Feb 2018	Weather	Haze
I25	05 Feb 2018	Visibility (mi)	3
I25	05 Feb 2018	Wind Speed (kts)	6
I25	05 Feb 2018	Wind Dir	SW
I25	05 Feb 2018	Water Color	Greenish-Blue
I25	05 Feb 2018	Wave Ht Low (ft)	2
I25	05 Feb 2018	Wave Period (sec)	7
I25	05 Feb 2018	Sea State	Light chop
I25	05 Feb 2018	High Tide (ft)	4.44
I25	05 Feb 2018	High Tide Time	1234
I25	05 Feb 2018	Low Tide (ft)	1.38
I25	05 Feb 2018	Low Tide Time	646
I25	05 Feb 2018	Comments	none

Station	Date	Parameter	Value
I25	16 Feb 2018	Depth (m)	10
I25	16 Feb 2018	Arrive Time	1041
I25	16 Feb 2018	Depart Time	1045
I25	16 Feb 2018	Air Temp (C)	18
I25	16 Feb 2018	Weather	Partly Cloudy
I25	16 Feb 2018	Visibility (mi)	15
I25	16 Feb 2018	Wind Speed (kts)	9
I25	16 Feb 2018	Wind Dir	S
I25	16 Feb 2018	Water Color	Green
I25	16 Feb 2018	Wave Ht Low (ft)	3
I25	16 Feb 2018	Wave Period (sec)	11
I25	16 Feb 2018	Sea State	Confused swell
I25	16 Feb 2018	High Tide (ft)	5.5
I25	16 Feb 2018	High Tide Time	856
I25	16 Feb 2018	Low Tide (ft)	-0.61
I25	16 Feb 2018	Low Tide Time	1546
I25	16 Feb 2018	Comments	Whale on station
I25	20 Feb 2018	Depth (m)	13
I25	20 Feb 2018	Arrive Time	1049
I25	20 Feb 2018	Depart Time	1052
I25	20 Feb 2018	Air Temp (C)	12
I25	20 Feb 2018	Weather	Clear
I25	20 Feb 2018	Visibility (mi)	12
I25	20 Feb 2018	Wind Speed (kts)	4
I25	20 Feb 2018	Wind Dir	NW
I25	20 Feb 2018	Water Color	Green
I25	20 Feb 2018	Wave Ht Low (ft)	6
I25	20 Feb 2018	Wave Period (sec)	7
I25	20 Feb 2018	Sea State	Confused swell
I25	20 Feb 2018	High Tide (ft)	3.86
I25	20 Feb 2018	High Tide Time	1125
I25	20 Feb 2018	Low Tide (ft)	1.15
I25	20 Feb 2018	Low Tide Time	541
I25	20 Feb 2018	Comments	none
I25	26 Feb 2018	Depth (m)	9
I25	26 Feb 2018	Arrive Time	1131
I25	26 Feb 2018	Depart Time	1135
I25	26 Feb 2018	Air Temp (C)	21
I25	26 Feb 2018	Weather	Partly Cloudy
I25	26 Feb 2018	Visibility (mi)	10
I25	26 Feb 2018	Wind Speed (kts)	9
I25	26 Feb 2018	Wind Dir	S
I25	26 Feb 2018	Water Color	Green
I25	26 Feb 2018	Wave Ht Low (ft)	3
I25	26 Feb 2018	Wave Period (sec)	9
I25	26 Feb 2018	Sea State	Light chop
I25	26 Feb 2018	High Tide (ft)	5.64
I25	26 Feb 2018	High Tide Time	547
I25	26 Feb 2018	Low Tide (ft)	-1.03
I25	26 Feb 2018	Low Tide Time	1303
I25	26 Feb 2018	Comments	none

Station	Date	Parameter	Value
I26	05 Feb 2018	Depth (m)	9
I26	05 Feb 2018	Arrive Time	1219
I26	05 Feb 2018	Depart Time	1226
I26	05 Feb 2018	Air Temp (C)	14
I26	05 Feb 2018	Weather	Haze
I26	05 Feb 2018	Visibility (mi)	3
I26	05 Feb 2018	Wind Speed (kts)	7
I26	05 Feb 2018	Wind Dir	SW
I26	05 Feb 2018	Water Color	Greenish-Blue
I26	05 Feb 2018	Wave Ht Low (ft)	2
I26	05 Feb 2018	Wave Period (sec)	7
I26	05 Feb 2018	Sea State	Light chop
I26	05 Feb 2018	High Tide (ft)	4.44
I26	05 Feb 2018	High Tide Time	1234
I26	05 Feb 2018	Low Tide (ft)	1.38
I26	05 Feb 2018	Low Tide Time	646
I26	05 Feb 2018	Comments	none
I26	16 Feb 2018	Depth (m)	11
I26	16 Feb 2018	Arrive Time	1051
I26	16 Feb 2018	Depart Time	1056
I26	16 Feb 2018	Air Temp (C)	18
I26	16 Feb 2018	Weather	Partly Cloudy
I26	16 Feb 2018	Visibility (mi)	15
I26	16 Feb 2018	Wind Speed (kts)	8
I26	16 Feb 2018	Wind Dir	S
I26	16 Feb 2018	Water Color	Green
I26	16 Feb 2018	Wave Ht Low (ft)	3
I26	16 Feb 2018	Wave Period (sec)	11
I26	16 Feb 2018	Sea State	Confused swell
I26	16 Feb 2018	High Tide (ft)	5.5
I26	16 Feb 2018	High Tide Time	856
I26	16 Feb 2018	Low Tide (ft)	-0.61
I26	16 Feb 2018	Low Tide Time	1546
I26	16 Feb 2018	Comments	none
I26	20 Feb 2018	Depth (m)	4
I26	20 Feb 2018	Arrive Time	1054
I26	20 Feb 2018	Depart Time	1358
I26	20 Feb 2018	Air Temp (C)	12
I26	20 Feb 2018	Weather	Partly Cloudy
I26	20 Feb 2018	Visibility (mi)	12
I26	20 Feb 2018	Wind Speed (kts)	16
I26	20 Feb 2018	Wind Dir	W
I26	20 Feb 2018	Water Color	Green
I26	20 Feb 2018	Wave Ht Low (ft)	7
I26	20 Feb 2018	Wave Period (sec)	7
I26	20 Feb 2018	Sea State	Calm
I26	20 Feb 2018	High Tide (ft)	3.86
I26	20 Feb 2018	High Tide Time	1125
I26	20 Feb 2018	Low Tide (ft)	1.15
I26	20 Feb 2018	Low Tide Time	541
I26	20 Feb 2018	Comments	CTD live wire failed and lost CTD for 2hrs; Recovered CTD with grappling hook; I26 CTD data only good down to 6m

Station	Date	Parameter	Value
I26	26 Feb 2018	Depth (m)	9
I26	26 Feb 2018	Arrive Time	1142
I26	26 Feb 2018	Depart Time	1145
I26	26 Feb 2018	Air Temp (C)	22
I26	26 Feb 2018	Weather	Partly Cloudy
I26	26 Feb 2018	Visibility (mi)	10
I26	26 Feb 2018	Wind Speed (kts)	9
I26	26 Feb 2018	Wind Dir	S
I26	26 Feb 2018	Water Color	Green
I26	26 Feb 2018	Wave Ht Low (ft)	3
I26	26 Feb 2018	Wave Period (sec)	9
I26	26 Feb 2018	Sea State	Light chop
I26	26 Feb 2018	High Tide (ft)	5.64
I26	26 Feb 2018	High Tide Time	547
I26	26 Feb 2018	Low Tide (ft)	-1.03
I26	26 Feb 2018	Low Tide Time	1303
I26	26 Feb 2018	Comments	none
I32	05 Feb 2018	Depth (m)	10
I32	05 Feb 2018	Arrive Time	1232
I32	05 Feb 2018	Depart Time	1238
I32	05 Feb 2018	Air Temp (C)	14
I32	05 Feb 2018	Weather	Haze
I32	05 Feb 2018	Visibility (mi)	4
I32	05 Feb 2018	Wind Speed (kts)	5
I32	05 Feb 2018	Wind Dir	SW
I32	05 Feb 2018	Water Color	Green
I32	05 Feb 2018	Wave Ht Low (ft)	2
I32	05 Feb 2018	Wave Period (sec)	7
I32	05 Feb 2018	Sea State	Light chop
I32	05 Feb 2018	High Tide (ft)	4.44
I32	05 Feb 2018	High Tide Time	1234
I32	05 Feb 2018	Low Tide (ft)	1.38
I32	05 Feb 2018	Low Tide Time	646
I32	05 Feb 2018	Comments	none
I32	16 Feb 2018	Depth (m)	10
I32	16 Feb 2018	Arrive Time	1104
I32	16 Feb 2018	Depart Time	1112
I32	16 Feb 2018	Air Temp (C)	18
I32	16 Feb 2018	Weather	Partly Cloudy
I32	16 Feb 2018	Visibility (mi)	15
I32	16 Feb 2018	Wind Speed (kts)	4
I32	16 Feb 2018	Wind Dir	SW
I32	16 Feb 2018	Water Color	Green
I32	16 Feb 2018	Wave Ht Low (ft)	3
I32	16 Feb 2018	Wave Period (sec)	11
I32	16 Feb 2018	Sea State	Light chop
I32	16 Feb 2018	High Tide (ft)	5.5
I32	16 Feb 2018	High Tide Time	856
I32	16 Feb 2018	Low Tide (ft)	-0.61
I32	16 Feb 2018	Low Tide Time	1546
I32	16 Feb 2018	Comments	none
I32	20 Feb 2018	Depth (m)	11

Station	Date	Parameter	Value
I32	20 Feb 2018	Arrive Time	1408
I32	20 Feb 2018	Depart Time	1413
I32	20 Feb 2018	Air Temp (C)	12
I32	20 Feb 2018	Weather	Partly Cloudy
I32	20 Feb 2018	Visibility (mi)	12
I32	20 Feb 2018	Wind Speed (kts)	13
I32	20 Feb 2018	Wind Dir	SW
I32	20 Feb 2018	Water Color	Green
I32	20 Feb 2018	Wave Ht Low (ft)	7
I32	20 Feb 2018	Wave Period (sec)	7
I32	20 Feb 2018	Sea State	Light chop
I32	20 Feb 2018	High Tide (ft)	3.86
I32	20 Feb 2018	High Tide Time	1125
I32	20 Feb 2018	Low Tide (ft)	1.15
I32	20 Feb 2018	Low Tide Time	541
I32	20 Feb 2018	Comments	No CTD data collected; Live wire failed; Bacti data only
I32	26 Feb 2018	Depth (m)	10
I32	26 Feb 2018	Arrive Time	1154
I32	26 Feb 2018	Depart Time	1157
I32	26 Feb 2018	Air Temp (C)	22
I32	26 Feb 2018	Weather	Partly Cloudy
I32	26 Feb 2018	Visibility (mi)	10
I32	26 Feb 2018	Wind Speed (kts)	6
I32	26 Feb 2018	Wind Dir	S
I32	26 Feb 2018	Water Color	Green
I32	26 Feb 2018	Wave Ht Low (ft)	3
I32	26 Feb 2018	Wave Period (sec)	9
I32	26 Feb 2018	Sea State	Light chop
I32	26 Feb 2018	High Tide (ft)	5.64
I32	26 Feb 2018	High Tide Time	547
I32	26 Feb 2018	Low Tide (ft)	-1.03
I32	26 Feb 2018	Low Tide Time	1303
I32	26 Feb 2018	Comments	none
I39	05 Feb 2018	Depth (m)	18
I39	05 Feb 2018	Arrive Time	1114
I39	05 Feb 2018	Depart Time	1123
I39	05 Feb 2018	Air Temp (C)	13
I39	05 Feb 2018	Weather	Haze
I39	05 Feb 2018	Visibility (mi)	1
I39	05 Feb 2018	Wind Speed (kts)	9
I39	05 Feb 2018	Wind Dir	S
I39	05 Feb 2018	Water Color	Greenish-Blue
I39	05 Feb 2018	Wave Ht Low (ft)	2
I39	05 Feb 2018	Wave Period (sec)	7
I39	05 Feb 2018	Sea State	Light chop
I39	05 Feb 2018	High Tide (ft)	4.44
I39	05 Feb 2018	High Tide Time	1234
I39	05 Feb 2018	Low Tide (ft)	1.38
I39	05 Feb 2018	Low Tide Time	646
I39	05 Feb 2018	Comments	none
I39	16 Feb 2018	Depth (m)	20
I39	16 Feb 2018	Arrive Time	952

Station	Date	Parameter	Value
I39	16 Feb 2018	Depart Time	957
I39	16 Feb 2018	Air Temp (C)	18
I39	16 Feb 2018	Weather	Partly Cloudy
I39	16 Feb 2018	Visibility (mi)	15
I39	16 Feb 2018	Wind Speed (kts)	0
I39	16 Feb 2018	Wind Dir	
I39	16 Feb 2018	Water Color	Greenish-Blue
I39	16 Feb 2018	Wave Ht Low (ft)	4
I39	16 Feb 2018	Wave Period (sec)	11
I39	16 Feb 2018	Sea State	Confused swell
I39	16 Feb 2018	High Tide (ft)	5.5
I39	16 Feb 2018	High Tide Time	856
I39	16 Feb 2018	Low Tide (ft)	-0.61
I39	16 Feb 2018	Low Tide Time	1546
I39	16 Feb 2018	Comments	none
I39	20 Feb 2018	Depth (m)	19
I39	20 Feb 2018	Arrive Time	959
I39	20 Feb 2018	Depart Time	1002
I39	20 Feb 2018	Air Temp (C)	12
I39	20 Feb 2018	Weather	Clear
I39	20 Feb 2018	Visibility (mi)	10
I39	20 Feb 2018	Wind Speed (kts)	1
I39	20 Feb 2018	Wind Dir	N
I39	20 Feb 2018	Water Color	Green
I39	20 Feb 2018	Wave Ht Low (ft)	6
I39	20 Feb 2018	Wave Period (sec)	7
I39	20 Feb 2018	Sea State	Confused swell
I39	20 Feb 2018	High Tide (ft)	3.86
I39	20 Feb 2018	High Tide Time	1125
I39	20 Feb 2018	Low Tide (ft)	1.15
I39	20 Feb 2018	Low Tide Time	541
I39	20 Feb 2018	Comments	Kelp debris
I39	26 Feb 2018	Depth (m)	19
I39	26 Feb 2018	Arrive Time	1040
I39	26 Feb 2018	Depart Time	1044
I39	26 Feb 2018	Air Temp (C)	18
I39	26 Feb 2018	Weather	Partly Cloudy
I39	26 Feb 2018	Visibility (mi)	10
I39	26 Feb 2018	Wind Speed (kts)	9
I39	26 Feb 2018	Wind Dir	SE
I39	26 Feb 2018	Water Color	Green
I39	26 Feb 2018	Wave Ht Low (ft)	3
I39	26 Feb 2018	Wave Period (sec)	9
I39	26 Feb 2018	Sea State	Light chop
I39	26 Feb 2018	High Tide (ft)	5.64
I39	26 Feb 2018	High Tide Time	547
I39	26 Feb 2018	Low Tide (ft)	-1.03
I39	26 Feb 2018	Low Tide Time	1303
I39	26 Feb 2018	Comments	none
I40	05 Feb 2018	Depth (m)	9
I40	05 Feb 2018	Arrive Time	1149
I40	05 Feb 2018	Depart Time	1155

Station	Date	Parameter	Value
I40	05 Feb 2018	Air Temp (C)	13
I40	05 Feb 2018	Weather	Haze
I40	05 Feb 2018	Visibility (mi)	1
I40	05 Feb 2018	Wind Speed (kts)	9
I40	05 Feb 2018	Wind Dir	SW
I40	05 Feb 2018	Water Color	Greenish-Brown
I40	05 Feb 2018	Wave Ht Low (ft)	2
I40	05 Feb 2018	Wave Period (sec)	7
I40	05 Feb 2018	Sea State	Light chop
I40	05 Feb 2018	High Tide (ft)	4.44
I40	05 Feb 2018	High Tide Time	1234
I40	05 Feb 2018	Low Tide (ft)	1.38
I40	05 Feb 2018	Low Tide Time	646
I40	05 Feb 2018	Comments	none
I40	16 Feb 2018	Depth (m)	11
I40	16 Feb 2018	Arrive Time	1024
I40	16 Feb 2018	Depart Time	1030
I40	16 Feb 2018	Air Temp (C)	22
I40	16 Feb 2018	Weather	Partly Cloudy
I40	16 Feb 2018	Visibility (mi)	15
I40	16 Feb 2018	Wind Speed (kts)	7
I40	16 Feb 2018	Wind Dir	NE
I40	16 Feb 2018	Water Color	Green
I40	16 Feb 2018	Wave Ht Low (ft)	3
I40	16 Feb 2018	Wave Period (sec)	11
I40	16 Feb 2018	Sea State	Confused swell
I40	16 Feb 2018	High Tide (ft)	5.5
I40	16 Feb 2018	High Tide Time	856
I40	16 Feb 2018	Low Tide (ft)	-0.61
I40	16 Feb 2018	Low Tide Time	1546
I40	16 Feb 2018	Comments	none
I40	20 Feb 2018	Depth (m)	10
I40	20 Feb 2018	Arrive Time	1032
I40	20 Feb 2018	Depart Time	1035
I40	20 Feb 2018	Air Temp (C)	12
I40	20 Feb 2018	Weather	Clear
I40	20 Feb 2018	Visibility (mi)	10
I40	20 Feb 2018	Wind Speed (kts)	7
I40	20 Feb 2018	Wind Dir	NW
I40	20 Feb 2018	Water Color	Green
I40	20 Feb 2018	Wave Ht Low (ft)	6
I40	20 Feb 2018	Wave Period (sec)	7
I40	20 Feb 2018	Sea State	Confused swell
I40	20 Feb 2018	High Tide (ft)	3.86
I40	20 Feb 2018	High Tide Time	1125
I40	20 Feb 2018	Low Tide (ft)	1.15
I40	20 Feb 2018	Low Tide Time	541
I40	20 Feb 2018	Comments	none
I40	26 Feb 2018	Depth (m)	10
I40	26 Feb 2018	Arrive Time	1116
I40	26 Feb 2018	Depart Time	1120
I40	26 Feb 2018	Air Temp (C)	21

Station	Date	Parameter	Value
I40	26 Feb 2018	Weather	Partly Cloudy
I40	26 Feb 2018	Visibility (mi)	10
I40	26 Feb 2018	Wind Speed (kts)	9
I40	26 Feb 2018	Wind Dir	S
I40	26 Feb 2018	Water Color	Green
I40	26 Feb 2018	Wave Ht Low (ft)	3
I40	26 Feb 2018	Wave Period (sec)	9
I40	26 Feb 2018	Sea State	Light chop
I40	26 Feb 2018	High Tide (ft)	5.64
I40	26 Feb 2018	High Tide Time	547
I40	26 Feb 2018	Low Tide (ft)	-1.03
I40	26 Feb 2018	Low Tide Time	1303
I40	26 Feb 2018	Comments	none

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	05 Feb 2018	1	15.16	78.58	9.1	33.46	8.2	24.8	1.09
I19	05 Feb 2018	2	15.16	78.54	9.1	33.46	8.2	24.8	1.07
I19	05 Feb 2018	3	15.15	78.41	9.1	33.46	8.2	24.8	1.21
I19	05 Feb 2018	4	15.15	78.46	9.2	33.46	8.2	24.8	1.29
I19	05 Feb 2018	5	15.18	78.56	9.1	33.46	8.2	24.7	1.40
I19	05 Feb 2018	6	15.13	78.51	9.1	33.47	8.2	24.8	1.46
I19	05 Feb 2018	7	14.92	78.02	9.2	33.47	8.2	24.8	1.54
I19	05 Feb 2018	8	14.91	77.99	9.2	33.46	8.2	24.8	1.64
I19	05 Feb 2018	9	14.90	77.00	9.2	33.46	8.2	24.8	1.74
I19	05 Feb 2018	10	14.89	75.96	9.2	33.46	8.2	24.8	1.86
I19	16 Feb 2018	1	16.25	69.63	8.1	33.52	8.2	24.6	1.20
I19	16 Feb 2018	2	16.24	69.60	8.1	33.52	8.2	24.6	1.17
I19	16 Feb 2018	3	16.22	69.08	8.1	33.52	8.2	24.6	1.45
I19	16 Feb 2018	4	16.23	69.21	8.1	33.52	8.2	24.6	1.74
I19	16 Feb 2018	5	16.22	69.07	8.1	33.52	8.2	24.6	1.98
I19	16 Feb 2018	6	16.22	69.17	8.1	33.52	8.2	24.6	2.25
I19	16 Feb 2018	7	16.22	69.32	8.1	33.52	8.2	24.6	2.53
I19	16 Feb 2018	8	16.21	69.61	8.1	33.52	8.2	24.6	2.67
I19	16 Feb 2018	9	16.20	69.10	8.1	33.52	8.2	24.6	2.75
I19	16 Feb 2018	10	16.20	69.01	8.1	33.52	8.2	24.6	2.75
I19	20 Feb 2018	1	15.81	59.59	7.4	33.53	8.2	24.7	1.03
I19	20 Feb 2018	2	15.81	59.46	7.6	33.53	8.2	24.7	0.99
I19	20 Feb 2018	3	15.76	58.71	7.8	33.54	8.2	24.7	1.02
I19	20 Feb 2018	4	15.75	58.25	7.8	33.53	8.2	24.7	1.19
I19	20 Feb 2018	5	15.73	58.00	7.8	33.53	8.2	24.7	1.75
I19	20 Feb 2018	6	15.72	57.06	7.8	33.54	8.2	24.7	2.15
I19	20 Feb 2018	7	15.70	56.32	7.8	33.53	8.2	24.7	2.29
I19	20 Feb 2018	8	15.69	56.42	7.7	33.53	8.2	24.7	2.43
I19	20 Feb 2018	9	15.68	55.40	7.7	33.54	8.2	24.7	2.32
I19	20 Feb 2018	10	15.68	55.66	7.8	33.54	8.2	24.7	2.22
I19	26 Feb 2018	1	14.77	72.37	8.0	33.57	8.1	24.9	0.47
I19	26 Feb 2018	2	14.76	72.08	8.0	33.57	8.1	24.9	0.52
I19	26 Feb 2018	3	14.75	72.08	8.0	33.57	8.1	24.9	0.58
I19	26 Feb 2018	4	14.72	71.98	8.0	33.57	8.1	24.9	0.66
I19	26 Feb 2018	5	14.63	71.04	7.9	33.58	8.1	25.0	0.82
I19	26 Feb 2018	6	14.31	68.97	7.6	33.56	8.1	25.0	1.00
I19	26 Feb 2018	7	14.02	65.49	7.4	33.52	8.0	25.0	1.25
I19	26 Feb 2018	8	13.92	69.21	7.4	33.50	8.0	25.0	1.43
I19	26 Feb 2018	9	13.79	74.78	7.2	33.49	8.0	25.1	1.48
I19	26 Feb 2018	10	13.63	74.52	7.0	33.48	8.0	25.1	1.70
I24	05 Feb 2018	1	15.28	78.08	9.2	33.46	8.2	24.7	1.68
I24	05 Feb 2018	2	15.28	77.89	9.2	33.46	8.2	24.7	1.58
I24	05 Feb 2018	3	15.27	77.92	9.2	33.46	8.2	24.7	1.65
I24	05 Feb 2018	4	15.25	77.82	9.2	33.46	8.2	24.7	1.68
I24	05 Feb 2018	5	15.22	77.91	9.2	33.46	8.2	24.7	1.65
I24	05 Feb 2018	6	15.14	77.45	9.2	33.47	8.2	24.8	1.87
I24	05 Feb 2018	7	14.99	76.47	9.1	33.48	8.2	24.8	2.04

