



Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall

(South Bay Water Reclamation Plant)

NPDES Permit No. CA0109045

November 2015



City of San Diego
Ocean Monitoring Program
Public Utilities Department
Environmental Monitoring and Technical Services Division



THE CITY OF SAN DIEGO

December 31, 2015

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the November 2015 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006, NPDES Permit No. CA0109045.

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

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

Sincerely,

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

TDS:asb

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

Environmental Monitoring and Technical Services Division • Public Utilities

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INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2013-0006, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). Order No. R9-2013-0006 superseded Order No. R9-2006-0067 effective April 4, 2013. This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

Water quality monitoring was conducted at 11 stations located along the shore from Playa Blanca, Mexico to Coronado, USA (see station locations map). Three sites are located south of the international border (stations S0, S2, S3), while eight sites are in the United States (stations S4–S6 and S8–12).

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 stations (I19, I24, I25, I26, I32, I39, I40) were sampled according to NPDES permit specifications in order to monitor water quality compliance within a kelp bed-suitable area. The seven kelp stations 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 seven stations are only occasionally located within an area where kelp is actually found. 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.

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.

All water samples were collected using Van Dorn bottles arrayed at the required depths and messenger-tripped in series. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate of eight scans per second. The data were then

internally averaged using the CTD proprietary software, Seasoftware, to create water column profiles equivalent to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data. However, it should be noted that the CTD measurements and bacteriological samples were taken from separate hydrocasts.

Offshore Stations

Quarterly offshore water quality sampling was 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 three 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 chromomorphoc 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;

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

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

Single Sample Maximums:

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

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 2015 Quality Assurance Report, which will be completed in March 2016.

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 November, three 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 *Enterococcus* was exceeded at stations S4, S5 and S11 on one or more days during the month.

- The single sample maximum (SSM) standard for *Enterococcus* was exceeded at station S4 on November 17 and 24.
- The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at station S4 on November 17.
- Per Ocean Plan requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- o 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 the seawater samples collected at station S2 during the month.
- o Historical analyses of Ocean Plan compliance rates for the South Bay outfall shoreline monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *South Bay Ocean Outfall Annual Receiving Waters Monitoring and Assessment Report* for details:

(<http://www.sandiego.gov/mwwd/environment/oceanmonitor/reports/index.shtml>).

- o Notable visual observations for November included: 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**

- o The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled five times over six days during November (i.e. November 7, 12, 13, 20, 24, 30).
- o During November, one of the seven stations was out of compliance with various Ocean Plan water contact standards (see below).
 - The SSM standard for *Enterococcus* was exceeded at station I19 on November 30.
- o Water column temperatures ranged from 17.4 to 19.32°C. The difference between surface and bottom waters ranged from approximately 0 to 0.82°C, indicating the water column was not stratified at these sites.
- o Chlorophyll *a* concentrations ranged from 0.62 to 3.51 µg/L at these stations, suggesting the absence of phytoplankton blooms during the month.
- o Suspended solid values ranged from 0.2 to 9.4 mg/L in November. Elevated levels of suspended solids (i.e., values > 8 mg/L) occurred in a seawater sample collected at station I40 at a depth of 6 m. Higher suspended solid concentrations may be due to the re-suspension of bottom sediments when the CTD touched the sea floor.
- o Oil and grease values were < 0.2 mg/L in all kelp bed seawater samples.
- o Nothing of sewage origin was observed at any of the kelp bed stations.

➤ **Offshore Water Quality Sampling**

- o Quarterly offshore water quality sampling was conducted over three days during the month (i.e., November 9, 12, 13).
- o All of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were in compliance with the relevant Ocean Plan single sample maximum standards.
- o All of the remaining offshore stations (i.e., I3, I5, I7–I11, I13, I20, I21, I30) were also characterized by low densities of bacteria (i.e., total coliforms $\leq 10,000$ CFU/100 mL; fecal coliforms ≤ 400 CFU/100 mL; *Enterococcus* ≤ 104 CFU/100 mL).
- o Water column temperatures ranged from 15.27 to 21.72°C at the offshore sites. The difference between surface and bottom waters ranged from 0.16 to 6.45°C, indicating that the water column was stratified at some of the offshore stations during the month.
- o Chlorophyll *a* concentrations ranged from 0.22 to 2.84 µg/L at the offshore sites, suggesting the absence of phytoplankton blooms during the month.
- o CDOM data are available upon request.
- o Suspended solid values ranged from 0.2 to 10 mg/L in November. Elevated levels of suspended solids (i.e., values ≥ 8 mg/L) occurred in seawater samples collected from stations I11 and I38, both at a depth of 11 m. Higher suspended solid concentrations may be due to the re-suspension of bottom sediments when the CTD touched the sea floor.
- o Oil and grease values were < 0.2 mg/L in all offshore seawater samples.
- o Nothing of sewage origin was observed at any of the offshore stations.

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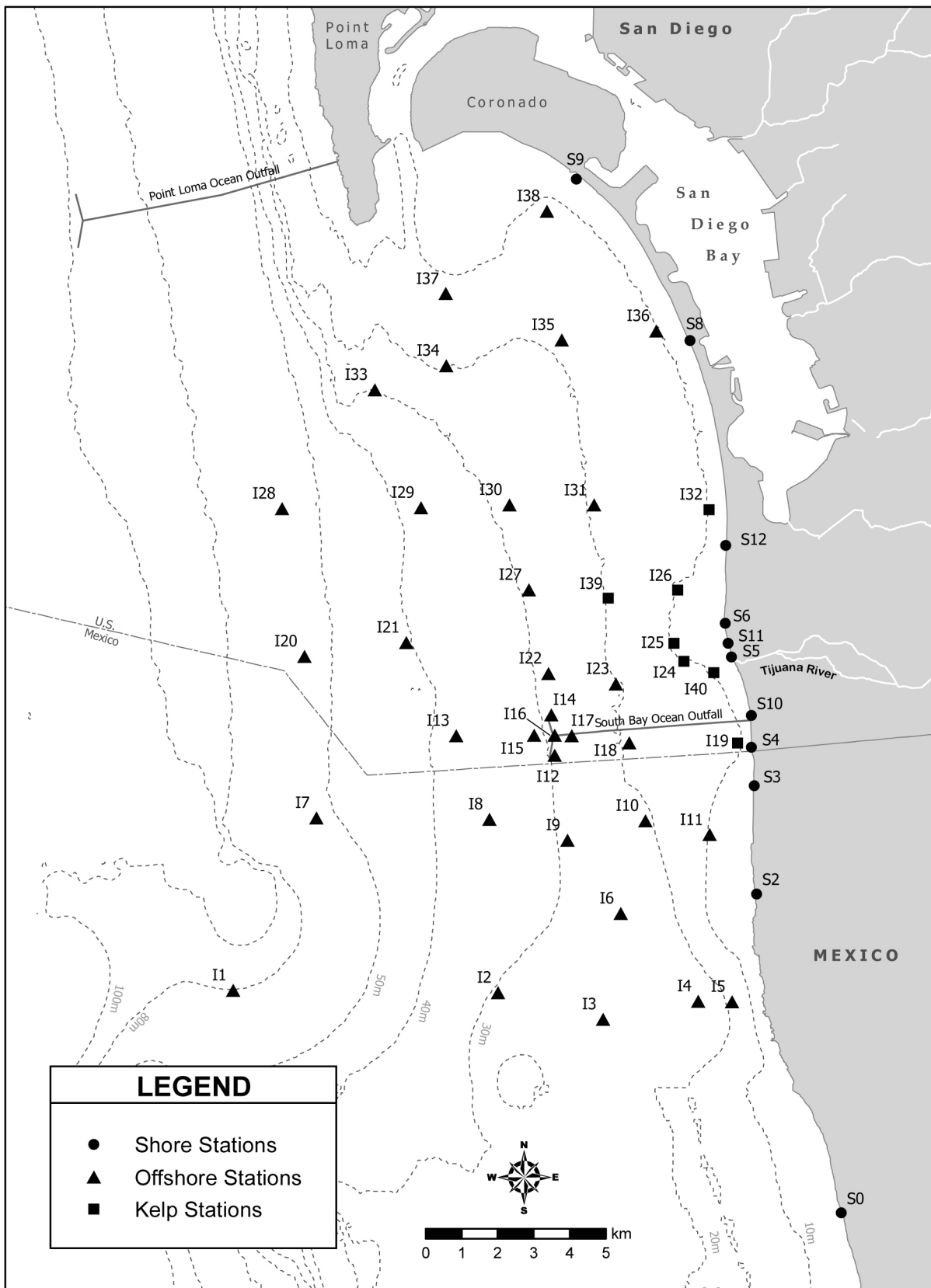


Figure 1.1 Station Map

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 Nov 2015	36*	274	215	15*	11*	21*	215	210
02 Nov 2015	36*	274	215	15*	11*	21*	215	210
03 Nov 2015	32	199	145	10	11	17	145	142
04 Nov 2015	32	199	145	10	11	17	145	142
05 Nov 2015	20*	83	57	6*	17*	9*	57	55
06 Nov 2015	20*	83	57	6*	17*	9*	57	55
07 Nov 2015	20*	25*	24*	6*	17*	9*	21*	42*
08 Nov 2015	20*	25*	24*	6*	17*	9*	21*	42*
09 Nov 2015	20*	25*	24*	6*	17*	9*	21*	42*
10 Nov 2015	20	24	36	8	17	14	21	36
11 Nov 2015	20	24	36	8	17	14	21	36
12 Nov 2015	13*	16*	36*	11*	17*	13*	16*	24*
13 Nov 2015	13*	16*	36*	11*	17*	13*	16*	24*
14 Nov 2015	13*	16*	36*	11*	17*	13*	16*	24*
15 Nov 2015	13*	16*	36*	11*	17*	13*	16*	24*
16 Nov 2015	13*	16*	36*	11*	17*	13*	16*	24*
17 Nov 2015	37	17	32	8	25	22	17	23
18 Nov 2015	37	17	32	8	25	22	17	23
19 Nov 2015	93	16*	36*	6*	26*	39*	20*	42*
20 Nov 2015	93	16*	36*	6*	26*	39*	20*	42*
21 Nov 2015	93	16*	36*	6*	26*	39*	20*	42*
22 Nov 2015	93	16*	36*	6*	26*	39*	20*	42*
23 Nov 2015	93	16*	36*	6*	26*	39*	20*	42*
24 Nov 2015	97	11	23	8	25	42	13	36
25 Nov 2015	97	11	23	8	25	42	13	36
26 Nov 2015	116	13*	24*	6*	26*	51*	11*	20*
27 Nov 2015	116	13*	24*	6*	26*	51*	11*	20*
28 Nov 2015	116	13*	24*	6*	26*	51*	11*	20*
29 Nov 2015	116	13*	24*	6*	26*	51*	11*	20*
30 Nov 2015	116	13*	24*	6*	26*	51*	11*	20*

* 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 Nov 2015	6*	45	17	3*	3*	4*	33	18
02 Nov 2015	6*	45	17	3*	3*	4*	33	18
03 Nov 2015	5	32	14	3	4	3	21	13
04 Nov 2015	5	32	14	3	4	3	21	13
05 Nov 2015	4*	10	4	2*	5*	2*	6	5
06 Nov 2015	4*	10	4	2*	5*	2*	6	5
07 Nov 2015	4*	4*	2*	2*	5*	2*	3*	5*
08 Nov 2015	4*	4*	2*	2*	5*	2*	3*	5*
09 Nov 2015	4*	4*	2*	2*	5*	2*	3*	5*
10 Nov 2015	3	4	3	2	5	4	3	5
11 Nov 2015	3	4	3	2	5	4	3	5
12 Nov 2015	2*	3*	3*	2*	6*	4*	2*	4*
13 Nov 2015	2*	3*	3*	2*	6*	4*	2*	4*
14 Nov 2015	2*	3*	3*	2*	6*	4*	2*	4*
15 Nov 2015	2*	3*	3*	2*	6*	4*	2*	4*
16 Nov 2015	2*	3*	3*	2*	6*	4*	2*	4*
17 Nov 2015	6	3	4	2	5	6	2	3
18 Nov 2015	6	3	4	2	5	6	2	3
19 Nov 2015	13	3*	4*	2*	5*	8*	2*	4*
20 Nov 2015	13	3*	4*	2*	5*	8*	2*	4*
21 Nov 2015	13	3*	4*	2*	5*	8*	2*	4*
22 Nov 2015	13	3*	4*	2*	5*	8*	2*	4*
23 Nov 2015	13	3*	4*	2*	5*	8*	2*	4*
24 Nov 2015	15	4	4	2	6	8	2	3
25 Nov 2015	15	4	4	2	6	8	2	3
26 Nov 2015	20	4*	4*	2*	6*	11*	2*	3*
27 Nov 2015	20	4*	4*	2*	6*	11*	2*	3*
28 Nov 2015	20	4*	4*	2*	6*	11*	2*	3*
29 Nov 2015	20	4*	4*	2*	6*	11*	2*	3*
30 Nov 2015	20	4*	4*	2*	6*	11*	2*	3*

* 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 Nov 2015	22*	41	21	3*	2*	8*	41	13
02 Nov 2015	22*	41	21	3*	2*	8*	41	13
03 Nov 2015	14	25	14	3	2	6	25	9
04 Nov 2015	14	25	14	3	2	6	25	9
05 Nov 2015	12*	7	4	2*	2*	4*	7	4
06 Nov 2015	12*	7	4	2*	2*	4*	7	4
07 Nov 2015	12*	5*	3*	2*	2*	4*	5*	5*
08 Nov 2015	12*	5*	3*	2*	2*	4*	5*	5*
09 Nov 2015	12*	5*	3*	2*	2*	4*	5*	5*
10 Nov 2015	11	5	5	3	2	6	6	7
11 Nov 2015	11	5	5	3	2	6	6	7
12 Nov 2015	8*	4*	4*	4*	3*	6*	3*	6*
13 Nov 2015	8*	4*	4*	4*	3*	6*	3*	6*
14 Nov 2015	8*	4*	4*	4*	3*	6*	3*	6*
15 Nov 2015	8*	4*	4*	4*	3*	6*	3*	6*
16 Nov 2015	8*	4*	4*	4*	3*	6*	3*	6*
17 Nov 2015	14	3	3	3	2	6	3	5
18 Nov 2015	14	3	3	3	2	6	3	5
19 Nov 2015	24	4*	4*	4*	3*	8*	3*	6*
20 Nov 2015	24	4*	4*	4*	3*	8*	3*	6*
21 Nov 2015	24	4*	4*	4*	3*	8*	3*	6*
22 Nov 2015	24	4*	4*	4*	3*	8*	3*	6*
23 Nov 2015	24	4*	4*	4*	3*	8*	3*	6*
24 Nov 2015	32	6	3	3	5	9	3	8
25 Nov 2015	36	6	3	3	5	9	3	8
26 Nov 2015	31	6*	4*	3*	7*	10*	3*	8*
27 Nov 2015	31	6*	4*	3*	7*	10*	3*	8*
28 Nov 2015	31	6*	4*	3*	7*	10*	3*	8*
29 Nov 2015	31	6*	4*	3*	7*	10*	3*	8*
30 Nov 2015	31	6*	4*	3*	7*	10*	3*	8*

* 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
03 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
19 Nov 2015	IC	ns	ns	ns	ns	ns	ns	ns
24 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

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
03 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
19 Nov 2015	IC	ns	ns	ns	ns	ns	ns	ns
24 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

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
03 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Nov 2015	E	IC	IC	IC	IC	IC	IC	IC
19 Nov 2015	IC	ns	ns	ns	ns	ns	ns	ns
24 Nov 2015	E	IC	IC	IC	IC	IC	IC	IC
25 Nov 2015	IC	ns	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

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
03 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Nov 2015	E	IC	IC	IC	IC	IC	IC	IC
19 Nov 2015	IC	ns	ns	ns	ns	ns	ns	ns
24 Nov 2015	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

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	03 Nov 2015	1135	200e	12e	100e	0.06
S0	10 Nov 2015	1130	440	50	82	0.11
S0	17 Nov 2015	1055	360e	60e	50	0.17
S0	24 Nov 2015	1057	2e	<2	4e	1.00
S2	03 Nov 2015	1255	800e	82	440	0.10
S2	10 Nov 2015	950	20e	4e	12e	0.20
S2	17 Nov 2015	1210	1000e	120	54	0.12
S2	24 Nov 2015	1205	2e	<2	<2	1.00
S3	03 Nov 2015	1215	<2	<2	4e	1.00
S3	10 Nov 2015	915	<20	8e	12e	0.40
S3	17 Nov 2015	1135	800e	160e	28e	0.20
S3	24 Nov 2015	1125	40e	26e	100e	0.65
S4	03 Nov 2015	1110	<20	2e	<2	0.10
S4	10 Nov 2015	801	<20	<2	10e	0.10
S4	17 Nov 2015	935	2200e	280e	120e	0.13
S4	19 Nov 2015	740	200e	84	32e	0.42
S4	24 Nov 2015	846	120e	32e	130e	0.27
S4	25 Nov 2015	1436	ns	ns	82	ns
S5	03 Nov 2015	921	40e	6e	<2	0.15
S5	10 Nov 2015	938	<20	6e	8e	0.30
S5	17 Nov 2015	1112	<20	<2	2e	0.10
S5	24 Nov 2015	953	<2	4e	48	2.00
S6	03 Nov 2015	932	<20	4e	2e	0.20
S6	10 Nov 2015	923	<200	8e	24e	0.04
S6	17 Nov 2015	1101	<20	6e	2e	0.30
S6	24 Nov 2015	1004	4e	<2	<2	0.50
S8	03 Nov 2015	850	2e	<2	<2	1.00
S8	10 Nov 2015	1049	<20	2e	14e	0.10
S8	17 Nov 2015	1149	<2	<2	<2	1.00
S8	24 Nov 2015	1115	<20	<2	2e	0.10
S9	03 Nov 2015	831	10e	10e	<2	1.00
S9	10 Nov 2015	1112	20e	6e	6e	0.30
S9	17 Nov 2015	1214	120e	2e	<2	0.02
S9	24 Nov 2015	1141	20e	12e	80	0.60
S10	03 Nov 2015	1115	8e	<2	<2	0.25
S10	10 Nov 2015	808	80e	40	46	0.50
S10	17 Nov 2015	940	180e	20e	8e	0.11
S10	24 Nov 2015	847	60e	8e	14e	0.13
S11	03 Nov 2015	927	20e	2e	2e	0.10
S11	10 Nov 2015	929	<20	4e	18e	0.20

Station	Date	Time	Total	Fecal	Entero	F:T
S11	17 Nov 2015	1105	<20	<2	<2	0.10
S11	24 Nov 2015	959	<2	<2	<2	1.00
S12	03 Nov 2015	946	<20	<2	<2	0.10
S12	10 Nov 2015	903	20e	6e	26e	0.30
S12	17 Nov 2015	1041	<20	2e	<2	0.10
S12	24 Nov 2015	928	<20	<2	32e	0.10

ns = not sampled

Comments

Station	Date	Depth	Parameter	Comments
S4	19 Nov 2015			Resample
S4	25 Nov 2015			Resample

Table 2.9

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

Station	Date	Parameter	Value
S0	03 Nov 2015	Arrive Time	1135
S0	03 Nov 2015	Weather	Cloudy
S0	03 Nov 2015	Wind Speed (kts)	9.1
S0	03 Nov 2015	Wind Dir	NE
S0	03 Nov 2015	Animal Life	>20 Shorebirds; 6 Pelicans
S0	03 Nov 2015	Floatables	None
S0	03 Nov 2015	Water Color	Green
S0	03 Nov 2015	Current Direction	N
S0	03 Nov 2015	Water Temp (C)	14.9
S0	03 Nov 2015	Wave Height Low (ft)	3
S0	03 Nov 2015	High Tide (ft)	4.1
S0	03 Nov 2015	High Tide Time	1440
S0	03 Nov 2015	Low Tide (ft)	2.7
S0	03 Nov 2015	Low Tide Time	919
S0	03 Nov 2015	Comments	Kelp; Water clear; No flow from stormdrain
S0	10 Nov 2015	Arrive Time	1130
S0	10 Nov 2015	Weather	Partly Cloudy
S0	10 Nov 2015	Wind Speed (kts)	16.2
S0	10 Nov 2015	Wind Dir	NE
S0	10 Nov 2015	Animal Life	5 Shorebirds
S0	10 Nov 2015	Floatables	None
S0	10 Nov 2015	Water Color	Green
S0	10 Nov 2015	Current Direction	S
S0	10 Nov 2015	Water Temp (C)	15.8
S0	10 Nov 2015	Wave Height Low (ft)	5
S0	10 Nov 2015	High Tide (ft)	5.7
S0	10 Nov 2015	High Tide Time	737
S0	10 Nov 2015	Low Tide (ft)	0
S0	10 Nov 2015	Low Tide Time	1426
S0	10 Nov 2015	Comments	Kelp; Water clear; Flow from stormdrain 0.5 L/sec
S0	17 Nov 2015	Arrive Time	1055
S0	17 Nov 2015	Weather	Sunny
S0	17 Nov 2015	Wind Speed (kts)	7.3
S0	17 Nov 2015	Wind Dir	NW
S0	17 Nov 2015	Animal Life	3 Dogs; >20 Seagulls
S0	17 Nov 2015	Floatables	None
S0	17 Nov 2015	Water Color	Green
S0	17 Nov 2015	Current Direction	S
S0	17 Nov 2015	Water Temp (C)	14.2
S0	17 Nov 2015	Wave Height Low (ft)	2
S0	17 Nov 2015	High Tide (ft)	4.7
S0	17 Nov 2015	High Tide Time	1150
S0	17 Nov 2015	Low Tide (ft)	2.8
S0	17 Nov 2015	Low Tide Time	555
S0	17 Nov 2015	Comments	Kelp; Water clear; Flow from stormdrain 0.5 L/sec
S0	24 Nov 2015	Arrive Time	1057
S0	24 Nov 2015	Weather	Sunny
S0	24 Nov 2015	Wind Speed (kts)	3.2

Station	Date	Parameter	Value
S0	24 Nov 2015	Wind Dir	SW
S0	24 Nov 2015	Animal Life	3 Dogs; >20 Seagulls
S0	24 Nov 2015	Floatables	None
S0	24 Nov 2015	Water Color	Green
S0	24 Nov 2015	Current Direction	N
S0	24 Nov 2015	Water Temp (C)	16.5
S0	24 Nov 2015	Wave Height Low (ft)	2
S0	24 Nov 2015	High Tide (ft)	6.6
S0	24 Nov 2015	High Tide Time	707
S0	24 Nov 2015	Low Tide (ft)	-1
S0	24 Nov 2015	Low Tide Time	1404
S0	24 Nov 2015	Comments	Kelp; Water turbid; Flow from stormdrain 1 L/sec
S2	03 Nov 2015	Arrive Time	1255
S2	03 Nov 2015	Weather	Cloudy
S2	03 Nov 2015	Wind Speed (kts)	8.8
S2	03 Nov 2015	Wind Dir	NE
S2	03 Nov 2015	Animal Life	>20 Shorebirds; 3 Pelicans
S2	03 Nov 2015	Floatables	None
S2	03 Nov 2015	Water Color	Green
S2	03 Nov 2015	Current Direction	N
S2	03 Nov 2015	Water Temp (C)	15.3
S2	03 Nov 2015	Wave Height Low (ft)	3
S2	03 Nov 2015	High Tide (ft)	4.1
S2	03 Nov 2015	High Tide Time	1440
S2	03 Nov 2015	Low Tide (ft)	2.7
S2	03 Nov 2015	Low Tide Time	919
S2	03 Nov 2015	Comments	Kelp; 15 Persons; Water clear; No flow from stormdrain
S2	10 Nov 2015	Arrive Time	950
S2	10 Nov 2015	Weather	Partly Cloudy
S2	10 Nov 2015	Wind Speed (kts)	9.4
S2	10 Nov 2015	Wind Dir	NE
S2	10 Nov 2015	Animal Life	5 Shorebirds
S2	10 Nov 2015	Floatables	None
S2	10 Nov 2015	Water Color	Green
S2	10 Nov 2015	Current Direction	S
S2	10 Nov 2015	Water Temp (C)	15.8
S2	10 Nov 2015	Wave Height Low (ft)	5
S2	10 Nov 2015	High Tide (ft)	5.7
S2	10 Nov 2015	High Tide Time	737
S2	10 Nov 2015	Low Tide (ft)	0
S2	10 Nov 2015	Low Tide Time	1426
S2	10 Nov 2015	Comments	Kelp; Water clear; Flow from stormdrain 0.5 L/sec
S2	17 Nov 2015	Arrive Time	1210
S2	17 Nov 2015	Weather	Sunny
S2	17 Nov 2015	Wind Speed (kts)	7.8
S2	17 Nov 2015	Wind Dir	NW
S2	17 Nov 2015	Animal Life	>20 Seagulls
S2	17 Nov 2015	Floatables	None
S2	17 Nov 2015	Water Color	Green
S2	17 Nov 2015	Current Direction	S
S2	17 Nov 2015	Water Temp (C)	15.8
S2	17 Nov 2015	Wave Height Low (ft)	2

Station	Date	Parameter	Value
S2	17 Nov 2015	High Tide (ft)	4.7
S2	17 Nov 2015	High Tide Time	1150
S2	17 Nov 2015	Low Tide (ft)	2.8
S2	17 Nov 2015	Low Tide Time	555
S2	17 Nov 2015	Comments	Kelp; Water clear; No flow from stormdrain
S2	24 Nov 2015	Arrive Time	1205
S2	24 Nov 2015	Weather	Sunny
S2	24 Nov 2015	Wind Speed (kts)	6.7
S2	24 Nov 2015	Wind Dir	SW
S2	24 Nov 2015	Animal Life	3 Dogs; >20 Seagulls
S2	24 Nov 2015	Floatables	None
S2	24 Nov 2015	Water Color	Green
S2	24 Nov 2015	Current Direction	N
S2	24 Nov 2015	Water Temp (C)	18.5
S2	24 Nov 2015	Wave Height Low (ft)	2
S2	24 Nov 2015	High Tide (ft)	6.6
S2	24 Nov 2015	High Tide Time	707
S2	24 Nov 2015	Low Tide (ft)	-1
S2	24 Nov 2015	Low Tide Time	1404
S2	24 Nov 2015	Comments	Kelp; Water turbid; No flow from stormdrain
S3	03 Nov 2015	Arrive Time	1215
S3	03 Nov 2015	Weather	Cloudy
S3	03 Nov 2015	Wind Speed (kts)	9.6
S3	03 Nov 2015	Wind Dir	NE
S3	03 Nov 2015	Animal Life	15 Pelicans; >20 Seagulls
S3	03 Nov 2015	Floatables	None
S3	03 Nov 2015	Water Color	Green
S3	03 Nov 2015	Current Direction	N
S3	03 Nov 2015	Water Temp (C)	15
S3	03 Nov 2015	Wave Height Low (ft)	4
S3	03 Nov 2015	High Tide (ft)	4.1
S3	03 Nov 2015	High Tide Time	1440
S3	03 Nov 2015	Low Tide (ft)	2.7
S3	03 Nov 2015	Low Tide Time	919
S3	03 Nov 2015	Comments	Kelp; 15 Persons; Water clear; No flow from stormdrain
S3	10 Nov 2015	Arrive Time	915
S3	10 Nov 2015	Weather	Partly Cloudy
S3	10 Nov 2015	Wind Speed (kts)	8.5
S3	10 Nov 2015	Wind Dir	NE
S3	10 Nov 2015	Animal Life	5 Shorebirds
S3	10 Nov 2015	Floatables	None
S3	10 Nov 2015	Water Color	Green
S3	10 Nov 2015	Current Direction	S
S3	10 Nov 2015	Water Temp (C)	15.8
S3	10 Nov 2015	Wave Height Low (ft)	5
S3	10 Nov 2015	High Tide (ft)	5.7
S3	10 Nov 2015	High Tide Time	737
S3	10 Nov 2015	Low Tide (ft)	0
S3	10 Nov 2015	Low Tide Time	1426
S3	10 Nov 2015	Comments	Kelp; 1 Person; Water clear; Flow from stormdrain 0.5 L/sec
S3	17 Nov 2015	Arrive Time	1135

Station	Date	Parameter	Value
S3	17 Nov 2015	Weather	Sunny
S3	17 Nov 2015	Wind Speed (kts)	5.2
S3	17 Nov 2015	Wind Dir	NW
S3	17 Nov 2015	Animal Life	1 Dog; >20 Seagulls
S3	17 Nov 2015	Floatables	None
S3	17 Nov 2015	Water Color	Green
S3	17 Nov 2015	Current Direction	S
S3	17 Nov 2015	Water Temp (C)	17.6
S3	17 Nov 2015	Wave Height Low (ft)	2
S3	17 Nov 2015	High Tide (ft)	4.7
S3	17 Nov 2015	High Tide Time	1150
S3	17 Nov 2015	Low Tide (ft)	2.8
S3	17 Nov 2015	Low Tide Time	555
S3	17 Nov 2015	Comments	Kelp; 1 Person; Water clear; Flow from stormdrain 0.5 L/sec
S3	24 Nov 2015	Arrive Time	1125
S3	24 Nov 2015	Weather	Sunny
S3	24 Nov 2015	Wind Speed (kts)	8.6
S3	24 Nov 2015	Wind Dir	SW
S3	24 Nov 2015	Animal Life	1 Dog; >20 Seagulls
S3	24 Nov 2015	Floatables	None
S3	24 Nov 2015	Water Color	Green
S3	24 Nov 2015	Current Direction	N
S3	24 Nov 2015	Water Temp (C)	18.5
S3	24 Nov 2015	Wave Height Low (ft)	2
S3	24 Nov 2015	High Tide (ft)	6.6
S3	24 Nov 2015	High Tide Time	707
S3	24 Nov 2015	Low Tide (ft)	-1
S3	24 Nov 2015	Low Tide Time	1404
S3	24 Nov 2015	Comments	Kelp; Water turbid; No flow from stormdrain
S4	03 Nov 2015	Arrive Time	1110
S4	03 Nov 2015	Weather	Drizzle
S4	03 Nov 2015	Wind Speed (kts)	10.2
S4	03 Nov 2015	Wind Dir	NW
S4	03 Nov 2015	Animal Life	None
S4	03 Nov 2015	Floatables	None
S4	03 Nov 2015	Water Color	Green
S4	03 Nov 2015	Current Direction	N
S4	03 Nov 2015	Water Temp (C)	18.4
S4	03 Nov 2015	Wave Height Low (ft)	2
S4	03 Nov 2015	High Tide (ft)	4.1
S4	03 Nov 2015	High Tide Time	1440
S4	03 Nov 2015	Low Tide (ft)	2.7
S4	03 Nov 2015	Low Tide Time	919
S4	03 Nov 2015	Comments	Kelp; Seagrass; Water clear
S4	10 Nov 2015	Arrive Time	801
S4	10 Nov 2015	Weather	Cloudy
S4	10 Nov 2015	Wind Speed (kts)	9.3
S4	10 Nov 2015	Wind Dir	W
S4	10 Nov 2015	Animal Life	None
S4	10 Nov 2015	Floatables	None
S4	10 Nov 2015	Water Color	Green
S4	10 Nov 2015	Current Direction	S

Station	Date	Parameter	Value
S4	10 Nov 2015	Water Temp (C)	17.6
S4	10 Nov 2015	Wave Height Low (ft)	3
S4	10 Nov 2015	High Tide (ft)	5.7
S4	10 Nov 2015	High Tide Time	737
S4	10 Nov 2015	Low Tide (ft)	0
S4	10 Nov 2015	Low Tide Time	1426
S4	10 Nov 2015	Comments	Kelp; Seagrass; Water clear
S4	17 Nov 2015	Arrive Time	935
S4	17 Nov 2015	Weather	Sunny
S4	17 Nov 2015	Wind Speed (kts)	3.1
S4	17 Nov 2015	Wind Dir	E
S4	17 Nov 2015	Animal Life	None
S4	17 Nov 2015	Floatables	None
S4	17 Nov 2015	Water Color	Green
S4	17 Nov 2015	Current Direction	S
S4	17 Nov 2015	Water Temp (C)	18.6
S4	17 Nov 2015	Wave Height Low (ft)	2
S4	17 Nov 2015	High Tide (ft)	4.7
S4	17 Nov 2015	High Tide Time	1150
S4	17 Nov 2015	Low Tide (ft)	2.8
S4	17 Nov 2015	Low Tide Time	555
S4	17 Nov 2015	Comments	Kelp; Seagrass; Water clear
S4	19 Nov 2015	Arrive Time	740
S4	19 Nov 2015	Weather	Sunny
S4	19 Nov 2015	Wind Speed (kts)	3
S4	19 Nov 2015	Wind Dir	E
S4	19 Nov 2015	Animal Life	None
S4	19 Nov 2015	Floatables	None
S4	19 Nov 2015	Water Color	Green
S4	19 Nov 2015	Current Direction	E
S4	19 Nov 2015	Water Temp (C)	17.5
S4	19 Nov 2015	Wave Height Low (ft)	3
S4	19 Nov 2015	High Tide (ft)	4.2
S4	19 Nov 2015	High Tide Time	338
S4	19 Nov 2015	Low Tide (ft)	2.4
S4	19 Nov 2015	Low Tide Time	925
S4	19 Nov 2015	Comments	Kelp; Seagrass; Water turbid
S4	24 Nov 2015	Arrive Time	846
S4	24 Nov 2015	Weather	Sunny
S4	24 Nov 2015	Wind Speed (kts)	1.5
S4	24 Nov 2015	Wind Dir	NW
S4	24 Nov 2015	Animal Life	None
S4	24 Nov 2015	Floatables	None
S4	24 Nov 2015	Water Color	Green
S4	24 Nov 2015	Current Direction	NW
S4	24 Nov 2015	Water Temp (C)	18.2
S4	24 Nov 2015	Wave Height Low (ft)	2
S4	24 Nov 2015	High Tide (ft)	6.6
S4	24 Nov 2015	High Tide Time	707
S4	24 Nov 2015	Low Tide (ft)	-1
S4	24 Nov 2015	Low Tide Time	1404
S4	24 Nov 2015	Comments	Kelp; Seagrass; Water clear

Station	Date	Parameter	Value
S4	25 Nov 2015	Arrive Time	1436
S4	25 Nov 2015	Weather	Partly Cloudy
S4	25 Nov 2015	Wind Speed (kts)	8
S4	25 Nov 2015	Wind Dir	SW
S4	25 Nov 2015	Animal Life	1 Dead seagull
S4	25 Nov 2015	Floatables	None
S4	25 Nov 2015	Water Color	Green
S4	25 Nov 2015	Current Direction	N
S4	25 Nov 2015	Water Temp (C)	20.6
S4	25 Nov 2015	Wave Height Low (ft)	1
S4	25 Nov 2015	High Tide (ft)	4.4
S4	25 Nov 2015	High Tide Time	2100
S4	25 Nov 2015	Low Tide (ft)	-1.2
S4	25 Nov 2015	Low Tide Time	1449
S4	25 Nov 2015	Comments	Kelp; Seagrass; Water turbid; Plastic debris
S5	03 Nov 2015	Arrive Time	921
S5	03 Nov 2015	Weather	Partly Cloudy
S5	03 Nov 2015	Wind Speed (kts)	8.7
S5	03 Nov 2015	Wind Dir	NW
S5	03 Nov 2015	Animal Life	1 Dead Large sea lion
S5	03 Nov 2015	Floatables	None
S5	03 Nov 2015	Water Color	Green
S5	03 Nov 2015	Current Direction	N
S5	03 Nov 2015	Water Temp (C)	19.6
S5	03 Nov 2015	Wave Height Low (ft)	2
S5	03 Nov 2015	High Tide (ft)	4
S5	03 Nov 2015	High Tide Time	401
S5	03 Nov 2015	Low Tide (ft)	2.7
S5	03 Nov 2015	Low Tide Time	919
S5	03 Nov 2015	Comments	Kelp; Seagrass; Water clear; Dead Sea Lion
S5	10 Nov 2015	Arrive Time	938
S5	10 Nov 2015	Weather	Sunny
S5	10 Nov 2015	Wind Speed (kts)	13.2
S5	10 Nov 2015	Wind Dir	NW
S5	10 Nov 2015	Animal Life	None
S5	10 Nov 2015	Floatables	None
S5	10 Nov 2015	Water Color	Green
S5	10 Nov 2015	Current Direction	S
S5	10 Nov 2015	Water Temp (C)	18
S5	10 Nov 2015	Wave Height Low (ft)	3
S5	10 Nov 2015	High Tide (ft)	5.7
S5	10 Nov 2015	High Tide Time	737
S5	10 Nov 2015	Low Tide (ft)	0
S5	10 Nov 2015	Low Tide Time	1426
S5	10 Nov 2015	Comments	Kelp; Seagrass; Water clear
S5	17 Nov 2015	Arrive Time	1112
S5	17 Nov 2015	Weather	Sunny
S5	17 Nov 2015	Wind Speed (kts)	3.1
S5	17 Nov 2015	Wind Dir	W
S5	17 Nov 2015	Animal Life	2 Dogs
S5	17 Nov 2015	Floatables	None

Station	Date	Parameter	Value
S5	17 Nov 2015	Water Color	Green
S5	17 Nov 2015	Current Direction	S
S5	17 Nov 2015	Water Temp (C)	17.4
S5	17 Nov 2015	Wave Height Low (ft)	2
S5	17 Nov 2015	High Tide (ft)	4.7
S5	17 Nov 2015	High Tide Time	1150
S5	17 Nov 2015	Low Tide (ft)	2.8
S5	17 Nov 2015	Low Tide Time	555
S5	17 Nov 2015	Comments	Kelp; Seagrass; 3 Persons; Water clear; Dead seal and dolphin in close proximity
S5	24 Nov 2015	Arrive Time	953
S5	24 Nov 2015	Weather	Sunny
S5	24 Nov 2015	Wind Speed (kts)	4.8
S5	24 Nov 2015	Wind Dir	W
S5	24 Nov 2015	Animal Life	None
S5	24 Nov 2015	Floatables	None
S5	24 Nov 2015	Water Color	Green
S5	24 Nov 2015	Current Direction	S
S5	24 Nov 2015	Water Temp (C)	21.4
S5	24 Nov 2015	Wave Height Low (ft)	1
S5	24 Nov 2015	High Tide (ft)	6.6
S5	24 Nov 2015	High Tide Time	707
S5	24 Nov 2015	Low Tide (ft)	-1
S5	24 Nov 2015	Low Tide Time	1404
S5	24 Nov 2015	Comments	Kelp; Seagrass; Water clear
S6	03 Nov 2015	Arrive Time	932
S6	03 Nov 2015	Weather	Cloudy
S6	03 Nov 2015	Wind Speed (kts)	10.1
S6	03 Nov 2015	Wind Dir	NW
S6	03 Nov 2015	Animal Life	None
S6	03 Nov 2015	Floatables	None
S6	03 Nov 2015	Water Color	Green
S6	03 Nov 2015	Current Direction	N
S6	03 Nov 2015	Water Temp (C)	19.2
S6	03 Nov 2015	Wave Height Low (ft)	2
S6	03 Nov 2015	High Tide (ft)	4.1
S6	03 Nov 2015	High Tide Time	1440
S6	03 Nov 2015	Low Tide (ft)	2.7
S6	03 Nov 2015	Low Tide Time	919
S6	03 Nov 2015	Comments	Kelp; Seagrass; 1 Person; Water clear
S6	10 Nov 2015	Arrive Time	923
S6	10 Nov 2015	Weather	Cloudy
S6	10 Nov 2015	Wind Speed (kts)	16.7
S6	10 Nov 2015	Wind Dir	W
S6	10 Nov 2015	Animal Life	None
S6	10 Nov 2015	Floatables	None
S6	10 Nov 2015	Water Color	Green
S6	10 Nov 2015	Current Direction	S
S6	10 Nov 2015	Water Temp (C)	18.6
S6	10 Nov 2015	Wave Height Low (ft)	4
S6	10 Nov 2015	High Tide (ft)	5.7
S6	10 Nov 2015	High Tide Time	737