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I24	05 Feb 2018	8	14.73	73.77	9.0	33.45	8.2	24.8	2.72
I24	05 Feb 2018	9	14.73	70.90	8.9	33.44	8.2	24.8	3.35
I24	05 Feb 2018	10	14.70	70.11	8.8	33.44	8.2	24.8	3.65
I24	05 Feb 2018	11	14.69	69.54	8.8	33.44	8.2	24.8	3.56
I24	16 Feb 2018	1	16.60	72.62	8.3	33.50	8.2	24.5	1.10
I24	16 Feb 2018	2	16.57	71.91	8.3	33.50	8.2	24.5	1.17
I24	16 Feb 2018	3	16.53	71.77	8.3	33.50	8.2	24.5	1.37
I24	16 Feb 2018	4	16.53	71.78	8.3	33.50	8.2	24.5	1.71
I24	16 Feb 2018	5	16.48	71.56	8.3	33.50	8.2	24.5	2.07
I24	16 Feb 2018	6	16.42	71.40	8.3	33.49	8.2	24.5	2.51
I24	16 Feb 2018	7	16.41	71.81	8.3	33.49	8.2	24.5	2.74
I24	16 Feb 2018	8	16.39	72.66	8.3	33.49	8.2	24.5	2.73
I24	16 Feb 2018	9	16.39	73.08	8.3	33.49	8.2	24.5	2.73
I24	16 Feb 2018	10	16.39	73.00	8.2	33.49	8.2	24.5	2.59
I24	16 Feb 2018	11	16.39	73.35	8.2	33.49	8.2	24.5	2.50
I24	20 Feb 2018	1	15.77	61.10	7.8	33.53	8.2	24.7	0.68
I24	20 Feb 2018	2	15.65	60.05	7.8	33.53	8.2	24.7	0.88
I24	20 Feb 2018	3	15.63	57.96	7.8	33.53	8.2	24.7	1.08
I24	20 Feb 2018	4	15.62	57.00	7.8	33.53	8.2	24.7	1.47
I24	20 Feb 2018	5	15.61	56.72	7.8	33.53	8.2	24.7	1.79
I24	20 Feb 2018	6	15.61	56.21	7.8	33.53	8.2	24.7	1.93
I24	20 Feb 2018	7	15.61	55.25	7.8	33.53	8.2	24.7	1.96
I24	20 Feb 2018	8	15.61	53.26	7.7	33.53	8.2	24.7	1.83
I24	20 Feb 2018	9	15.61	51.79	7.8	33.53	8.2	24.7	1.75
I24	20 Feb 2018	10	15.61	46.59	7.7	33.53	8.2	24.7	1.67
I24	20 Feb 2018	11	15.61	38.66	7.7	33.53	8.2	24.7	1.68
I24	26 Feb 2018	1	14.91	74.20	8.0	33.58	8.1	24.9	0.50
I24	26 Feb 2018	2	14.90	73.71	8.0	33.58	8.1	24.9	0.49
I24	26 Feb 2018	3	14.88	73.88	8.0	33.59	8.1	24.9	0.53
I24	26 Feb 2018	4	14.85	73.71	8.0	33.58	8.1	24.9	0.63
I24	26 Feb 2018	5	14.78	72.49	8.0	33.59	8.1	24.9	0.78
I24	26 Feb 2018	6	14.74	71.78	8.0	33.58	8.1	24.9	0.98
I24	26 Feb 2018	7	14.72	70.80	7.9	33.58	8.1	24.9	1.11
I24	26 Feb 2018	8	14.64	67.70	7.7	33.58	8.1	25.0	1.25
I24	26 Feb 2018	9	14.40	59.92	7.5	33.55	8.1	25.0	1.48
I24	26 Feb 2018	10	14.54	59.13	7.6	33.55	8.1	24.9	1.51
I25	05 Feb 2018	1	15.30	77.64	9.1	33.46	8.2	24.7	1.46
I25	05 Feb 2018	2	15.29	78.18	9.1	33.46	8.2	24.7	1.62
I25	05 Feb 2018	3	15.27	78.14	9.1	33.46	8.2	24.7	1.62
I25	05 Feb 2018	4	15.27	78.00	9.1	33.46	8.2	24.7	1.72
I25	05 Feb 2018	5	15.21	78.45	9.1	33.47	8.2	24.7	1.81
I25	05 Feb 2018	6	15.08	78.01	9.1	33.47	8.2	24.8	1.78
I25	05 Feb 2018	7	14.86	76.61	9.0	33.47	8.2	24.8	2.36
I25	05 Feb 2018	8	14.74	74.65	8.9	33.45	8.2	24.8	2.63
I25	05 Feb 2018	9	14.73	74.33	8.8	33.44	8.2	24.8	2.54
I25	16 Feb 2018	1	16.43	75.90	8.2	33.51	8.2	24.5	1.39
I25	16 Feb 2018	2	16.47	75.33	8.2	33.51	8.2	24.5	1.29
I25	16 Feb 2018	3	16.44	76.39	8.2	33.51	8.2	24.5	1.18
I25	16 Feb 2018	4	16.35	76.09	8.2	33.51	8.2	24.5	1.39
I25	16 Feb 2018	5	16.34	76.20	8.3	33.51	8.2	24.5	1.68

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I25	16 Feb 2018	6	16.33	76.11	8.3	33.51	8.2	24.5	2.01
I25	16 Feb 2018	7	16.33	75.87	8.3	33.51	8.2	24.5	2.23
I25	16 Feb 2018	8	16.33	75.82	8.3	33.51	8.2	24.5	2.40
I25	16 Feb 2018	9	16.33	75.90	8.3	33.51	8.2	24.5	2.39
I25	20 Feb 2018	1	15.71	66.04	7.9	33.53	8.2	24.7	0.97
I25	20 Feb 2018	2	15.71	66.23	7.9	33.53	8.2	24.7	0.98
I25	20 Feb 2018	3	15.71	66.30	7.9	33.53	8.2	24.7	1.09
I25	20 Feb 2018	4	15.64	66.68	7.9	33.53	8.2	24.7	1.46
I25	20 Feb 2018	5	15.59	65.62	7.8	33.52	8.2	24.7	1.78
I25	20 Feb 2018	6	15.59	65.22	7.8	33.52	8.2	24.7	1.87
I25	20 Feb 2018	7	15.59	64.85	7.8	33.52	8.2	24.7	1.92
I25	20 Feb 2018	8	15.59	64.63	7.8	33.52	8.2	24.7	1.98
I25	20 Feb 2018	9	15.59	60.31	7.8	33.52	8.2	24.7	1.93
I25	26 Feb 2018	1	14.90	70.32	7.9	33.59	8.1	24.9	0.52
I25	26 Feb 2018	2	14.90	70.21	7.9	33.59	8.1	24.9	0.53
I25	26 Feb 2018	3	14.86	69.93	7.9	33.59	8.1	24.9	0.57
I25	26 Feb 2018	4	14.83	69.28	7.9	33.59	8.1	24.9	0.69
I25	26 Feb 2018	5	14.79	68.29	7.9	33.59	8.1	24.9	0.87
I25	26 Feb 2018	6	14.77	68.61	7.9	33.59	8.1	24.9	1.13
I25	26 Feb 2018	7	14.74	68.95	7.8	33.59	8.1	24.9	1.21
I25	26 Feb 2018	8	14.66	69.48	7.6	33.60	8.1	25.0	1.20
I25	26 Feb 2018	9	14.09	69.41	7.5	33.56	8.0	25.1	1.16
I26	05 Feb 2018	1	15.33	75.90	9.2	33.44	8.2	24.7	2.35
I26	05 Feb 2018	2	15.32	75.80	9.1	33.45	8.2	24.7	2.30
I26	05 Feb 2018	3	15.29	76.13	9.2	33.44	8.2	24.7	2.24
I26	05 Feb 2018	4	15.25	75.68	9.2	33.45	8.2	24.7	2.30
I26	05 Feb 2018	5	15.10	75.97	9.1	33.45	8.2	24.8	2.57
I26	05 Feb 2018	6	15.04	76.11	9.0	33.44	8.2	24.8	2.63
I26	05 Feb 2018	7	14.96	76.40	8.9	33.43	8.2	24.8	2.41
I26	05 Feb 2018	8	14.96	76.35	9.0	33.43	8.2	24.8	2.30
I26	05 Feb 2018	9	14.95	76.50	8.9	33.43	8.2	24.8	2.21
I26	16 Feb 2018	1	16.52	79.24	8.1	33.52	8.2	24.5	0.74
I26	16 Feb 2018	2	16.45	79.69	8.1	33.52	8.2	24.5	0.71
I26	16 Feb 2018	3	16.32	79.05	8.1	33.52	8.2	24.5	0.79
I26	16 Feb 2018	4	16.30	78.39	8.2	33.52	8.2	24.5	0.95
I26	16 Feb 2018	5	16.28	78.15	8.2	33.52	8.2	24.5	1.10
I26	16 Feb 2018	6	16.28	78.00	8.2	33.52	8.2	24.5	1.25
I26	16 Feb 2018	7	16.27	77.71	8.2	33.52	8.2	24.5	1.52
I26	16 Feb 2018	8	16.28	77.87	8.2	33.52	8.2	24.5	1.69
I26	16 Feb 2018	9	16.28	77.79	8.2	33.52	8.2	24.5	1.87
I26	20 Feb 2018	1	15.81	69.41	7.9	33.53	8.2	24.7	0.66
I26	20 Feb 2018	2	15.80	69.30	7.9	33.53	8.2	24.7	0.68
I26	20 Feb 2018	3	15.71	69.15	7.9	33.53	8.2	24.7	0.81
I26	20 Feb 2018	4	15.61	69.52	7.9	33.53	8.2	24.7	1.00
I26	20 Feb 2018	5	15.54	69.73	7.9	33.53	8.2	24.7	1.35
I26	20 Feb 2018	6	15.54	69.58	7.9	33.52	8.2	24.7	0.65
I26	26 Feb 2018	1	14.83	74.50	7.9	33.57	8.1	24.9	0.45
I26	26 Feb 2018	2	14.80	74.01	7.9	33.57	8.1	24.9	0.49
I26	26 Feb 2018	3	14.76	74.76	8.0	33.57	8.1	24.9	0.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I26	26 Feb 2018	4	14.68	74.78	8.0	33.57	8.1	24.9	0.64
I26	26 Feb 2018	5	14.60	74.82	7.9	33.56	8.1	24.9	0.81
I26	26 Feb 2018	6	14.43	74.81	7.9	33.56	8.1	25.0	1.04
I26	26 Feb 2018	7	14.13	75.89	7.7	33.53	8.1	25.0	1.35
I26	26 Feb 2018	8	13.62	78.28	7.2	33.52	8.0	25.1	1.42
I26	26 Feb 2018	9	13.41	79.45	7.0	33.48	8.0	25.1	1.33
I32	05 Feb 2018	1	15.65	79.08	8.2	33.48	8.1	24.7	1.36
I32	05 Feb 2018	2	15.65	78.99	8.2	33.48	8.1	24.7	1.36
I32	05 Feb 2018	3	15.64	78.87	8.2	33.48	8.1	24.7	1.42
I32	05 Feb 2018	4	15.64	78.96	8.2	33.48	8.1	24.7	1.45
I32	05 Feb 2018	5	15.64	78.81	8.2	33.48	8.1	24.7	1.50
I32	05 Feb 2018	6	15.64	78.92	8.2	33.48	8.1	24.7	1.53
I32	05 Feb 2018	7	15.64	78.53	8.2	33.48	8.1	24.7	1.55
I32	05 Feb 2018	8	15.63	78.16	8.2	33.48	8.1	24.7	1.61
I32	05 Feb 2018	9	15.62	77.94	8.2	33.48	8.1	24.7	1.63
I32	05 Feb 2018	10	15.57	75.73	8.0	33.48	8.1	24.7	1.77
I32	16 Feb 2018	1	16.51	71.92	8.2	33.51	8.2	24.5	1.06
I32	16 Feb 2018	2	16.40	71.72	8.2	33.52	8.2	24.5	1.12
I32	16 Feb 2018	3	16.29	70.46	8.3	33.51	8.2	24.5	1.35
I32	16 Feb 2018	4	16.26	69.89	8.3	33.51	8.2	24.5	1.61
I32	16 Feb 2018	5	16.25	70.01	8.3	33.51	8.2	24.5	2.00
I32	16 Feb 2018	6	16.24	71.73	8.3	33.51	8.2	24.5	2.19
I32	16 Feb 2018	7	16.24	71.05	8.3	33.51	8.2	24.5	2.37
I32	16 Feb 2018	8	16.24	70.54	8.3	33.51	8.2	24.5	2.45
I32	16 Feb 2018	9	16.24	70.31	8.3	33.51	8.2	24.5	2.55
I32	16 Feb 2018	10	16.24	69.92	8.2	33.51	8.2	24.6	2.57
I32	26 Feb 2018	1	14.80	71.42	7.9	33.56	8.1	24.9	0.55
I32	26 Feb 2018	2	14.80	71.23	7.9	33.56	8.1	24.9	0.61
I32	26 Feb 2018	3	14.78	71.33	7.8	33.56	8.1	24.9	0.56
I32	26 Feb 2018	4	14.71	70.62	7.8	33.57	8.1	24.9	0.59
I32	26 Feb 2018	5	14.61	69.69	7.8	33.57	8.1	25.0	0.72
I32	26 Feb 2018	6	14.57	69.65	7.9	33.56	8.1	25.0	0.84
I32	26 Feb 2018	7	14.54	68.75	7.9	33.56	8.1	25.0	1.04
I32	26 Feb 2018	8	14.52	67.95	7.9	33.57	8.1	25.0	1.29
I32	26 Feb 2018	9	14.50	65.20	7.9	33.57	8.1	25.0	1.46
I32	26 Feb 2018	10	14.54	65.97	7.9	33.56	8.1	25.0	1.50
I39	05 Feb 2018	1	15.51	78.57	9.3	33.45	8.2	24.7	0.87
I39	05 Feb 2018	2	15.52	78.26	9.3	33.45	8.2	24.7	0.86
I39	05 Feb 2018	3	15.49	78.09	9.4	33.45	8.2	24.7	0.98
I39	05 Feb 2018	4	15.42	78.09	9.4	33.45	8.2	24.7	1.06
I39	05 Feb 2018	5	15.37	78.56	9.4	33.45	8.2	24.7	1.27
I39	05 Feb 2018	6	15.34	78.50	9.4	33.45	8.2	24.7	1.44
I39	05 Feb 2018	7	15.21	78.60	9.2	33.47	8.2	24.7	1.55
I39	05 Feb 2018	8	15.10	79.86	9.0	33.47	8.2	24.8	1.41
I39	05 Feb 2018	9	15.01	80.09	8.9	33.47	8.2	24.8	1.33
I39	05 Feb 2018	10	14.97	80.22	8.9	33.47	8.2	24.8	1.44
I39	05 Feb 2018	11	14.97	80.20	8.9	33.47	8.2	24.8	1.47
I39	05 Feb 2018	12	14.97	79.68	8.9	33.47	8.2	24.8	1.53
I39	05 Feb 2018	13	14.95	79.49	8.9	33.47	8.2	24.8	1.69
I39	05 Feb 2018	14	14.86	77.38	8.9	33.47	8.2	24.8	1.98
I39	05 Feb 2018	15	14.75	76.83	8.7	33.46	8.2	24.8	2.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	05 Feb 2018	16	14.68	76.49	8.6	33.46	8.2	24.9	2.95
I39	05 Feb 2018	17	14.61	76.83	8.5	33.45	8.1	24.9	3.28
I39	05 Feb 2018	18	14.58	76.83	8.4	33.45	8.1	24.9	3.02
I39	16 Feb 2018	1	16.26	81.96	8.1	33.52	8.2	24.6	0.65
I39	16 Feb 2018	2	16.22	81.87	8.2	33.53	8.2	24.6	0.64
I39	16 Feb 2018	3	16.20	81.63	8.2	33.52	8.2	24.6	0.68
I39	16 Feb 2018	4	16.19	81.87	8.1	33.52	8.2	24.6	0.69
I39	16 Feb 2018	5	16.19	81.85	8.1	33.52	8.2	24.6	0.74
I39	16 Feb 2018	6	16.18	81.88	8.2	33.52	8.2	24.6	0.79
I39	16 Feb 2018	7	16.18	81.75	8.1	33.52	8.2	24.6	0.83
I39	16 Feb 2018	8	16.18	81.89	8.2	33.52	8.2	24.6	0.94
I39	16 Feb 2018	9	16.18	81.95	8.1	33.52	8.2	24.6	1.00
I39	16 Feb 2018	10	16.17	81.91	8.1	33.52	8.2	24.6	1.07
I39	16 Feb 2018	11	16.16	82.16	8.2	33.52	8.2	24.6	1.14
I39	16 Feb 2018	12	16.16	82.21	8.1	33.52	8.2	24.6	1.17
I39	16 Feb 2018	13	16.15	82.36	8.1	33.52	8.2	24.6	1.23
I39	16 Feb 2018	14	16.15	82.43	8.1	33.52	8.2	24.6	1.28
I39	16 Feb 2018	15	16.15	82.42	8.1	33.52	8.2	24.6	1.29
I39	16 Feb 2018	16	16.12	82.70	8.1	33.52	8.2	24.6	1.26
I39	16 Feb 2018	17	15.94	82.97	8.0	33.52	8.2	24.6	1.20
I39	16 Feb 2018	18	15.74	83.05	8.0	33.51	8.2	24.7	1.17
I39	20 Feb 2018	1	15.39	83.33	7.7	33.52	8.2	24.7	0.37
I39	20 Feb 2018	2	15.38	83.52	7.7	33.52	8.2	24.7	0.35
I39	20 Feb 2018	3	15.37	83.79	7.7	33.52	8.2	24.8	0.38
I39	20 Feb 2018	4	15.35	83.66	7.7	33.52	8.2	24.8	0.40
I39	20 Feb 2018	5	15.34	83.80	7.7	33.52	8.2	24.8	0.44
I39	20 Feb 2018	6	15.30	83.85	7.7	33.52	8.2	24.8	0.47
I39	20 Feb 2018	7	15.27	84.03	7.7	33.52	8.2	24.8	0.50
I39	20 Feb 2018	8	15.24	83.95	7.7	33.52	8.2	24.8	0.55
I39	20 Feb 2018	9	15.21	83.75	7.7	33.51	8.2	24.8	0.63
I39	20 Feb 2018	10	15.17	83.78	7.6	33.51	8.2	24.8	0.65
I39	20 Feb 2018	11	15.16	83.99	7.6	33.51	8.2	24.8	0.68
I39	20 Feb 2018	12	15.17	84.03	7.6	33.51	8.2	24.8	0.67
I39	20 Feb 2018	13	15.09	84.01	7.6	33.51	8.2	24.8	0.75
I39	20 Feb 2018	14	15.05	84.06	7.6	33.51	8.2	24.8	0.79
I39	20 Feb 2018	15	15.02	84.15	7.5	33.50	8.2	24.8	0.89
I39	20 Feb 2018	16	14.90	84.21	7.4	33.50	8.2	24.8	0.98
I39	20 Feb 2018	17	14.74	82.58	7.3	33.49	8.1	24.9	1.04
I39	20 Feb 2018	18	14.71	81.44	7.2	33.48	8.1	24.9	1.08
I39	26 Feb 2018	1	14.61	77.17	8.0	33.56	8.1	24.9	0.48
I39	26 Feb 2018	2	14.61	77.03	8.0	33.56	8.1	24.9	0.45
I39	26 Feb 2018	3	14.60	77.11	8.0	33.56	8.1	24.9	0.47
I39	26 Feb 2018	4	14.58	77.15	7.9	33.56	8.1	25.0	0.55
I39	26 Feb 2018	5	14.53	77.03	8.0	33.56	8.1	25.0	0.68
I39	26 Feb 2018	6	14.50	76.74	8.0	33.56	8.1	25.0	0.86
I39	26 Feb 2018	7	14.42	76.70	8.0	33.56	8.1	25.0	1.11
I39	26 Feb 2018	8	14.33	77.08	8.0	33.54	8.1	25.0	1.43
I39	26 Feb 2018	9	14.27	77.79	8.0	33.53	8.1	25.0	1.75
I39	26 Feb 2018	10	14.21	78.41	8.0	33.53	8.1	25.0	1.81
I39	26 Feb 2018	11	14.17	78.87	8.0	33.52	8.1	25.0	1.92
I39	26 Feb 2018	12	14.14	79.49	8.0	33.52	8.1	25.0	1.99
I39	26 Feb 2018	13	14.12	79.80	8.0	33.51	8.1	25.0	2.11

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	26 Feb 2018	14	14.11	79.88	7.9	33.51	8.1	25.0	2.21
I39	26 Feb 2018	15	14.09	80.11	7.9	33.51	8.1	25.0	2.19
I39	26 Feb 2018	16	14.06	80.87	7.8	33.51	8.1	25.0	2.25
I39	26 Feb 2018	17	13.81	81.72	7.3	33.51	8.1	25.1	1.83
I39	26 Feb 2018	18	13.06	82.71	6.8	33.50	8.0	25.2	1.50
I40	05 Feb 2018	1	15.05	74.77	9.0	33.44	8.2	24.8	2.03
I40	05 Feb 2018	2	15.04	74.99	9.1	33.44	8.2	24.8	2.11
I40	05 Feb 2018	3	15.03	75.11	9.1	33.44	8.2	24.8	2.16
I40	05 Feb 2018	4	14.99	74.71	9.1	33.44	8.2	24.8	2.41
I40	05 Feb 2018	5	14.93	74.73	9.0	33.44	8.2	24.8	2.52
I40	05 Feb 2018	6	14.84	74.27	9.1	33.44	8.2	24.8	2.83
I40	05 Feb 2018	7	14.80	73.70	9.1	33.43	8.2	24.8	3.07
I40	05 Feb 2018	8	14.79	72.84	9.1	33.43	8.2	24.8	3.33
I40	05 Feb 2018	9	14.78	72.59	9.0	33.43	8.2	24.8	3.39
I40	05 Feb 2018	10	14.77	67.70	8.9	33.42	8.2	24.8	3.42
I40	16 Feb 2018	1	16.56	67.55	8.1	33.46	8.2	24.4	1.31
I40	16 Feb 2018	2	16.56	67.68	8.1	33.46	8.2	24.4	1.34
I40	16 Feb 2018	3	16.46	67.17	8.0	33.46	8.2	24.5	1.79
I40	16 Feb 2018	4	16.27	66.22	8.1	33.49	8.2	24.5	2.46
I40	16 Feb 2018	5	16.22	64.09	8.0	33.49	8.2	24.5	3.08
I40	16 Feb 2018	6	16.22	61.81	8.0	33.49	8.2	24.5	3.32
I40	16 Feb 2018	7	16.21	60.65	8.0	33.49	8.2	24.5	3.28
I40	16 Feb 2018	8	16.21	60.50	8.0	33.49	8.2	24.5	3.26
I40	16 Feb 2018	9	16.21	59.76	7.9	33.50	8.2	24.5	3.03
I40	16 Feb 2018	10	16.22	57.17	7.8	33.50	8.2	24.5	2.89
I40	20 Feb 2018	1	15.78	57.80	7.8	33.55	8.2	24.7	0.94
I40	20 Feb 2018	2	15.76	57.85	7.8	33.55	8.2	24.7	0.95
I40	20 Feb 2018	3	15.66	57.14	7.8	33.54	8.2	24.7	1.27
I40	20 Feb 2018	4	15.63	56.49	7.9	33.54	8.2	24.7	1.85
I40	20 Feb 2018	5	15.55	56.30	7.9	33.55	8.2	24.7	2.21
I40	20 Feb 2018	6	15.49	57.36	7.9	33.55	8.2	24.7	2.32
I40	20 Feb 2018	7	15.46	58.39	7.9	33.55	8.2	24.8	2.39
I40	20 Feb 2018	8	15.39	59.51	7.9	33.55	8.2	24.8	2.33
I40	20 Feb 2018	9	15.33	59.91	8.0	33.55	8.2	24.8	2.18
I40	20 Feb 2018	10	15.18	57.77	8.0	33.56	8.2	24.8	2.02
I40	26 Feb 2018	1	14.85	73.40	8.0	33.57	8.1	24.9	0.47
I40	26 Feb 2018	2	14.85	74.16	8.0	33.57	8.1	24.9	0.49
I40	26 Feb 2018	3	14.80	73.97	8.0	33.58	8.1	24.9	0.56
I40	26 Feb 2018	4	14.76	73.01	8.0	33.58	8.1	24.9	0.66
I40	26 Feb 2018	5	14.72	71.11	8.0	33.58	8.1	24.9	0.81
I40	26 Feb 2018	6	14.70	69.92	8.1	33.59	8.1	24.9	0.99
I40	26 Feb 2018	7	14.68	67.92	8.1	33.59	8.1	25.0	1.19
I40	26 Feb 2018	8	14.64	65.75	8.1	33.59	8.1	25.0	1.27
I40	26 Feb 2018	9	14.29	59.30	7.6	33.57	8.1	25.0	1.46

NA = not available

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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
07 Feb 2018	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
08 Feb 2018	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
07 Feb 2018	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
08 Feb 2018	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
07 Feb 2018	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
08 Feb 2018	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
07 Feb 2018	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
08 Feb 2018	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. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I3	06 Feb 2018	942	2	<2	<2	<2	1.00	15.6	82.10	8.4	33.47	8.1
I3	06 Feb 2018	942	18	<2	<2	<2	1.00	15.3	82.77	8.5	33.48	8.2
I3	06 Feb 2018	942	27	<2	<2	<2	1.00	14.4	82.59	7.8	33.47	8.1
I5	06 Feb 2018	1007	2	<2	<2	<2	1.00	15.7	85.04	7.4	33.48	8.1
I5	06 Feb 2018	1007	6	<2	<2	<2	1.00	15.4	82.76	7.7	33.58	8.2
I5	06 Feb 2018	1007	11	<2	<2	<2	1.00	15.0	79.81	8.0	33.52	8.2
I7	06 Feb 2018	836	2	<2	<2	<2	1.00	15.5	84.32	8.3	33.48	8.1
I7	06 Feb 2018	836	18	2e	<2	<2	1.00	14.8	82.23	7.9	33.45	8.1
I7	06 Feb 2018	836	52	<2	<2	2e	1.00	12.6	83.84	6.0	33.47	7.9
I8	06 Feb 2018	1121	2	<2	<2	<2	1.00	15.7	83.87	8.4	33.48	8.2
I8	06 Feb 2018	1121	18	<2	<2	<2	1.00	14.1	83.50	7.5	33.43	8.1
I8	06 Feb 2018	1121	37	<2	<2	<2	1.00	13.9	83.20	7.2	33.45	8.1
I9	06 Feb 2018	1108	2	<2	<2	<2	1.00	15.7	82.72	8.5	33.48	8.2
I9	06 Feb 2018	1108	18	<2	<2	<2	1.00	15.3	83.30	8.4	33.48	8.2
I9	06 Feb 2018	1108	27	<2	<2	<2	1.00	14.4	80.23	7.9	33.46	8.1
I10	06 Feb 2018	1053	2	2e	<2	<2	1.00	15.9	84.35	8.3	33.48	8.2
I10	06 Feb 2018	1053	12	2e	<2	<2	1.00	15.7	84.29	8.3	33.48	8.2
I10	06 Feb 2018	1053	18	2e	<2	<2	1.00	14.8	78.26	8.4	33.46	8.2
I11	06 Feb 2018	1041	2	<2	<2	<2	1.00	15.8	84.29	8.3	33.49	8.2
I11	06 Feb 2018	1041	6	<2	<2	<2	1.00	15.6	83.22	8.6	33.48	8.2
I11	06 Feb 2018	1041	11	<2	<2	<2	1.00	15.2	79.74	8.7	33.47	8.2
I12	07 Feb 2018	1058	2	54	6e	2e	0.11	15.4	81.11	8.3	33.39	8.1
I12	07 Feb 2018	1058	18	<2	<2	<2	1.00	15.5	80.92	8.7	33.48	8.2
I12	07 Feb 2018	1058	27	<2	<2	<2	1.00	14.5	78.08	7.9	33.46	8.1
I13	07 Feb 2018	1136	2	<2	<2	<2	1.00	15.8	83.15	8.2	33.48	8.1
I13	07 Feb 2018	1136	18	<2	<2	<2	1.00	14.2	81.18	7.7	33.46	8.1
I13	07 Feb 2018	1136	37	<2	<2	<2	1.00	13.8	80.83	7.0	33.45	8.0
I14	07 Feb 2018	1119	2	<2	<2	<2	1.00	15.8	83.08	8.3	33.48	8.1
I14	07 Feb 2018	1119	18	28e	<2	<2	0.07	15.4	81.45	8.6	33.46	8.2
I14	07 Feb 2018	1119	27	8e	<2	<2	0.25	14.5	77.70	7.9	33.46	8.1
I16	07 Feb 2018	1048	2	<2	<2	<2	1.00	15.7	82.87	8.5	33.48	8.1
I16	07 Feb 2018	1048	18	<2	2e	<2	1.00	15.2	82.10	8.4	33.48	8.1
I16	07 Feb 2018	1048	27	<2	<2	<2	1.00	14.4	76.01	7.8	33.46	8.1
I18	07 Feb 2018	1026	2	<2	<2	<2	1.00	15.7	84.30	8.3	33.48	8.1
I18	07 Feb 2018	1026	12	<2	<2	<2	1.00	15.5	82.73	8.4	33.48	8.1
I18	07 Feb 2018	1026	18	<2	<2	<2	1.00	14.9	83.51	8.2	33.47	8.1

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I20	07 Feb 2018	900	2	<2	<2	<2	1.00	15.6	83.82	8.4	33.48	8.1
I20	07 Feb 2018	900	18	<2	<2	<2	1.00	14.9	83.92	8.2	33.48	8.1
I20	07 Feb 2018	900	55	<2	<2	<2	1.00	12.6	85.01	6.0	33.47	7.9
I21	07 Feb 2018	925	2	<2	<2	<2	1.00	15.7	84.92	8.2	33.48	8.1
I21	07 Feb 2018	925	18	<2	<2	<2	1.00	14.1	84.18	7.4	33.44	8.0
I21	07 Feb 2018	925	37	<2	<2	<2	1.00	13.6	81.58	6.7	33.46	8.0
I22	07 Feb 2018	1000	2	2e	<2	<2	1.00	15.7	83.79	8.3	33.48	8.1
I22	07 Feb 2018	1000	18	22e	2e	<2	0.09	15.1	81.64	8.4	33.44	8.1
I22	07 Feb 2018	1000	27	<2	<2	2e	1.00	14.4	77.18	7.8	33.46	8.1
I23	07 Feb 2018	1014	2	<2	<2	<2	1.00	15.7	83.90	8.4	33.47	8.1
I23	07 Feb 2018	1014	12	<2	<2	<2	1.00	15.0	82.88	8.2	33.47	8.1
I23	07 Feb 2018	1014	18	<2	<2	<2	1.00	14.8	79.15	8.1	33.46	8.1
I30	08 Feb 2018	941	2	<2	<2	<2	1.00	15.4	81.52	8.6	33.47	8.0
I30	08 Feb 2018	941	18	<2	<2	<2	1.00	14.8	81.30	8.2	33.46	8.0
I30	08 Feb 2018	941	27	4e	<2	2e	0.50	14.1	78.01	7.3	33.45	7.9
I33	08 Feb 2018	840	2	<2	<2	<2	1.00	15.3	82.20	8.2	33.48	8.0
I33	08 Feb 2018	840	18	4e	<2	<2	0.50	15.2	82.60	8.3	33.47	8.0
I33	08 Feb 2018	840	27	<2	2e	<2	1.00	14.4	81.67	7.6	33.47	7.9
I36	08 Feb 2018	1021	2	<2	<2	<2	1.00	15.5	76.54	8.6	33.48	8.0
I36	08 Feb 2018	1021	6	<2	<2	<2	1.00	15.3	75.31	8.7	33.48	8.0
I36	08 Feb 2018	1021	11	<20	<2	<2	0.10	15.0	39.37	7.4	33.45	8.0
I37	08 Feb 2018	812	2	<2	<2	<2	1.00	15.6	82.89	8.2	33.48	8.0
I37	08 Feb 2018	812	6	<2	<2	<2	1.00	15.6	82.73	8.2	33.48	8.0
I37	08 Feb 2018	812	11	<2	<2	<2	1.00	15.2	78.47	8.0	33.47	8.0
I38	08 Feb 2018	1055	2	<2	<2	<2	1.00	15.9	82.44	8.2	33.49	8.0
I38	08 Feb 2018	1055	6	<2	<2	<2	1.00	15.7	81.86	8.2	33.49	8.0
I38	08 Feb 2018	1055	11	<2	<2	<2	1.00	15.1	68.55	7.4	33.46	8.0

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
11	06 Feb 2018	Depth (m)	62
11	06 Feb 2018	Arrive Time	857
11	06 Feb 2018	Depart Time	902
11	06 Feb 2018	Air Temp (C)	14
11	06 Feb 2018	Weather	Fog
11	06 Feb 2018	Visibility (mi)	2
11	06 Feb 2018	Wind Speed (kts)	2
11	06 Feb 2018	Wind Dir	E
11	06 Feb 2018	Water Color	Blue
11	06 Feb 2018	Wave Ht Low (ft)	4
11	06 Feb 2018	Wave Period (sec)	16
11	06 Feb 2018	Sea State	Calm
11	06 Feb 2018	High Tide (ft)	3.1
11	06 Feb 2018	High Tide Time	1340
11	06 Feb 2018	Low Tide (ft)	1.46
11	06 Feb 2018	Low Tide Time	807
11	06 Feb 2018	Comments	Boats
12	06 Feb 2018	Depth (m)	34
12	06 Feb 2018	Arrive Time	926
12	06 Feb 2018	Depart Time	930
12	06 Feb 2018	Air Temp (C)	14
12	06 Feb 2018	Weather	Fog
12	06 Feb 2018	Visibility (mi)	3
12	06 Feb 2018	Wind Speed (kts)	3
12	06 Feb 2018	Wind Dir	E
12	06 Feb 2018	Water Color	Bluish-Green
12	06 Feb 2018	Wave Ht Low (ft)	4
12	06 Feb 2018	Wave Period (sec)	16
12	06 Feb 2018	Sea State	Calm
12	06 Feb 2018	High Tide (ft)	3.1
12	06 Feb 2018	High Tide Time	1340
12	06 Feb 2018	Low Tide (ft)	1.46
12	06 Feb 2018	Low Tide Time	807
12	06 Feb 2018	Comments	Dolphins on station
13	06 Feb 2018	Depth (m)	33
13	06 Feb 2018	Arrive Time	942
13	06 Feb 2018	Depart Time	948
13	06 Feb 2018	Air Temp (C)	14
13	06 Feb 2018	Weather	Fog
13	06 Feb 2018	Visibility (mi)	2
13	06 Feb 2018	Wind Speed (kts)	1
13	06 Feb 2018	Wind Dir	SE
13	06 Feb 2018	Water Color	Bluish-Green
13	06 Feb 2018	Wave Ht Low (ft)	4
13	06 Feb 2018	Wave Period (sec)	16
13	06 Feb 2018	Sea State	Calm
13	06 Feb 2018	High Tide (ft)	3.1
13	06 Feb 2018	High Tide Time	1340
13	06 Feb 2018	Low Tide (ft)	1.46

Station	Date	Parameter	Value
13	06 Feb 2018	Low Tide Time	807
13	06 Feb 2018	Comments	none
14	06 Feb 2018	Depth (m)	20
14	06 Feb 2018	Arrive Time	958
14	06 Feb 2018	Depart Time	1001
14	06 Feb 2018	Air Temp (C)	14
14	06 Feb 2018	Weather	Fog
14	06 Feb 2018	Visibility (mi)	2
14	06 Feb 2018	Wind Speed (kts)	2
14	06 Feb 2018	Wind Dir	SE
14	06 Feb 2018	Water Color	Bluish-Green
14	06 Feb 2018	Wave Ht Low (ft)	4
14	06 Feb 2018	Wave Period (sec)	16
14	06 Feb 2018	Sea State	Calm
14	06 Feb 2018	High Tide (ft)	3.1
14	06 Feb 2018	High Tide Time	1340
14	06 Feb 2018	Low Tide (ft)	1.46
14	06 Feb 2018	Low Tide Time	807
14	06 Feb 2018	Comments	none
15	06 Feb 2018	Depth (m)	14
15	06 Feb 2018	Arrive Time	1007
15	06 Feb 2018	Depart Time	1013
15	06 Feb 2018	Air Temp (C)	14
15	06 Feb 2018	Weather	Partly Cloudy
15	06 Feb 2018	Visibility (mi)	4
15	06 Feb 2018	Wind Speed (kts)	2
15	06 Feb 2018	Wind Dir	SE
15	06 Feb 2018	Water Color	Green
15	06 Feb 2018	Wave Ht Low (ft)	4
15	06 Feb 2018	Wave Period (sec)	16
15	06 Feb 2018	Sea State	Calm
15	06 Feb 2018	High Tide (ft)	3.1
15	06 Feb 2018	High Tide Time	1340
15	06 Feb 2018	Low Tide (ft)	1.46
15	06 Feb 2018	Low Tide Time	807
15	06 Feb 2018	Comments	none
16	06 Feb 2018	Depth (m)	27
16	06 Feb 2018	Arrive Time	1026
16	06 Feb 2018	Depart Time	1030
16	06 Feb 2018	Air Temp (C)	14
16	06 Feb 2018	Weather	Fog
16	06 Feb 2018	Visibility (mi)	2
16	06 Feb 2018	Wind Speed (kts)	5
16	06 Feb 2018	Wind Dir	SE
16	06 Feb 2018	Water Color	Green
16	06 Feb 2018	Wave Ht Low (ft)	4
16	06 Feb 2018	Wave Period (sec)	16
16	06 Feb 2018	Sea State	Calm
16	06 Feb 2018	High Tide (ft)	3.1
16	06 Feb 2018	High Tide Time	1340
16	06 Feb 2018	Low Tide (ft)	1.46
16	06 Feb 2018	Low Tide Time	807

Station	Date	Parameter	Value
16	06 Feb 2018	Comments	none
17	06 Feb 2018	Depth (m)	53
17	06 Feb 2018	Arrive Time	836
17	06 Feb 2018	Depart Time	840
17	06 Feb 2018	Air Temp (C)	14
17	06 Feb 2018	Weather	Fog
17	06 Feb 2018	Visibility (mi)	1
17	06 Feb 2018	Wind Speed (kts)	5
17	06 Feb 2018	Wind Dir	N
17	06 Feb 2018	Water Color	Bluish-Green
17	06 Feb 2018	Wave Ht Low (ft)	4
17	06 Feb 2018	Wave Period (sec)	16
17	06 Feb 2018	Sea State	Calm
17	06 Feb 2018	High Tide (ft)	3.1
17	06 Feb 2018	High Tide Time	1340
17	06 Feb 2018	Low Tide (ft)	1.46
17	06 Feb 2018	Low Tide Time	807
17	06 Feb 2018	Comments	none
18	06 Feb 2018	Depth (m)	36
18	06 Feb 2018	Arrive Time	1121
18	06 Feb 2018	Depart Time	1125
18	06 Feb 2018	Air Temp (C)	15
18	06 Feb 2018	Weather	Partly Cloudy
18	06 Feb 2018	Visibility (mi)	4
18	06 Feb 2018	Wind Speed (kts)	6
18	06 Feb 2018	Wind Dir	S
18	06 Feb 2018	Water Color	Green
18	06 Feb 2018	Wave Ht Low (ft)	3
18	06 Feb 2018	Wave Period (sec)	16
18	06 Feb 2018	Sea State	Calm
18	06 Feb 2018	High Tide (ft)	3.1
18	06 Feb 2018	High Tide Time	1340
18	06 Feb 2018	Low Tide (ft)	1.46
18	06 Feb 2018	Low Tide Time	807
18	06 Feb 2018	Comments	none
19	06 Feb 2018	Depth (m)	30
19	06 Feb 2018	Arrive Time	1108
19	06 Feb 2018	Depart Time	1111
19	06 Feb 2018	Air Temp (C)	14
19	06 Feb 2018	Weather	Partly Cloudy
19	06 Feb 2018	Visibility (mi)	4
19	06 Feb 2018	Wind Speed (kts)	5
19	06 Feb 2018	Wind Dir	SE
19	06 Feb 2018	Water Color	Green
19	06 Feb 2018	Wave Ht Low (ft)	3
19	06 Feb 2018	Wave Period (sec)	16
19	06 Feb 2018	Sea State	Calm
19	06 Feb 2018	High Tide (ft)	3.1
19	06 Feb 2018	High Tide Time	1340
19	06 Feb 2018	Low Tide (ft)	1.46
19	06 Feb 2018	Low Tide Time	807
19	06 Feb 2018	Comments	Kelp debris

Station	Date	Parameter	Value
I10	06 Feb 2018	Depth (m)	19
I10	06 Feb 2018	Arrive Time	1053
I10	06 Feb 2018	Depart Time	1056
I10	06 Feb 2018	Air Temp (C)	15
I10	06 Feb 2018	Weather	Partly Cloudy
I10	06 Feb 2018	Visibility (mi)	4
I10	06 Feb 2018	Wind Speed (kts)	6
I10	06 Feb 2018	Wind Dir	SE
I10	06 Feb 2018	Water Color	Green
I10	06 Feb 2018	Wave Ht Low (ft)	3
I10	06 Feb 2018	Wave Period (sec)	16
I10	06 Feb 2018	Sea State	Calm
I10	06 Feb 2018	High Tide (ft)	3.1
I10	06 Feb 2018	High Tide Time	1340
I10	06 Feb 2018	Low Tide (ft)	1.46
I10	06 Feb 2018	Low Tide Time	807
I10	06 Feb 2018	Comments	none
I11	06 Feb 2018	Depth (m)	13
I11	06 Feb 2018	Arrive Time	1041
I11	06 Feb 2018	Depart Time	1044
I11	06 Feb 2018	Air Temp (C)	14
I11	06 Feb 2018	Weather	Fog
I11	06 Feb 2018	Visibility (mi)	2
I11	06 Feb 2018	Wind Speed (kts)	7
I11	06 Feb 2018	Wind Dir	SE
I11	06 Feb 2018	Water Color	Green
I11	06 Feb 2018	Wave Ht Low (ft)	4
I11	06 Feb 2018	Wave Period (sec)	16
I11	06 Feb 2018	Sea State	Calm
I11	06 Feb 2018	High Tide (ft)	3.1
I11	06 Feb 2018	High Tide Time	1340
I11	06 Feb 2018	Low Tide (ft)	1.46
I11	06 Feb 2018	Low Tide Time	807
I11	06 Feb 2018	Comments	none
I12	07 Feb 2018	Depth (m)	29
I12	07 Feb 2018	Arrive Time	1058
I12	07 Feb 2018	Depart Time	1102
I12	07 Feb 2018	Air Temp (C)	15
I12	07 Feb 2018	Weather	Haze
I12	07 Feb 2018	Visibility (mi)	2
I12	07 Feb 2018	Wind Speed (kts)	9
I12	07 Feb 2018	Wind Dir	W
I12	07 Feb 2018	Water Color	Greenish-Blue
I12	07 Feb 2018	Wave Ht Low (ft)	4
I12	07 Feb 2018	Wave Period (sec)	9
I12	07 Feb 2018	Sea State	Calm
I12	07 Feb 2018	High Tide (ft)	2.71
I12	07 Feb 2018	High Tide Time	1531
I12	07 Feb 2018	Low Tide (ft)	1.29
I12	07 Feb 2018	Low Tide Time	947
I12	07 Feb 2018	Comments	none

Station	Date	Parameter	Value
I13	07 Feb 2018	Depth (m)	38
I13	07 Feb 2018	Arrive Time	1136
I13	07 Feb 2018	Depart Time	1146
I13	07 Feb 2018	Air Temp (C)	15
I13	07 Feb 2018	Weather	Haze
I13	07 Feb 2018	Visibility (mi)	5
I13	07 Feb 2018	Wind Speed (kts)	10
I13	07 Feb 2018	Wind Dir	W
I13	07 Feb 2018	Water Color	Greenish-Blue
I13	07 Feb 2018	Wave Ht Low (ft)	4
I13	07 Feb 2018	Wave Period (sec)	9
I13	07 Feb 2018	Sea State	Calm
I13	07 Feb 2018	High Tide (ft)	2.71
I13	07 Feb 2018	High Tide Time	1531
I13	07 Feb 2018	Low Tide (ft)	1.29
I13	07 Feb 2018	Low Tide Time	947
I13	07 Feb 2018	Comments	none
I14	07 Feb 2018	Depth (m)	28
I14	07 Feb 2018	Arrive Time	1119
I14	07 Feb 2018	Depart Time	1124
I14	07 Feb 2018	Air Temp (C)	15
I14	07 Feb 2018	Weather	Haze
I14	07 Feb 2018	Visibility (mi)	5
I14	07 Feb 2018	Wind Speed (kts)	11
I14	07 Feb 2018	Wind Dir	W
I14	07 Feb 2018	Water Color	Greenish-Blue
I14	07 Feb 2018	Wave Ht Low (ft)	4
I14	07 Feb 2018	Wave Period (sec)	9
I14	07 Feb 2018	Sea State	Calm
I14	07 Feb 2018	High Tide (ft)	2.71
I14	07 Feb 2018	High Tide Time	1531
I14	07 Feb 2018	Low Tide (ft)	1.29
I14	07 Feb 2018	Low Tide Time	947
I14	07 Feb 2018	Comments	none
I15	07 Feb 2018	Depth (m)	31
I15	07 Feb 2018	Arrive Time	1108
I15	07 Feb 2018	Depart Time	1112
I15	07 Feb 2018	Air Temp (C)	15
I15	07 Feb 2018	Weather	Haze
I15	07 Feb 2018	Visibility (mi)	2
I15	07 Feb 2018	Wind Speed (kts)	10
I15	07 Feb 2018	Wind Dir	W
I15	07 Feb 2018	Water Color	Greenish-Blue
I15	07 Feb 2018	Wave Ht Low (ft)	4
I15	07 Feb 2018	Wave Period (sec)	9
I15	07 Feb 2018	Sea State	Calm
I15	07 Feb 2018	High Tide (ft)	2.71
I15	07 Feb 2018	High Tide Time	1531
I15	07 Feb 2018	Low Tide (ft)	1.29
I15	07 Feb 2018	Low Tide Time	947
I15	07 Feb 2018	Comments	none
I16	07 Feb 2018	Depth (m)	28