Station	Date	Parameter	Value
S6	10 Nov 2015	Low Tide (ft)	0
S6	10 Nov 2015	Low Tide Time	1426
S6	10 Nov 2015	Comments	Kelp; Seagrass; Water clear
S6	17 Nov 2015	Arrive Time	1101
S6	17 Nov 2015	Weather	Sunny
S6	17 Nov 2015	Wind Speed (kts)	4.8
S6	17 Nov 2015	Wind Dir	W
S6	17 Nov 2015	Animal Life	None
S6	17 Nov 2015	Floatables	None
S6	17 Nov 2015	Water Color	Green
S6	17 Nov 2015	Current Direction	S
S6	17 Nov 2015	Water Temp (C)	17.6
S6	17 Nov 2015	Wave Height Low (ft)	2
S6	17 Nov 2015	High Tide (ft)	4.7
S6	17 Nov 2015	High Tide Time	1150
S6	17 Nov 2015	Low Tide (ft)	2.8
S6	17 Nov 2015	Low Tide Time	555
S6	17 Nov 2015	Comments	Kelp; Seagrass; Water clear
S6	24 Nov 2015	Arrive Time	1004
S6	24 Nov 2015	Weather	Sunny
S6	24 Nov 2015	Wind Speed (kts)	6.2
S6	24 Nov 2015	Wind Dir	W
S6	24 Nov 2015	Animal Life	None
S6	24 Nov 2015	Floatables	None
S6	24 Nov 2015	Water Color	Green
S6	24 Nov 2015	Current Direction	S
S6	24 Nov 2015	Water Temp (C)	18.4
S6	24 Nov 2015	Wave Height Low (ft)	2
S6	24 Nov 2015	High Tide (ft)	6.6
S6	24 Nov 2015	High Tide Time	707
S6	24 Nov 2015	Low Tide (ft)	-1
S6	24 Nov 2015	Low Tide Time	1404
S6	24 Nov 2015	Comments	Kelp; Seagrass; Water clear
S8	03 Nov 2015	Arrive Time	850
S8	03 Nov 2015	Weather	Partly Cloudy
S8	03 Nov 2015	Wind Speed (kts)	8.8
S8	03 Nov 2015	Wind Dir	NW
S8	03 Nov 2015	Animal Life	None
S8	03 Nov 2015	Floatables	None
S8	03 Nov 2015	Water Color	Green
S8	03 Nov 2015	Current Direction	N
S8	03 Nov 2015	Water Temp (C)	18
S8	03 Nov 2015	Wave Height Low (ft)	2
S8	03 Nov 2015	High Tide (ft)	4
S8	03 Nov 2015	High Tide Time	401
S8	03 Nov 2015	Low Tide (ft)	2.7
S8	03 Nov 2015	Low Tide Time	919
S8	03 Nov 2015	Comments	Kelp; Seagrass; Water clear
S8	10 Nov 2015	Arrive Time	1049
S8	10 Nov 2015	Weather	Sunny
S8	10 Nov 2015	Wind Speed (kts)	16.4

Station	Date	Parameter	Value
S8	10 Nov 2015	Wind Dir	NW
S8	10 Nov 2015	Animal Life	None
S8	10 Nov 2015	Floatables	None
S8	10 Nov 2015	Water Color	Green
S8	10 Nov 2015	Current Direction	S
S8	10 Nov 2015	Water Temp (C)	18.4
S8	10 Nov 2015	Wave Height Low (ft)	3
S8	10 Nov 2015	High Tide (ft)	5.7
S8	10 Nov 2015	High Tide Time	737
S8	10 Nov 2015	Low Tide (ft)	0
S8	10 Nov 2015	Low Tide Time	1426
S8	10 Nov 2015	Comments	Kelp; Water clear
S8	17 Nov 2015	Arrive Time	1149
S8	17 Nov 2015	Weather	Sunny
S8	17 Nov 2015	Wind Speed (kts)	7.1
S8	17 Nov 2015	Wind Dir	SW
S8	17 Nov 2015	Animal Life	None
S8	17 Nov 2015	Floatables	None
S8	17 Nov 2015	Water Color	Green
S8	17 Nov 2015	Current Direction	SW
S8	17 Nov 2015	Water Temp (C)	17.2
S8	17 Nov 2015	Wave Height Low (ft)	2
S8	17 Nov 2015	High Tide (ft)	4.7
S8	17 Nov 2015	High Tide Time	1150
S8	17 Nov 2015	Low Tide (ft)	2.8
S8	17 Nov 2015	Low Tide Time	555
S8	17 Nov 2015	Comments	Kelp; Seagrass; Water clear
S8	24 Nov 2015	Arrive Time	1115
S8	24 Nov 2015	Weather	Sunny
S8	24 Nov 2015	Wind Speed (kts)	6.4
S8	24 Nov 2015	Wind Dir	W
S8	24 Nov 2015	Animal Life	None
S8	24 Nov 2015	Floatables	None
S8	24 Nov 2015	Water Color	Green
S8	24 Nov 2015	Current Direction	S
S8	24 Nov 2015	Water Temp (C)	19.8
S8	24 Nov 2015	Wave Height Low (ft)	3
S8	24 Nov 2015	High Tide (ft)	6.6
S8	24 Nov 2015	High Tide Time	707
S8	24 Nov 2015	Low Tide (ft)	-1
S8	24 Nov 2015	Low Tide Time	1404
S8	24 Nov 2015	Comments	Kelp; Seagrass; Water clear
S9	03 Nov 2015	Arrive Time	831
S9	03 Nov 2015	Weather	Partly Cloudy
S9	03 Nov 2015	Wind Speed (kts)	10.4
S9	03 Nov 2015	Wind Dir	N
S9	03 Nov 2015	Animal Life	None
S9	03 Nov 2015	Floatables	None
S9	03 Nov 2015	Water Color	Green
S9	03 Nov 2015	Current Direction	N
S9	03 Nov 2015	Water Temp (C)	18.6
S9	03 Nov 2015	Wave Height Low (ft)	2

Station	Date	Parameter	Value
S9	03 Nov 2015	High Tide (ft)	4
S9	03 Nov 2015	High Tide Time	401
S9	03 Nov 2015	Low Tide (ft)	2.7
S9	03 Nov 2015	Low Tide Time	919
S9	03 Nov 2015	Comments	Kelp; Seagrass; 6 Joggers; 3 Persons; Water clear
S9	10 Nov 2015	Arrive Time	1112
S9	10 Nov 2015	Weather	Sunny
S9	10 Nov 2015	Wind Speed (kts)	14.5
S9	10 Nov 2015	Wind Dir	N
S9	10 Nov 2015	Animal Life	None
S9	10 Nov 2015	Floatables	None
S9	10 Nov 2015	Water Color	Green
S9	10 Nov 2015	Current Direction	S
S9	10 Nov 2015	Water Temp (C)	18.2
S9	10 Nov 2015	Wave Height Low (ft)	3
S9	10 Nov 2015	High Tide (ft)	5.7
S9	10 Nov 2015	High Tide Time	737
S9	10 Nov 2015	Low Tide (ft)	0
S9	10 Nov 2015	Low Tide Time	1426
S9	10 Nov 2015	Comments	Kelp; Water clear
S9	17 Nov 2015	Arrive Time	1214
S9	17 Nov 2015	Weather	Sunny
S9	17 Nov 2015	Wind Speed (kts)	4.2
S9	17 Nov 2015	Wind Dir	W
S9	17 Nov 2015	Animal Life	None
S9	17 Nov 2015	Floatables	None
S9	17 Nov 2015	Water Color	Green
S9	17 Nov 2015	Current Direction	S
S9	17 Nov 2015	Water Temp (C)	17.4
S9	17 Nov 2015	Wave Height Low (ft)	2
S9	17 Nov 2015	High Tide (ft)	4.7
S9	17 Nov 2015	High Tide Time	1150
S9	17 Nov 2015	Low Tide (ft)	2.8
S9	17 Nov 2015	Low Tide Time	555
S9	17 Nov 2015	Comments	Kelp; Seagrass; 2 Persons; Water clear
S9	24 Nov 2015	Arrive Time	1141
S9	24 Nov 2015	Weather	Partly Cloudy
S9	24 Nov 2015	Wind Speed (kts)	3.6
S9	24 Nov 2015	Wind Dir	W
S9	24 Nov 2015	Animal Life	None
S9	24 Nov 2015	Floatables	None
S9	24 Nov 2015	Water Color	Green
S9	24 Nov 2015	Current Direction	S
S9	24 Nov 2015	Water Temp (C)	19.6
S9	24 Nov 2015	Wave Height Low (ft)	2
S9	24 Nov 2015	High Tide (ft)	6.6
S9	24 Nov 2015	High Tide Time	707
S9	24 Nov 2015	Low Tide (ft)	-1
S9	24 Nov 2015	Low Tide Time	1404
S9	24 Nov 2015	Comments	Kelp; 5 Persons; Water clear
S10	03 Nov 2015	Arrive Time	1115

Station	Date	Parameter	Value
S10	03 Nov 2015	Weather	Cloudy
S10	03 Nov 2015	Wind Speed (kts)	10.8
S10	03 Nov 2015	Wind Dir	NW
S10	03 Nov 2015	Animal Life	None
S10	03 Nov 2015	Floatables	None
S10	03 Nov 2015	Water Color	Green
S10	03 Nov 2015	Current Direction	N
S10	03 Nov 2015	Water Temp (C)	18.6
S10	03 Nov 2015	Wave Height Low (ft)	2
S10	03 Nov 2015	High Tide (ft)	4.1
S10	03 Nov 2015	High Tide Time	1440
S10	03 Nov 2015	Low Tide (ft)	2.7
S10	03 Nov 2015	Low Tide Time	919
S10	03 Nov 2015	Comments	Kelp; Seagrass; Water clear
S10	10 Nov 2015	Arrive Time	808
S10	10 Nov 2015	Weather	Cloudy
S10	10 Nov 2015	Wind Speed (kts)	8.1
S10	10 Nov 2015	Wind Dir	W
S10	10 Nov 2015	Animal Life	None
S10	10 Nov 2015	Floatables	None
S10	10 Nov 2015	Water Color	Green
S10	10 Nov 2015	Current Direction	W
S10	10 Nov 2015	Water Temp (C)	17.2
S10	10 Nov 2015	Wave Height Low (ft)	3
S10	10 Nov 2015	High Tide (ft)	5.7
S10	10 Nov 2015	High Tide Time	737
S10	10 Nov 2015	Low Tide (ft)	0
S10	10 Nov 2015	Low Tide Time	1426
S10	10 Nov 2015	Comments	Kelp; Seagrass; Water clear
S10	17 Nov 2015	Arrive Time	940
S10	17 Nov 2015	Weather	Sunny
S10	17 Nov 2015	Wind Speed (kts)	3.3
S10	17 Nov 2015	Wind Dir	E
S10	17 Nov 2015	Animal Life	None
S10	17 Nov 2015	Floatables	None
S10	17 Nov 2015	Water Color	Green
S10	17 Nov 2015	Current Direction	S
S10	17 Nov 2015	Water Temp (C)	17
S10	17 Nov 2015	Wave Height Low (ft)	2
S10	17 Nov 2015	High Tide (ft)	4.7
S10	17 Nov 2015	High Tide Time	1150
S10	17 Nov 2015	Low Tide (ft)	2.8
S10	17 Nov 2015	Low Tide Time	555
S10	17 Nov 2015	Comments	Kelp; Seagrass; Water clear; Flow at dairy mart
S10	24 Nov 2015	Arrive Time	847
S10	24 Nov 2015	Weather	Sunny
S10	24 Nov 2015	Wind Speed (kts)	1.1
S10	24 Nov 2015	Wind Dir	N
S10	24 Nov 2015	Animal Life	None
S10	24 Nov 2015	Floatables	None
S10	24 Nov 2015	Water Color	Green
S10	24 Nov 2015	Current Direction	S

Station	Date	Parameter	Value
S10	24 Nov 2015	Water Temp (C)	18.8
S10	24 Nov 2015	Wave Height Low (ft)	2
S10	24 Nov 2015	High Tide (ft)	6.6
S10	24 Nov 2015	High Tide Time	707
S10	24 Nov 2015	Low Tide (ft)	-1
S10	24 Nov 2015	Low Tide Time	1404
S10	24 Nov 2015	Comments	Kelp; Seagrass; Water clear
S11	03 Nov 2015	Arrive Time	927
S11	03 Nov 2015	Weather	Partly Cloudy
S11	03 Nov 2015	Wind Speed (kts)	15.7
S11	03 Nov 2015	Wind Dir	NW
S11	03 Nov 2015	Animal Life	None
S11	03 Nov 2015	Floatables	None
S11	03 Nov 2015	Water Color	Green
S11	03 Nov 2015	Current Direction	N
S11	03 Nov 2015	Water Temp (C)	19.8
S11	03 Nov 2015	Wave Height Low (ft)	3
S11	03 Nov 2015	High Tide (ft)	4.1
S11	03 Nov 2015	High Tide Time	1440
S11	03 Nov 2015	Low Tide (ft)	2.7
S11	03 Nov 2015	Low Tide Time	919
S11	03 Nov 2015	Comments	Kelp; Seagrass; Water clear
S11	10 Nov 2015	Arrive Time	929
S11	10 Nov 2015	Weather	Partly Cloudy
S11	10 Nov 2015	Wind Speed (kts)	14.4
S11	10 Nov 2015	Wind Dir	NW
S11	10 Nov 2015	Animal Life	None
S11	10 Nov 2015	Floatables	None
S11	10 Nov 2015	Water Color	Green
S11	10 Nov 2015	Current Direction	S
S11	10 Nov 2015	Water Temp (C)	16.8
S11	10 Nov 2015	Wave Height Low (ft)	4
S11	10 Nov 2015	High Tide (ft)	5.7
S11	10 Nov 2015	High Tide Time	737
S11	10 Nov 2015	Low Tide (ft)	0
S11	10 Nov 2015	Low Tide Time	1426
S11	10 Nov 2015	Comments	Kelp; Seagrass; Water clear
S11	17 Nov 2015	Arrive Time	1105
S11	17 Nov 2015	Weather	Sunny
S11	17 Nov 2015	Wind Speed (kts)	3.3
S11	17 Nov 2015	Wind Dir	SW
S11	17 Nov 2015	Animal Life	None
S11	17 Nov 2015	Floatables	None
S11	17 Nov 2015	Water Color	Green
S11	17 Nov 2015	Current Direction	SW
S11	17 Nov 2015	Water Temp (C)	17
S11	17 Nov 2015	Wave Height Low (ft)	3
S11	17 Nov 2015	High Tide (ft)	4.7
S11	17 Nov 2015	High Tide Time	1150
S11	17 Nov 2015	Low Tide (ft)	2.8
S11	17 Nov 2015	Low Tide Time	555
S11	17 Nov 2015	Comments	Kelp; Seagrass; Water clear

Station	Date	Parameter	Value
S11	24 Nov 2015	Arrive Time	959
S11	24 Nov 2015	Weather	Sunny
S11	24 Nov 2015	Wind Speed (kts)	6.2
S11	24 Nov 2015	Wind Dir	W
S11	24 Nov 2015	Animal Life	None
S11	24 Nov 2015	Floatables	None
S11	24 Nov 2015	Water Color	Green
S11	24 Nov 2015	Current Direction	S
S11	24 Nov 2015	Water Temp (C)	20.6
S11	24 Nov 2015	Wave Height Low (ft)	3
S11	24 Nov 2015	High Tide (ft)	6.6
S11	24 Nov 2015	High Tide Time	707
S11	24 Nov 2015	Low Tide (ft)	-1
S11	24 Nov 2015	Low Tide Time	1404
S11	24 Nov 2015	Comments	Kelp; Seagrass; Water clear
S12	03 Nov 2015	Arrive Time	946
S12	03 Nov 2015	Weather	Partly Cloudy
S12	03 Nov 2015	Wind Speed (kts)	8.9
S12	03 Nov 2015	Wind Dir	NW
S12	03 Nov 2015	Animal Life	None
S12	03 Nov 2015	Floatables	None
S12	03 Nov 2015	Water Color	Green
S12	03 Nov 2015	Current Direction	N
S12	03 Nov 2015	Water Temp (C)	20.4
S12	03 Nov 2015	Wave Height Low (ft)	3
S12	03 Nov 2015	High Tide (ft)	4.1
S12	03 Nov 2015	High Tide Time	1440
S12	03 Nov 2015	Low Tide (ft)	2.7
S12	03 Nov 2015	Low Tide Time	919
S12	03 Nov 2015	Comments	Kelp; Seagrass; Water clear
S12	10 Nov 2015	Arrive Time	903
S12	10 Nov 2015	Weather	Cloudy
S12	10 Nov 2015	Wind Speed (kts)	9.7
S12	10 Nov 2015	Wind Dir	W
S12	10 Nov 2015	Animal Life	None
S12	10 Nov 2015	Floatables	None
S12	10 Nov 2015	Water Color	Green
S12	10 Nov 2015	Current Direction	S
S12	10 Nov 2015	Water Temp (C)	17.8
S12	10 Nov 2015	Wave Height Low (ft)	3
S12	10 Nov 2015	High Tide (ft)	5.7
S12	10 Nov 2015	High Tide Time	737
S12	10 Nov 2015	Low Tide (ft)	0
S12	10 Nov 2015	Low Tide Time	1426
S12	10 Nov 2015	Comments	Kelp; Seagrass; Water clear
S12	17 Nov 2015	Arrive Time	1041
S12	17 Nov 2015	Weather	Sunny
S12	17 Nov 2015	Wind Speed (kts)	3.8
S12	17 Nov 2015	Wind Dir	W
S12	17 Nov 2015	Animal Life	None
S12	17 Nov 2015	Floatables	None

Station	Date	Parameter	Value
S12	17 Nov 2015	Water Color	Green
S12	17 Nov 2015	Current Direction	S
S12	17 Nov 2015	Water Temp (C)	17.1
S12	17 Nov 2015	Wave Height Low (ft)	2
S12	17 Nov 2015	High Tide (ft)	4.7
S12	17 Nov 2015	High Tide Time	1150
S12	17 Nov 2015	Low Tide (ft)	2.8
S12	17 Nov 2015	Low Tide Time	555
S12	17 Nov 2015	Comments	Kelp; Seagrass; Water clear
S12	24 Nov 2015	Arrive Time	928
S12	24 Nov 2015	Weather	Sunny
S12	24 Nov 2015	Wind Speed (kts)	0.5
S12	24 Nov 2015	Wind Dir	NW
S12	24 Nov 2015	Animal Life	None
S12	24 Nov 2015	Floatables	None
S12	24 Nov 2015	Water Color	Green
S12	24 Nov 2015	Current Direction	S
S12	24 Nov 2015	Water Temp (C)	18.2
S12	24 Nov 2015	Wave Height Low (ft)	2
S12	24 Nov 2015	High Tide (ft)	6.6
S12	24 Nov 2015	High Tide Time	707
S12	24 Nov 2015	Low Tide (ft)	-1
S12	24 Nov 2015	Low Tide Time	1404
S12	24 Nov 2015	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 Nov 2015	26*	6*	5*	5*	12*	5*	14*
02 Nov 2015	26*	6*	5*	5*	12*	5*	14*
03 Nov 2015	26*	6*	5*	5*	12*	5*	14*
04 Nov 2015	26*	6*	5*	5*	12*	5*	14*
05 Nov 2015	26*	6*	5*	5*	12*	5*	14*
06 Nov 2015	18*	5*	3*	3*	9*	3*	16*
07 Nov 2015	30*	4*	3*	3*	6*	2*	34*
08 Nov 2015	30*	4*	3*	3*	6*	2*	34*
09 Nov 2015	30*	4*	3*	3*	6*	2*	34*
10 Nov 2015	30*	4*	3*	3*	6*	2*	34*
11 Nov 2015	30*	4*	3*	3*	6*	2*	34*
12 Nov 2015	22*	3*	2*	2*	3*	3*	34*
13 Nov 2015	22*	3*	2*	2*	3*	2*	35*
14 Nov 2015	22*	3*	2*	2*	3*	2*	35*
15 Nov 2015	22*	3*	2*	2*	3*	2*	35*
16 Nov 2015	22*	3*	2*	2*	3*	2*	35*
17 Nov 2015	22*	3*	2*	2*	3*	2*	35*
18 Nov 2015	22*	3*	2*	2*	3*	2*	35*
19 Nov 2015	22*	3*	2*	2*	3*	2*	35*
20 Nov 2015	26	4	3	3	4	5	26
21 Nov 2015	26	4	3	3	4	5	26
22 Nov 2015	26	4	3	3	4	5	26
23 Nov 2015	35*	4*	4*	3*	4*	6*	35*
24 Nov 2015	20	4	3	3	3	5	23
25 Nov 2015	24*	5*	4*	3*	3*	5*	25*
26 Nov 2015	24*	5*	4*	3*	3*	5*	25*
27 Nov 2015	24*	5*	4*	3*	3*	5*	25*
28 Nov 2015	24*	5*	4*	3*	3*	5*	25*
29 Nov 2015	24*	5*	4*	3*	3*	5*	25*
30 Nov 2015	56	4	3	3	3	4	50