Station	Date	Parameter	Value
I16	07 Feb 2018	Arrive Time	1048
I16	07 Feb 2018	Depart Time	1053
I16	07 Feb 2018	Air Temp (C)	14
I16	07 Feb 2018	Weather	Haze
I16	07 Feb 2018	Visibility (mi)	2
I16	07 Feb 2018	Wind Speed (kts)	8
I16	07 Feb 2018	Wind Dir	W
I16	07 Feb 2018	Water Color	Greenish-Blue
I16	07 Feb 2018	Wave Ht Low (ft)	4
I16	07 Feb 2018	Wave Period (sec)	9
I16	07 Feb 2018	Sea State	Calm
I16	07 Feb 2018	High Tide (ft)	2.71
I16	07 Feb 2018	High Tide Time	1531
I16	07 Feb 2018	Low Tide (ft)	1.29
I16	07 Feb 2018	Low Tide Time	947
I16	07 Feb 2018	Comments	none
I17	07 Feb 2018	Depth (m)	25
I17	07 Feb 2018	Arrive Time	1039
I17	07 Feb 2018	Depart Time	1044
I17	07 Feb 2018	Air Temp (C)	14
I17	07 Feb 2018	Weather	Haze
I17	07 Feb 2018	Visibility (mi)	2
I17	07 Feb 2018	Wind Speed (kts)	10
I17	07 Feb 2018	Wind Dir	W
I17	07 Feb 2018	Water Color	Greenish-Blue
I17	07 Feb 2018	Wave Ht Low (ft)	4
I17	07 Feb 2018	Wave Period (sec)	9
I17	07 Feb 2018	Sea State	Calm
I17	07 Feb 2018	High Tide (ft)	2.71
I17	07 Feb 2018	High Tide Time	1531
I17	07 Feb 2018	Low Tide (ft)	1.29
I17	07 Feb 2018	Low Tide Time	947
I17	07 Feb 2018	Comments	none
I18	07 Feb 2018	Depth (m)	19
I18	07 Feb 2018	Arrive Time	1026
I18	07 Feb 2018	Depart Time	1031
I18	07 Feb 2018	Air Temp (C)	14
I18	07 Feb 2018	Weather	Haze
I18	07 Feb 2018	Visibility (mi)	2
I18	07 Feb 2018	Wind Speed (kts)	8
I18	07 Feb 2018	Wind Dir	W
I18	07 Feb 2018	Water Color	Greenish-Blue
I18	07 Feb 2018	Wave Ht Low (ft)	4
I18	07 Feb 2018	Wave Period (sec)	9
I18	07 Feb 2018	Sea State	Calm
I18	07 Feb 2018	High Tide (ft)	2.71
I18	07 Feb 2018	High Tide Time	1531
I18	07 Feb 2018	Low Tide (ft)	1.29
I18	07 Feb 2018	Low Tide Time	947
I18	07 Feb 2018	Comments	none
I20	07 Feb 2018	Depth (m)	55
I20	07 Feb 2018	Arrive Time	900

Station	Date	Parameter	Value
I20	07 Feb 2018	Depart Time	910
I20	07 Feb 2018	Air Temp (C)	12
I20	07 Feb 2018	Weather	Fog
I20	07 Feb 2018	Visibility (mi)	< 1
I20	07 Feb 2018	Wind Speed (kts)	8
I20	07 Feb 2018	Wind Dir	W
I20	07 Feb 2018	Water Color	Greenish-Blue
I20	07 Feb 2018	Wave Ht Low (ft)	4
I20	07 Feb 2018	Wave Period (sec)	9
I20	07 Feb 2018	Sea State	Calm
I20	07 Feb 2018	High Tide (ft)	2.71
I20	07 Feb 2018	High Tide Time	1531
I20	07 Feb 2018	Low Tide (ft)	1.29
I20	07 Feb 2018	Low Tide Time	947
I20	07 Feb 2018	Comments	none
I21	07 Feb 2018	Depth (m)	41
I21	07 Feb 2018	Arrive Time	925
I21	07 Feb 2018	Depart Time	934
I21	07 Feb 2018	Air Temp (C)	12
I21	07 Feb 2018	Weather	Fog
I21	07 Feb 2018	Visibility (mi)	< 1
I21	07 Feb 2018	Wind Speed (kts)	6
I21	07 Feb 2018	Wind Dir	W
I21	07 Feb 2018	Water Color	Greenish-Blue
I21	07 Feb 2018	Wave Ht Low (ft)	4
I21	07 Feb 2018	Wave Period (sec)	9
I21	07 Feb 2018	Sea State	Calm
I21	07 Feb 2018	High Tide (ft)	2.71
I21	07 Feb 2018	High Tide Time	1531
I21	07 Feb 2018	Low Tide (ft)	1.29
I21	07 Feb 2018	Low Tide Time	947
I21	07 Feb 2018	Comments	Kelp debris
I22	07 Feb 2018	Depth (m)	28
I22	07 Feb 2018	Arrive Time	1000
I22	07 Feb 2018	Depart Time	1007
I22	07 Feb 2018	Air Temp (C)	13
I22	07 Feb 2018	Weather	Drizzle
I22	07 Feb 2018	Visibility (mi)	1
I22	07 Feb 2018	Wind Speed (kts)	8
I22	07 Feb 2018	Wind Dir	SW
I22	07 Feb 2018	Water Color	Greenish-Blue
I22	07 Feb 2018	Wave Ht Low (ft)	4
I22	07 Feb 2018	Wave Period (sec)	9
I22	07 Feb 2018	Sea State	Calm
I22	07 Feb 2018	High Tide (ft)	2.71
I22	07 Feb 2018	High Tide Time	1531
I22	07 Feb 2018	Low Tide (ft)	1.29
I22	07 Feb 2018	Low Tide Time	947
I22	07 Feb 2018	Comments	none
I23	07 Feb 2018	Depth (m)	21
I23	07 Feb 2018	Arrive Time	1014
I23	07 Feb 2018	Depart Time	1021

Station	Date	Parameter	Value
I23	07 Feb 2018	Air Temp (C)	14
I23	07 Feb 2018	Weather	Haze
I23	07 Feb 2018	Visibility (mi)	2
I23	07 Feb 2018	Wind Speed (kts)	11
I23	07 Feb 2018	Wind Dir	W
I23	07 Feb 2018	Water Color	Greenish-Blue
I23	07 Feb 2018	Wave Ht Low (ft)	4
I23	07 Feb 2018	Wave Period (sec)	9
I23	07 Feb 2018	Sea State	Calm
I23	07 Feb 2018	High Tide (ft)	2.71
I23	07 Feb 2018	High Tide Time	1531
I23	07 Feb 2018	Low Tide (ft)	1.29
I23	07 Feb 2018	Low Tide Time	947
I23	07 Feb 2018	Comments	none
I27	07 Feb 2018	Depth (m)	28
I27	07 Feb 2018	Arrive Time	946
I27	07 Feb 2018	Depart Time	953
I27	07 Feb 2018	Air Temp (C)	13
I27	07 Feb 2018	Weather	Fog
I27	07 Feb 2018	Visibility (mi)	< 1
I27	07 Feb 2018	Wind Speed (kts)	4
I27	07 Feb 2018	Wind Dir	SW
I27	07 Feb 2018	Water Color	Greenish-Blue
I27	07 Feb 2018	Wave Ht Low (ft)	4
I27	07 Feb 2018	Wave Period (sec)	9
I27	07 Feb 2018	Sea State	Calm
I27	07 Feb 2018	High Tide (ft)	2.71
I27	07 Feb 2018	High Tide Time	1531
I27	07 Feb 2018	Low Tide (ft)	1.29
I27	07 Feb 2018	Low Tide Time	947
I27	07 Feb 2018	Comments	none
I28	08 Feb 2018	Depth (m)	56
I28	08 Feb 2018	Arrive Time	900
I28	08 Feb 2018	Depart Time	904
I28	08 Feb 2018	Air Temp (C)	15
I28	08 Feb 2018	Weather	Haze
I28	08 Feb 2018	Visibility (mi)	12
I28	08 Feb 2018	Wind Speed (kts)	5
I28	08 Feb 2018	Wind Dir	W
I28	08 Feb 2018	Water Color	Bluish-Green
I28	08 Feb 2018	Wave Ht Low (ft)	3
I28	08 Feb 2018	Wave Period (sec)	13
I28	08 Feb 2018	Sea State	Wind ripples
I28	08 Feb 2018	High Tide (ft)	4.36
I28	08 Feb 2018	High Tide Time	334
I28	08 Feb 2018	Low Tide (ft)	0.9
I28	08 Feb 2018	Low Tide Time	1117
I28	08 Feb 2018	Comments	none
I29	08 Feb 2018	Depth (m)	37
I29	08 Feb 2018	Arrive Time	921
I29	08 Feb 2018	Depart Time	928
I29	08 Feb 2018	Air Temp (C)	15

Station	Date	Parameter	Value
I29	08 Feb 2018	Weather	Clear
I29	08 Feb 2018	Visibility (mi)	14
I29	08 Feb 2018	Wind Speed (kts)	6
I29	08 Feb 2018	Wind Dir	W
I29	08 Feb 2018	Water Color	Bluish-Green
I29	08 Feb 2018	Wave Ht Low (ft)	3
I29	08 Feb 2018	Wave Period (sec)	13
I29	08 Feb 2018	Sea State	Wind ripples
I29	08 Feb 2018	High Tide (ft)	4.36
I29	08 Feb 2018	High Tide Time	334
I29	08 Feb 2018	Low Tide (ft)	0.9
I29	08 Feb 2018	Low Tide Time	1117
I29	08 Feb 2018	Comments	none
I30	08 Feb 2018	Depth (m)	28
I30	08 Feb 2018	Arrive Time	941
I30	08 Feb 2018	Depart Time	948
I30	08 Feb 2018	Air Temp (C)	16
I30	08 Feb 2018	Weather	Clear
I30	08 Feb 2018	Visibility (mi)	14
I30	08 Feb 2018	Wind Speed (kts)	6
I30	08 Feb 2018	Wind Dir	SW
I30	08 Feb 2018	Water Color	Bluish-Green
I30	08 Feb 2018	Wave Ht Low (ft)	3
I30	08 Feb 2018	Wave Period (sec)	13
I30	08 Feb 2018	Sea State	Wind ripples
I30	08 Feb 2018	High Tide (ft)	4.36
I30	08 Feb 2018	High Tide Time	334
I30	08 Feb 2018	Low Tide (ft)	0.9
I30	08 Feb 2018	Low Tide Time	1117
I30	08 Feb 2018	Comments	none
I31	08 Feb 2018	Depth (m)	19
I31	08 Feb 2018	Arrive Time	956
I31	08 Feb 2018	Depart Time	1001
I31	08 Feb 2018	Air Temp (C)	16
I31	08 Feb 2018	Weather	Clear
I31	08 Feb 2018	Visibility (mi)	14
I31	08 Feb 2018	Wind Speed (kts)	2
I31	08 Feb 2018	Wind Dir	SW
I31	08 Feb 2018	Water Color	Bluish-Green
I31	08 Feb 2018	Wave Ht Low (ft)	3
I31	08 Feb 2018	Wave Period (sec)	13
I31	08 Feb 2018	Sea State	Wind ripples
I31	08 Feb 2018	High Tide (ft)	4.36
I31	08 Feb 2018	High Tide Time	334
I31	08 Feb 2018	Low Tide (ft)	0.9
I31	08 Feb 2018	Low Tide Time	1117
I31	08 Feb 2018	Comments	none
I33	08 Feb 2018	Depth (m)	30
I33	08 Feb 2018	Arrive Time	840
I33	08 Feb 2018	Depart Time	848
I33	08 Feb 2018	Air Temp (C)	15
I33	08 Feb 2018	Weather	Haze

Station	Date	Parameter	Value
I33	08 Feb 2018	Visibility (mi)	12
I33	08 Feb 2018	Wind Speed (kts)	5
I33	08 Feb 2018	Wind Dir	W
I33	08 Feb 2018	Water Color	Bluish-Green
I33	08 Feb 2018	Wave Ht Low (ft)	3
I33	08 Feb 2018	Wave Period (sec)	13
I33	08 Feb 2018	Sea State	Wind ripples
I33	08 Feb 2018	High Tide (ft)	4.36
I33	08 Feb 2018	High Tide Time	334
I33	08 Feb 2018	Low Tide (ft)	0.9
I33	08 Feb 2018	Low Tide Time	1117
I33	08 Feb 2018	Comments	none
I34	08 Feb 2018	Depth (m)	20
I34	08 Feb 2018	Arrive Time	828
I34	08 Feb 2018	Depart Time	832
I34	08 Feb 2018	Air Temp (C)	15
I34	08 Feb 2018	Weather	Haze
I34	08 Feb 2018	Visibility (mi)	12
I34	08 Feb 2018	Wind Speed (kts)	5
I34	08 Feb 2018	Wind Dir	NW
I34	08 Feb 2018	Water Color	Bluish-Green
I34	08 Feb 2018	Wave Ht Low (ft)	3
I34	08 Feb 2018	Wave Period (sec)	13
I34	08 Feb 2018	Sea State	Wind ripples
I34	08 Feb 2018	High Tide (ft)	4.36
I34	08 Feb 2018	High Tide Time	334
I34	08 Feb 2018	Low Tide (ft)	0.9
I34	08 Feb 2018	Low Tide Time	1117
I34	08 Feb 2018	Comments	none
I35	08 Feb 2018	Depth (m)	20
I35	08 Feb 2018	Arrive Time	1037
I35	08 Feb 2018	Depart Time	1041
I35	08 Feb 2018	Air Temp (C)	17
I35	08 Feb 2018	Weather	Clear
I35	08 Feb 2018	Visibility (mi)	14
I35	08 Feb 2018	Wind Speed (kts)	4
I35	08 Feb 2018	Wind Dir	SW
I35	08 Feb 2018	Water Color	Bluish-Green
I35	08 Feb 2018	Wave Ht Low (ft)	3
I35	08 Feb 2018	Wave Period (sec)	13
I35	08 Feb 2018	Sea State	Wind ripples
I35	08 Feb 2018	High Tide (ft)	4.36
I35	08 Feb 2018	High Tide Time	334
I35	08 Feb 2018	Low Tide (ft)	0.9
I35	08 Feb 2018	Low Tide Time	1117
I35	08 Feb 2018	Comments	none
I36	08 Feb 2018	Depth (m)	11
I36	08 Feb 2018	Arrive Time	1021
I36	08 Feb 2018	Depart Time	1028
I36	08 Feb 2018	Air Temp (C)	17
I36	08 Feb 2018	Weather	Clear
I36	08 Feb 2018	Visibility (mi)	14

Station	Date	Parameter	Value
I36	08 Feb 2018	Wind Speed (kts)	3
I36	08 Feb 2018	Wind Dir	SW
I36	08 Feb 2018	Water Color	Bluish-Green
I36	08 Feb 2018	Wave Ht Low (ft)	3
I36	08 Feb 2018	Wave Period (sec)	13
I36	08 Feb 2018	Sea State	Wind ripples
I36	08 Feb 2018	High Tide (ft)	4.36
I36	08 Feb 2018	High Tide Time	334
I36	08 Feb 2018	Low Tide (ft)	0.9
I36	08 Feb 2018	Low Tide Time	1117
I36	08 Feb 2018	Comments	none
I37	08 Feb 2018	Depth (m)	13
I37	08 Feb 2018	Arrive Time	812
I37	08 Feb 2018	Depart Time	820
I37	08 Feb 2018	Air Temp (C)	15
I37	08 Feb 2018	Weather	Haze
I37	08 Feb 2018	Visibility (mi)	12
I37	08 Feb 2018	Wind Speed (kts)	4
I37	08 Feb 2018	Wind Dir	NW
I37	08 Feb 2018	Water Color	Bluish-Green
I37	08 Feb 2018	Wave Ht Low (ft)	3
I37	08 Feb 2018	Wave Period (sec)	13
I37	08 Feb 2018	Sea State	Wind ripples
I37	08 Feb 2018	High Tide (ft)	4.36
I37	08 Feb 2018	High Tide Time	334
I37	08 Feb 2018	Low Tide (ft)	0.9
I37	08 Feb 2018	Low Tide Time	1117
I37	08 Feb 2018	Comments	Approx 100 cormorants on station
I38	08 Feb 2018	Depth (m)	12
I38	08 Feb 2018	Arrive Time	1055
I38	08 Feb 2018	Depart Time	1108
I38	08 Feb 2018	Air Temp (C)	19
I38	08 Feb 2018	Weather	Clear
I38	08 Feb 2018	Visibility (mi)	14
I38	08 Feb 2018	Wind Speed (kts)	3
I38	08 Feb 2018	Wind Dir	SW
I38	08 Feb 2018	Water Color	Bluish-Green
I38	08 Feb 2018	Wave Ht Low (ft)	3
I38	08 Feb 2018	Wave Period (sec)	13
I38	08 Feb 2018	Sea State	Wind ripples
I38	08 Feb 2018	High Tide (ft)	4.36
I38	08 Feb 2018	High Tide Time	334
I38	08 Feb 2018	Low Tide (ft)	0.9
I38	08 Feb 2018	Low Tide Time	1117
I38	08 Feb 2018	Comments	none

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	06 Feb 2018	1	16.11	85.41	7.9	33.52	8.1	24.6	0.36
I1	06 Feb 2018	2	16.10	84.55	8.0	33.52	8.1	24.6	0.35
I1	06 Feb 2018	3	16.10	85.38	8.0	33.52	8.1	24.6	0.42
I1	06 Feb 2018	4	16.09	86.09	8.0	33.52	8.1	24.6	0.49
I1	06 Feb 2018	5	16.07	86.19	8.0	33.52	8.1	24.6	0.54
I1	06 Feb 2018	6	16.01	85.78	8.0	33.51	8.1	24.6	0.64
I1	06 Feb 2018	7	15.97	85.63	8.1	33.51	8.1	24.6	0.74
I1	06 Feb 2018	8	15.90	85.62	8.1	33.50	8.1	24.6	0.85
I1	06 Feb 2018	9	15.74	85.34	8.1	33.49	8.1	24.6	1.06
I1	06 Feb 2018	10	15.70	85.02	8.2	33.49	8.1	24.7	1.15
I1	06 Feb 2018	11	15.59	84.75	8.2	33.48	8.1	24.7	1.21
I1	06 Feb 2018	12	15.52	84.61	8.1	33.48	8.1	24.7	1.29
I1	06 Feb 2018	13	15.34	84.08	8.2	33.48	8.1	24.7	1.39
I1	06 Feb 2018	14	15.32	84.02	8.1	33.48	8.1	24.7	1.34
I1	06 Feb 2018	15	15.31	84.38	8.1	33.48	8.1	24.7	1.34
I1	06 Feb 2018	16	15.30	84.36	8.1	33.48	8.1	24.7	1.50
I1	06 Feb 2018	17	15.30	84.33	8.1	33.48	8.1	24.7	1.66
I1	06 Feb 2018	18	15.30	84.38	8.0	33.48	8.1	24.7	1.49
I1	06 Feb 2018	19	15.30	84.46	8.0	33.48	8.1	24.7	1.40
I1	06 Feb 2018	20	15.27	84.46	8.0	33.48	8.1	24.7	1.38
I1	06 Feb 2018	21	15.25	84.08	8.0	33.48	8.1	24.7	1.67
I1	06 Feb 2018	22	15.23	84.48	7.9	33.48	8.1	24.7	2.09
I1	06 Feb 2018	23	15.14	84.52	7.8	33.48	8.1	24.8	2.06
I1	06 Feb 2018	24	14.95	84.55	7.7	33.46	8.1	24.8	2.00
I1	06 Feb 2018	25	14.61	84.29	7.8	33.46	8.1	24.9	1.63
I1	06 Feb 2018	26	14.57	84.19	7.8	33.45	8.1	24.9	2.00
I1	06 Feb 2018	27	14.51	84.30	7.7	33.45	8.1	24.9	2.03
I1	06 Feb 2018	28	14.46	84.06	7.7	33.45	8.1	24.9	1.90
I1	06 Feb 2018	29	14.44	84.00	7.5	33.45	8.1	24.9	2.51
I1	06 Feb 2018	30	14.24	84.27	7.4	33.45	8.1	24.9	3.39
I1	06 Feb 2018	31	14.09	84.13	7.4	33.45	8.1	25.0	2.46
I1	06 Feb 2018	32	14.06	84.07	7.3	33.45	8.1	25.0	2.72
I1	06 Feb 2018	33	13.95	84.23	7.2	33.44	8.0	25.0	2.51
I1	06 Feb 2018	34	13.82	84.06	7.2	33.45	8.0	25.0	2.20
I1	06 Feb 2018	35	13.80	84.31	7.1	33.45	8.0	25.0	2.14
I1	06 Feb 2018	36	13.76	84.27	7.0	33.45	8.0	25.0	2.05
I1	06 Feb 2018	37	13.70	84.33	7.0	33.45	8.0	25.1	2.50
I1	06 Feb 2018	38	13.65	84.41	7.0	33.45	8.0	25.1	2.45
I1	06 Feb 2018	39	13.61	84.35	6.9	33.45	8.0	25.1	2.02
I1	06 Feb 2018	40	13.59	84.66	6.9	33.45	8.0	25.1	1.88
I1	06 Feb 2018	41	13.59	84.58	6.9	33.45	8.0	25.1	1.97
I1	06 Feb 2018	42	13.57	84.51	6.9	33.45	8.0	25.1	1.88
I1	06 Feb 2018	43	13.52	84.49	6.8	33.45	8.0	25.1	2.12
I1	06 Feb 2018	44	13.47	84.60	6.8	33.45	8.0	25.1	1.88
I1	06 Feb 2018	45	13.46	84.60	6.8	33.46	8.0	25.1	1.72
I1	06 Feb 2018	46	13.45	84.88	6.8	33.45	8.0	25.1	1.58
I1	06 Feb 2018	47	13.43	84.59	6.7	33.46	8.0	25.1	1.38
I1	06 Feb 2018	48	13.41	84.45	6.6	33.46	8.0	25.1	1.24
I1	06 Feb 2018	49	13.32	84.68	6.5	33.46	8.0	25.1	1.11
I1	06 Feb 2018	50	13.28	84.71	6.4	33.46	8.0	25.1	1.14
I1	06 Feb 2018	51	13.09	84.68	6.4	33.46	8.0	25.2	1.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	06 Feb 2018	52	13.03	84.70	6.3	33.46	8.0	25.2	1.11
I1	06 Feb 2018	53	12.95	84.93	6.3	33.46	8.0	25.2	1.22
I1	06 Feb 2018	54	12.92	84.65	6.2	33.46	8.0	25.2	1.09
I1	06 Feb 2018	55	12.87	85.03	6.1	33.47	8.0	25.2	1.06
I1	06 Feb 2018	56	12.79	84.50	6.1	33.47	8.0	25.3	1.21
I1	06 Feb 2018	57	12.78	83.31	6.1	33.48	8.0	25.3	1.05
I1	06 Feb 2018	58	12.77	81.47	6.1	33.48	8.0	25.3	1.06
I1	06 Feb 2018	59	12.77	81.13	6.1	33.48	7.9	25.3	1.01
I1	06 Feb 2018	60	12.77	80.95	6.1	33.48	7.9	25.3	1.08
I2	06 Feb 2018	1	15.78	85.08	8.2	33.48	8.1	24.6	0.40
I2	06 Feb 2018	2	15.76	85.01	8.3	33.48	8.1	24.6	0.44
I2	06 Feb 2018	3	15.75	85.15	8.2	33.48	8.1	24.6	0.45
I2	06 Feb 2018	4	15.72	85.15	8.2	33.48	8.1	24.6	0.47
I2	06 Feb 2018	5	15.73	85.15	8.2	33.48	8.1	24.6	0.52
I2	06 Feb 2018	6	15.72	85.09	8.3	33.48	8.1	24.6	0.54
I2	06 Feb 2018	7	15.63	84.91	8.3	33.48	8.1	24.7	0.60
I2	06 Feb 2018	8	15.60	84.68	8.3	33.48	8.1	24.7	0.67
I2	06 Feb 2018	9	15.57	84.41	8.4	33.48	8.1	24.7	0.68
I2	06 Feb 2018	10	15.51	84.18	8.4	33.47	8.1	24.7	0.69
I2	06 Feb 2018	11	15.48	84.36	8.4	33.47	8.1	24.7	0.84
I2	06 Feb 2018	12	15.44	84.14	8.4	33.47	8.1	24.7	1.16
I2	06 Feb 2018	13	15.35	84.00	8.2	33.47	8.1	24.7	1.60
I2	06 Feb 2018	14	15.23	83.47	8.1	33.46	8.1	24.7	2.41
I2	06 Feb 2018	15	14.97	83.46	8.0	33.45	8.1	24.8	2.93
I2	06 Feb 2018	16	14.67	83.34	7.9	33.44	8.1	24.8	2.93
I2	06 Feb 2018	17	14.43	82.54	7.9	33.44	8.1	24.9	2.83
I2	06 Feb 2018	18	14.42	82.61	7.9	33.44	8.1	24.9	3.05
I2	06 Feb 2018	19	14.40	82.71	7.8	33.44	8.1	24.9	3.31
I2	06 Feb 2018	20	14.35	82.25	7.6	33.45	8.1	24.9	3.80
I2	06 Feb 2018	21	14.17	82.16	7.6	33.45	8.1	25.0	3.91
I2	06 Feb 2018	22	14.10	81.43	7.5	33.46	8.1	25.0	4.21
I2	06 Feb 2018	23	14.09	81.04	7.5	33.46	8.1	25.0	3.98
I2	06 Feb 2018	24	14.08	80.97	7.5	33.46	8.1	25.0	4.44
I2	06 Feb 2018	25	14.08	80.63	7.5	33.46	8.1	25.0	4.44
I2	06 Feb 2018	26	14.08	81.28	7.5	33.46	8.1	25.0	4.19
I2	06 Feb 2018	27	14.07	81.27	7.5	33.46	8.1	25.0	3.44
I2	06 Feb 2018	28	14.07	81.26	7.5	33.46	8.1	25.0	4.23
I2	06 Feb 2018	29	14.07	80.62	7.5	33.46	8.1	25.0	5.14
I2	06 Feb 2018	30	14.07	80.56	7.5	33.46	8.1	25.0	4.81
I2	06 Feb 2018	31	14.07	80.53	7.5	33.46	8.1	25.0	4.53
I2	06 Feb 2018	32	14.07	80.59	7.5	33.46	8.1	25.0	4.94
I3	06 Feb 2018	1	15.60	81.71	8.3	33.45	8.1	24.6	1.04
I3	06 Feb 2018	2	15.60	82.10	8.4	33.47	8.1	24.7	1.06
I3	06 Feb 2018	3	15.54	81.88	8.4	33.47	8.2	24.7	1.17
I3	06 Feb 2018	4	15.53	81.69	8.5	33.48	8.2	24.7	1.27
I3	06 Feb 2018	5	15.53	81.77	8.5	33.48	8.2	24.7	1.47
I3	06 Feb 2018	6	15.53	81.70	8.5	33.48	8.2	24.7	1.48
I3	06 Feb 2018	7	15.52	81.94	8.5	33.48	8.2	24.7	1.69
I3	06 Feb 2018	8	15.52	81.67	8.5	33.48	8.2	24.7	1.59
I3	06 Feb 2018	9	15.52	81.73	8.5	33.48	8.2	24.7	1.59
I3	06 Feb 2018	10	15.52	81.89	8.5	33.48	8.2	24.7	1.68
I3	06 Feb 2018	11	15.51	81.75	8.5	33.48	8.2	24.7	1.57
I3	06 Feb 2018	12	15.49	81.99	8.5	33.48	8.2	24.7	1.68

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I3	06 Feb 2018	13	15.47	82.24	8.5	33.48	8.2	24.7	1.66
I3	06 Feb 2018	14	15.43	82.35	8.4	33.48	8.2	24.7	1.44
I3	06 Feb 2018	15	15.40	82.87	8.5	33.48	8.1	24.7	1.56
I3	06 Feb 2018	16	15.38	82.87	8.5	33.48	8.1	24.7	1.54
I3	06 Feb 2018	17	15.34	83.05	8.5	33.48	8.1	24.7	1.56
I3	06 Feb 2018	18	15.30	82.77	8.5	33.48	8.2	24.7	1.52
I3	06 Feb 2018	19	15.26	82.68	8.5	33.48	8.2	24.7	1.64
I3	06 Feb 2018	20	15.21	82.58	8.5	33.48	8.2	24.8	1.54
I3	06 Feb 2018	21	15.17	82.80	8.4	33.48	8.1	24.8	1.66
I3	06 Feb 2018	22	15.11	82.63	8.2	33.48	8.1	24.8	2.62
I3	06 Feb 2018	23	14.87	83.17	8.0	33.47	8.1	24.8	2.29
I3	06 Feb 2018	24	14.53	82.17	7.8	33.47	8.1	24.9	2.24
I3	06 Feb 2018	25	14.43	82.93	7.7	33.47	8.1	24.9	2.46
I3	06 Feb 2018	26	14.39	83.14	7.7	33.47	8.1	24.9	2.67
I3	06 Feb 2018	27	14.38	82.59	7.8	33.47	8.1	24.9	2.40
I4	06 Feb 2018	1	15.80	84.90	8.2	33.49	8.1	24.6	0.38
I4	06 Feb 2018	2	15.77	85.40	8.2	33.49	8.1	24.6	0.41
I4	06 Feb 2018	3	15.73	85.77	8.1	33.49	8.1	24.6	0.45
I4	06 Feb 2018	4	15.72	85.57	8.2	33.49	8.1	24.6	0.49
I4	06 Feb 2018	5	15.72	85.44	8.2	33.49	8.1	24.6	0.50
I4	06 Feb 2018	6	15.71	85.41	8.2	33.49	8.1	24.7	0.61
I4	06 Feb 2018	7	15.70	85.22	8.1	33.49	8.1	24.7	0.68
I4	06 Feb 2018	8	15.65	85.22	8.2	33.48	8.1	24.7	0.97
I4	06 Feb 2018	9	15.34	84.95	8.1	33.47	8.1	24.7	1.23
I4	06 Feb 2018	10	15.16	84.54	8.1	33.46	8.1	24.7	1.32
I4	06 Feb 2018	11	14.91	83.86	8.2	33.45	8.1	24.8	1.65
I4	06 Feb 2018	12	14.81	83.10	8.1	33.46	8.1	24.8	1.70
I4	06 Feb 2018	13	14.83	82.60	8.1	33.44	8.1	24.8	1.88
I4	06 Feb 2018	14	14.63	82.67	8.1	33.46	8.1	24.9	2.12
I4	06 Feb 2018	15	14.61	82.23	8.1	33.46	8.1	24.9	2.80
I4	06 Feb 2018	16	14.59	81.85	8.1	33.46	8.1	24.9	3.45
I4	06 Feb 2018	17	14.56	81.64	8.1	33.46	8.1	24.9	4.50
I4	06 Feb 2018	18	14.54	80.05	8.0	33.47	8.1	24.9	4.85
I5	06 Feb 2018	1	15.83	80.01	7.0	33.30	8.1	24.5	0.67
I5	06 Feb 2018	2	15.74	85.04	7.4	33.48	8.1	24.6	0.69
I5	06 Feb 2018	3	15.70	84.99	7.3	33.51	8.1	24.7	0.68
I5	06 Feb 2018	4	15.67	84.77	7.3	33.51	8.2	24.7	0.68
I5	06 Feb 2018	5	15.58	84.27	7.7	33.52	8.2	24.7	0.67
I5	06 Feb 2018	6	15.45	82.76	7.7	33.58	8.2	24.8	0.68
I5	06 Feb 2018	7	15.30	80.77	8.1	33.58	8.2	24.8	0.63
I5	06 Feb 2018	8	15.16	80.14	8.2	33.58	8.2	24.8	0.61
I5	06 Feb 2018	9	15.05	81.17	8.3	33.55	8.2	24.8	0.62
I5	06 Feb 2018	10	15.01	80.75	8.4	33.52	8.2	24.8	0.65
I5	06 Feb 2018	11	14.97	79.81	8.0	33.52	8.2	24.8	0.63
I5	06 Feb 2018	12	14.85	78.04	7.9	33.56	8.2	24.9	0.63
I5	06 Feb 2018	13	14.73	73.77	7.5	33.61	8.1	25.0	0.64
I5	06 Feb 2018	14	14.67	61.34	7.3	33.72	8.1	25.1	0.63
I6	06 Feb 2018	1	15.79	85.35	8.2	33.49	8.1	24.6	0.34
I6	06 Feb 2018	2	15.71	85.15	8.2	33.49	8.2	24.6	0.35
I6	06 Feb 2018	3	15.67	85.13	8.2	33.49	8.2	24.7	0.38
I6	06 Feb 2018	4	15.66	85.02	8.3	33.49	8.2	24.7	0.46
I6	06 Feb 2018	5	15.64	84.90	8.3	33.48	8.2	24.7	0.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
16	06 Feb 2018	6	15.59	84.57	8.4	33.48	8.2	24.7	0.69
16	06 Feb 2018	7	15.52	84.03	8.5	33.48	8.2	24.7	0.79
16	06 Feb 2018	8	15.49	83.71	8.5	33.48	8.2	24.7	0.85
16	06 Feb 2018	9	15.43	83.06	8.5	33.48	8.2	24.7	0.90
16	06 Feb 2018	10	15.41	82.33	8.5	33.48	8.2	24.7	0.88
16	06 Feb 2018	11	15.35	82.82	8.5	33.48	8.2	24.7	1.05
16	06 Feb 2018	12	15.31	83.21	8.5	33.48	8.2	24.7	1.14
16	06 Feb 2018	13	15.28	83.22	8.4	33.48	8.2	24.7	1.13
16	06 Feb 2018	14	15.22	83.06	8.3	33.47	8.2	24.7	1.41
16	06 Feb 2018	15	15.01	82.78	8.2	33.47	8.2	24.8	1.35
16	06 Feb 2018	16	14.94	83.46	8.2	33.47	8.1	24.8	1.27
16	06 Feb 2018	17	14.87	84.11	8.2	33.46	8.1	24.8	1.49
16	06 Feb 2018	18	14.85	84.09	8.1	33.46	8.1	24.8	1.74
16	06 Feb 2018	19	14.81	83.95	8.0	33.46	8.1	24.8	2.59
16	06 Feb 2018	20	14.73	84.51	7.9	33.45	8.1	24.8	3.88
16	06 Feb 2018	21	14.49	83.89	7.9	33.45	8.1	24.9	4.23
16	06 Feb 2018	22	14.42	81.91	7.9	33.47	8.1	24.9	5.08
16	06 Feb 2018	23	14.41	79.37	7.9	33.47	8.1	24.9	5.91
16	06 Feb 2018	24	14.41	77.30	7.9	33.47	8.1	24.9	5.60
16	06 Feb 2018	25	14.41	77.54	7.9	33.47	8.1	24.9	4.99
16	06 Feb 2018	26	14.41	76.79	7.9	33.47	8.1	24.9	5.13
17	06 Feb 2018	1	15.51	84.38	8.3	33.48	8.1	24.7	1.21
17	06 Feb 2018	2	15.51	84.32	8.3	33.48	8.1	24.7	1.13
17	06 Feb 2018	3	15.51	84.21	8.4	33.48	8.1	24.7	1.21
17	06 Feb 2018	4	15.50	84.24	8.3	33.48	8.1	24.7	1.09
17	06 Feb 2018	5	15.49	84.15	8.3	33.48	8.1	24.7	1.20
17	06 Feb 2018	6	15.50	84.47	8.3	33.48	8.1	24.7	1.31
17	06 Feb 2018	7	15.49	84.18	8.3	33.48	8.1	24.7	1.48
17	06 Feb 2018	8	15.46	84.52	8.4	33.48	8.1	24.7	1.71
17	06 Feb 2018	9	15.37	83.70	8.4	33.47	8.1	24.7	1.95
17	06 Feb 2018	10	15.32	83.59	8.4	33.47	8.1	24.7	1.88
17	06 Feb 2018	11	15.28	83.31	8.4	33.47	8.1	24.7	2.12
17	06 Feb 2018	12	15.23	83.19	8.4	33.47	8.1	24.7	2.05
17	06 Feb 2018	13	15.22	82.72	8.4	33.47	8.1	24.7	2.24
17	06 Feb 2018	14	15.21	82.95	8.3	33.47	8.1	24.7	2.01
17	06 Feb 2018	15	15.20	82.88	8.3	33.47	8.1	24.7	2.81
17	06 Feb 2018	16	15.15	83.14	8.2	33.47	8.1	24.8	3.56
17	06 Feb 2018	17	15.02	82.82	8.1	33.46	8.1	24.8	4.20
17	06 Feb 2018	18	14.80	82.23	7.9	33.45	8.1	24.8	4.41
17	06 Feb 2018	19	14.52	81.04	7.9	33.46	8.1	24.9	4.73
17	06 Feb 2018	20	14.49	82.15	7.8	33.45	8.0	24.9	3.47
17	06 Feb 2018	21	14.39	82.53	7.8	33.46	8.0	24.9	3.60
17	06 Feb 2018	22	14.35	82.52	7.8	33.46	8.0	24.9	3.44
17	06 Feb 2018	23	14.32	82.82	7.7	33.46	8.0	24.9	3.30
17	06 Feb 2018	24	14.25	82.95	7.6	33.45	8.0	24.9	3.67
17	06 Feb 2018	25	14.15	83.25	7.5	33.46	8.0	25.0	3.07
17	06 Feb 2018	26	14.11	82.84	7.4	33.46	8.0	25.0	2.48
17	06 Feb 2018	27	14.02	83.76	7.3	33.46	8.0	25.0	2.30
17	06 Feb 2018	28	13.95	83.73	7.2	33.46	8.0	25.0	2.27
17	06 Feb 2018	29	13.86	83.81	7.1	33.45	8.0	25.0	1.89
17	06 Feb 2018	30	13.79	84.32	6.9	33.46	8.0	25.0	1.85
17	06 Feb 2018	31	13.66	84.47	6.9	33.45	8.0	25.1	1.73
17	06 Feb 2018	32	13.59	84.43	6.8	33.46	8.0	25.1	1.93
17	06 Feb 2018	33	13.54	84.78	6.8	33.46	8.0	25.1	1.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
17	06 Feb 2018	34	13.50	85.08	6.8	33.46	8.0	25.1	1.48
17	06 Feb 2018	35	13.46	84.82	6.7	33.46	8.0	25.1	1.29
17	06 Feb 2018	36	13.39	85.13	6.6	33.46	8.0	25.1	1.38
17	06 Feb 2018	37	13.34	85.21	6.5	33.46	8.0	25.1	1.26
17	06 Feb 2018	38	13.28	85.02	6.4	33.46	8.0	25.1	1.28
17	06 Feb 2018	39	13.18	85.25	6.3	33.46	8.0	25.2	1.12
17	06 Feb 2018	40	12.99	85.72	6.3	33.45	7.9	25.2	1.01
17	06 Feb 2018	41	12.93	85.90	6.2	33.45	7.9	25.2	0.95
17	06 Feb 2018	42	12.86	85.86	6.1	33.45	7.9	25.2	0.92
17	06 Feb 2018	43	12.69	86.06	6.1	33.45	7.9	25.3	1.00
17	06 Feb 2018	44	12.62	86.29	6.1	33.46	7.9	25.3	0.80
17	06 Feb 2018	45	12.60	86.25	6.0	33.46	7.9	25.3	0.70
17	06 Feb 2018	46	12.60	86.18	6.0	33.46	7.9	25.3	0.71
17	06 Feb 2018	47	12.59	86.11	6.0	33.46	7.9	25.3	0.72
17	06 Feb 2018	48	12.58	86.09	6.0	33.47	7.9	25.3	0.67
17	06 Feb 2018	49	12.57	85.71	6.0	33.47	7.9	25.3	0.69
17	06 Feb 2018	50	12.56	85.39	6.0	33.47	7.9	25.3	0.76
17	06 Feb 2018	51	12.56	84.92	6.0	33.47	7.9	25.3	0.69
17	06 Feb 2018	52	12.56	83.84	6.0	33.47	7.9	25.3	0.70
18	06 Feb 2018	1	15.77	84.14	8.4	33.48	8.2	24.6	0.62
18	06 Feb 2018	2	15.73	83.87	8.4	33.48	8.2	24.6	0.67
18	06 Feb 2018	3	15.62	83.89	8.5	33.48	8.2	24.7	0.73
18	06 Feb 2018	4	15.55	83.29	8.5	33.48	8.2	24.7	0.73
18	06 Feb 2018	5	15.52	83.17	8.5	33.48	8.2	24.7	0.86
18	06 Feb 2018	6	15.51	83.28	8.4	33.48	8.2	24.7	0.96
18	06 Feb 2018	7	15.49	83.34	8.4	33.48	8.2	24.7	1.00
18	06 Feb 2018	8	15.48	83.34	8.5	33.48	8.2	24.7	1.07
18	06 Feb 2018	9	15.39	83.08	8.5	33.48	8.2	24.7	1.12
18	06 Feb 2018	10	15.35	82.91	8.3	33.48	8.2	24.7	1.17
18	06 Feb 2018	11	15.33	82.80	8.1	33.48	8.2	24.7	1.30
18	06 Feb 2018	12	15.08	82.73	8.0	33.45	8.2	24.8	1.44
18	06 Feb 2018	13	14.80	83.46	7.8	33.44	8.1	24.8	1.58
18	06 Feb 2018	14	14.43	84.01	7.8	33.43	8.1	24.9	2.17
18	06 Feb 2018	15	14.36	84.20	7.7	33.43	8.1	24.9	2.32
18	06 Feb 2018	16	14.31	84.21	7.6	33.42	8.1	24.9	2.75
18	06 Feb 2018	17	14.26	83.88	7.5	33.43	8.1	24.9	2.76
18	06 Feb 2018	18	14.14	83.50	7.5	33.43	8.1	24.9	2.64
18	06 Feb 2018	19	14.10	83.56	7.5	33.44	8.1	25.0	3.32
18	06 Feb 2018	20	14.10	83.21	7.4	33.44	8.1	25.0	3.27
18	06 Feb 2018	21	14.08	82.86	7.4	33.44	8.1	25.0	2.71
18	06 Feb 2018	22	14.08	83.23	7.4	33.44	8.1	25.0	2.96
18	06 Feb 2018	23	14.05	83.33	7.4	33.45	8.1	25.0	3.18
18	06 Feb 2018	24	14.02	82.84	7.3	33.45	8.1	25.0	2.91
18	06 Feb 2018	25	14.01	83.44	7.3	33.45	8.1	25.0	2.96
18	06 Feb 2018	26	13.98	83.47	7.3	33.44	8.1	25.0	3.07
18	06 Feb 2018	27	13.96	83.56	7.2	33.44	8.1	25.0	2.97
18	06 Feb 2018	28	13.93	83.84	7.2	33.44	8.1	25.0	3.40
18	06 Feb 2018	29	13.92	84.20	7.2	33.44	8.1	25.0	2.92
18	06 Feb 2018	30	13.89	83.90	7.2	33.45	8.1	25.0	2.54
18	06 Feb 2018	31	13.89	83.33	7.2	33.45	8.1	25.0	2.14
18	06 Feb 2018	32	13.89	83.24	7.2	33.45	8.1	25.0	2.00
18	06 Feb 2018	33	13.89	82.79	7.2	33.45	8.1	25.0	2.53
18	06 Feb 2018	34	13.89	83.01	7.2	33.45	8.1	25.0	2.43
18	06 Feb 2018	35	13.89	83.01	7.2	33.45	8.1	25.0	2.93