* 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 Nov 2015	2*	2*	2*	2*	3*	3*	2*
02 Nov 2015	2*	2*	2*	2*	3*	3*	2*
03 Nov 2015	2*	2*	2*	2*	3*	3*	2*
04 Nov 2015	2*	2*	2*	2*	3*	3*	2*
05 Nov 2015	2*	2*	2*	2*	3*	3*	2*
06 Nov 2015	2*	2*	2*	2*	2*	2*	2*
07 Nov 2015	4*	2*	2*	2*	2*	3*	5*
08 Nov 2015	4*	2*	2*	2*	2*	3*	5*
09 Nov 2015	4*	2*	2*	2*	2*	3*	5*
10 Nov 2015	4*	2*	2*	2*	2*	3*	5*
11 Nov 2015	4*	2*	2*	2*	2*	3*	5*
12 Nov 2015	4*	2*	2*	2*	2*	3*	6*
13 Nov 2015	4*	2*	2*	2*	2*	3*	7*
14 Nov 2015	4*	2*	2*	2*	2*	3*	7*
15 Nov 2015	4*	2*	2*	2*	2*	3*	7*
16 Nov 2015	4*	2*	2*	2*	2*	3*	7*
17 Nov 2015	4*	2*	2*	2*	2*	3*	7*
18 Nov 2015	4*	2*	2*	2*	2*	3*	7*
19 Nov 2015	4*	2*	2*	2*	2*	3*	7*
20 Nov 2015	4	2	2	2	2	3	5
21 Nov 2015	4	2	2	2	2	3	5
22 Nov 2015	4	2	2	2	2	3	5
23 Nov 2015	4*	2*	2*	2*	2*	3*	7*
24 Nov 2015	4	2	2	2	2	3	5
25 Nov 2015	4*	2*	2*	2*	2*	3*	7*
26 Nov 2015	4*	2*	2*	2*	2*	3*	7*
27 Nov 2015	4*	2*	2*	2*	2*	3*	7*
28 Nov 2015	4*	2*	2*	2*	2*	3*	7*
29 Nov 2015	4*	2*	2*	2*	2*	3*	7*
30 Nov 2015	9	2	2	2	2	3	13

* 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 Nov 2015	4*	2*	2*	2*	2*	2*	3*
02 Nov 2015	4*	2*	2*	2*	2*	2*	3*
03 Nov 2015	4*	2*	2*	2*	2*	2*	3*
04 Nov 2015	4*	2*	2*	2*	2*	2*	3*
05 Nov 2015	4*	2*	2*	2*	2*	2*	3*
06 Nov 2015	4*	2*	2*	2*	2*	2*	3*
07 Nov 2015	4*	2*	2*	2*	2*	2*	3*
08 Nov 2015	4*	2*	2*	2*	2*	2*	3*
09 Nov 2015	4*	2*	2*	2*	2*	2*	3*
10 Nov 2015	4*	2*	2*	2*	2*	2*	3*
11 Nov 2015	4*	2*	2*	2*	2*	2*	3*
12 Nov 2015	4*	2*	2*	2*	2*	2*	3*
13 Nov 2015	3*	2*	2*	2*	2*	2*	3*
14 Nov 2015	3*	2*	2*	2*	2*	2*	3*
15 Nov 2015	3*	2*	2*	2*	2*	2*	3*
16 Nov 2015	3*	2*	2*	2*	2*	2*	3*
17 Nov 2015	3*	2*	2*	2*	2*	2*	3*
18 Nov 2015	3*	2*	2*	2*	2*	2*	3*
19 Nov 2015	3*	2*	2*	2*	2*	2*	3*
20 Nov 2015	3	2	2	2	2	2	3
21 Nov 2015	3	2	2	2	2	2	3
22 Nov 2015	3	2	2	2	2	2	3
23 Nov 2015	3*	2*	2*	2*	2*	2*	3*
24 Nov 2015	4	2	2	2	2	2	4
25 Nov 2015	3*	2*	2*	2*	2*	2*	4*
26 Nov 2015	3*	2*	2*	2*	2*	2*	4*
27 Nov 2015	3*	2*	2*	2*	2*	2*	4*
28 Nov 2015	3*	2*	2*	2*	2*	2*	4*
29 Nov 2015	3*	2*	2*	2*	2*	2*	4*
30 Nov 2015	6	2	2	2	2	2	6

* 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
07 Nov 2015	IC	IC	IC	IC	IC	IC	IC
12 Nov 2015	ns	ns	ns	ns	IC	ns	ns
13 Nov 2015	IC	IC	IC	IC	ns	IC	IC
20 Nov 2015	IC	IC	IC	IC	IC	IC	IC
24 Nov 2015	IC	IC	IC	IC	IC	IC	IC
30 Nov 2015	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

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
07 Nov 2015	IC	IC	IC	IC	IC	IC	IC
12 Nov 2015	ns	ns	ns	ns	IC	ns	ns
13 Nov 2015	IC	IC	IC	IC	ns	IC	IC
20 Nov 2015	IC	IC	IC	IC	IC	IC	IC
24 Nov 2015	IC	IC	IC	IC	IC	IC	IC
30 Nov 2015	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

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
07 Nov 2015	IC	IC	IC	IC	IC	IC	IC
12 Nov 2015	ns	ns	ns	ns	IC	ns	ns
13 Nov 2015	IC	IC	IC	IC	ns	IC	IC
20 Nov 2015	IC	IC	IC	IC	IC	IC	IC
24 Nov 2015	IC	IC	IC	IC	IC	IC	IC
30 Nov 2015	E	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

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
07 Nov 2015	IC	IC	IC	IC	IC	IC	IC
12 Nov 2015	ns	ns	ns	ns	IC	ns	ns
13 Nov 2015	IC	IC	IC	IC	ns	IC	IC
20 Nov 2015	IC	IC	IC	IC	IC	IC	IC
24 Nov 2015	IC	IC	IC	IC	IC	IC	IC
30 Nov 2015	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.8

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected; oil and grease samples (OG) and suspended solids (SUSO) data are reported as mg/L. Duplicates are indicated by *. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I19	07 Nov 2015	1113	2	80e	12e	<2	0.15	18.9	66.24	7.1	33.44	8.1	ns	ns
I19	07 Nov 2015	1113	6	120e	12e	<2	0.10	18.5	59.67	7.0	33.44	8.1	ns	ns
I19	07 Nov 2015	1113	11	220e	36e	6e	0.16	18.3	64.64	7.0	33.43	8.1	ns	ns
I19	13 Nov 2015	957	2	10e	4e	<2	0.40	18.2	71.64	7.5	33.50	8.2	<0.2	3.9
I19	13 Nov 2015	957	6	20e	4e	<2	0.20	18.1	71.03	7.4	33.50	8.2	ns	4.8
I19	13 Nov 2015	957	11	40e	4e	<2	0.10	18.0	69.38	7.5	33.50	8.2	ns	5.7
I19	20 Nov 2015	1110	2	<20	<2	<2	0.10	18.5	76.38	7.2	33.61	8.2	ns	ns
I19	20 Nov 2015	1110	6	100e	<2	<2	0.02	18.4	74.33	7.1	33.60	8.2	ns	ns
I19	20 Nov 2015	1110	11	34e	2e	<2	0.06	18.1	70.16	7.3	33.59	8.2	ns	ns
I19	24 Nov 2015	1438	2	<2	<2	2e	1.00	19.1	82.19	7.4	33.57	8.2	ns	ns
I19	24 Nov 2015	1438	6	2e	<2	<20	1.00	19.1	82.04	7.4	33.57	8.2	ns	ns
I19	24 Nov 2015	1438	11	<2	2e	<2	1.00	19.1	80.44	7.4	33.57	8.2	ns	ns
I19	30 Nov 2015	1036	2	240e	46	14e	0.19	17.7	70.87	7.5	33.59	8.2	ns	ns
I19	30 Nov 2015	1036	6	480	50	20e	0.10	17.6	70.48	7.5	33.59	8.2	ns	ns
I19	30 Nov 2015	1036	11	4400	400	120	0.09	17.4	71.34	7.6	33.54	8.2	ns	ns
I24	07 Nov 2015	1150	2	<2	<2	<2	1.00	19.0	75.68	6.9	33.47	8.1	ns	ns
I24	07 Nov 2015	1150	6	4e	<2	<2	0.50	18.9	75.13	6.9	33.47	8.1	ns	ns
I24	07 Nov 2015	1150	11	<2	<2	<2	1.00	18.8	74.73	6.8	33.46	8.1	ns	ns
I24	13 Nov 2015	929	2	<2	<2	<2	1.00	18.3	81.53	7.2	33.48	8.1	<0.2	2.7
I24	13 Nov 2015	929	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I24	13 Nov 2015	929	6	2e	2e	<2	1.00	18.3	81.64	7.2	33.48	8.2	ns	2.5
I24	13 Nov 2015	929	11	2e	<2	<2	1.00	18.3	81.45	7.2	33.48	8.2	ns	3.8
I24	20 Nov 2015	1128	2	<20	<2	<2	0.10	18.2	73.15	7.3	33.56	8.2	ns	ns
I24	20 Nov 2015	1128	6	<20	<2	<2	0.10	17.6	68.42	7.1	33.56	8.2	ns	ns
I24	20 Nov 2015	1128	11	20e	4e	<2	0.20	17.5	65.66	7.0	33.56	8.1	ns	ns
I24	24 Nov 2015	1456	2	<2	<2	<2	1.00	18.9	86.53	7.4	33.58	8.2	ns	ns
I24	24 Nov 2015	1456	6	2e	<2	2e	1.00	18.9	85.88	7.4	33.57	8.2	ns	ns
I24	24 Nov 2015	1456	11	16e	2e	<2	0.12	18.8	83.64	7.5	33.57	8.2	ns	ns
I24	30 Nov 2015	1054	2	2e	<2	<2	1.00	18.0	84.64	7.3	33.64	8.2	ns	ns
I24	30 Nov 2015	1054	6	<2	<2	2e	1.00	17.9	84.09	7.3	33.64	8.2	ns	ns
I24	30 Nov 2015	1054	11	2e	2e	<2	1.00	17.8	77.04	7.3	33.65	8.2	ns	ns
I25	07 Nov 2015	1203	2	<2	<2	<2	1.00	19.0	79.13	6.8	33.47	8.1	ns	ns
I25	07 Nov 2015	1203	6	<2	<2	<2	1.00	18.9	78.28	6.9	33.47	8.1	ns	ns
I25	07 Nov 2015	1203	9	<2	<2	<2	1.00	18.9	77.83	7.0	33.47	8.1	ns	ns
I25	13 Nov 2015	922	2	<2	<2	<2	1.00	18.4	85.22	7.3	33.48	8.2	<0.2	2.8

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I25	13 Nov 2015	922	6	<2	<2	<2	1.00	18.4	84.41	7.3	33.48	8.2	ns	3.2
I25	13 Nov 2015	922	9	<2	<2	<2	1.00	18.3	83.58	7.3	33.48	8.2	ns	2.9
I25	20 Nov 2015	1141	2	<20	<2	<2	0.10	18.1	85.31	7.0	33.57	8.2	ns	ns
I25	20 Nov 2015	1141	6	<20	<2	<2	0.10	17.6	76.87	6.9	33.57	8.1	ns	ns
I25	20 Nov 2015	1141	9	<20	<2	<2	0.10	17.6	64.89	6.4	33.57	8.1	ns	ns
I25	24 Nov 2015	1503	2	<2	<2	<2	1.00	18.9	86.34	7.4	33.58	8.2	ns	ns
I25	24 Nov 2015	1503	6	<2	<2	<2	1.00	18.8	86.54	7.4	33.58	8.2	ns	ns
I25	24 Nov 2015	1503	9	2e	<2	<2	1.00	18.8	86.45	7.4	33.58	8.2	ns	ns
I25	30 Nov 2015	1100	2	<2	<2	<2	1.00	18.1	84.61	7.3	33.64	8.2	ns	ns
I25	30 Nov 2015	1100	6	2e	2e	<2	1.00	18.0	84.12	7.3	33.64	8.2	ns	ns
I25	30 Nov 2015	1100	9	<2	2e	<2	1.00	18.0	80.99	7.4	33.64	8.2	ns	ns
I26	07 Nov 2015	1248	2	<2	<2	<2	1.00	19.1	82.09	7.1	33.47	8.1	ns	ns
I26	07 Nov 2015	1248	6	<2	<2	<2	1.00	18.9	80.34	7.0	33.46	8.1	ns	ns
I26	07 Nov 2015	1248	9	<2	<2	<2	1.00	18.9	79.31	7.0	33.46	8.1	ns	ns
I26	13 Nov 2015	909	2	<2	<2	<2	1.00	18.3	82.92	7.2	33.47	8.1	<0.2	<0.2
I26	13 Nov 2015	909	6	<2	<2	<2	1.00	18.3	82.81	7.3	33.47	8.1	ns	<0.2
I26	13 Nov 2015	909	9	<2	<2	<2	1.00	18.3	82.51	7.3	33.47	8.2	ns	3.3
I26	20 Nov 2015	1154	2	<20	<2	<2	0.10	18.3	88.56	7.1	33.56	8.2	ns	ns
I26	20 Nov 2015	1154	6	<2	<2	<2	1.00	17.9	84.33	7.0	33.57	8.2	ns	ns
I26	20 Nov 2015	1154	9	<2	<2	<2	1.00	17.9	80.42	7.0	33.57	8.2	ns	ns
I26	24 Nov 2015	1514	2	<2	<2	<2	1.00	18.8	85.35	7.4	33.58	8.2	ns	ns
I26	24 Nov 2015	1514	6	<2	<2	<2	1.00	18.8	85.33	7.5	33.58	8.2	ns	ns
I26	24 Nov 2015	1514	9	<2	<2	<2	1.00	18.8	85.25	7.4	33.58	8.2	ns	ns
I26	30 Nov 2015	1111	2	<2	<2	<2	1.00	18.1	81.39	7.3	33.63	8.2	ns	ns
I26	30 Nov 2015	1111	6	<2	<2	<2	1.00	18.1	80.14	7.3	33.63	8.2	ns	ns
I26	30 Nov 2015	1111	9	<2	<2	<2	1.00	18.1	79.40	7.4	33.63	8.2	ns	ns
I32	07 Nov 2015	1304	2	<2	<2	<2	1.00	19.1	80.91	7.1	33.47	8.1	ns	ns
I32	07 Nov 2015	1304	6	<2	<2	<2	1.00	19.0	79.53	7.1	33.47	8.1	ns	ns
I32	07 Nov 2015	1304	9	2e	<2	<2	1.00	18.6	70.72	7.1	33.47	8.1	ns	ns
I32	12 Nov 2015	1136	2	<2	<2	<2	1.00	18.6	78.41	7.4	33.49	8.2	<0.2	<0.2
I32	12 Nov 2015	1136	6	<2	<2	<2	1.00	18.6	73.27	7.3	33.49	8.2	ns	3.2
I32	12 Nov 2015	1136	9	<2	<2	<2	1.00	18.5	71.04	7.4	33.50	8.2	ns	5.0
I32	20 Nov 2015	1204	2	<20	<2	<2	0.10	18.2	85.23	7.3	33.58	8.2	ns	ns
I32	20 Nov 2015	1204	6	<2	<2	<2	1.00	18.0	79.48	7.3	33.58	8.2	ns	ns
I32	20 Nov 2015	1204	9	<2	<2	<2	1.00	18.0	79.89	7.4	33.60	8.2	ns	ns
I32	24 Nov 2015	1527	2	<2	<2	<2	1.00	19.3	84.80	7.3	33.61	8.2	ns	ns
I32	24 Nov 2015	1527	6	<2	<2	<2	1.00	19.3	84.93	7.3	33.61	8.2	ns	ns
I32	24 Nov 2015	1527	9	<2	<2	<2	1.00	19.3	84.40	7.2	33.61	8.2	ns	ns
I32	30 Nov 2015	1123	2	<2	<2	<2	1.00	17.8	79.81	7.4	33.65	8.2	ns	ns
I32	30 Nov 2015	1123	6	2e	<2	<2	1.00	17.7	79.57	7.5	33.65	8.2	ns	ns
I32	30 Nov 2015	1123	9	<2	<2	<2	1.00	17.6	79.81	7.5	33.65	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I39	07 Nov 2015	1045	2	<2	<20	<2	10.00	18.9	89.72	7.2	33.46	8.2	ns	ns
I39	07 Nov 2015	1045	12	<2	<2	<2	1.00	18.7	88.42	7.1	33.45	8.1	ns	ns
I39	07 Nov 2015	1045	18	<2	<2	<2	1.00	18.1	77.27	6.1	33.40	8.1	ns	ns
I39	13 Nov 2015	852	2	2e	<2	<2	1.00	18.2	87.57	7.4	33.46	8.2	<0.2	<0.2
I39	13 Nov 2015	852	12	<2	<2	<2	1.00	18.2	88.32	7.4	33.46	8.2	ns	<0.2
I39	13 Nov 2015	852	18	<2	<2	<2	1.00	18.0	87.51	7.1	33.42	8.2	ns	<0.2
I39	20 Nov 2015	1051	2	<200	<2	<2	0.01	18.2	89.23	7.1	33.57	8.2	ns	ns
I39	20 Nov 2015	1051	12	2e	<2	<2	1.00	18.0	88.18	7.0	33.56	8.2	ns	ns
I39	20 Nov 2015	1051	18	6e	2e	<2	0.33	17.4	87.50	6.5	33.50	8.1	ns	ns
I39	24 Nov 2015	1418	2	<2	<2	<2	1.00	19.0	83.87	7.2	33.59	8.2	ns	ns
I39	24 Nov 2015	1418	12	4e	<2	4e	0.50	18.6	84.58	7.4	33.56	8.2	ns	ns
I39	24 Nov 2015	1418	18	<2	<2	<2	1.00	18.6	82.93	7.3	33.57	8.2	ns	ns
I39	30 Nov 2015	1019	2	<2	<2	<2	1.00	18.1	85.83	7.2	33.64	8.2	ns	ns
I39	30 Nov 2015	1019	12	<2	<2	<2	1.00	18.1	85.77	7.3	33.64	8.2	ns	ns
I39	30 Nov 2015	1019	18	<2	<2	<2	1.00	18.1	85.93	7.2	33.64	8.2	ns	ns
I40	07 Nov 2015	1136	2	4e	<2	<2	0.50	18.9	66.02	7.1	33.47	8.1	ns	ns
I40	07 Nov 2015	1136	6	300e	18e	<2	0.06	18.7	62.62	6.9	33.47	8.1	ns	ns
I40	07 Nov 2015	1136	9	680	110	10e	0.16	18.6	59.93	7.0	33.46	8.1	ns	ns
I40	13 Nov 2015	946	2	2e	2e	<2	1.00	18.3	80.54	7.3	33.48	8.2	<0.2	<0.2
I40	13 Nov 2015	946	6	80e	34e	4e	0.42	18.0	70.77	7.4	33.45	8.2	ns	9.4
I40	13 Nov 2015	946	9	36e	<2	4e	0.06	18.0	60.57	7.4	33.48	8.2	ns	7.4
I40	20 Nov 2015	1120	2	<20	<2	<2	0.10	18.0	72.60	7.4	33.58	8.2	ns	ns
I40	20 Nov 2015	1120	6	<2	<2	<2	1.00	17.9	67.92	7.4	33.58	8.2	ns	ns
I40	20 Nov 2015	1120	9	2e	<2	<2	1.00	17.7	66.54	7.3	33.58	8.2	ns	ns
I40	24 Nov 2015	1448	2	2e	<2	<2	1.00	19.0	83.04	7.3	33.57	8.1	ns	ns
I40	24 Nov 2015	1448	6	<2	<2	<20	1.00	19.0	82.62	7.3	33.57	8.1	ns	ns
I40	24 Nov 2015	1448	9	8e	<2	4e	0.25	18.9	81.05	7.3	33.56	8.1	ns	ns
I40	30 Nov 2015	1047	2	640	180e	12e	0.28	17.6	75.42	7.6	33.59	8.2	ns	ns
I40	30 Nov 2015	1047	6	980	200e	48	0.20	17.5	70.70	7.5	33.59	8.2	ns	ns
I40	30 Nov 2015	1047	9	760	120e	32e	0.16	17.5	70.55	7.5	33.62	8.2	ns	ns

NA = not available

ns = not sampled

Table 3.9

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

Station	Date	Parameter	Value
I19	07 Nov 2015	Depth (m)	11
I19	07 Nov 2015	Arrive Time	1113
I19	07 Nov 2015	Depart Time	1128
I19	07 Nov 2015	Air Temp (C)	20
I19	07 Nov 2015	Weather	Partly Cloudy
I19	07 Nov 2015	Visibility (mi)	10
I19	07 Nov 2015	Wind Speed (kts)	9
I19	07 Nov 2015	Wind Dir	SE
I19	07 Nov 2015	Water Color	Green
I19	07 Nov 2015	Wave Ht Low (ft)	2
I19	07 Nov 2015	Wave Period (sec)	9
I19	07 Nov 2015	Sea State	Light chop
I19	07 Nov 2015	High Tide (ft)	5.12
I19	07 Nov 2015	High Tide Time	623
I19	07 Nov 2015	Low Tide (ft)	0.93
I19	07 Nov 2015	Low Tide Time	1252
I19	07 Nov 2015	Comments	
I19	13 Nov 2015	Depth (m)	12
I19	13 Nov 2015	Arrive Time	957
I19	13 Nov 2015	Depart Time	1004
I19	13 Nov 2015	Air Temp (C)	19
I19	13 Nov 2015	Weather	Clear
I19	13 Nov 2015	Visibility (mi)	12
I19	13 Nov 2015	Wind Speed (kts)	4
I19	13 Nov 2015	Wind Dir	W
I19	13 Nov 2015	Water Color	Green
I19	13 Nov 2015	Wave Ht Low (ft)	2
I19	13 Nov 2015	Wave Period (sec)	9
I19	13 Nov 2015	Sea State	Calm
I19	13 Nov 2015	High Tide (ft)	5.77
I19	13 Nov 2015	High Tide Time	859
I19	13 Nov 2015	Low Tide (ft)	-0.21
I19	13 Nov 2015	Low Tide Time	1611
I19	13 Nov 2015	Comments	
I19	20 Nov 2015	Depth (m)	11
I19	20 Nov 2015	Arrive Time	1110
I19	20 Nov 2015	Depart Time	1113
I19	20 Nov 2015	Air Temp (C)	19
I19	20 Nov 2015	Weather	Clear
I19	20 Nov 2015	Visibility (mi)	15
I19	20 Nov 2015	Wind Speed (kts)	2
I19	20 Nov 2015	Wind Dir	N
I19	20 Nov 2015	Water Color	Greenish-Blue
I19	20 Nov 2015	Wave Ht Low (ft)	2
I19	20 Nov 2015	Wave Period (sec)	7
I19	20 Nov 2015	Sea State	Calm
I19	20 Nov 2015	High Tide (ft)	4.72
I19	20 Nov 2015	High Tide Time	426
I19	20 Nov 2015	Low Tide (ft)	1.74

Station	Date	Parameter	Value
I19	20 Nov 2015	Low Tide Time	1041
I19	20 Nov 2015	Comments	Kelp debris
I19	24 Nov 2015	Depth (m)	10
I19	24 Nov 2015	Arrive Time	1438
I19	24 Nov 2015	Depart Time	1441
I19	24 Nov 2015	Air Temp (C)	18
I19	24 Nov 2015	Weather	Partly Cloudy
I19	24 Nov 2015	Visibility (mi)	6
I19	24 Nov 2015	Wind Speed (kts)	7
I19	24 Nov 2015	Wind Dir	S
I19	24 Nov 2015	Water Color	Green
I19	24 Nov 2015	Wave Ht Low (ft)	3
I19	24 Nov 2015	Wave Period (sec)	4
I19	24 Nov 2015	Sea State	Wind ripples
I19	24 Nov 2015	High Tide (ft)	6.64
I19	24 Nov 2015	High Tide Time	707
I19	24 Nov 2015	Low Tide (ft)	-0.97
I19	24 Nov 2015	Low Tide Time	1404
I19	24 Nov 2015	Comments	Fresh water lens on surface; Kelp debris; Did not get 10th meter within 0.05nm astronomical tides today
I19	30 Nov 2015	Depth (m)	12
I19	30 Nov 2015	Arrive Time	1036
I19	30 Nov 2015	Depart Time	1039
I19	30 Nov 2015	Air Temp (C)	16
I19	30 Nov 2015	Weather	Clear
I19	30 Nov 2015	Visibility (mi)	14
I19	30 Nov 2015	Wind Speed (kts)	5
I19	30 Nov 2015	Wind Dir	S
I19	30 Nov 2015	Water Color	Green
I19	30 Nov 2015	Wave Ht Low (ft)	3
I19	30 Nov 2015	Wave Period (sec)	16
I19	30 Nov 2015	Sea State	Wind ripples
I19	30 Nov 2015	High Tide (ft)	4.93
I19	30 Nov 2015	High Tide Time	1123
I19	30 Nov 2015	Low Tide (ft)	2.5
I19	30 Nov 2015	Low Tide Time	536
I19	30 Nov 2015	Comments	Kelp debris
I24	07 Nov 2015	Depth (m)	10
I24	07 Nov 2015	Arrive Time	1150
I24	07 Nov 2015	Depart Time	1156
I24	07 Nov 2015	Air Temp (C)	20
I24	07 Nov 2015	Weather	Partly Cloudy
I24	07 Nov 2015	Visibility (mi)	10
I24	07 Nov 2015	Wind Speed (kts)	12
I24	07 Nov 2015	Wind Dir	NW
I24	07 Nov 2015	Water Color	Green
I24	07 Nov 2015	Wave Ht Low (ft)	2
I24	07 Nov 2015	Wave Period (sec)	9
I24	07 Nov 2015	Sea State	Heavy chop
I24	07 Nov 2015	High Tide (ft)	5.12
I24	07 Nov 2015	High Tide Time	623
I24	07 Nov 2015	Low Tide (ft)	0.93

Station	Date	Parameter	Value
I24	07 Nov 2015	Low Tide Time	1252
I24	07 Nov 2015	Comments	
I24	13 Nov 2015	Depth (m)	12
I24	13 Nov 2015	Arrive Time	929
I24	13 Nov 2015	Depart Time	933
I24	13 Nov 2015	Air Temp (C)	18
I24	13 Nov 2015	Weather	Clear
I24	13 Nov 2015	Visibility (mi)	12
I24	13 Nov 2015	Wind Speed (kts)	3
I24	13 Nov 2015	Wind Dir	N
I24	13 Nov 2015	Water Color	Green
I24	13 Nov 2015	Wave Ht Low (ft)	2
I24	13 Nov 2015	Wave Period (sec)	9
I24	13 Nov 2015	Sea State	Calm
I24	13 Nov 2015	High Tide (ft)	5.77
I24	13 Nov 2015	High Tide Time	859
I24	13 Nov 2015	Low Tide (ft)	-0.21
I24	13 Nov 2015	Low Tide Time	1611
I24	13 Nov 2015	Comments	
I24	20 Nov 2015	Depth (m)	10
I24	20 Nov 2015	Arrive Time	1128
I24	20 Nov 2015	Depart Time	1134
I24	20 Nov 2015	Air Temp (C)	19
I24	20 Nov 2015	Weather	Clear
I24	20 Nov 2015	Visibility (mi)	15
I24	20 Nov 2015	Wind Speed (kts)	4
I24	20 Nov 2015	Wind Dir	E
I24	20 Nov 2015	Water Color	Green
I24	20 Nov 2015	Wave Ht Low (ft)	2
I24	20 Nov 2015	Wave Period (sec)	7
I24	20 Nov 2015	Sea State	Calm
I24	20 Nov 2015	High Tide (ft)	4.72
I24	20 Nov 2015	High Tide Time	426
I24	20 Nov 2015	Low Tide (ft)	1.74
I24	20 Nov 2015	Low Tide Time	1041
I24	20 Nov 2015	Comments	Kelp debris
I24	24 Nov 2015	Depth (m)	9
I24	24 Nov 2015	Arrive Time	1456
I24	24 Nov 2015	Depart Time	1500
I24	24 Nov 2015	Air Temp (C)	17
I24	24 Nov 2015	Weather	Partly Cloudy
I24	24 Nov 2015	Visibility (mi)	6
I24	24 Nov 2015	Wind Speed (kts)	6
I24	24 Nov 2015	Wind Dir	NE
I24	24 Nov 2015	Water Color	Green
I24	24 Nov 2015	Wave Ht Low (ft)	3
I24	24 Nov 2015	Wave Period (sec)	4
I24	24 Nov 2015	Sea State	Heavy chop
I24	24 Nov 2015	High Tide (ft)	6.64
I24	24 Nov 2015	High Tide Time	707
I24	24 Nov 2015	Low Tide (ft)	-0.97
I24	24 Nov 2015	Low Tide Time	1404

Station	Date	Parameter	Value
I24	24 Nov 2015	Comments	Fresh water lens on surface; Kelp debris
I24	30 Nov 2015	Depth (m)	11
I24	30 Nov 2015	Arrive Time	1054
I24	30 Nov 2015	Depart Time	1057
I24	30 Nov 2015	Air Temp (C)	16
I24	30 Nov 2015	Weather	Clear
I24	30 Nov 2015	Visibility (mi)	14
I24	30 Nov 2015	Wind Speed (kts)	6
I24	30 Nov 2015	Wind Dir	N
I24	30 Nov 2015	Water Color	Green
I24	30 Nov 2015	Wave Ht Low (ft)	3
I24	30 Nov 2015	Wave Period (sec)	16
I24	30 Nov 2015	Sea State	Wind ripples
I24	30 Nov 2015	High Tide (ft)	4.93
I24	30 Nov 2015	High Tide Time	1123
I24	30 Nov 2015	Low Tide (ft)	2.5
I24	30 Nov 2015	Low Tide Time	536
I24	30 Nov 2015	Comments	
I25	07 Nov 2015	Depth (m)	9
I25	07 Nov 2015	Arrive Time	1203
I25	07 Nov 2015	Depart Time	1224
I25	07 Nov 2015	Air Temp (C)	20
I25	07 Nov 2015	Weather	Partly Cloudy
I25	07 Nov 2015	Visibility (mi)	10
I25	07 Nov 2015	Wind Speed (kts)	11
I25	07 Nov 2015	Wind Dir	N
I25	07 Nov 2015	Water Color	Green
I25	07 Nov 2015	Wave Ht Low (ft)	2
I25	07 Nov 2015	Wave Period (sec)	9
I25	07 Nov 2015	Sea State	Heavy chop
I25	07 Nov 2015	High Tide (ft)	5.12
I25	07 Nov 2015	High Tide Time	623
I25	07 Nov 2015	Low Tide (ft)	0.93
I25	07 Nov 2015	Low Tide Time	1252
I25	07 Nov 2015	Comments	Could not get depth at station
I25	13 Nov 2015	Depth (m)	11
I25	13 Nov 2015	Arrive Time	922
I25	13 Nov 2015	Depart Time	925
I25	13 Nov 2015	Air Temp (C)	18
I25	13 Nov 2015	Weather	Clear
I25	13 Nov 2015	Visibility (mi)	12
I25	13 Nov 2015	Wind Speed (kts)	3
I25	13 Nov 2015	Wind Dir	NE
I25	13 Nov 2015	Water Color	Green
I25	13 Nov 2015	Wave Ht Low (ft)	2
I25	13 Nov 2015	Wave Period (sec)	9
I25	13 Nov 2015	Sea State	Calm
I25	13 Nov 2015	High Tide (ft)	5.77
I25	13 Nov 2015	High Tide Time	859
I25	13 Nov 2015	Low Tide (ft)	-0.21
I25	13 Nov 2015	Low Tide Time	1611
I25	13 Nov 2015	Comments	

Station	Date	Parameter	Value
I25	20 Nov 2015	Depth (m)	9
I25	20 Nov 2015	Arrive Time	1141
I25	20 Nov 2015	Depart Time	1147
I25	20 Nov 2015	Air Temp (C)	19
I25	20 Nov 2015	Weather	Clear
I25	20 Nov 2015	Visibility (mi)	15
I25	20 Nov 2015	Wind Speed (kts)	3
I25	20 Nov 2015	Wind Dir	W
I25	20 Nov 2015	Water Color	Green
I25	20 Nov 2015	Wave Ht Low (ft)	2
I25	20 Nov 2015	Wave Period (sec)	7
I25	20 Nov 2015	Sea State	Calm
I25	20 Nov 2015	High Tide (ft)	4.72
I25	20 Nov 2015	High Tide Time	426
I25	20 Nov 2015	Low Tide (ft)	1.74
I25	20 Nov 2015	Low Tide Time	1041
I25	20 Nov 2015	Comments	
I25	24 Nov 2015	Depth (m)	9
I25	24 Nov 2015	Arrive Time	1503
I25	24 Nov 2015	Depart Time	1510
I25	24 Nov 2015	Air Temp (C)	17
I25	24 Nov 2015	Weather	Partly Cloudy
I25	24 Nov 2015	Visibility (mi)	6
I25	24 Nov 2015	Wind Speed (kts)	6
I25	24 Nov 2015	Wind Dir	S
I25	24 Nov 2015	Water Color	Green
I25	24 Nov 2015	Wave Ht Low (ft)	3
I25	24 Nov 2015	Wave Period (sec)	4
I25	24 Nov 2015	Sea State	Heavy chop
I25	24 Nov 2015	High Tide (ft)	6.64
I25	24 Nov 2015	High Tide Time	707
I25	24 Nov 2015	Low Tide (ft)	-0.97
I25	24 Nov 2015	Low Tide Time	1404
I25	24 Nov 2015	Comments	Did not get 9th meter within 0.05nm astronomical tides today; Kelp debris
I25	30 Nov 2015	Depth (m)	10
I25	30 Nov 2015	Arrive Time	1100
I25	30 Nov 2015	Depart Time	1104
I25	30 Nov 2015	Air Temp (C)	16
I25	30 Nov 2015	Weather	Clear
I25	30 Nov 2015	Visibility (mi)	14
I25	30 Nov 2015	Wind Speed (kts)	4
I25	30 Nov 2015	Wind Dir	W
I25	30 Nov 2015	Water Color	Green
I25	30 Nov 2015	Wave Ht Low (ft)	3
I25	30 Nov 2015	Wave Period (sec)	16
I25	30 Nov 2015	Sea State	Wind ripples
I25	30 Nov 2015	High Tide (ft)	4.93
I25	30 Nov 2015	High Tide Time	1123
I25	30 Nov 2015	Low Tide (ft)	2.5
I25	30 Nov 2015	Low Tide Time	536
I25	30 Nov 2015	Comments	

Station	Date	Parameter	Value
I26	07 Nov 2015	Depth (m)	10
I26	07 Nov 2015	Arrive Time	1248
I26	07 Nov 2015	Depart Time	1254
I26	07 Nov 2015	Air Temp (C)	20
I26	07 Nov 2015	Weather	Partly Cloudy
I26	07 Nov 2015	Visibility (mi)	10
I26	07 Nov 2015	Wind Speed (kts)	13
I26	07 Nov 2015	Wind Dir	W
I26	07 Nov 2015	Water Color	Green
I26	07 Nov 2015	Wave Ht Low (ft)	2
I26	07 Nov 2015	Wave Period (sec)	9
I26	07 Nov 2015	Sea State	Heavy chop
I26	07 Nov 2015	High Tide (ft)	5.12
I26	07 Nov 2015	High Tide Time	623
I26	07 Nov 2015	Low Tide (ft)	0.93
I26	07 Nov 2015	Low Tide Time	1252
I26	07 Nov 2015	Comments	
I26	13 Nov 2015	Depth (m)	11
I26	13 Nov 2015	Arrive Time	909
I26	13 Nov 2015	Depart Time	915
I26	13 Nov 2015	Air Temp (C)	17
I26	13 Nov 2015	Weather	Partly Cloudy
I26	13 Nov 2015	Visibility (mi)	12
I26	13 Nov 2015	Wind Speed (kts)	1
I26	13 Nov 2015	Wind Dir	E
I26	13 Nov 2015	Water Color	Green
I26	13 Nov 2015	Wave Ht Low (ft)	2
I26	13 Nov 2015	Wave Period (sec)	9
I26	13 Nov 2015	Sea State	Calm
I26	13 Nov 2015	High Tide (ft)	5.77
I26	13 Nov 2015	High Tide Time	859
I26	13 Nov 2015	Low Tide (ft)	-0.21
I26	13 Nov 2015	Low Tide Time	1611
I26	13 Nov 2015	Comments	
I26	20 Nov 2015	Depth (m)	11
I26	20 Nov 2015	Arrive Time	1154
I26	20 Nov 2015	Depart Time	1157
I26	20 Nov 2015	Air Temp (C)	19
I26	20 Nov 2015	Weather	Clear
I26	20 Nov 2015	Visibility (mi)	15
I26	20 Nov 2015	Wind Speed (kts)	2
I26	20 Nov 2015	Wind Dir	NE
I26	20 Nov 2015	Water Color	Green
I26	20 Nov 2015	Wave Ht Low (ft)	2
I26	20 Nov 2015	Wave Period (sec)	7
I26	20 Nov 2015	Sea State	Calm
I26	20 Nov 2015	High Tide (ft)	4.72
I26	20 Nov 2015	High Tide Time	426
I26	20 Nov 2015	Low Tide (ft)	1.74
I26	20 Nov 2015	Low Tide Time	1041
I26	20 Nov 2015	Comments	

Station	Date	Parameter	Value
I26	24 Nov 2015	Depth (m)	9
I26	24 Nov 2015	Arrive Time	1514
I26	24 Nov 2015	Depart Time	1518
I26	24 Nov 2015	Air Temp (C)	17
I26	24 Nov 2015	Weather	Partly Cloudy
I26	24 Nov 2015	Visibility (mi)	6
I26	24 Nov 2015	Wind Speed (kts)	8
I26	24 Nov 2015	Wind Dir	SE
I26	24 Nov 2015	Water Color	Green
I26	24 Nov 2015	Wave Ht Low (ft)	3
I26	24 Nov 2015	Wave Period (sec)	4
I26	24 Nov 2015	Sea State	Heavy chop
I26	24 Nov 2015	High Tide (ft)	6.64
I26	24 Nov 2015	High Tide Time	707
I26	24 Nov 2015	Low Tide (ft)	-0.97
I26	24 Nov 2015	Low Tide Time	1404
I26	24 Nov 2015	Comments	Kelp debris
I26	30 Nov 2015	Depth (m)	11
I26	30 Nov 2015	Arrive Time	1111
I26	30 Nov 2015	Depart Time	1114
I26	30 Nov 2015	Air Temp (C)	16
I26	30 Nov 2015	Weather	Clear
I26	30 Nov 2015	Visibility (mi)	14
I26	30 Nov 2015	Wind Speed (kts)	6
I26	30 Nov 2015	Wind Dir	E
I26	30 Nov 2015	Water Color	Green
I26	30 Nov 2015	Wave Ht Low (ft)	3
I26	30 Nov 2015	Wave Period (sec)	16
I26	30 Nov 2015	Sea State	Wind ripples
I26	30 Nov 2015	High Tide (ft)	4.93
I26	30 Nov 2015	High Tide Time	1123
I26	30 Nov 2015	Low Tide (ft)	2.5
I26	30 Nov 2015	Low Tide Time	536
I26	30 Nov 2015	Comments	
I32	07 Nov 2015	Depth (m)	10
I32	07 Nov 2015	Arrive Time	1304
I32	07 Nov 2015	Depart Time	1312
I32	07 Nov 2015	Air Temp (C)	20
I32	07 Nov 2015	Weather	Partly Cloudy
I32	07 Nov 2015	Visibility (mi)	10
I32	07 Nov 2015	Wind Speed (kts)	11
I32	07 Nov 2015	Wind Dir	SE
I32	07 Nov 2015	Water Color	Green
I32	07 Nov 2015	Wave Ht Low (ft)	2
I32	07 Nov 2015	Wave Period (sec)	9
I32	07 Nov 2015	Sea State	Heavy chop
I32	07 Nov 2015	High Tide (ft)	5.12
I32	07 Nov 2015	High Tide Time	623
I32	07 Nov 2015	Low Tide (ft)	0.93
I32	07 Nov 2015	Low Tide Time	1252
I32	07 Nov 2015	Comments	
I32	12 Nov 2015	Depth (m)	11