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I8	06 Feb 2018	36	13.89	83.20	7.2	33.45	8.1	25.0	3.07
I9	06 Feb 2018	1	15.86	82.92	8.5	33.48	8.2	24.6	0.75
I9	06 Feb 2018	2	15.72	82.72	8.5	33.48	8.2	24.6	0.89
I9	06 Feb 2018	3	15.64	82.82	8.5	33.48	8.2	24.7	0.91
I9	06 Feb 2018	4	15.61	82.31	8.5	33.48	8.2	24.7	0.92
I9	06 Feb 2018	5	15.58	82.17	8.4	33.48	8.2	24.7	0.91
I9	06 Feb 2018	6	15.54	82.70	8.4	33.48	8.2	24.7	0.87
I9	06 Feb 2018	7	15.50	82.72	8.4	33.48	8.2	24.7	0.94
I9	06 Feb 2018	8	15.47	83.00	8.4	33.48	8.2	24.7	0.98
I9	06 Feb 2018	9	15.47	83.48	8.4	33.48	8.2	24.7	0.97
I9	06 Feb 2018	10	15.46	83.45	8.4	33.48	8.2	24.7	0.99
I9	06 Feb 2018	11	15.44	83.39	8.4	33.48	8.2	24.7	1.04
I9	06 Feb 2018	12	15.39	83.39	8.4	33.48	8.2	24.7	1.08
I9	06 Feb 2018	13	15.37	82.99	8.4	33.48	8.2	24.7	1.22
I9	06 Feb 2018	14	15.36	82.88	8.4	33.48	8.2	24.7	1.24
I9	06 Feb 2018	15	15.36	83.26	8.4	33.48	8.2	24.7	1.27
I9	06 Feb 2018	16	15.36	83.05	8.4	33.48	8.2	24.7	1.18
I9	06 Feb 2018	17	15.35	83.00	8.4	33.48	8.2	24.7	1.26
I9	06 Feb 2018	18	15.34	83.30	8.4	33.48	8.2	24.7	1.33
I9	06 Feb 2018	19	15.31	83.32	8.4	33.48	8.2	24.7	1.52
I9	06 Feb 2018	20	15.20	82.97	8.3	33.47	8.2	24.8	1.69
I9	06 Feb 2018	21	15.14	82.96	8.3	33.48	8.2	24.8	1.89
I9	06 Feb 2018	22	15.08	82.89	8.2	33.47	8.2	24.8	1.80
I9	06 Feb 2018	23	15.02	83.47	8.0	33.47	8.2	24.8	2.29
I9	06 Feb 2018	24	14.91	83.81	7.9	33.46	8.1	24.8	3.38
I9	06 Feb 2018	25	14.76	83.62	7.9	33.45	8.1	24.8	4.03
I9	06 Feb 2018	26	14.56	83.20	7.9	33.45	8.1	24.9	5.82
I9	06 Feb 2018	27	14.43	80.23	7.9	33.46	8.1	24.9	5.73
I9	06 Feb 2018	28	14.41	77.68	7.9	33.46	8.1	24.9	5.59
I9	06 Feb 2018	29	14.41	76.89	7.9	33.46	8.1	24.9	5.13
I10	06 Feb 2018	1	15.94	84.54	8.2	33.49	8.2	24.6	0.32
I10	06 Feb 2018	2	15.87	84.35	8.3	33.48	8.2	24.6	0.38
I10	06 Feb 2018	3	15.74	84.61	8.3	33.49	8.2	24.6	0.44
I10	06 Feb 2018	4	15.73	84.36	8.3	33.48	8.2	24.6	0.48
I10	06 Feb 2018	5	15.71	84.33	8.3	33.48	8.2	24.6	0.52
I10	06 Feb 2018	6	15.70	84.32	8.3	33.48	8.2	24.6	0.52
I10	06 Feb 2018	7	15.70	84.59	8.2	33.48	8.2	24.6	0.54
I10	06 Feb 2018	8	15.70	84.63	8.2	33.49	8.2	24.7	0.58
I10	06 Feb 2018	9	15.69	84.52	8.2	33.49	8.2	24.7	0.73
I10	06 Feb 2018	10	15.68	84.65	8.2	33.49	8.2	24.7	0.80
I10	06 Feb 2018	11	15.67	84.44	8.3	33.48	8.2	24.7	0.85
I10	06 Feb 2018	12	15.66	84.29	8.3	33.48	8.2	24.7	0.87
I10	06 Feb 2018	13	15.64	84.10	8.2	33.48	8.2	24.7	0.84
I10	06 Feb 2018	14	15.50	83.92	8.2	33.48	8.2	24.7	1.14
I10	06 Feb 2018	15	15.32	84.47	8.3	33.47	8.2	24.7	1.58
I10	06 Feb 2018	16	15.08	83.92	8.5	33.46	8.2	24.8	1.98
I10	06 Feb 2018	17	14.85	80.48	8.5	33.46	8.2	24.8	2.27
I10	06 Feb 2018	18	14.80	78.26	8.4	33.46	8.2	24.8	2.39
I10	06 Feb 2018	19	14.76	77.43	8.4	33.46	8.2	24.8	2.33
I11	06 Feb 2018	1	15.91	84.44	8.2	33.49	8.2	24.6	0.35
I11	06 Feb 2018	2	15.79	84.29	8.3	33.49	8.2	24.6	0.44
I11	06 Feb 2018	3	15.67	84.06	8.3	33.49	8.2	24.7	0.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I11	06 Feb 2018	4	15.65	83.93	8.3	33.49	8.2	24.7	0.47
I11	06 Feb 2018	5	15.64	84.10	8.4	33.49	8.2	24.7	0.54
I11	06 Feb 2018	6	15.55	83.22	8.6	33.48	8.2	24.7	0.63
I11	06 Feb 2018	7	15.49	82.11	8.7	33.48	8.2	24.7	0.68
I11	06 Feb 2018	8	15.36	82.14	8.8	33.48	8.2	24.7	0.82
I11	06 Feb 2018	9	15.31	81.28	8.8	33.47	8.2	24.7	0.99
I11	06 Feb 2018	10	15.24	81.11	8.8	33.47	8.2	24.7	1.11
I11	06 Feb 2018	11	15.15	79.74	8.7	33.47	8.2	24.8	1.20
I11	06 Feb 2018	12	15.03	78.36	8.6	33.47	8.2	24.8	1.19
I11	06 Feb 2018	13	14.97	77.88	8.5	33.46	8.2	24.8	1.02
I12	07 Feb 2018	1	15.38	81.15	8.3	33.39	8.1	24.6	0.69
I12	07 Feb 2018	2	15.38	81.11	8.3	33.39	8.1	24.6	0.64
I12	07 Feb 2018	3	15.38	81.08	8.4	33.39	8.1	24.6	0.60
I12	07 Feb 2018	4	15.42	81.12	8.4	33.40	8.1	24.6	0.56
I12	07 Feb 2018	5	15.46	81.31	8.4	33.42	8.1	24.7	0.62
I12	07 Feb 2018	6	15.45	81.45	8.4	33.42	8.1	24.7	0.69
I12	07 Feb 2018	7	15.41	81.26	8.4	33.41	8.1	24.7	0.66
I12	07 Feb 2018	8	15.46	81.30	8.3	33.41	8.1	24.6	0.73
I12	07 Feb 2018	9	15.44	81.20	8.4	33.42	8.1	24.7	0.82
I12	07 Feb 2018	10	15.49	82.13	8.4	33.43	8.1	24.6	0.93
I12	07 Feb 2018	11	15.57	81.92	8.4	33.48	8.1	24.7	0.93
I12	07 Feb 2018	12	15.54	82.10	8.6	33.48	8.2	24.7	1.00
I12	07 Feb 2018	13	15.52	81.43	8.6	33.48	8.2	24.7	0.95
I12	07 Feb 2018	14	15.49	80.99	8.6	33.48	8.2	24.7	1.12
I12	07 Feb 2018	15	15.47	81.07	8.7	33.48	8.2	24.7	1.40
I12	07 Feb 2018	16	15.46	81.08	8.7	33.48	8.2	24.7	1.54
I12	07 Feb 2018	17	15.46	81.01	8.8	33.48	8.2	24.7	1.56
I12	07 Feb 2018	18	15.46	80.92	8.7	33.48	8.2	24.7	1.60
I12	07 Feb 2018	19	15.45	81.00	8.8	33.48	8.2	24.7	1.64
I12	07 Feb 2018	20	15.45	81.15	8.8	33.48	8.2	24.7	1.60
I12	07 Feb 2018	21	15.44	81.33	8.7	33.48	8.2	24.7	1.57
I12	07 Feb 2018	22	15.28	81.17	8.6	33.49	8.1	24.7	1.51
I12	07 Feb 2018	23	15.10	81.67	8.4	33.47	8.1	24.8	1.52
I12	07 Feb 2018	24	14.75	81.21	8.2	33.49	8.1	24.9	1.69
I12	07 Feb 2018	25	14.53	81.07	8.0	33.47	8.1	24.9	2.22
I12	07 Feb 2018	26	14.50	79.87	7.9	33.46	8.1	24.9	2.91
I12	07 Feb 2018	27	14.49	78.08	7.9	33.46	8.1	24.9	3.59
I12	07 Feb 2018	28	14.49	76.22	7.8	33.46	8.1	24.9	3.78
I13	07 Feb 2018	1	15.84	82.01	8.2	33.48	8.1	24.6	0.25
I13	07 Feb 2018	2	15.82	83.15	8.2	33.48	8.1	24.6	0.23
I13	07 Feb 2018	3	15.81	84.41	8.3	33.48	8.1	24.6	0.25
I13	07 Feb 2018	4	15.78	84.52	8.3	33.48	8.1	24.6	0.28
I13	07 Feb 2018	5	15.78	84.73	8.3	33.48	8.1	24.6	0.32
I13	07 Feb 2018	6	15.77	84.72	8.2	33.48	8.1	24.6	0.32
I13	07 Feb 2018	7	15.72	84.32	8.3	33.48	8.1	24.6	0.39
I13	07 Feb 2018	8	15.41	83.05	8.3	33.48	8.1	24.7	0.56
I13	07 Feb 2018	9	15.25	82.70	8.4	33.47	8.1	24.7	0.80
I13	07 Feb 2018	10	15.12	82.96	8.3	33.46	8.1	24.8	0.97
I13	07 Feb 2018	11	15.06	82.67	8.3	33.46	8.1	24.8	1.12
I13	07 Feb 2018	12	15.00	82.68	8.2	33.46	8.1	24.8	1.27
I13	07 Feb 2018	13	14.90	83.01	8.3	33.45	8.1	24.8	1.37
I13	07 Feb 2018	14	14.85	82.96	8.2	33.45	8.1	24.8	1.43
I13	07 Feb 2018	15	14.81	83.38	8.2	33.46	8.1	24.8	1.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I13	07 Feb 2018	16	14.49	83.55	8.1	33.47	8.1	24.9	2.13
I13	07 Feb 2018	17	14.26	80.88	7.9	33.46	8.1	24.9	2.40
I13	07 Feb 2018	18	14.19	81.18	7.7	33.46	8.1	25.0	2.72
I13	07 Feb 2018	19	14.16	81.66	7.6	33.46	8.1	25.0	3.57
I13	07 Feb 2018	20	14.14	81.42	7.6	33.45	8.1	25.0	3.25
I13	07 Feb 2018	21	14.13	81.87	7.6	33.46	8.1	25.0	3.79
I13	07 Feb 2018	22	14.13	81.25	7.5	33.46	8.1	25.0	4.00
I13	07 Feb 2018	23	14.12	81.70	7.5	33.46	8.1	25.0	4.02
I13	07 Feb 2018	24	14.11	81.92	7.5	33.46	8.1	25.0	3.64
I13	07 Feb 2018	25	14.10	82.11	7.4	33.45	8.1	25.0	3.60
I13	07 Feb 2018	26	14.09	82.22	7.4	33.45	8.1	25.0	3.91
I13	07 Feb 2018	27	14.07	81.86	7.4	33.45	8.1	25.0	4.12
I13	07 Feb 2018	28	14.04	82.40	7.4	33.45	8.1	25.0	3.47
I13	07 Feb 2018	29	14.03	82.37	7.4	33.45	8.1	25.0	3.04
I13	07 Feb 2018	30	14.01	82.41	7.3	33.45	8.1	25.0	3.07
I13	07 Feb 2018	31	14.01	82.79	7.3	33.45	8.1	25.0	2.89
I13	07 Feb 2018	32	13.92	82.53	7.2	33.46	8.1	25.0	2.84
I13	07 Feb 2018	33	13.92	81.68	7.2	33.45	8.0	25.0	2.96
I13	07 Feb 2018	34	13.88	81.63	7.1	33.45	8.0	25.0	2.73
I13	07 Feb 2018	35	13.85	81.75	7.1	33.45	8.0	25.0	2.73
I13	07 Feb 2018	36	13.83	81.10	7.0	33.45	8.0	25.0	2.51
I13	07 Feb 2018	37	13.83	80.83	7.0	33.45	8.0	25.0	2.54
I13	07 Feb 2018	38	13.83	80.84	7.0	33.45	8.0	25.0	2.75
I14	07 Feb 2018	1	15.77	82.87	8.3	33.48	8.1	24.6	0.40
I14	07 Feb 2018	2	15.77	83.08	8.3	33.48	8.1	24.6	0.39
I14	07 Feb 2018	3	15.77	82.64	8.3	33.48	8.1	24.6	0.38
I14	07 Feb 2018	4	15.77	83.37	8.4	33.48	8.1	24.6	0.36
I14	07 Feb 2018	5	15.72	83.27	8.3	33.49	8.1	24.6	0.38
I14	07 Feb 2018	6	15.70	83.40	8.4	33.48	8.1	24.6	0.44
I14	07 Feb 2018	7	15.65	82.83	8.4	33.49	8.1	24.7	0.47
I14	07 Feb 2018	8	15.61	82.59	8.5	33.48	8.1	24.7	0.59
I14	07 Feb 2018	9	15.57	82.67	8.4	33.48	8.1	24.7	0.70
I14	07 Feb 2018	10	15.49	82.14	8.5	33.47	8.2	24.7	0.80
I14	07 Feb 2018	11	15.46	81.76	8.5	33.46	8.2	24.7	0.89
I14	07 Feb 2018	12	15.41	81.27	8.6	33.45	8.2	24.7	0.99
I14	07 Feb 2018	13	15.40	81.14	8.6	33.45	8.2	24.7	1.18
I14	07 Feb 2018	14	15.41	81.14	8.6	33.45	8.2	24.7	1.20
I14	07 Feb 2018	15	15.41	81.48	8.6	33.45	8.2	24.7	1.24
I14	07 Feb 2018	16	15.42	81.25	8.6	33.46	8.2	24.7	1.33
I14	07 Feb 2018	17	15.42	81.40	8.6	33.46	8.2	24.7	1.23
I14	07 Feb 2018	18	15.43	81.45	8.6	33.46	8.2	24.7	1.36
I14	07 Feb 2018	19	15.43	81.44	8.6	33.47	8.2	24.7	1.39
I14	07 Feb 2018	20	15.43	81.47	8.5	33.47	8.2	24.7	1.65
I14	07 Feb 2018	21	15.32	81.76	8.5	33.48	8.2	24.7	1.52
I14	07 Feb 2018	22	15.15	81.53	8.4	33.48	8.1	24.8	2.11
I14	07 Feb 2018	23	14.87	81.17	8.3	33.48	8.1	24.8	1.55
I14	07 Feb 2018	24	14.71	80.67	8.2	33.47	8.1	24.9	2.28
I14	07 Feb 2018	25	14.62	79.91	8.1	33.47	8.1	24.9	3.27
I14	07 Feb 2018	26	14.55	78.53	8.0	33.46	8.1	24.9	4.82
I14	07 Feb 2018	27	14.50	77.70	7.9	33.46	8.1	24.9	4.97
I14	07 Feb 2018	28	14.46	76.03	7.8	33.46	8.1	24.9	5.33
I15	07 Feb 2018	1	15.65	83.62	8.3	33.47	8.1	24.6	0.38
I15	07 Feb 2018	2	15.68	83.99	8.3	33.47	8.1	24.6	0.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I15	07 Feb 2018	3	15.69	84.15	8.3	33.47	8.1	24.6	0.43
I15	07 Feb 2018	4	15.71	84.18	8.3	33.48	8.1	24.6	0.40
I15	07 Feb 2018	5	15.71	84.25	8.3	33.48	8.1	24.6	0.37
I15	07 Feb 2018	6	15.69	83.87	8.3	33.48	8.1	24.6	0.39
I15	07 Feb 2018	7	15.55	82.75	8.3	33.46	8.1	24.7	0.42
I15	07 Feb 2018	8	15.55	82.98	8.4	33.45	8.1	24.7	0.53
I15	07 Feb 2018	9	15.54	82.84	8.4	33.45	8.1	24.7	0.69
I15	07 Feb 2018	10	15.52	82.39	8.4	33.45	8.1	24.7	0.71
I15	07 Feb 2018	11	15.50	82.38	8.5	33.45	8.1	24.7	0.79
I15	07 Feb 2018	12	15.50	82.10	8.4	33.45	8.1	24.7	0.95
I15	07 Feb 2018	13	15.52	81.98	8.4	33.45	8.1	24.7	0.97
I15	07 Feb 2018	14	15.52	82.29	8.5	33.45	8.1	24.7	0.99
I15	07 Feb 2018	15	15.52	82.46	8.4	33.45	8.1	24.7	1.04
I15	07 Feb 2018	16	15.49	81.95	8.5	33.45	8.1	24.7	0.93
I15	07 Feb 2018	17	15.46	81.39	8.6	33.45	8.2	24.7	1.11
I15	07 Feb 2018	18	15.49	81.66	8.6	33.47	8.2	24.7	1.23
I15	07 Feb 2018	19	15.50	81.80	8.6	33.48	8.2	24.7	1.29
I15	07 Feb 2018	20	15.50	81.77	8.6	33.48	8.2	24.7	1.24
I15	07 Feb 2018	21	15.47	82.07	8.6	33.48	8.2	24.7	1.25
I15	07 Feb 2018	22	15.36	82.56	8.5	33.48	8.2	24.7	1.28
I15	07 Feb 2018	23	15.08	82.25	8.5	33.49	8.1	24.8	1.32
I15	07 Feb 2018	24	14.84	81.24	8.3	33.48	8.1	24.8	1.65
I15	07 Feb 2018	25	14.64	81.45	8.2	33.47	8.1	24.9	2.33
I15	07 Feb 2018	26	14.56	80.48	8.0	33.47	8.1	24.9	2.45
I15	07 Feb 2018	27	14.43	76.97	7.8	33.46	8.1	24.9	3.02
I15	07 Feb 2018	28	14.41	71.04	7.7	33.46	8.1	24.9	4.47
I15	07 Feb 2018	29	14.41	70.25	7.7	33.46	8.1	24.9	5.48
I15	07 Feb 2018	30	14.41	70.78	7.7	33.46	8.1	24.9	6.04
I15	07 Feb 2018	31	14.41	69.99	7.7	33.46	8.1	24.9	4.68
I16	07 Feb 2018	1	15.70	83.13	8.4	33.48	8.1	24.6	0.33
I16	07 Feb 2018	2	15.69	82.87	8.5	33.48	8.1	24.6	0.37
I16	07 Feb 2018	3	15.68	83.02	8.5	33.48	8.1	24.7	0.36
I16	07 Feb 2018	4	15.68	83.02	8.5	33.48	8.1	24.7	0.37
I16	07 Feb 2018	5	15.67	83.16	8.5	33.48	8.1	24.7	0.37
I16	07 Feb 2018	6	15.62	82.88	8.5	33.48	8.1	24.7	0.42
I16	07 Feb 2018	7	15.61	82.88	8.5	33.48	8.1	24.7	0.50
I16	07 Feb 2018	8	15.60	82.53	8.5	33.48	8.1	24.7	0.56
I16	07 Feb 2018	9	15.58	82.63	8.5	33.48	8.1	24.7	0.66
I16	07 Feb 2018	10	15.50	82.65	8.5	33.47	8.1	24.7	0.77
I16	07 Feb 2018	11	15.45	81.70	8.5	33.46	8.1	24.7	0.87
I16	07 Feb 2018	12	15.39	81.64	8.5	33.46	8.1	24.7	1.13
I16	07 Feb 2018	13	15.37	81.15	8.6	33.45	8.1	24.7	1.09
I16	07 Feb 2018	14	15.38	81.18	8.6	33.46	8.1	24.7	1.28
I16	07 Feb 2018	15	15.41	81.35	8.6	33.47	8.2	24.7	1.37
I16	07 Feb 2018	16	15.42	81.89	8.6	33.47	8.2	24.7	1.39
I16	07 Feb 2018	17	15.36	82.12	8.5	33.48	8.1	24.7	1.30
I16	07 Feb 2018	18	15.21	82.10	8.4	33.48	8.1	24.8	1.32
I16	07 Feb 2018	19	14.93	81.58	8.2	33.48	8.1	24.8	1.85
I16	07 Feb 2018	20	14.70	78.92	8.1	33.46	8.1	24.9	2.76
I16	07 Feb 2018	21	14.65	78.89	7.9	33.47	8.1	24.9	3.79
I16	07 Feb 2018	22	14.51	77.43	7.9	33.46	8.1	24.9	4.71
I16	07 Feb 2018	23	14.49	77.33	7.9	33.46	8.1	24.9	4.30
I16	07 Feb 2018	24	14.48	77.52	7.8	33.46	8.1	24.9	3.69
I16	07 Feb 2018	25	14.46	76.91	7.8	33.46	8.1	24.9	3.88