Station	Date	Parameter	Value
I32	12 Nov 2015	Arrive Time	1136
I32	12 Nov 2015	Depart Time	1137
I32	12 Nov 2015	Air Temp (C)	19
I32	12 Nov 2015	Weather	Partly Cloudy
I32	12 Nov 2015	Visibility (mi)	13
I32	12 Nov 2015	Wind Speed (kts)	6
I32	12 Nov 2015	Wind Dir	SW
I32	12 Nov 2015	Water Color	Brown
I32	12 Nov 2015	Wave Ht Low (ft)	3
I32	12 Nov 2015	Wave Period (sec)	16
I32	12 Nov 2015	Sea State	Wind ripples
I32	12 Nov 2015	High Tide (ft)	5.83
I32	12 Nov 2015	High Tide Time	830
I32	12 Nov 2015	Low Tide (ft)	-0.24
I32	12 Nov 2015	Low Tide Time	1533
I32	12 Nov 2015	Comments	
I32	20 Nov 2015	Depth (m)	11
I32	20 Nov 2015	Arrive Time	1204
I32	20 Nov 2015	Depart Time	1209
I32	20 Nov 2015	Air Temp (C)	19
I32	20 Nov 2015	Weather	Clear
I32	20 Nov 2015	Visibility (mi)	15
I32	20 Nov 2015	Wind Speed (kts)	2
I32	20 Nov 2015	Wind Dir	SE
I32	20 Nov 2015	Water Color	Green
I32	20 Nov 2015	Wave Ht Low (ft)	2
I32	20 Nov 2015	Wave Period (sec)	7
I32	20 Nov 2015	Sea State	Calm
I32	20 Nov 2015	High Tide (ft)	4.72
I32	20 Nov 2015	High Tide Time	426
I32	20 Nov 2015	Low Tide (ft)	1.74
I32	20 Nov 2015	Low Tide Time	1041
I32	20 Nov 2015	Comments	
I32	24 Nov 2015	Depth (m)	9
I32	24 Nov 2015	Arrive Time	1527
I32	24 Nov 2015	Depart Time	1531
I32	24 Nov 2015	Air Temp (C)	17
I32	24 Nov 2015	Weather	Partly Cloudy
I32	24 Nov 2015	Visibility (mi)	6
I32	24 Nov 2015	Wind Speed (kts)	6
I32	24 Nov 2015	Wind Dir	S
I32	24 Nov 2015	Water Color	Green
I32	24 Nov 2015	Wave Ht Low (ft)	3
I32	24 Nov 2015	Wave Period (sec)	4
I32	24 Nov 2015	Sea State	Heavy chop
I32	24 Nov 2015	High Tide (ft)	6.64
I32	24 Nov 2015	High Tide Time	707
I32	24 Nov 2015	Low Tide (ft)	-0.97
I32	24 Nov 2015	Low Tide Time	1404
I32	24 Nov 2015	Comments	Kelp debris
I32	30 Nov 2015	Depth (m)	11
I32	30 Nov 2015	Arrive Time	1123

Station	Date	Parameter	Value
I32	30 Nov 2015	Depart Time	1128
I32	30 Nov 2015	Air Temp (C)	16
I32	30 Nov 2015	Weather	Clear
I32	30 Nov 2015	Visibility (mi)	14
I32	30 Nov 2015	Wind Speed (kts)	7
I32	30 Nov 2015	Wind Dir	S
I32	30 Nov 2015	Water Color	Green
I32	30 Nov 2015	Wave Ht Low (ft)	3
I32	30 Nov 2015	Wave Period (sec)	16
I32	30 Nov 2015	Sea State	Wind ripples
I32	30 Nov 2015	High Tide (ft)	4.93
I32	30 Nov 2015	High Tide Time	1123
I32	30 Nov 2015	Low Tide (ft)	2.5
I32	30 Nov 2015	Low Tide Time	536
I32	30 Nov 2015	Comments	
I39	07 Nov 2015	Depth (m)	18
I39	07 Nov 2015	Arrive Time	1045
I39	07 Nov 2015	Depart Time	1052
I39	07 Nov 2015	Air Temp (C)	20
I39	07 Nov 2015	Weather	Partly Cloudy
I39	07 Nov 2015	Visibility (mi)	10
I39	07 Nov 2015	Wind Speed (kts)	8
I39	07 Nov 2015	Wind Dir	S
I39	07 Nov 2015	Water Color	Bluish-Green
I39	07 Nov 2015	Wave Ht Low (ft)	2
I39	07 Nov 2015	Wave Period (sec)	9
I39	07 Nov 2015	Sea State	Light chop
I39	07 Nov 2015	High Tide (ft)	5.12
I39	07 Nov 2015	High Tide Time	623
I39	07 Nov 2015	Low Tide (ft)	0.93
I39	07 Nov 2015	Low Tide Time	1252
I39	07 Nov 2015	Comments	Lobster floats
I39	13 Nov 2015	Depth (m)	20
I39	13 Nov 2015	Arrive Time	852
I39	13 Nov 2015	Depart Time	859
I39	13 Nov 2015	Air Temp (C)	16
I39	13 Nov 2015	Weather	Partly Cloudy
I39	13 Nov 2015	Visibility (mi)	12
I39	13 Nov 2015	Wind Speed (kts)	2
I39	13 Nov 2015	Wind Dir	N
I39	13 Nov 2015	Water Color	Greenish-Blue
I39	13 Nov 2015	Wave Ht Low (ft)	2
I39	13 Nov 2015	Wave Period (sec)	9
I39	13 Nov 2015	Sea State	Calm
I39	13 Nov 2015	High Tide (ft)	5.77
I39	13 Nov 2015	High Tide Time	859
I39	13 Nov 2015	Low Tide (ft)	-0.21
I39	13 Nov 2015	Low Tide Time	1611
I39	13 Nov 2015	Comments	Kelp; Lobster floats
I39	20 Nov 2015	Depth (m)	20
I39	20 Nov 2015	Arrive Time	1051
I39	20 Nov 2015	Depart Time	1056

Station	Date	Parameter	Value
I39	20 Nov 2015	Air Temp (C)	19
I39	20 Nov 2015	Weather	Clear
I39	20 Nov 2015	Visibility (mi)	15
I39	20 Nov 2015	Wind Speed (kts)	2
I39	20 Nov 2015	Wind Dir	SE
I39	20 Nov 2015	Water Color	Greenish-Blue
I39	20 Nov 2015	Wave Ht Low (ft)	3
I39	20 Nov 2015	Wave Period (sec)	7
I39	20 Nov 2015	Sea State	Calm
I39	20 Nov 2015	High Tide (ft)	4.72
I39	20 Nov 2015	High Tide Time	426
I39	20 Nov 2015	Low Tide (ft)	1.74
I39	20 Nov 2015	Low Tide Time	1041
I39	20 Nov 2015	Comments	Lobster floats
I39	24 Nov 2015	Depth (m)	17
I39	24 Nov 2015	Arrive Time	1418
I39	24 Nov 2015	Depart Time	1426
I39	24 Nov 2015	Air Temp (C)	18
I39	24 Nov 2015	Weather	Partly Cloudy
I39	24 Nov 2015	Visibility (mi)	6
I39	24 Nov 2015	Wind Speed (kts)	6
I39	24 Nov 2015	Wind Dir	E
I39	24 Nov 2015	Water Color	Green
I39	24 Nov 2015	Wave Ht Low (ft)	3
I39	24 Nov 2015	Wave Period (sec)	4
I39	24 Nov 2015	Sea State	Wind ripples
I39	24 Nov 2015	High Tide (ft)	6.64
I39	24 Nov 2015	High Tide Time	707
I39	24 Nov 2015	Low Tide (ft)	-0.97
I39	24 Nov 2015	Low Tide Time	1404
I39	24 Nov 2015	Comments	Kelp debris; Did not get 18th meter within 0.05nm astronomical tides today
I39	30 Nov 2015	Depth (m)	19
I39	30 Nov 2015	Arrive Time	1019
I39	30 Nov 2015	Depart Time	1022
I39	30 Nov 2015	Air Temp (C)	16
I39	30 Nov 2015	Weather	Clear
I39	30 Nov 2015	Visibility (mi)	14
I39	30 Nov 2015	Wind Speed (kts)	1
I39	30 Nov 2015	Wind Dir	W
I39	30 Nov 2015	Water Color	Green
I39	30 Nov 2015	Wave Ht Low (ft)	3
I39	30 Nov 2015	Wave Period (sec)	16
I39	30 Nov 2015	Sea State	Wind ripples
I39	30 Nov 2015	High Tide (ft)	4.93
I39	30 Nov 2015	High Tide Time	1123
I39	30 Nov 2015	Low Tide (ft)	2.5
I39	30 Nov 2015	Low Tide Time	536
I39	30 Nov 2015	Comments	Lobster floats; Kelp debris
I40	07 Nov 2015	Depth (m)	10
I40	07 Nov 2015	Arrive Time	1136
I40	07 Nov 2015	Depart Time	1142

Station	Date	Parameter	Value
I40	07 Nov 2015	Air Temp (C)	20
I40	07 Nov 2015	Weather	Partly Cloudy
I40	07 Nov 2015	Visibility (mi)	10
I40	07 Nov 2015	Wind Speed (kts)	10
I40	07 Nov 2015	Wind Dir	NW
I40	07 Nov 2015	Water Color	Green
I40	07 Nov 2015	Wave Ht Low (ft)	2
I40	07 Nov 2015	Wave Period (sec)	9
I40	07 Nov 2015	Sea State	Light chop
I40	07 Nov 2015	High Tide (ft)	5.12
I40	07 Nov 2015	High Tide Time	623
I40	07 Nov 2015	Low Tide (ft)	0.93
I40	07 Nov 2015	Low Tide Time	1252
I40	07 Nov 2015	Comments	
I40	13 Nov 2015	Depth (m)	11
I40	13 Nov 2015	Arrive Time	946
I40	13 Nov 2015	Depart Time	949
I40	13 Nov 2015	Air Temp (C)	19
I40	13 Nov 2015	Weather	Clear
I40	13 Nov 2015	Visibility (mi)	12
I40	13 Nov 2015	Wind Speed (kts)	2
I40	13 Nov 2015	Wind Dir	W
I40	13 Nov 2015	Water Color	Green
I40	13 Nov 2015	Wave Ht Low (ft)	2
I40	13 Nov 2015	Wave Period (sec)	9
I40	13 Nov 2015	Sea State	Calm
I40	13 Nov 2015	High Tide (ft)	5.77
I40	13 Nov 2015	High Tide Time	859
I40	13 Nov 2015	Low Tide (ft)	-0.21
I40	13 Nov 2015	Low Tide Time	1611
I40	13 Nov 2015	Comments	
I40	20 Nov 2015	Depth (m)	11
I40	20 Nov 2015	Arrive Time	1120
I40	20 Nov 2015	Depart Time	1124
I40	20 Nov 2015	Air Temp (C)	19
I40	20 Nov 2015	Weather	Clear
I40	20 Nov 2015	Visibility (mi)	15
I40	20 Nov 2015	Wind Speed (kts)	4
I40	20 Nov 2015	Wind Dir	E
I40	20 Nov 2015	Water Color	Greenish-Blue
I40	20 Nov 2015	Wave Ht Low (ft)	2
I40	20 Nov 2015	Wave Period (sec)	7
I40	20 Nov 2015	Sea State	Calm
I40	20 Nov 2015	High Tide (ft)	4.72
I40	20 Nov 2015	High Tide Time	426
I40	20 Nov 2015	Low Tide (ft)	1.74
I40	20 Nov 2015	Low Tide Time	1041
I40	20 Nov 2015	Comments	
I40	24 Nov 2015	Depth (m)	9
I40	24 Nov 2015	Arrive Time	1448
I40	24 Nov 2015	Depart Time	1451
I40	24 Nov 2015	Air Temp (C)	18

Station	Date	Parameter	Value
I40	24 Nov 2015	Weather	Partly Cloudy
I40	24 Nov 2015	Visibility (mi)	6
I40	24 Nov 2015	Wind Speed (kts)	8
I40	24 Nov 2015	Wind Dir	W
I40	24 Nov 2015	Water Color	Green
I40	24 Nov 2015	Wave Ht Low (ft)	3
I40	24 Nov 2015	Wave Period (sec)	4
I40	24 Nov 2015	Sea State	Wind ripples
I40	24 Nov 2015	High Tide (ft)	6.64
I40	24 Nov 2015	High Tide Time	707
I40	24 Nov 2015	Low Tide (ft)	-0.97
I40	24 Nov 2015	Low Tide Time	1404
I40	24 Nov 2015	Comments	Fresh water lens on surface
I40	30 Nov 2015	Depth (m)	11
I40	30 Nov 2015	Arrive Time	1047
I40	30 Nov 2015	Depart Time	1049
I40	30 Nov 2015	Air Temp (C)	16
I40	30 Nov 2015	Weather	Clear
I40	30 Nov 2015	Visibility (mi)	14
I40	30 Nov 2015	Wind Speed (kts)	6
I40	30 Nov 2015	Wind Dir	S
I40	30 Nov 2015	Water Color	Green
I40	30 Nov 2015	Wave Ht Low (ft)	3
I40	30 Nov 2015	Wave Period (sec)	16
I40	30 Nov 2015	Sea State	Wind ripples
I40	30 Nov 2015	High Tide (ft)	4.93
I40	30 Nov 2015	High Tide Time	1123
I40	30 Nov 2015	Low Tide (ft)	2.5
I40	30 Nov 2015	Low Tide Time	536
I40	30 Nov 2015	Comments	

Table 3.10

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

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
119	07 Nov 2015	1	18.86	66.25	7.1	33.44	8.1	23.9	1.66
119	07 Nov 2015	2	18.86	66.24	7.1	33.44	8.1	23.9	2.10
119	07 Nov 2015	3	18.77	65.88	7.0	33.44	8.1	23.9	2.62
119	07 Nov 2015	4	18.68	64.56	7.0	33.43	8.1	23.9	2.85
119	07 Nov 2015	5	18.54	62.82	7.0	33.43	8.1	23.9	2.77
119	07 Nov 2015	6	18.46	59.67	7.0	33.44	8.1	24.0	2.62
119	07 Nov 2015	7	18.41	58.64	7.0	33.43	8.1	24.0	2.39
119	07 Nov 2015	8	18.35	60.57	7.0	33.43	8.1	24.0	2.24
119	07 Nov 2015	9	18.31	64.06	7.0	33.43	8.1	24.0	2.17
119	07 Nov 2015	10	18.28	64.64	7.0	33.43	8.1	24.0	2.29
119	13 Nov 2015	1	18.23	72.26	7.5	33.50	8.2	24.1	1.49
119	13 Nov 2015	2	18.18	71.64	7.5	33.50	8.2	24.1	1.76
119	13 Nov 2015	3	18.16	70.91	7.5	33.50	8.2	24.1	2.06
119	13 Nov 2015	4	18.16	71.17	7.5	33.50	8.2	24.1	2.25
119	13 Nov 2015	5	18.14	71.04	7.5	33.50	8.2	24.1	2.38
119	13 Nov 2015	6	18.13	71.03	7.4	33.50	8.2	24.1	2.46
119	13 Nov 2015	7	18.12	70.85	7.5	33.50	8.2	24.1	2.36
119	13 Nov 2015	8	18.08	71.23	7.5	33.50	8.2	24.1	2.27
119	13 Nov 2015	9	18.04	71.52	7.5	33.50	8.2	24.1	2.17
119	13 Nov 2015	10	17.98	69.38	7.5	33.50	8.2	24.1	2.11
119	20 Nov 2015	1	18.61	76.67	7.2	33.60	8.2	24.1	1.25
119	20 Nov 2015	2	18.52	76.38	7.2	33.61	8.2	24.1	1.42
119	20 Nov 2015	3	18.54	75.58	7.1	33.61	8.2	24.1	1.45
119	20 Nov 2015	4	18.45	75.53	7.1	33.60	8.2	24.1	1.75
119	20 Nov 2015	5	18.40	75.11	7.1	33.60	8.2	24.1	2.18
119	20 Nov 2015	6	18.36	74.33	7.1	33.60	8.2	24.1	2.65
119	20 Nov 2015	7	18.34	73.35	7.2	33.60	8.2	24.1	2.84
119	20 Nov 2015	8	18.32	72.34	7.2	33.60	8.2	24.1	2.91
119	20 Nov 2015	9	18.26	71.69	7.2	33.60	8.2	24.1	2.79
119	20 Nov 2015	10	18.12	70.16	7.3	33.59	8.2	24.2	2.61
119	24 Nov 2015	1	19.10	81.97	7.4	33.57	8.2	23.9	1.07
119	24 Nov 2015	2	19.10	82.19	7.4	33.57	8.2	23.9	1.12
119	24 Nov 2015	3	19.10	82.23	7.4	33.57	8.2	23.9	1.15
119	24 Nov 2015	4	19.10	81.89	7.4	33.57	8.2	23.9	1.13
119	24 Nov 2015	5	19.09	81.78	7.4	33.57	8.2	23.9	1.12
119	24 Nov 2015	6	19.09	82.04	7.4	33.57	8.2	23.9	1.12
119	24 Nov 2015	7	19.10	81.51	7.4	33.57	8.2	23.9	1.11
119	24 Nov 2015	8	19.10	81.42	7.4	33.57	8.2	23.9	1.12
119	24 Nov 2015	9	19.10	80.44	7.4	33.57	8.2	23.9	1.07
119	30 Nov 2015	1	17.66	71.07	7.5	33.59	8.2	24.3	2.11
119	30 Nov 2015	2	17.66	70.87	7.5	33.59	8.2	24.3	2.28
119	30 Nov 2015	3	17.64	70.93	7.5	33.59	8.2	24.3	2.68
119	30 Nov 2015	4	17.62	70.49	7.5	33.59	8.2	24.3	2.76
119	30 Nov 2015	5	17.62	70.43	7.5	33.59	8.2	24.3	2.91
119	30 Nov 2015	6	17.62	70.48	7.5	33.59	8.2	24.3	2.89
119	30 Nov 2015	7	17.63	70.92	7.4	33.59	8.2	24.3	2.75
119	30 Nov 2015	8	17.60	71.14	7.4	33.58	8.2	24.3	2.61

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I19	30 Nov 2015	9	17.53	71.35	7.5	33.57	8.2	24.3	2.42
I19	30 Nov 2015	10	17.40	71.34	7.6	33.54	8.2	24.3	2.27
I24	07 Nov 2015	1	18.98	75.90	6.9	33.47	8.1	23.9	1.11
I24	07 Nov 2015	2	18.98	75.68	6.9	33.47	8.1	23.9	1.30
I24	07 Nov 2015	3	18.96	75.68	6.9	33.47	8.1	23.9	1.56
I24	07 Nov 2015	4	18.95	75.49	6.8	33.47	8.1	23.9	1.73
I24	07 Nov 2015	5	18.94	75.25	6.8	33.47	8.1	23.9	2.01
I24	07 Nov 2015	6	18.85	75.13	6.9	33.47	8.1	23.9	2.06
I24	07 Nov 2015	7	18.84	74.36	6.8	33.46	8.1	23.9	2.00
I24	07 Nov 2015	8	18.82	74.24	6.8	33.46	8.1	23.9	1.94
I24	07 Nov 2015	9	18.82	74.47	6.8	33.46	8.1	23.9	1.88
I24	07 Nov 2015	10	18.81	74.73	6.8	33.46	8.1	23.9	1.80
I24	13 Nov 2015	1	18.34	81.59	7.1	33.49	8.1	24.0	0.88
I24	13 Nov 2015	2	18.33	81.53	7.2	33.48	8.1	24.0	0.92
I24	13 Nov 2015	3	18.32	81.40	7.2	33.48	8.1	24.0	1.06
I24	13 Nov 2015	4	18.31	81.30	7.2	33.48	8.2	24.0	1.15
I24	13 Nov 2015	5	18.31	81.52	7.2	33.48	8.2	24.0	1.25
I24	13 Nov 2015	6	18.31	81.64	7.2	33.48	8.2	24.0	1.26
I24	13 Nov 2015	7	18.30	81.67	7.2	33.48	8.2	24.0	1.32
I24	13 Nov 2015	8	18.29	81.85	7.2	33.48	8.2	24.0	1.37
I24	13 Nov 2015	9	18.28	81.89	7.2	33.48	8.2	24.0	1.39
I24	13 Nov 2015	10	18.28	81.66	7.2	33.48	8.2	24.0	1.36
I24	13 Nov 2015	11	18.28	81.45	7.2	33.48	8.2	24.0	1.28
I24	20 Nov 2015	1	18.34	73.04	7.2	33.58	8.2	24.1	1.28
I24	20 Nov 2015	2	18.17	73.15	7.3	33.56	8.2	24.1	1.59
I24	20 Nov 2015	3	17.86	72.64	7.3	33.57	8.2	24.2	2.14
I24	20 Nov 2015	4	17.74	70.03	7.2	33.56	8.2	24.2	2.53
I24	20 Nov 2015	5	17.66	68.77	7.1	33.56	8.2	24.3	2.85
I24	20 Nov 2015	6	17.60	68.42	7.1	33.56	8.2	24.3	3.05
I24	20 Nov 2015	7	17.54	67.22	7.0	33.56	8.1	24.3	2.92
I24	20 Nov 2015	8	17.54	66.99	7.0	33.56	8.1	24.3	2.88
I24	20 Nov 2015	9	17.54	65.66	7.0	33.56	8.1	24.3	2.75
I24	24 Nov 2015	1	18.91	86.53	7.4	33.58	8.2	24.0	0.87
I24	24 Nov 2015	2	18.91	86.53	7.4	33.58	8.2	24.0	0.88
I24	24 Nov 2015	3	18.89	86.47	7.4	33.57	8.2	24.0	0.93
I24	24 Nov 2015	4	18.88	86.06	7.4	33.57	8.2	24.0	0.93
I24	24 Nov 2015	5	18.87	85.95	7.4	33.57	8.2	24.0	0.96
I24	24 Nov 2015	6	18.87	85.88	7.4	33.57	8.2	24.0	0.96
I24	24 Nov 2015	7	18.84	85.65	7.4	33.57	8.2	24.0	1.02
I24	24 Nov 2015	8	18.80	83.84	7.4	33.57	8.2	24.0	1.06
I24	24 Nov 2015	9	18.78	83.64	7.5	33.57	8.2	24.0	1.10
I24	30 Nov 2015	1	17.99	84.73	7.3	33.64	8.2	24.2	0.84
I24	30 Nov 2015	2	17.98	84.64	7.3	33.64	8.2	24.2	0.90
I24	30 Nov 2015	3	17.97	84.91	7.3	33.64	8.2	24.2	0.98
I24	30 Nov 2015	4	17.95	84.82	7.3	33.64	8.2	24.2	1.05
I24	30 Nov 2015	5	17.91	84.29	7.3	33.64	8.2	24.3	1.13
I24	30 Nov 2015	6	17.89	84.09	7.3	33.64	8.2	24.3	1.19
I24	30 Nov 2015	7	17.86	83.49	7.3	33.64	8.2	24.3	1.20
I24	30 Nov 2015	8	17.85	83.28	7.3	33.64	8.2	24.3	1.22
I24	30 Nov 2015	9	17.83	82.42	7.3	33.64	8.2	24.3	1.17