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I16	07 Feb 2018	26	14.46	76.36	7.8	33.46	8.1	24.9	3.72
I16	07 Feb 2018	27	14.45	76.01	7.8	33.46	8.1	24.9	3.83
I16	07 Feb 2018	28	14.45	74.80	7.8	33.46	8.1	24.9	3.77
I17	07 Feb 2018	1	15.76	82.32	8.3	33.48	8.1	24.6	0.37
I17	07 Feb 2018	2	15.75	82.19	8.3	33.49	8.1	24.6	0.36
I17	07 Feb 2018	3	15.73	82.82	8.4	33.49	8.1	24.6	0.35
I17	07 Feb 2018	4	15.73	83.28	8.4	33.48	8.1	24.6	0.37
I17	07 Feb 2018	5	15.71	83.00	8.4	33.49	8.1	24.6	0.39
I17	07 Feb 2018	6	15.67	83.13	8.4	33.49	8.1	24.7	0.44
I17	07 Feb 2018	7	15.63	82.74	8.4	33.49	8.1	24.7	0.51
I17	07 Feb 2018	8	15.55	82.46	8.5	33.49	8.1	24.7	0.61
I17	07 Feb 2018	9	15.48	81.64	8.6	33.48	8.1	24.7	0.76
I17	07 Feb 2018	10	15.46	81.31	8.6	33.48	8.2	24.7	0.96
I17	07 Feb 2018	11	15.44	81.43	8.6	33.48	8.2	24.7	1.09
I17	07 Feb 2018	12	15.43	81.20	8.6	33.48	8.2	24.7	1.12
I17	07 Feb 2018	13	15.41	81.03	8.6	33.48	8.2	24.7	1.26
I17	07 Feb 2018	14	15.34	81.34	8.7	33.48	8.2	24.7	1.39
I17	07 Feb 2018	15	15.26	80.68	8.6	33.48	8.1	24.7	1.62
I17	07 Feb 2018	16	15.14	80.88	8.5	33.49	8.1	24.8	1.55
I17	07 Feb 2018	17	14.87	80.51	8.3	33.48	8.1	24.8	1.75
I17	07 Feb 2018	18	14.74	79.82	8.2	33.47	8.1	24.9	2.16
I17	07 Feb 2018	19	14.64	78.08	8.1	33.47	8.1	24.9	3.35
I17	07 Feb 2018	20	14.59	77.22	8.0	33.47	8.1	24.9	3.29
I17	07 Feb 2018	21	14.56	76.50	8.0	33.46	8.1	24.9	3.94
I17	07 Feb 2018	22	14.56	75.74	7.9	33.46	8.1	24.9	4.09
I17	07 Feb 2018	23	14.56	75.38	7.9	33.46	8.1	24.9	4.46
I17	07 Feb 2018	24	14.56	75.26	7.9	33.46	8.1	24.9	4.35
I17	07 Feb 2018	25	14.56	75.09	7.9	33.46	8.1	24.9	3.78
I18	07 Feb 2018	1	15.74	84.47	8.3	33.48	8.1	24.6	0.37
I18	07 Feb 2018	2	15.73	84.30	8.3	33.48	8.1	24.6	0.38
I18	07 Feb 2018	3	15.73	84.51	8.3	33.48	8.1	24.6	0.30
I18	07 Feb 2018	4	15.72	84.48	8.3	33.48	8.1	24.6	0.33
I18	07 Feb 2018	5	15.72	84.46	8.4	33.48	8.1	24.6	0.37
I18	07 Feb 2018	6	15.71	84.33	8.3	33.48	8.1	24.6	0.42
I18	07 Feb 2018	7	15.70	84.47	8.3	33.48	8.1	24.6	0.46
I18	07 Feb 2018	8	15.70	84.49	8.3	33.48	8.1	24.6	0.49
I18	07 Feb 2018	9	15.69	84.38	8.3	33.48	8.1	24.7	0.53
I18	07 Feb 2018	10	15.67	84.18	8.3	33.48	8.1	24.7	0.60
I18	07 Feb 2018	11	15.57	83.42	8.4	33.48	8.1	24.7	0.77
I18	07 Feb 2018	12	15.53	82.73	8.4	33.48	8.1	24.7	0.80
I18	07 Feb 2018	13	15.44	82.00	8.5	33.48	8.1	24.7	1.00
I18	07 Feb 2018	14	15.43	81.84	8.5	33.48	8.1	24.7	1.00
I18	07 Feb 2018	15	15.37	82.70	8.5	33.48	8.1	24.7	1.08
I18	07 Feb 2018	16	15.29	83.23	8.4	33.48	8.1	24.7	1.10
I18	07 Feb 2018	17	15.14	82.98	8.3	33.48	8.1	24.8	1.29
I18	07 Feb 2018	18	14.87	83.51	8.2	33.47	8.1	24.8	1.41
I18	07 Feb 2018	19	14.78	79.28	8.1	33.46	8.1	24.8	1.71
I20	07 Feb 2018	1	15.57	83.47	8.3	33.48	8.1	24.7	0.55
I20	07 Feb 2018	2	15.55	83.82	8.4	33.48	8.1	24.7	0.57
I20	07 Feb 2018	3	15.54	84.17	8.4	33.48	8.1	24.7	0.58
I20	07 Feb 2018	4	15.54	84.29	8.4	33.48	8.1	24.7	0.62
I20	07 Feb 2018	5	15.54	84.41	8.3	33.48	8.1	24.7	0.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I20	07 Feb 2018	6	15.54	84.07	8.3	33.48	8.1	24.7	0.65
I20	07 Feb 2018	7	15.53	83.82	8.3	33.48	8.1	24.7	0.74
I20	07 Feb 2018	8	15.53	84.20	8.4	33.48	8.1	24.7	0.72
I20	07 Feb 2018	9	15.53	84.26	8.4	33.48	8.1	24.7	0.79
I20	07 Feb 2018	10	15.53	84.33	8.4	33.48	8.1	24.7	0.76
I20	07 Feb 2018	11	15.53	84.12	8.4	33.48	8.1	24.7	0.72
I20	07 Feb 2018	12	15.52	84.31	8.4	33.48	8.1	24.7	0.85
I20	07 Feb 2018	13	15.52	84.33	8.4	33.48	8.1	24.7	0.91
I20	07 Feb 2018	14	15.48	84.06	8.4	33.48	8.1	24.7	1.09
I20	07 Feb 2018	15	15.44	83.75	8.4	33.48	8.1	24.7	1.00
I20	07 Feb 2018	16	15.30	83.68	8.3	33.48	8.1	24.7	0.94
I20	07 Feb 2018	17	15.13	84.08	8.2	33.48	8.1	24.8	1.20
I20	07 Feb 2018	18	14.94	83.92	8.2	33.48	8.1	24.8	1.55
I20	07 Feb 2018	19	14.74	83.34	8.1	33.47	8.1	24.8	1.91
I20	07 Feb 2018	20	14.59	82.50	8.0	33.47	8.1	24.9	2.81
I20	07 Feb 2018	21	14.40	81.97	7.9	33.47	8.1	24.9	3.61
I20	07 Feb 2018	22	14.19	81.61	7.8	33.46	8.1	25.0	4.07
I20	07 Feb 2018	23	14.10	81.69	7.6	33.45	8.0	25.0	3.98
I20	07 Feb 2018	24	14.03	82.74	7.5	33.45	8.0	25.0	3.23
I20	07 Feb 2018	25	14.00	83.74	7.4	33.44	8.0	25.0	2.89
I20	07 Feb 2018	26	13.99	84.53	7.4	33.44	8.0	25.0	2.50
I20	07 Feb 2018	27	13.98	84.67	7.4	33.44	8.0	25.0	1.91
I20	07 Feb 2018	28	13.97	84.58	7.4	33.44	8.0	25.0	1.86
I20	07 Feb 2018	29	13.94	84.27	7.3	33.45	8.0	25.0	2.61
I20	07 Feb 2018	30	13.86	84.27	7.2	33.45	8.0	25.0	2.97
I20	07 Feb 2018	31	13.70	83.81	7.0	33.45	8.0	25.0	2.86
I20	07 Feb 2018	32	13.61	84.55	6.9	33.44	8.0	25.1	2.77
I20	07 Feb 2018	33	13.55	84.28	6.8	33.44	8.0	25.1	2.42
I20	07 Feb 2018	34	13.41	84.86	6.7	33.45	8.0	25.1	2.11
I20	07 Feb 2018	35	13.27	85.48	6.5	33.45	8.0	25.1	1.79
I20	07 Feb 2018	36	13.16	86.22	6.5	33.45	8.0	25.2	1.69
I20	07 Feb 2018	37	13.11	86.39	6.4	33.45	8.0	25.2	1.58
I20	07 Feb 2018	38	13.08	86.50	6.4	33.45	8.0	25.2	1.23
I20	07 Feb 2018	39	13.08	86.43	6.4	33.45	8.0	25.2	1.29
I20	07 Feb 2018	40	13.07	86.47	6.4	33.45	8.0	25.2	1.31
I20	07 Feb 2018	41	13.07	86.47	6.3	33.45	8.0	25.2	1.17
I20	07 Feb 2018	42	13.04	86.49	6.3	33.45	8.0	25.2	1.08
I20	07 Feb 2018	43	13.01	86.51	6.3	33.46	8.0	25.2	1.03
I20	07 Feb 2018	44	12.93	86.61	6.2	33.46	7.9	25.2	0.94
I20	07 Feb 2018	45	12.90	86.70	6.2	33.46	7.9	25.2	0.86
I20	07 Feb 2018	46	12.88	86.63	6.2	33.46	7.9	25.2	1.04
I20	07 Feb 2018	47	12.83	86.73	6.1	33.46	7.9	25.2	1.13
I20	07 Feb 2018	48	12.77	86.77	6.1	33.47	7.9	25.3	1.01
I20	07 Feb 2018	49	12.70	86.74	6.1	33.47	7.9	25.3	0.87
I20	07 Feb 2018	50	12.67	86.66	6.0	33.47	7.9	25.3	0.77
I20	07 Feb 2018	51	12.64	86.30	6.0	33.47	7.9	25.3	0.67
I20	07 Feb 2018	52	12.63	85.86	6.0	33.47	7.9	25.3	0.72
I20	07 Feb 2018	53	12.63	85.66	6.0	33.47	7.9	25.3	0.68
I20	07 Feb 2018	54	12.62	85.31	6.0	33.47	7.9	25.3	0.68
I20	07 Feb 2018	55	12.61	85.01	6.0	33.47	7.9	25.3	0.74
I21	07 Feb 2018	1	15.68	85.13	8.2	33.48	8.1	24.7	0.36
I21	07 Feb 2018	2	15.67	84.92	8.2	33.48	8.1	24.7	0.37
I21	07 Feb 2018	3	15.67	84.87	8.3	33.48	8.1	24.7	0.37
I21	07 Feb 2018	4	15.67	85.06	8.2	33.48	8.1	24.7	0.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I21	07 Feb 2018	5	15.67	85.15	8.3	33.48	8.1	24.7	0.43
I21	07 Feb 2018	6	15.66	85.08	8.2	33.48	8.1	24.7	0.46
I21	07 Feb 2018	7	15.55	84.87	8.2	33.49	8.1	24.7	0.53
I21	07 Feb 2018	8	15.32	84.84	8.3	33.48	8.1	24.7	0.54
I21	07 Feb 2018	9	15.14	84.11	8.3	33.47	8.1	24.8	0.60
I21	07 Feb 2018	10	14.89	84.33	8.2	33.47	8.1	24.8	0.71
I21	07 Feb 2018	11	14.78	84.13	8.1	33.45	8.1	24.8	0.86
I21	07 Feb 2018	12	14.67	84.25	8.0	33.46	8.1	24.9	1.10
I21	07 Feb 2018	13	14.41	83.75	7.8	33.45	8.1	24.9	1.40
I21	07 Feb 2018	14	14.28	83.59	7.7	33.45	8.1	24.9	2.22
I21	07 Feb 2018	15	14.17	83.33	7.6	33.45	8.1	25.0	2.73
I21	07 Feb 2018	16	14.11	83.88	7.5	33.44	8.1	25.0	2.71
I21	07 Feb 2018	17	14.09	83.37	7.5	33.44	8.0	25.0	2.66
I21	07 Feb 2018	18	14.05	84.18	7.4	33.44	8.0	25.0	2.69
I21	07 Feb 2018	19	14.01	84.20	7.4	33.44	8.0	25.0	2.67
I21	07 Feb 2018	20	13.99	84.51	7.3	33.44	8.0	25.0	2.16
I21	07 Feb 2018	21	13.97	84.75	7.3	33.44	8.0	25.0	2.27
I21	07 Feb 2018	22	13.96	84.64	7.3	33.44	8.0	25.0	2.47
I21	07 Feb 2018	23	13.95	84.40	7.3	33.44	8.0	25.0	2.46
I21	07 Feb 2018	24	13.94	84.25	7.2	33.45	8.0	25.0	2.67
I21	07 Feb 2018	25	13.93	84.44	7.2	33.44	8.0	25.0	3.17
I21	07 Feb 2018	26	13.93	84.67	7.2	33.44	8.0	25.0	2.57
I21	07 Feb 2018	27	13.91	84.25	7.2	33.44	8.0	25.0	2.59
I21	07 Feb 2018	28	13.89	84.44	7.2	33.44	8.0	25.0	2.74
I21	07 Feb 2018	29	13.87	84.63	7.2	33.44	8.0	25.0	3.00
I21	07 Feb 2018	30	13.82	84.09	7.2	33.44	8.0	25.0	2.48
I21	07 Feb 2018	31	13.80	84.50	7.1	33.44	8.0	25.0	2.17
I21	07 Feb 2018	32	13.79	84.30	7.1	33.44	8.0	25.0	2.26
I21	07 Feb 2018	33	13.78	84.08	7.0	33.45	8.0	25.0	2.13
I21	07 Feb 2018	34	13.70	83.13	6.9	33.46	8.0	25.1	2.42
I21	07 Feb 2018	35	13.65	82.10	6.8	33.46	8.0	25.1	2.19
I21	07 Feb 2018	36	13.61	81.86	6.7	33.46	8.0	25.1	1.93
I21	07 Feb 2018	37	13.59	81.58	6.7	33.46	8.0	25.1	1.86
I21	07 Feb 2018	38	13.56	81.31	6.6	33.47	8.0	25.1	1.90
I21	07 Feb 2018	39	13.49	80.76	6.6	33.47	8.0	25.1	1.99
I21	07 Feb 2018	40	13.42	80.15	6.5	33.47	8.0	25.1	1.92
I21	07 Feb 2018	41	13.36	77.66	6.4	33.47	8.0	25.1	1.97
I22	07 Feb 2018	1	15.73	83.83	8.3	33.48	8.1	24.6	0.49
I22	07 Feb 2018	2	15.73	83.79	8.3	33.48	8.1	24.6	0.49
I22	07 Feb 2018	3	15.73	83.97	8.3	33.48	8.1	24.6	0.50
I22	07 Feb 2018	4	15.72	84.15	8.3	33.48	8.1	24.6	0.48
I22	07 Feb 2018	5	15.72	84.07	8.3	33.48	8.1	24.6	0.49
I22	07 Feb 2018	6	15.70	83.99	8.3	33.48	8.1	24.6	0.64
I22	07 Feb 2018	7	15.67	83.63	8.3	33.48	8.1	24.6	0.74
I22	07 Feb 2018	8	15.63	83.65	8.4	33.48	8.1	24.7	0.75
I22	07 Feb 2018	9	15.58	83.42	8.4	33.48	8.1	24.7	0.89
I22	07 Feb 2018	10	15.50	82.75	8.4	33.48	8.1	24.7	0.97
I22	07 Feb 2018	11	15.40	81.97	8.5	33.47	8.1	24.7	1.01
I22	07 Feb 2018	12	15.27	81.40	8.4	33.45	8.1	24.7	1.15
I22	07 Feb 2018	13	15.08	81.21	8.4	33.43	8.1	24.7	1.43
I22	07 Feb 2018	14	15.06	80.72	8.4	33.44	8.1	24.8	1.67
I22	07 Feb 2018	15	15.06	80.51	8.4	33.44	8.1	24.8	1.83
I22	07 Feb 2018	16	15.07	81.54	8.4	33.44	8.1	24.8	1.75
I22	07 Feb 2018	17	15.07	80.79	8.4	33.44	8.1	24.8	1.95

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I22	07 Feb 2018	18	15.05	81.64	8.4	33.44	8.1	24.8	2.09
I22	07 Feb 2018	19	15.01	80.89	8.2	33.45	8.1	24.8	2.22
I22	07 Feb 2018	20	14.86	81.63	8.2	33.47	8.1	24.8	1.86
I22	07 Feb 2018	21	14.74	83.08	8.1	33.47	8.1	24.8	1.59
I22	07 Feb 2018	22	14.59	82.63	8.0	33.46	8.1	24.9	1.64
I22	07 Feb 2018	23	14.49	81.92	7.9	33.46	8.1	24.9	2.33
I22	07 Feb 2018	24	14.44	80.39	7.9	33.46	8.1	24.9	3.70
I22	07 Feb 2018	25	14.43	78.83	7.9	33.46	8.1	24.9	4.01
I22	07 Feb 2018	26	14.42	78.33	7.8	33.46	8.1	24.9	4.24
I22	07 Feb 2018	27	14.41	77.18	7.8	33.46	8.1	24.9	4.58
I22	07 Feb 2018	28	14.40	71.59	7.7	33.46	8.1	24.9	5.92
I23	07 Feb 2018	1	15.71	83.68	8.4	33.47	8.1	24.6	0.52
I23	07 Feb 2018	2	15.71	83.90	8.4	33.47	8.1	24.6	0.54
I23	07 Feb 2018	3	15.71	83.96	8.4	33.47	8.1	24.6	0.53
I23	07 Feb 2018	4	15.70	83.91	8.4	33.47	8.1	24.6	0.50
I23	07 Feb 2018	5	15.69	83.84	8.4	33.47	8.1	24.6	0.55
I23	07 Feb 2018	6	15.68	83.81	8.3	33.47	8.1	24.6	0.73
I23	07 Feb 2018	7	15.64	83.83	8.4	33.47	8.1	24.7	0.71
I23	07 Feb 2018	8	15.50	83.61	8.4	33.48	8.1	24.7	0.73
I23	07 Feb 2018	9	15.27	82.54	8.4	33.47	8.1	24.7	0.79
I23	07 Feb 2018	10	15.16	82.45	8.4	33.47	8.1	24.8	0.88
I23	07 Feb 2018	11	15.09	82.96	8.3	33.47	8.1	24.8	0.94
I23	07 Feb 2018	12	14.99	82.88	8.2	33.47	8.1	24.8	1.01
I23	07 Feb 2018	13	14.90	83.52	8.2	33.47	8.1	24.8	1.24
I23	07 Feb 2018	14	14.87	83.31	8.2	33.46	8.1	24.8	1.37
I23	07 Feb 2018	15	14.86	83.79	8.2	33.46	8.1	24.8	1.40
I23	07 Feb 2018	16	14.85	84.03	8.2	33.46	8.1	24.8	1.65
I23	07 Feb 2018	17	14.81	82.90	8.1	33.46	8.1	24.8	1.80
I23	07 Feb 2018	18	14.77	79.15	8.1	33.46	8.1	24.8	1.85
I23	07 Feb 2018	19	14.76	75.52	8.1	33.46	8.1	24.8	2.08
I23	07 Feb 2018	20	14.76	73.91	8.1	33.46	8.1	24.8	2.31
I23	07 Feb 2018	21	14.76	70.46	8.1	33.46	8.1	24.8	2.65
I27	07 Feb 2018	1	15.64	83.88	8.5	33.47	8.1	24.7	0.55
I27	07 Feb 2018	2	15.64	83.12	8.5	33.47	8.1	24.7	0.55
I27	07 Feb 2018	3	15.63	83.43	8.5	33.47	8.1	24.7	0.52
I27	07 Feb 2018	4	15.62	83.11	8.5	33.47	8.1	24.7	0.57
I27	07 Feb 2018	5	15.62	83.17	8.5	33.47	8.1	24.7	0.65
I27	07 Feb 2018	6	15.61	83.06	8.5	33.47	8.1	24.7	0.74
I27	07 Feb 2018	7	15.59	83.08	8.5	33.48	8.1	24.7	0.83
I27	07 Feb 2018	8	15.54	82.99	8.5	33.48	8.1	24.7	0.85
I27	07 Feb 2018	9	15.51	83.23	8.5	33.48	8.1	24.7	0.85
I27	07 Feb 2018	10	15.49	83.52	8.5	33.48	8.1	24.7	0.81
I27	07 Feb 2018	11	15.45	83.14	8.6	33.48	8.1	24.7	0.82
I27	07 Feb 2018	12	15.42	82.78	8.6	33.48	8.1	24.7	0.99
I27	07 Feb 2018	13	15.40	82.30	8.6	33.48	8.1	24.7	1.05
I27	07 Feb 2018	14	15.40	82.22	8.5	33.48	8.1	24.7	1.20
I27	07 Feb 2018	15	15.39	83.15	8.5	33.48	8.1	24.7	1.11
I27	07 Feb 2018	16	15.38	83.23	8.5	33.48	8.1	24.7	1.13
I27	07 Feb 2018	17	15.35	83.18	8.5	33.48	8.1	24.7	1.18
I27	07 Feb 2018	18	15.29	82.76	8.4	33.47	8.1	24.7	1.51
I27	07 Feb 2018	19	15.22	82.75	8.3	33.47	8.1	24.7	1.65
I27	07 Feb 2018	20	14.99	83.03	8.2	33.47	8.1	24.8	1.52
I27	07 Feb 2018	21	14.86	83.16	8.1	33.46	8.1	24.8	1.71