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I24	30 Nov 2015	10	17.82	80.93	7.3	33.65	8.2	24.3	1.15
I24	30 Nov 2015	11	17.83	77.04	7.3	33.65	8.2	24.3	1.13
I25	07 Nov 2015	1	19.05	78.98	6.8	33.47	8.1	23.8	0.94
I25	07 Nov 2015	2	19.04	79.13	6.8	33.47	8.1	23.8	1.02
I25	07 Nov 2015	3	19.03	79.50	6.8	33.47	8.1	23.8	1.18
I25	07 Nov 2015	4	19.00	79.50	6.9	33.47	8.1	23.9	1.44
I25	07 Nov 2015	5	18.96	78.97	6.9	33.47	8.1	23.9	1.71
I25	07 Nov 2015	6	18.94	78.28	6.9	33.47	8.1	23.9	1.84
I25	07 Nov 2015	7	18.92	78.08	7.0	33.47	8.1	23.9	1.75
I25	07 Nov 2015	8	18.91	77.83	7.0	33.47	8.1	23.9	1.64
I25	13 Nov 2015	1	18.41	85.16	7.3	33.48	8.2	24.0	0.72
I25	13 Nov 2015	2	18.41	85.22	7.3	33.48	8.2	24.0	0.76
I25	13 Nov 2015	3	18.41	85.27	7.3	33.48	8.2	24.0	0.81
I25	13 Nov 2015	4	18.40	85.17	7.3	33.48	8.2	24.0	0.91
I25	13 Nov 2015	5	18.38	84.95	7.3	33.48	8.2	24.0	1.05
I25	13 Nov 2015	6	18.36	84.41	7.3	33.48	8.2	24.0	1.14
I25	13 Nov 2015	7	18.35	83.63	7.2	33.48	8.2	24.0	1.21
I25	13 Nov 2015	8	18.34	84.04	7.3	33.48	8.2	24.0	1.22
I25	13 Nov 2015	9	18.32	83.58	7.3	33.48	8.2	24.0	1.22
I25	20 Nov 2015	1	18.06	85.17	6.9	33.58	8.2	24.2	1.76
I25	20 Nov 2015	2	18.09	85.31	7.0	33.57	8.2	24.2	1.58
I25	20 Nov 2015	3	18.02	85.33	7.2	33.59	8.2	24.2	1.40
I25	20 Nov 2015	4	17.85	85.59	7.1	33.60	8.2	24.2	1.31
I25	20 Nov 2015	5	17.71	84.89	7.0	33.58	8.2	24.3	1.53
I25	20 Nov 2015	6	17.62	76.87	6.9	33.57	8.1	24.3	1.88
I25	20 Nov 2015	7	17.61	65.40	6.9	33.57	8.1	24.3	2.16
I25	20 Nov 2015	8	17.61	64.19	6.9	33.57	8.1	24.3	2.48
I25	20 Nov 2015	9	17.61	64.89	6.4	33.57	8.1	24.3	2.38
I25	24 Nov 2015	1	18.88	86.33	7.4	33.58	8.2	24.0	0.93
I25	24 Nov 2015	2	18.88	86.34	7.4	33.58	8.2	24.0	0.93
I25	24 Nov 2015	3	18.86	86.29	7.4	33.58	8.2	24.0	0.91
I25	24 Nov 2015	4	18.85	86.50	7.4	33.58	8.2	24.0	0.89
I25	24 Nov 2015	5	18.85	86.46	7.4	33.58	8.2	24.0	0.89
I25	24 Nov 2015	6	18.83	86.54	7.4	33.58	8.2	24.0	0.88
I25	24 Nov 2015	7	18.82	86.57	7.4	33.58	8.2	24.0	0.86
I25	24 Nov 2015	8	18.81	86.45	7.4	33.58	8.2	24.0	0.81
I25	30 Nov 2015	1	18.06	84.83	7.2	33.64	8.2	24.2	0.85
I25	30 Nov 2015	2	18.05	84.61	7.3	33.64	8.2	24.2	0.93
I25	30 Nov 2015	3	18.02	84.50	7.3	33.64	8.2	24.2	1.04
I25	30 Nov 2015	4	18.02	84.35	7.3	33.64	8.2	24.2	1.06
I25	30 Nov 2015	5	18.00	84.37	7.3	33.64	8.2	24.2	1.14
I25	30 Nov 2015	6	17.99	84.12	7.3	33.64	8.2	24.2	1.18
I25	30 Nov 2015	7	17.99	83.53	7.3	33.64	8.2	24.2	1.24
I25	30 Nov 2015	8	17.99	82.44	7.3	33.64	8.2	24.2	1.19
I25	30 Nov 2015	9	17.99	80.99	7.4	33.64	8.2	24.2	1.17
I26	07 Nov 2015	1	19.09	81.78	7.1	33.47	8.1	23.8	1.00
I26	07 Nov 2015	2	19.08	82.09	7.1	33.47	8.1	23.8	1.05
I26	07 Nov 2015	3	19.08	82.37	7.1	33.47	8.1	23.8	1.35
I26	07 Nov 2015	4	19.02	82.15	7.0	33.46	8.1	23.8	1.85

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I26	07 Nov 2015	5	18.95	81.28	7.0	33.47	8.1	23.9	1.89
I26	07 Nov 2015	6	18.91	80.34	7.0	33.46	8.1	23.9	2.06
I26	07 Nov 2015	7	18.90	79.81	7.0	33.46	8.1	23.9	2.02
I26	07 Nov 2015	8	18.87	79.45	7.0	33.46	8.1	23.9	1.90
I26	07 Nov 2015	9	18.87	79.31	7.0	33.46	8.1	23.9	1.82
I26	13 Nov 2015	1	18.30	82.75	7.2	33.47	8.1	24.0	0.93
I26	13 Nov 2015	2	18.29	82.92	7.2	33.47	8.1	24.0	0.97
I26	13 Nov 2015	3	18.29	82.94	7.3	33.47	8.1	24.0	1.08
I26	13 Nov 2015	4	18.29	82.81	7.2	33.47	8.1	24.0	1.19
I26	13 Nov 2015	5	18.28	82.79	7.2	33.47	8.1	24.0	1.26
I26	13 Nov 2015	6	18.28	82.81	7.3	33.47	8.1	24.0	1.31
I26	13 Nov 2015	7	18.28	82.84	7.3	33.47	8.2	24.0	1.38
I26	13 Nov 2015	8	18.28	82.95	7.2	33.47	8.2	24.0	1.42
I26	13 Nov 2015	9	18.27	82.51	7.3	33.47	8.2	24.0	1.42
I26	20 Nov 2015	1	18.37	89.15	7.1	33.57	8.2	24.1	0.68
I26	20 Nov 2015	2	18.29	88.56	7.1	33.56	8.2	24.1	0.74
I26	20 Nov 2015	3	18.02	88.71	7.0	33.56	8.2	24.2	0.91
I26	20 Nov 2015	4	17.98	87.27	7.0	33.56	8.2	24.2	1.07
I26	20 Nov 2015	5	17.94	84.90	7.0	33.57	8.2	24.2	1.29
I26	20 Nov 2015	6	17.93	84.33	7.0	33.57	8.2	24.2	1.45
I26	20 Nov 2015	7	17.92	83.16	7.0	33.57	8.2	24.2	1.58
I26	20 Nov 2015	8	17.92	81.07	7.0	33.57	8.2	24.2	1.60
I26	20 Nov 2015	9	17.93	80.42	7.0	33.57	8.2	24.2	1.55
I26	24 Nov 2015	1	18.83	85.26	7.5	33.58	8.2	24.0	0.85
I26	24 Nov 2015	2	18.83	85.35	7.4	33.58	8.2	24.0	0.87
I26	24 Nov 2015	3	18.83	85.16	7.4	33.58	8.2	24.0	0.88
I26	24 Nov 2015	4	18.83	85.33	7.5	33.58	8.2	24.0	0.91
I26	24 Nov 2015	5	18.83	85.30	7.5	33.58	8.2	24.0	0.91
I26	24 Nov 2015	6	18.83	85.33	7.5	33.58	8.2	24.0	0.91
I26	24 Nov 2015	7	18.83	85.19	7.4	33.58	8.2	24.0	0.89
I26	24 Nov 2015	8	18.83	85.28	7.4	33.58	8.2	24.0	0.91
I26	24 Nov 2015	9	18.83	85.25	7.4	33.58	8.2	24.0	0.91
I26	30 Nov 2015	1	18.11	81.65	7.3	33.63	8.2	24.2	0.93
I26	30 Nov 2015	2	18.08	81.39	7.3	33.63	8.2	24.2	1.03
I26	30 Nov 2015	3	18.07	81.31	7.3	33.63	8.2	24.2	1.12
I26	30 Nov 2015	4	18.07	80.91	7.3	33.63	8.2	24.2	1.22
I26	30 Nov 2015	5	18.06	80.34	7.3	33.63	8.2	24.2	1.32
I26	30 Nov 2015	6	18.06	80.14	7.3	33.63	8.2	24.2	1.31
I26	30 Nov 2015	7	18.06	80.03	7.3	33.63	8.2	24.2	1.36
I26	30 Nov 2015	8	18.05	79.17	7.4	33.63	8.2	24.2	1.39
I26	30 Nov 2015	9	18.05	79.40	7.4	33.63	8.2	24.2	1.32
I32	07 Nov 2015	1	19.10	80.85	7.1	33.47	8.2	23.8	1.29
I32	07 Nov 2015	2	19.10	80.91	7.1	33.47	8.1	23.8	1.32
I32	07 Nov 2015	3	19.09	80.94	7.1	33.47	8.1	23.8	1.48
I32	07 Nov 2015	4	19.07	80.87	7.1	33.47	8.1	23.8	1.77
I32	07 Nov 2015	5	19.01	80.59	7.1	33.47	8.1	23.8	2.12
I32	07 Nov 2015	6	18.96	79.53	7.1	33.47	8.1	23.9	2.37
I32	07 Nov 2015	7	18.89	77.22	7.1	33.47	8.1	23.9	2.67
I32	07 Nov 2015	8	18.76	74.30	7.1	33.46	8.1	23.9	2.69
I32	07 Nov 2015	9	18.63	70.72	7.1	33.47	8.1	23.9	2.59

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I32	12 Nov 2015	1	18.64	78.97	7.3	33.49	8.2	24.0	0.82
I32	12 Nov 2015	2	18.63	78.41	7.4	33.49	8.2	24.0	0.89
I32	12 Nov 2015	3	18.63	77.98	7.4	33.49	8.2	24.0	1.01
I32	12 Nov 2015	4	18.62	76.73	7.4	33.50	8.2	24.0	1.22
I32	12 Nov 2015	5	18.59	74.49	7.4	33.50	8.2	24.0	1.50
I32	12 Nov 2015	6	18.55	73.27	7.3	33.49	8.2	24.0	1.67
I32	12 Nov 2015	7	18.53	72.89	7.3	33.49	8.2	24.0	1.91
I32	12 Nov 2015	8	18.47	71.93	7.4	33.50	8.2	24.0	2.13
I32	12 Nov 2015	9	18.46	71.04	7.4	33.50	8.2	24.0	2.14
I32	12 Nov 2015	10	18.38	68.31	7.4	33.51	8.2	24.0	1.96
I32	20 Nov 2015	1	18.50	85.30	7.2	33.58	8.2	24.1	0.92
I32	20 Nov 2015	2	18.21	85.23	7.3	33.58	8.2	24.1	1.05
I32	20 Nov 2015	3	18.10	83.51	7.3	33.58	8.2	24.2	1.33
I32	20 Nov 2015	4	18.07	82.32	7.3	33.58	8.2	24.2	1.66
I32	20 Nov 2015	5	18.06	81.63	7.3	33.58	8.2	24.2	2.04
I32	20 Nov 2015	6	18.04	79.48	7.3	33.58	8.2	24.2	2.43
I32	20 Nov 2015	7	18.03	79.88	7.3	33.58	8.2	24.2	2.63
I32	20 Nov 2015	8	18.01	80.17	7.4	33.59	8.2	24.2	2.58
I32	20 Nov 2015	9	18.01	79.89	7.4	33.60	8.2	24.2	2.45
I32	20 Nov 2015	10	18.00	79.04	7.4	33.61	8.2	24.2	2.39
I32	24 Nov 2015	1	19.31	84.67	7.3	33.61	8.2	23.9	0.77
I32	24 Nov 2015	2	19.31	84.80	7.3	33.61	8.2	23.9	0.78
I32	24 Nov 2015	3	19.31	84.91	7.2	33.61	8.2	23.9	0.77
I32	24 Nov 2015	4	19.32	84.99	7.3	33.61	8.2	23.9	0.76
I32	24 Nov 2015	5	19.32	84.78	7.2	33.61	8.2	23.9	0.78
I32	24 Nov 2015	6	19.32	84.93	7.3	33.61	8.2	23.9	0.77
I32	24 Nov 2015	7	19.32	84.91	7.2	33.61	8.2	23.9	0.77
I32	24 Nov 2015	8	19.32	84.42	7.2	33.61	8.2	23.9	0.75
I32	24 Nov 2015	9	19.32	84.40	7.2	33.61	8.2	23.9	0.75
I32	30 Nov 2015	1	17.82	79.68	7.4	33.65	8.2	24.3	1.50
I32	30 Nov 2015	2	17.82	79.81	7.4	33.65	8.2	24.3	1.53
I32	30 Nov 2015	3	17.80	79.79	7.5	33.65	8.2	24.3	1.67
I32	30 Nov 2015	4	17.75	79.75	7.5	33.65	8.2	24.3	1.77
I32	30 Nov 2015	5	17.72	79.58	7.5	33.65	8.2	24.3	1.83
I32	30 Nov 2015	6	17.71	79.57	7.5	33.65	8.2	24.3	1.85
I32	30 Nov 2015	7	17.68	79.46	7.5	33.65	8.2	24.3	1.83
I32	30 Nov 2015	8	17.65	79.70	7.5	33.65	8.2	24.3	1.87
I32	30 Nov 2015	9	17.62	79.81	7.5	33.65	8.2	24.3	1.73
I32	30 Nov 2015	10	17.59	79.98	7.6	33.65	8.2	24.3	1.67
I39	07 Nov 2015	1	18.90	90.04	7.2	33.46	8.1	23.9	0.62
I39	07 Nov 2015	2	18.89	89.72	7.2	33.46	8.2	23.9	0.64
I39	07 Nov 2015	3	18.89	89.18	7.2	33.46	8.2	23.9	0.75
I39	07 Nov 2015	4	18.87	90.25	7.2	33.45	8.2	23.9	0.82
I39	07 Nov 2015	5	18.86	90.21	7.2	33.46	8.2	23.9	1.05
I39	07 Nov 2015	6	18.85	89.39	7.1	33.46	8.1	23.9	1.17
I39	07 Nov 2015	7	18.85	88.57	7.2	33.46	8.1	23.9	1.32
I39	07 Nov 2015	8	18.84	88.34	7.1	33.46	8.1	23.9	1.41
I39	07 Nov 2015	9	18.82	88.23	7.1	33.46	8.1	23.9	1.47
I39	07 Nov 2015	10	18.81	88.31	7.0	33.46	8.1	23.9	1.56
I39	07 Nov 2015	11	18.76	88.28	7.0	33.45	8.1	23.9	1.63

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	07 Nov 2015	12	18.72	88.42	7.1	33.45	8.1	23.9	1.62
I39	07 Nov 2015	13	18.66	88.41	7.0	33.44	8.1	23.9	1.65
I39	07 Nov 2015	14	18.54	88.50	6.9	33.43	8.1	23.9	1.59
I39	07 Nov 2015	15	18.42	87.38	6.4	33.42	8.1	24.0	1.40
I39	07 Nov 2015	16	18.27	84.20	6.1	33.41	8.1	24.0	1.31
I39	07 Nov 2015	17	18.23	79.25	6.1	33.41	8.1	24.0	1.27
I39	07 Nov 2015	18	18.12	77.27	6.1	33.40	8.1	24.0	1.24
I39	13 Nov 2015	1	18.25	87.26	7.4	33.46	8.2	24.0	0.74
I39	13 Nov 2015	2	18.25	87.57	7.4	33.46	8.2	24.0	0.75
I39	13 Nov 2015	3	18.25	88.12	7.4	33.46	8.2	24.0	0.82
I39	13 Nov 2015	4	18.25	88.21	7.4	33.46	8.2	24.0	0.92
I39	13 Nov 2015	5	18.25	88.27	7.4	33.46	8.2	24.0	0.89
I39	13 Nov 2015	6	18.25	88.20	7.4	33.46	8.2	24.0	0.97
I39	13 Nov 2015	7	18.25	88.00	7.4	33.46	8.2	24.0	1.05
I39	13 Nov 2015	8	18.25	88.22	7.4	33.46	8.2	24.0	1.04
I39	13 Nov 2015	9	18.25	88.23	7.4	33.46	8.2	24.0	1.03
I39	13 Nov 2015	10	18.24	88.22	7.4	33.46	8.2	24.0	1.06
I39	13 Nov 2015	11	18.24	88.30	7.4	33.46	8.2	24.0	1.09
I39	13 Nov 2015	12	18.24	88.32	7.4	33.46	8.2	24.0	1.13
I39	13 Nov 2015	13	18.24	88.28	7.4	33.46	8.2	24.0	1.11
I39	13 Nov 2015	14	18.24	88.19	7.4	33.46	8.2	24.0	1.14
I39	13 Nov 2015	15	18.24	88.27	7.4	33.46	8.2	24.0	1.14
I39	13 Nov 2015	16	18.24	88.12	7.4	33.46	8.2	24.0	1.16
I39	13 Nov 2015	17	18.18	87.81	7.3	33.45	8.2	24.0	1.22
I39	13 Nov 2015	18	18.03	87.51	7.1	33.42	8.2	24.1	1.22
I39	20 Nov 2015	1	18.24	89.15	7.1	33.58	8.2	24.1	0.92
I39	20 Nov 2015	2	18.24	89.23	7.1	33.57	8.2	24.1	0.91
I39	20 Nov 2015	3	18.15	89.05	7.1	33.57	8.2	24.1	1.02
I39	20 Nov 2015	4	18.13	88.83	7.1	33.57	8.2	24.1	1.10
I39	20 Nov 2015	5	18.12	88.59	7.1	33.57	8.2	24.1	1.18
I39	20 Nov 2015	6	18.11	88.46	7.1	33.57	8.2	24.2	1.25
I39	20 Nov 2015	7	18.10	88.39	7.1	33.57	8.2	24.2	1.38
I39	20 Nov 2015	8	18.10	88.32	7.2	33.57	8.2	24.2	1.50
I39	20 Nov 2015	9	18.09	88.20	7.1	33.57	8.2	24.2	1.63
I39	20 Nov 2015	10	18.07	88.24	7.1	33.57	8.2	24.2	1.63
I39	20 Nov 2015	11	18.06	88.12	7.1	33.57	8.2	24.2	1.65
I39	20 Nov 2015	12	18.03	88.18	7.0	33.56	8.2	24.2	1.66
I39	20 Nov 2015	13	17.87	88.30	7.0	33.54	8.2	24.2	1.81
I39	20 Nov 2015	14	17.82	88.53	7.0	33.53	8.2	24.2	1.87
I39	20 Nov 2015	15	17.81	88.85	7.0	33.53	8.2	24.2	1.88
I39	20 Nov 2015	16	17.80	89.18	6.9	33.54	8.2	24.2	1.97
I39	20 Nov 2015	17	17.72	88.99	6.7	33.53	8.1	24.2	2.01
I39	20 Nov 2015	18	17.42	87.50	6.5	33.50	8.1	24.3	1.83
I39	24 Nov 2015	1	19.04	83.95	7.2	33.59	8.2	23.9	0.96
I39	24 Nov 2015	2	19.04	83.87	7.2	33.59	8.2	23.9	0.98
I39	24 Nov 2015	3	19.03	83.97	7.2	33.59	8.1	23.9	1.01
I39	24 Nov 2015	4	19.01	84.00	7.2	33.59	8.1	23.9	1.06
I39	24 Nov 2015	5	18.98	83.98	7.2	33.58	8.2	23.9	1.02
I39	24 Nov 2015	6	18.96	83.96	7.3	33.58	8.2	23.9	1.05
I39	24 Nov 2015	7	18.87	84.49	7.3	33.58	8.2	24.0	1.02
I39	24 Nov 2015	8	18.83	85.31	7.4	33.58	8.2	24.0	1.03
I39	24 Nov 2015	9	18.80	85.75	7.4	33.57	8.2	24.0	1.04