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I27	07 Feb 2018	22	14.77	83.47	8.0	33.46	8.1	24.8	1.88
I27	07 Feb 2018	23	14.65	83.39	8.0	33.46	8.1	24.9	2.21
I27	07 Feb 2018	24	14.63	83.43	8.0	33.45	8.1	24.9	2.39
I27	07 Feb 2018	25	14.55	83.07	7.9	33.46	8.1	24.9	2.55
I27	07 Feb 2018	26	14.47	81.01	7.9	33.46	8.1	24.9	2.96
I27	07 Feb 2018	27	14.46	80.28	7.8	33.46	8.1	24.9	3.34
I27	07 Feb 2018	28	14.44	78.48	7.8	33.46	8.1	24.9	3.13
I28	08 Feb 2018	1	15.59	83.90	8.4	33.48	8.0	24.7	0.36
I28	08 Feb 2018	2	15.59	83.70	8.4	33.49	8.0	24.7	0.38
I28	08 Feb 2018	3	15.58	83.75	8.3	33.49	8.0	24.7	0.38
I28	08 Feb 2018	4	15.58	83.62	8.4	33.48	8.0	24.7	0.38
I28	08 Feb 2018	5	15.57	83.55	8.4	33.48	8.0	24.7	0.41
I28	08 Feb 2018	6	15.57	83.69	8.4	33.48	8.0	24.7	0.44
I28	08 Feb 2018	7	15.56	83.42	8.4	33.48	8.0	24.7	0.57
I28	08 Feb 2018	8	15.55	83.58	8.4	33.48	8.0	24.7	0.64
I28	08 Feb 2018	9	15.53	83.56	8.4	33.48	8.0	24.7	0.71
I28	08 Feb 2018	10	15.43	83.28	8.4	33.49	8.0	24.7	0.73
I28	08 Feb 2018	11	15.17	82.99	8.4	33.48	8.0	24.8	0.96
I28	08 Feb 2018	12	14.93	82.72	8.3	33.48	8.0	24.8	1.23
I28	08 Feb 2018	13	14.82	83.24	8.2	33.47	8.0	24.8	1.27
I28	08 Feb 2018	14	14.70	83.08	8.2	33.46	8.0	24.9	1.52
I28	08 Feb 2018	15	14.65	82.81	8.1	33.46	8.0	24.9	2.03
I28	08 Feb 2018	16	14.61	82.29	8.1	33.46	8.0	24.9	2.37
I28	08 Feb 2018	17	14.54	82.02	8.1	33.46	8.0	24.9	2.90
I28	08 Feb 2018	18	14.47	81.71	8.0	33.46	8.0	24.9	3.02
I28	08 Feb 2018	19	14.42	82.29	7.9	33.45	8.0	24.9	3.05
I28	08 Feb 2018	20	14.38	83.00	7.9	33.45	8.0	24.9	3.93
I28	08 Feb 2018	21	14.33	82.87	7.8	33.45	8.0	24.9	4.09
I28	08 Feb 2018	22	14.28	82.79	7.8	33.45	8.0	24.9	3.89
I28	08 Feb 2018	23	14.23	83.00	7.6	33.45	8.0	24.9	4.03
I28	08 Feb 2018	24	14.15	82.94	7.6	33.45	8.0	25.0	3.92
I28	08 Feb 2018	25	14.07	83.27	7.5	33.45	8.0	25.0	3.80
I28	08 Feb 2018	26	13.95	83.62	7.3	33.45	7.9	25.0	3.05
I28	08 Feb 2018	27	13.89	83.88	7.3	33.45	7.9	25.0	2.84
I28	08 Feb 2018	28	13.85	83.62	7.2	33.45	7.9	25.0	3.12
I28	08 Feb 2018	29	13.81	83.22	7.2	33.45	7.9	25.0	2.78
I28	08 Feb 2018	30	13.75	84.01	7.1	33.45	7.9	25.0	2.21
I28	08 Feb 2018	31	13.70	84.11	7.0	33.45	7.9	25.1	2.83
I28	08 Feb 2018	32	13.67	84.20	7.0	33.45	7.9	25.1	2.87
I28	08 Feb 2018	33	13.59	83.95	6.9	33.45	7.9	25.1	2.09
I28	08 Feb 2018	34	13.56	84.36	6.8	33.45	7.9	25.1	2.19
I28	08 Feb 2018	35	13.54	84.33	6.8	33.45	7.9	25.1	2.59
I28	08 Feb 2018	36	13.48	84.72	6.7	33.45	7.9	25.1	2.06
I28	08 Feb 2018	37	13.44	84.97	6.6	33.45	7.9	25.1	1.61
I28	08 Feb 2018	38	13.40	85.17	6.6	33.45	7.9	25.1	1.38
I28	08 Feb 2018	39	13.26	85.52	6.4	33.46	7.9	25.1	1.40
I28	08 Feb 2018	40	13.17	85.75	6.4	33.46	7.9	25.2	1.25
I28	08 Feb 2018	41	13.12	85.96	6.3	33.46	7.9	25.2	1.16
I28	08 Feb 2018	42	13.11	85.99	6.3	33.46	7.8	25.2	1.20
I28	08 Feb 2018	43	13.10	85.98	6.3	33.46	7.8	25.2	1.23
I28	08 Feb 2018	44	13.05	86.23	6.3	33.46	7.8	25.2	0.99
I28	08 Feb 2018	45	13.01	86.23	6.2	33.46	7.8	25.2	0.90
I28	08 Feb 2018	46	13.00	86.38	6.2	33.46	7.8	25.2	1.06
I28	08 Feb 2018	47	12.99	86.32	6.2	33.46	7.8	25.2	0.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I28	08 Feb 2018	48	12.98	86.35	6.2	33.46	7.8	25.2	0.85
I28	08 Feb 2018	49	12.97	86.35	6.2	33.46	7.8	25.2	0.80
I28	08 Feb 2018	50	12.97	86.41	6.2	33.47	7.8	25.2	0.78
I28	08 Feb 2018	51	12.96	86.38	6.2	33.47	7.8	25.2	0.93
I28	08 Feb 2018	52	12.93	86.45	6.2	33.47	7.8	25.2	0.90
I28	08 Feb 2018	53	12.91	86.43	6.1	33.47	7.8	25.2	0.93
I28	08 Feb 2018	54	12.80	86.17	6.1	33.47	7.8	25.2	0.84
I28	08 Feb 2018	55	12.70	85.50	6.0	33.47	7.8	25.3	0.71
I29	08 Feb 2018	1	15.49	83.11	8.4	33.48	8.0	24.7	0.40
I29	08 Feb 2018	2	15.49	83.26	8.4	33.48	8.0	24.7	0.40
I29	08 Feb 2018	3	15.48	83.63	8.4	33.48	8.0	24.7	0.40
I29	08 Feb 2018	4	15.47	83.39	8.4	33.48	8.0	24.7	0.41
I29	08 Feb 2018	5	15.46	83.10	8.4	33.48	8.0	24.7	0.47
I29	08 Feb 2018	6	15.44	83.07	8.4	33.48	8.0	24.7	0.50
I29	08 Feb 2018	7	15.34	82.87	8.4	33.48	8.0	24.7	0.56
I29	08 Feb 2018	8	15.20	82.65	8.4	33.48	8.0	24.8	0.68
I29	08 Feb 2018	9	15.06	82.45	8.4	33.48	8.0	24.8	0.87
I29	08 Feb 2018	10	14.89	81.62	8.3	33.48	8.0	24.8	1.00
I29	08 Feb 2018	11	14.84	81.49	8.3	33.47	8.0	24.8	1.32
I29	08 Feb 2018	12	14.83	81.71	8.3	33.46	8.0	24.8	1.52
I29	08 Feb 2018	13	14.79	81.81	8.2	33.47	8.0	24.8	2.18
I29	08 Feb 2018	14	14.73	81.73	8.2	33.47	8.0	24.8	3.14
I29	08 Feb 2018	15	14.66	80.99	8.1	33.46	8.0	24.9	4.10
I29	08 Feb 2018	16	14.52	81.61	7.9	33.46	8.0	24.9	3.56
I29	08 Feb 2018	17	14.31	81.32	7.7	33.47	8.0	24.9	3.77
I29	08 Feb 2018	18	14.14	82.42	7.5	33.46	8.0	25.0	3.16
I29	08 Feb 2018	19	14.13	82.54	7.4	33.45	7.9	25.0	2.41
I29	08 Feb 2018	20	14.12	82.58	7.4	33.45	7.9	25.0	2.16
I29	08 Feb 2018	21	14.10	82.34	7.4	33.46	7.9	25.0	1.80
I29	08 Feb 2018	22	14.08	82.51	7.4	33.45	7.9	25.0	1.53
I29	08 Feb 2018	23	14.07	82.67	7.4	33.46	7.9	25.0	2.50
I29	08 Feb 2018	24	14.03	83.22	7.3	33.46	7.9	25.0	2.46
I29	08 Feb 2018	25	14.02	82.98	7.3	33.46	7.9	25.0	1.82
I29	08 Feb 2018	26	14.01	83.29	7.3	33.46	7.9	25.0	2.04
I29	08 Feb 2018	27	13.97	83.24	7.2	33.46	7.9	25.0	2.75
I29	08 Feb 2018	28	13.94	82.73	7.2	33.46	7.9	25.0	3.61
I29	08 Feb 2018	29	13.93	82.93	7.1	33.46	7.9	25.0	3.00
I29	08 Feb 2018	30	13.90	81.84	7.0	33.47	7.9	25.0	1.74
I29	08 Feb 2018	31	13.80	79.49	6.8	33.47	7.9	25.0	1.74
I29	08 Feb 2018	32	13.71	75.97	6.7	33.47	7.9	25.1	1.68
I29	08 Feb 2018	33	13.66	75.53	6.6	33.47	7.9	25.1	2.33
I29	08 Feb 2018	34	13.60	76.59	6.5	33.47	7.9	25.1	1.90
I29	08 Feb 2018	35	13.42	76.68	6.4	33.48	7.9	25.1	1.54
I29	08 Feb 2018	36	13.36	76.68	6.3	33.47	7.8	25.1	1.55
I29	08 Feb 2018	37	13.36	76.34	6.2	33.47	7.8	25.1	1.76
I29	08 Feb 2018	38	13.36	75.52	6.2	33.47	7.8	25.1	1.61
I30	08 Feb 2018	1	15.41	81.20	8.6	33.47	8.0	24.7	0.39
I30	08 Feb 2018	2	15.40	81.52	8.6	33.47	8.0	24.7	0.42
I30	08 Feb 2018	3	15.37	81.77	8.6	33.48	8.0	24.7	0.40
I30	08 Feb 2018	4	15.36	81.41	8.6	33.47	8.0	24.7	0.44
I30	08 Feb 2018	5	15.36	81.44	8.6	33.47	8.0	24.7	0.56
I30	08 Feb 2018	6	15.35	81.13	8.6	33.47	8.0	24.7	0.58
I30	08 Feb 2018	7	15.34	81.08	8.6	33.47	8.0	24.7	0.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I30	08 Feb 2018	8	15.31	81.14	8.6	33.47	8.0	24.7	0.74
I30	08 Feb 2018	9	15.22	80.98	8.6	33.48	8.0	24.7	0.96
I30	08 Feb 2018	10	15.10	81.43	8.5	33.48	8.0	24.8	1.00
I30	08 Feb 2018	11	15.00	81.34	8.4	33.47	8.0	24.8	1.27
I30	08 Feb 2018	12	14.93	81.53	8.4	33.47	8.0	24.8	1.56
I30	08 Feb 2018	13	14.91	81.21	8.4	33.46	8.0	24.8	1.44
I30	08 Feb 2018	14	14.91	81.43	8.3	33.46	8.0	24.8	1.86
I30	08 Feb 2018	15	14.90	81.45	8.3	33.46	8.0	24.8	2.12
I30	08 Feb 2018	16	14.88	81.00	8.3	33.46	8.0	24.8	1.95
I30	08 Feb 2018	17	14.87	81.18	8.3	33.46	8.0	24.8	2.27
I30	08 Feb 2018	18	14.84	81.30	8.2	33.46	8.0	24.8	2.25
I30	08 Feb 2018	19	14.80	81.52	8.2	33.47	8.0	24.8	2.67
I30	08 Feb 2018	20	14.71	80.77	8.1	33.47	8.0	24.9	2.58
I30	08 Feb 2018	21	14.57	80.36	8.0	33.47	8.0	24.9	3.09
I30	08 Feb 2018	22	14.43	80.21	7.8	33.46	8.0	24.9	3.32
I30	08 Feb 2018	23	14.38	80.89	7.8	33.46	8.0	24.9	3.55
I30	08 Feb 2018	24	14.28	80.67	7.6	33.46	8.0	24.9	3.53
I30	08 Feb 2018	25	14.20	79.53	7.4	33.46	7.9	25.0	2.80
I30	08 Feb 2018	26	14.16	78.07	7.4	33.46	7.9	25.0	3.17
I30	08 Feb 2018	27	14.14	78.01	7.3	33.45	7.9	25.0	3.46
I30	08 Feb 2018	28	14.12	76.93	7.2	33.45	7.9	25.0	3.41
I31	08 Feb 2018	1	15.57	82.37	8.5	33.48	8.0	24.7	0.38
I31	08 Feb 2018	2	15.56	81.98	8.5	33.48	8.0	24.7	0.37
I31	08 Feb 2018	3	15.54	82.13	8.5	33.48	8.0	24.7	0.38
I31	08 Feb 2018	4	15.52	82.11	8.5	33.48	8.0	24.7	0.41
I31	08 Feb 2018	5	15.51	82.04	8.5	33.48	8.0	24.7	0.46
I31	08 Feb 2018	6	15.50	81.94	8.6	33.48	8.0	24.7	0.55
I31	08 Feb 2018	7	15.49	81.91	8.6	33.48	8.0	24.7	0.61
I31	08 Feb 2018	8	15.48	82.12	8.6	33.48	8.0	24.7	0.70
I31	08 Feb 2018	9	15.48	81.99	8.6	33.48	8.0	24.7	0.77
I31	08 Feb 2018	10	15.44	81.65	8.6	33.48	8.0	24.7	0.90
I31	08 Feb 2018	11	15.28	81.38	8.7	33.48	8.0	24.7	1.18
I31	08 Feb 2018	12	15.06	81.40	8.6	33.48	8.0	24.8	1.29
I31	08 Feb 2018	13	14.88	81.22	8.4	33.47	8.0	24.8	1.57
I31	08 Feb 2018	14	14.83	80.07	8.3	33.47	8.0	24.8	1.68
I31	08 Feb 2018	15	14.80	78.46	8.2	33.47	8.0	24.8	2.06
I31	08 Feb 2018	16	14.79	76.96	8.2	33.47	8.0	24.8	2.18
I31	08 Feb 2018	17	14.73	76.64	8.1	33.47	8.0	24.8	2.13
I31	08 Feb 2018	18	14.60	76.34	7.9	33.47	8.0	24.9	2.46
I31	08 Feb 2018	19	14.49	71.59	7.7	33.47	8.0	24.9	4.13
I33	08 Feb 2018	1	15.34	81.04	8.2	33.48	8.0	24.7	0.65
I33	08 Feb 2018	2	15.34	82.20	8.2	33.48	8.0	24.7	0.63
I33	08 Feb 2018	3	15.33	82.48	8.2	33.48	8.0	24.7	0.62
I33	08 Feb 2018	4	15.33	82.36	8.2	33.48	8.0	24.7	0.60
I33	08 Feb 2018	5	15.33	82.32	8.2	33.48	8.0	24.7	0.67
I33	08 Feb 2018	6	15.33	82.38	8.2	33.48	8.0	24.7	0.83
I33	08 Feb 2018	7	15.32	82.39	8.2	33.48	8.0	24.7	0.89
I33	08 Feb 2018	8	15.32	82.41	8.2	33.48	8.0	24.7	0.95
I33	08 Feb 2018	9	15.32	82.62	8.2	33.48	8.0	24.7	1.08
I33	08 Feb 2018	10	15.32	82.65	8.2	33.48	8.0	24.7	1.04
I33	08 Feb 2018	11	15.31	82.56	8.2	33.48	8.0	24.7	1.09
I33	08 Feb 2018	12	15.31	82.35	8.2	33.48	8.0	24.7	1.39
I33	08 Feb 2018	13	15.31	82.61	8.2	33.48	8.0	24.7	1.25

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I33	08 Feb 2018	14	15.31	82.33	8.2	33.48	8.0	24.7	1.17
I33	08 Feb 2018	15	15.31	82.70	8.2	33.48	8.0	24.7	1.21
I33	08 Feb 2018	16	15.30	82.42	8.2	33.48	8.0	24.7	1.34
I33	08 Feb 2018	17	15.24	82.54	8.2	33.48	8.0	24.7	1.24
I33	08 Feb 2018	18	15.17	82.60	8.3	33.47	8.0	24.8	1.46
I33	08 Feb 2018	19	15.09	82.17	8.2	33.47	8.0	24.8	1.56
I33	08 Feb 2018	20	15.00	82.30	8.2	33.47	8.0	24.8	1.72
I33	08 Feb 2018	21	14.89	82.23	8.1	33.47	8.0	24.8	1.88
I33	08 Feb 2018	22	14.82	82.30	8.1	33.47	8.0	24.8	1.73
I33	08 Feb 2018	23	14.77	82.37	8.0	33.47	8.0	24.8	1.49
I33	08 Feb 2018	24	14.64	81.77	8.0	33.47	8.0	24.9	1.44
I33	08 Feb 2018	25	14.51	81.41	7.9	33.47	8.0	24.9	2.10
I33	08 Feb 2018	26	14.48	81.33	7.8	33.46	8.0	24.9	1.63
I33	08 Feb 2018	27	14.37	81.67	7.6	33.47	7.9	24.9	1.53
I33	08 Feb 2018	28	14.25	81.83	7.4	33.47	7.9	24.9	1.62
I33	08 Feb 2018	29	14.14	81.89	7.3	33.47	7.9	25.0	1.42
I33	08 Feb 2018	30	14.03	81.32	7.2	33.47	7.9	25.0	1.29
I34	08 Feb 2018	1	15.39	82.74	8.3	33.48	8.0	24.7	0.61
I34	08 Feb 2018	2	15.38	82.54	8.3	33.48	8.0	24.7	0.58
I34	08 Feb 2018	3	15.38	82.30	8.3	33.48	8.0	24.7	0.62
I34	08 Feb 2018	4	15.38	82.54	8.3	33.48	8.0	24.7	0.67
I34	08 Feb 2018	5	15.37	82.48	8.3	33.48	8.0	24.7	0.73
I34	08 Feb 2018	6	15.37	82.51	8.3	33.48	8.0	24.7	0.82
I34	08 Feb 2018	7	15.37	82.58	8.3	33.48	8.0	24.7	0.88
I34	08 Feb 2018	8	15.37	82.64	8.3	33.48	8.0	24.7	0.94
I34	08 Feb 2018	9	15.37	82.61	8.3	33.48	8.0	24.7	0.96
I34	08 Feb 2018	10	15.37	82.50	8.3	33.48	8.0	24.7	0.99
I34	08 Feb 2018	11	15.37	82.59	8.3	33.48	8.0	24.7	1.12
I34	08 Feb 2018	12	15.36	82.70	8.3	33.48	8.0	24.7	1.09
I34	08 Feb 2018	13	15.36	82.42	8.2	33.48	8.0	24.7	1.05
I34	08 Feb 2018	14	15.33	82.06	8.2	33.48	8.0	24.7	1.06
I34	08 Feb 2018	15	15.17	81.88	8.1	33.48	8.0	24.8	1.24
I34	08 Feb 2018	16	15.01	82.03	8.1	33.47	8.0	24.8	1.27
I34	08 Feb 2018	17	14.85	81.62	8.0	33.46	8.0	24.8	1.17
I34	08 Feb 2018	18	14.74	81.22	8.0	33.46	8.0	24.8	1.26
I34	08 Feb 2018	19	14.62	79.54	7.9	33.46	8.0	24.9	1.39
I35	08 Feb 2018	1	15.97	81.62	8.4	33.50	8.0	24.6	0.41
I35	08 Feb 2018	2	15.96	81.43	8.3	33.50	8.0	24.6	0.40
I35	08 Feb 2018	3	15.83	81.25	8.4	33.50	8.0	24.6	0.44
I35	08 Feb 2018	4	15.80	80.74	8.4	33.49	8.0	24.6	0.51
I35	08 Feb 2018	5	15.78	80.87	8.4	33.49	8.0	24.6	0.58
I35	08 Feb 2018	6	15.76	81.07	8.4	33.49	8.0	24.6	0.65
I35	08 Feb 2018	7	15.73	81.28	8.4	33.49	8.0	24.6	0.74
I35	08 Feb 2018	8	15.68	81.36	8.3	33.49	8.0	24.7	0.89
I35	08 Feb 2018	9	15.55	81.26	8.2	33.49	8.0	24.7	1.03
I35	08 Feb 2018	10	15.38	79.51	8.0	33.48	8.0	24.7	1.09
I35	08 Feb 2018	11	15.14	79.52	8.1	33.48	8.0	24.8	1.19
I35	08 Feb 2018	12	14.95	80.29	8.2	33.47	8.0	24.8	1.42
I35	08 Feb 2018	13	14.88	78.47	8.0	33.46	8.0	24.8	1.69
I35	08 Feb 2018	14	14.86	77.02	7.8	33.45	8.0	24.8	1.96
I35	08 Feb 2018	15	14.85	76.47	7.7	33.45	8.0	24.8	2.06
I35	08 Feb 2018	16	14.81	76.72	7.7	33.45	8.0	24.8	2.03
I35	08 Feb 2018	17	14.74	75.62	7.6	33.45	8.0	24.8	1.83

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I35	08 Feb 2018	18	14.71	74.12	7.6	33.45	8.0	24.8	1.68
I35	08 Feb 2018	19	14.68	69.37	7.4	33.45	8.0	24.8	1.80
I36	08 Feb 2018	1	15.57	76.79	8.6	33.48	8.0	24.7	0.71
I36	08 Feb 2018	2	15.52	76.54	8.6	33.48	8.0	24.7	0.66
I36	08 Feb 2018	3	15.43	76.05	8.7	33.48	8.0	24.7	0.74
I36	08 Feb 2018	4	15.40	75.67	8.7	33.48	8.0	24.7	0.88
I36	08 Feb 2018	5	15.37	74.99	8.7	33.48	8.0	24.7	1.10
I36	08 Feb 2018	6	15.33	75.31	8.7	33.48	8.0	24.7	1.30
I36	08 Feb 2018	7	15.30	75.27	8.7	33.47	8.0	24.7	1.46
I36	08 Feb 2018	8	15.23	72.93	8.4	33.47	8.0	24.7	1.65
I36	08 Feb 2018	9	15.10	59.52	7.9	33.46	8.0	24.8	1.95
I36	08 Feb 2018	10	15.06	52.49	7.6	33.45	8.0	24.8	2.44
I36	08 Feb 2018	11	15.03	39.37	7.4	33.45	8.0	24.8	2.63
I37	08 Feb 2018	1	15.56	82.58	8.2	33.48	8.0	24.7	0.52
I37	08 Feb 2018	2	15.56	82.89	8.2	33.48	8.0	24.7	0.56
I37	08 Feb 2018	3	15.55	82.91	8.2	33.48	8.0	24.7	0.65
I37	08 Feb 2018	4	15.55	82.71	8.2	33.48	8.0	24.7	0.74
I37	08 Feb 2018	5	15.55	82.83	8.2	33.48	8.0	24.7	0.79
I37	08 Feb 2018	6	15.55	82.73	8.2	33.48	8.0	24.7	0.86
I37	08 Feb 2018	7	15.54	82.76	8.2	33.48	8.0	24.7	0.91
I37	08 Feb 2018	8	15.54	82.61	8.2	33.48	8.0	24.7	0.95
I37	08 Feb 2018	9	15.46	82.04	8.1	33.49	8.0	24.7	1.06
I37	08 Feb 2018	10	15.29	79.86	8.0	33.47	8.0	24.7	1.27
I37	08 Feb 2018	11	15.21	78.47	8.0	33.47	8.0	24.7	1.43
I37	08 Feb 2018	12	14.99	74.73	7.8	33.47	8.0	24.8	1.68
I38	08 Feb 2018	1	15.91	82.23	8.2	33.49	8.0	24.6	0.25
I38	08 Feb 2018	2	15.91	82.44	8.2	33.49	8.0	24.6	0.24
I38	08 Feb 2018	3	15.78	82.40	8.2	33.51	8.0	24.6	0.24
I38	08 Feb 2018	4	15.73	82.08	8.2	33.49	8.0	24.6	0.27
I38	08 Feb 2018	5	15.71	81.94	8.3	33.49	8.0	24.7	0.32
I38	08 Feb 2018	6	15.69	81.86	8.2	33.49	8.0	24.7	0.37
I38	08 Feb 2018	7	15.68	81.83	8.3	33.49	8.0	24.7	0.42
I38	08 Feb 2018	8	15.67	81.71	8.3	33.49	8.0	24.7	0.49
I38	08 Feb 2018	9	15.49	81.73	8.2	33.50	8.0	24.7	0.56
I38	08 Feb 2018	10	15.17	75.57	7.8	33.47	8.0	24.8	0.79
I38	08 Feb 2018	11	15.11	68.55	7.4	33.46	8.0	24.8	1.30

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	06 Feb 2018	18	ZV	LAB DUPLICATE	<2	<2	<2
I8	06 Feb 2018	37	ZV	LAB DUPLICATE	<2	<2	<2
I9	06 Feb 2018	27	ZV	LAB DUPLICATE	<2	<2	<2
I12	07 Feb 2018	18	AR	LAB DUPLICATE	<2	<2	<2
I13	07 Feb 2018	18	AR	LAB DUPLICATE	<2	<2	<2
I16	07 Feb 2018	18	AE	LAB DUPLICATE	4e	<2	<2
I19	05 Feb 2018	6	AR	LAB DUPLICATE	<2	ns	ns
I19	05 Feb 2018	6	ZV	LAB DUPLICATE	ns	<2	<2
I19	16 Feb 2018	6	LMA	LAB DUPLICATE	180e	2e	<2
I19	20 Feb 2018	6	ZV	LAB DUPLICATE	<2	<2	<2
I19	26 Feb 2018	6	AR	LAB DUPLICATE	<2	<2	<2
I30	08 Feb 2018	27	AR	LAB DUPLICATE	<2	<2	<2
I36	08 Feb 2018	11	ZV	FIELD DUPLICATE	6e	<2	2e
I36	08 Feb 2018	11	ZV	LAB DUPLICATE	<20	<2	2e
I40	05 Feb 2018	6	ZV	LAB DUPLICATE	<2	<2	<2
I40	16 Feb 2018	6	LMA	LAB DUPLICATE	780	66	28e
I40	20 Feb 2018	6	ZV	LAB DUPLICATE	<2	<2	<2
I40	26 Feb 2018	6	AR	LAB DUPLICATE	<20	<2	<2
S12	06 Feb 2018		JT	FIELD DUPLICATE	<2	<2	<2
S12	06 Feb 2018		JT	LAB DUPLICATE	<2	<2	<2
S12	13 Feb 2018		AE	FIELD DUPLICATE	16e	<2	4e
S12	13 Feb 2018		AE	LAB DUPLICATE	20e	<2	4e
S12	20 Feb 2018		AR	FIELD DUPLICATE	<2	<2	<2
S12	20 Feb 2018		AR	LAB DUPLICATE	<2	<2	<2
S12	27 Feb 2018		LMA	FIELD DUPLICATE	<2	<2	6e
S12	27 Feb 2018		LMA	LAB DUPLICATE	2e	<2	6e

ns = not sampled

ND = no data