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	24 Nov 2015	10	18.69	85.25	7.4	33.56	8.2	24.0	1.15
I39	24 Nov 2015	11	18.64	84.99	7.4	33.57	8.2	24.0	1.23
I39	24 Nov 2015	12	18.60	84.58	7.4	33.56	8.2	24.0	1.24
I39	24 Nov 2015	13	18.60	84.20	7.4	33.57	8.2	24.0	1.24
I39	24 Nov 2015	14	18.59	84.07	7.3	33.56	8.2	24.0	1.30
I39	24 Nov 2015	15	18.59	83.51	7.3	33.56	8.2	24.0	1.31
I39	24 Nov 2015	16	18.59	83.44	7.3	33.57	8.2	24.0	1.22
I39	24 Nov 2015	17	18.59	82.93	7.3	33.57	8.2	24.0	1.16
I39	30 Nov 2015	1	18.12	85.87	7.2	33.64	8.2	24.2	0.78
I39	30 Nov 2015	2	18.10	85.83	7.2	33.64	8.2	24.2	0.81
I39	30 Nov 2015	3	18.09	85.91	7.2	33.64	8.2	24.2	0.85
I39	30 Nov 2015	4	18.08	85.93	7.2	33.63	8.2	24.2	0.95
I39	30 Nov 2015	5	18.08	85.99	7.2	33.64	8.2	24.2	0.97
I39	30 Nov 2015	6	18.08	85.88	7.2	33.64	8.2	24.2	1.01
I39	30 Nov 2015	7	18.08	86.00	7.3	33.64	8.2	24.2	1.02
I39	30 Nov 2015	8	18.08	86.09	7.3	33.64	8.2	24.2	1.10
I39	30 Nov 2015	9	18.08	86.16	7.3	33.64	8.2	24.2	1.11
I39	30 Nov 2015	10	18.07	85.84	7.3	33.64	8.2	24.2	1.10
I39	30 Nov 2015	11	18.07	85.86	7.3	33.64	8.2	24.2	1.16
I39	30 Nov 2015	12	18.07	85.77	7.3	33.64	8.2	24.2	1.25
I39	30 Nov 2015	13	18.07	85.79	7.3	33.64	8.2	24.2	1.12
I39	30 Nov 2015	14	18.06	85.77	7.2	33.64	8.2	24.2	1.17
I39	30 Nov 2015	15	18.06	85.78	7.3	33.64	8.2	24.2	1.19
I39	30 Nov 2015	16	18.05	85.88	7.2	33.64	8.2	24.2	1.30
I39	30 Nov 2015	17	18.06	86.00	7.2	33.64	8.2	24.2	1.16
I39	30 Nov 2015	18	18.05	85.93	7.2	33.64	8.2	24.2	1.13
I40	07 Nov 2015	1	18.88	66.03	7.1	33.47	8.1	23.9	1.73
I40	07 Nov 2015	2	18.85	66.02	7.1	33.47	8.1	23.9	2.23
I40	07 Nov 2015	3	18.80	65.84	7.1	33.47	8.1	23.9	2.75
I40	07 Nov 2015	4	18.78	64.68	7.1	33.47	8.1	23.9	3.06
I40	07 Nov 2015	5	18.73	64.24	7.0	33.47	8.1	23.9	3.16
I40	07 Nov 2015	6	18.68	62.62	6.9	33.47	8.1	23.9	3.13
I40	07 Nov 2015	7	18.65	62.16	6.9	33.47	8.1	23.9	2.94
I40	07 Nov 2015	8	18.60	61.79	7.0	33.47	8.1	23.9	2.73
I40	07 Nov 2015	9	18.56	59.93	7.0	33.46	8.1	24.0	2.66
I40	07 Nov 2015	10	18.56	57.30	6.9	33.46	8.1	24.0	2.66
I40	13 Nov 2015	1	18.29	80.90	7.3	33.48	8.2	24.0	1.00
I40	13 Nov 2015	2	18.26	80.54	7.3	33.48	8.2	24.0	1.15
I40	13 Nov 2015	3	18.25	80.10	7.4	33.49	8.2	24.1	1.30
I40	13 Nov 2015	4	18.21	78.01	7.4	33.50	8.2	24.1	1.61
I40	13 Nov 2015	5	18.18	75.78	7.4	33.50	8.2	24.1	1.93
I40	13 Nov 2015	6	18.02	70.77	7.4	33.45	8.2	24.1	2.23
I40	13 Nov 2015	7	17.90	63.09	7.5	33.45	8.2	24.1	2.24
I40	13 Nov 2015	8	17.92	61.22	7.4	33.46	8.2	24.1	2.17
I40	13 Nov 2015	9	17.97	60.57	7.4	33.48	8.2	24.1	2.01
I40	13 Nov 2015	10	18.02	64.74	7.3	33.51	8.2	24.1	1.93
I40	20 Nov 2015	1	18.16	72.70	7.4	33.58	8.2	24.1	1.61
I40	20 Nov 2015	2	18.01	72.60	7.4	33.58	8.2	24.2	1.99
I40	20 Nov 2015	3	17.91	72.06	7.4	33.58	8.2	24.2	2.57
I40	20 Nov 2015	4	17.88	71.01	7.3	33.58	8.2	24.2	3.13
I40	20 Nov 2015	5	17.86	69.33	7.4	33.58	8.2	24.2	3.46

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I40	20 Nov 2015	6	17.85	67.92	7.4	33.58	8.2	24.2	3.51
I40	20 Nov 2015	7	17.84	67.46	7.4	33.58	8.2	24.2	3.38
I40	20 Nov 2015	8	17.78	66.73	7.4	33.58	8.2	24.2	3.02
I40	20 Nov 2015	9	17.66	66.54	7.3	33.58	8.2	24.3	2.68
I40	20 Nov 2015	10	17.62	66.34	7.3	33.58	8.1	24.3	2.61
I40	24 Nov 2015	1	18.98	82.43	7.3	33.57	8.1	23.9	1.08
I40	24 Nov 2015	2	18.96	83.04	7.3	33.57	8.1	23.9	1.06
I40	24 Nov 2015	3	18.97	83.36	7.3	33.57	8.1	23.9	1.09
I40	24 Nov 2015	4	18.97	83.47	7.3	33.57	8.1	23.9	1.09
I40	24 Nov 2015	5	18.97	83.36	7.3	33.57	8.1	23.9	1.11
I40	24 Nov 2015	6	18.96	82.62	7.3	33.57	8.1	23.9	1.12
I40	24 Nov 2015	7	18.95	81.93	7.3	33.57	8.1	23.9	1.15
I40	24 Nov 2015	8	18.95	81.31	7.3	33.57	8.1	23.9	1.19
I40	24 Nov 2015	9	18.93	81.05	7.3	33.56	8.1	23.9	1.13
I40	30 Nov 2015	1	17.65	75.45	7.6	33.59	8.2	24.3	1.60
I40	30 Nov 2015	2	17.63	75.42	7.6	33.59	8.2	24.3	1.78
I40	30 Nov 2015	3	17.59	74.72	7.5	33.59	8.2	24.3	2.09
I40	30 Nov 2015	4	17.58	72.90	7.5	33.59	8.2	24.3	2.34
I40	30 Nov 2015	5	17.56	71.63	7.5	33.59	8.2	24.3	2.39
I40	30 Nov 2015	6	17.52	70.70	7.5	33.59	8.2	24.3	2.17
I40	30 Nov 2015	7	17.49	71.14	7.5	33.61	8.2	24.3	2.00
I40	30 Nov 2015	8	17.49	72.49	7.5	33.61	8.2	24.3	1.96
I40	30 Nov 2015	9	17.48	70.55	7.5	33.62	8.2	24.3	2.07
I40	30 Nov 2015	10	17.48	69.20	7.6	33.63	8.2	24.4	2.32

NA = not available

Offshore Stations

Table 4.1

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
12 Nov 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
13 Nov 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

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
12 Nov 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
13 Nov 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

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
12 Nov 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
13 Nov 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

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
12 Nov 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
13 Nov 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

Table 4.5

Summary of water quality parameters at the SBOO offshore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected; oil and grease samples (OG) and suspended solids (SUSO) data are reported as mg/L. Duplicates are indicated by *. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I3	09 Nov 2015	940	2	<2	<2	2e	1.0	20.0	90.36	7.3	33.48	8.2	<0.2	<0.2
I3	09 Nov 2015	940	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.6*
I3	09 Nov 2015	940	18	<2	<2	<2	1.0	18.8	89.39	7.5	33.40	8.2	ns	<0.2
I3	09 Nov 2015	940	27	<2	<2	<2	1.0	18.6	88.70	7.4	33.40	8.1	ns	<0.2
I5	09 Nov 2015	1003	2	<2	<2	<2	1.0	19.3	87.88	7.4	33.46	8.2	<0.2	<0.2
I5	09 Nov 2015	1003	6	<2	<2	<2	1.0	18.7	80.40	7.1	33.44	8.1	ns	3.2
I5	09 Nov 2015	1003	11	2e	<2	<2	1.0	18.4	68.43	6.8	33.42	8.1	ns	4.8
I7	09 Nov 2015	831	2	<2	<2	2e	1.0	21.1	89.34	7.1	33.61	8.2	<0.2	<0.2
I7	09 Nov 2015	831	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I7	09 Nov 2015	831	18	<2	<2	<2	1.0	20.7	90.36	7.2	33.53	8.2	ns	<0.2
I7	09 Nov 2015	831	52	2e	<2	6e	1.0	15.6	88.85	6.3	33.39	8.1	ns	3.0
I8	09 Nov 2015	1112	2	<2	<2	<2	1.0	20.6	89.48	7.2	33.51	8.2	<0.2	<0.2
I8	09 Nov 2015	1112	18	<2	<2	<2	1.0	20.2	90.07	7.3	33.49	8.2	ns	<0.2
I8	09 Nov 2015	1112	37	<2	<2	<2	1.0	17.9	87.38	7.2	33.38	8.1	ns	<0.2
I9	09 Nov 2015	1059	2	<2	<2	<2	1.0	20.3	89.89	7.3	33.50	8.2	<0.2	<0.2
I9	09 Nov 2015	1059	18	<2	<2	<2	1.0	19.3	89.62	7.6	33.40	8.2	ns	<0.2
I9	09 Nov 2015	1059	27	2e	2e	<2	1.0	18.0	87.11	7.2	33.38	8.1	ns	<0.2
I10	09 Nov 2015	1046	2	<2	<2	<2	1.0	20.0	89.32	7.3	33.49	8.2	<0.2	<0.2
I10	09 Nov 2015	1046	12	<2	<2	<2	1.0	19.4	88.88	7.5	33.46	8.2	ns	<0.2
I10	09 Nov 2015	1046	18	<2	<2	<2	1.0	19.0	87.68	7.2	33.44	8.2	ns	<0.2
I11	09 Nov 2015	1034	2	<2	<2	<2	1.0	19.2	85.96	7.3	33.46	8.1	<0.2	<0.2
I11	09 Nov 2015	1034	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I11	09 Nov 2015	1034	6	<2	<2	<2	1.0	19.1	84.50	7.4	33.46	8.2	ns	<0.2
I11	09 Nov 2015	1034	11	<2	<2	<2	1.0	18.9	79.57	7.0	33.46	8.1	ns	10.0
I12	13 Nov 2015	1042	2	<2	<2	<2	1.0	19.1	88.84	7.4	33.50	8.2	<0.2	<0.2
I12	13 Nov 2015	1042	18	2e	<2	<2	1.0	18.8	88.35	7.4	33.49	8.2	ns	<0.2
I12	13 Nov 2015	1042	27	2e	<2	<2	1.0	17.6	87.14	7.3	33.40	8.2	ns	2.7
I13	09 Nov 2015	1127	2	<2	<2	<2	1.0	20.7	90.24	7.2	33.52	8.2	<0.2	<0.2
I13	09 Nov 2015	1127	18	<2	<2	<2	1.0	20.3	89.87	7.3	33.49	8.2	ns	<0.2
I13	09 Nov 2015	1127	37	<2	<2	<2	1.0	17.8	81.56	7.2	33.38	8.1	ns	3.5
I14	13 Nov 2015	1124	2	<2	<2	<2	1.0	20.0	89.78	7.2	33.58	8.2	<0.2	<0.2
I14	13 Nov 2015	1124	18	<2	<2	<2	1.0	18.7	88.11	7.4	33.48	8.2	ns	<0.2
I14	13 Nov 2015	1124	27	<2	<2	<2	1.0	17.6	87.16	7.3	33.40	8.2	ns	3.3
I16	13 Nov 2015	1033	2	<2	<2	<2	1.0	19.0	88.75	7.4	33.49	8.2	<0.2	<0.2
I16	13 Nov 2015	1033	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I16	13 Nov 2015	1033	18	2e	<2	<2	1.0	18.7	88.33	7.4	33.48	8.2	ns	<0.2

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I16	13 Nov 2015	1033	27	<2	<2	<2	1.0	17.5	87.28	7.2	33.40	8.1	ns	2.6
I18	13 Nov 2015	1012	2	<2	<2	<2	1.0	18.5	83.92	7.4	33.48	8.1	<0.2	2.8
I18	13 Nov 2015	1012	12	<2	<2	<2	1.0	18.4	84.22	7.3	33.47	8.1	ns	<0.2
I18	13 Nov 2015	1012	18	<2	<2	<2	1.0	17.6	85.01	7.3	33.40	8.1	ns	2.5
I20	09 Nov 2015	809	2	<2	<2	20e	1.0	21.0	90.15	7.1	33.58	8.1	<0.2	<0.2
I20	09 Nov 2015	809	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I20	09 Nov 2015	809	18	<2	<2	2e	1.0	21.0	90.26	7.1	33.57	8.1	ns	<0.2
I20	09 Nov 2015	809	55	<2	<2	<2	1.0	16.0	88.31	6.4	33.42	8.0	ns	4.5
I21	09 Nov 2015	1142	2	<2	<2	<2	1.0	20.9	90.11	7.2	33.54	8.2	<0.2	<0.2
I21	09 Nov 2015	1142	18	<2	<2	<2	1.0	20.6	89.85	7.2	33.52	8.2	ns	<0.2
I21	09 Nov 2015	1142	37	<2	<2	<2	1.0	17.7	87.74	7.5	33.35	8.1	ns	<0.2
I22	13 Nov 2015	1138	2	<2	<2	<2	1.0	20.0	89.69	7.2	33.58	8.2	<0.2	<0.2
I22	13 Nov 2015	1138	18	<2	<2	<2	1.0	18.6	87.88	7.4	33.47	8.2	ns	<0.2
I22	13 Nov 2015	1138	27	<2	<2	<2	1.0	17.3	86.61	7.1	33.39	8.1	ns	2.8
I23	13 Nov 2015	1150	2	<2	<2	<2	1.0	18.6	85.17	7.4	33.47	8.2	<0.2	<0.2
I23	13 Nov 2015	1150	12	<2	2e	<2	1.0	18.4	82.78	7.2	33.45	8.2	ns	<0.2
I23	13 Nov 2015	1150	18	<2	<2	<2	1.0	18.0	83.31	6.7	33.40	8.1	ns	4.8
I30	12 Nov 2015	1108	2	<2	<2	<2	1.0	18.9	88.24	7.4	33.48	8.2	<0.2	<0.2
I30	12 Nov 2015	1108	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I30	12 Nov 2015	1108	18	<2	<2	<2	1.0	18.3	86.01	7.4	33.45	8.2	ns	<0.2
I30	12 Nov 2015	1108	27	2e	<2	<2	1.0	16.7	85.47	7.0	33.39	8.1	ns	<0.2
I33	12 Nov 2015	1020	2	<2	<2	<2	1.0	19.7	88.98	7.3	33.53	8.2	<0.2	3.3
I33	12 Nov 2015	1020	18	4e	<2	<2	0.5	18.3	83.99	7.3	33.45	8.2	ns	<0.2
I33	12 Nov 2015	1020	27	<2	<2	<2	1.0	17.8	83.58	7.0	33.42	8.1	ns	3.3
I36	12 Nov 2015	1157	2	<2	<2	<2	1.0	18.6	70.24	7.2	33.49	8.1	<0.2	3.9
I36	12 Nov 2015	1157	6	2e	<2	<2	1.0	18.4	67.08	7.2	33.49	8.1	ns	6.2
I36	12 Nov 2015	1157	11	<20	2e	<2	0.1	18.2	65.22	7.4	33.52	8.2	ns	7.2
I37	12 Nov 2015	956	2	<2	<2	<2	1.0	18.6	77.14	7.2	33.48	8.1	<0.2	<0.2
I37	12 Nov 2015	956	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I37	12 Nov 2015	956	6	<2	<2	<2	1.0	18.5	75.82	7.2	33.48	8.1	ns	3.4
I37	12 Nov 2015	956	11	<2	<2	<2	1.0	18.5	74.55	7.1	33.48	8.1	ns	4.1
I38	12 Nov 2015	1225	2	<2	<2	<2	1.0	18.6	70.95	7.2	33.47	8.2	<0.2	3.9
I38	12 Nov 2015	1225	6	4e	<2	<2	0.5	18.4	69.60	7.1	33.48	8.1	ns	4.8
I38	12 Nov 2015	1225	11	14e	2e	<2	0.1	18.1	59.15	7.3	33.51	8.2	ns	8.6

NA = not available

ns = not sampled

Table 4.6

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

Station	Date	Parameter	Value
I1	09 Nov 2015	Depth (m)	61
I1	09 Nov 2015	Arrive Time	854
I1	09 Nov 2015	Depart Time	906
I1	09 Nov 2015	Air Temp (C)	19
I1	09 Nov 2015	Weather	Partly Cloudy
I1	09 Nov 2015	Visibility (mi)	10
I1	09 Nov 2015	Wind Speed (kts)	5
I1	09 Nov 2015	Wind Dir	SE
I1	09 Nov 2015	Water Color	Blue
I1	09 Nov 2015	Wave Ht Low (ft)	3
I1	09 Nov 2015	Wave Period (sec)	4
I1	09 Nov 2015	Sea State	Light chop
I1	09 Nov 2015	High Tide (ft)	5.56
I1	09 Nov 2015	High Tide Time	711
I1	09 Nov 2015	Low Tide (ft)	0.22
I1	09 Nov 2015	Low Tide Time	1355
I1	09 Nov 2015	Comments	
I2	09 Nov 2015	Depth (m)	34
I2	09 Nov 2015	Arrive Time	926
I2	09 Nov 2015	Depart Time	930
I2	09 Nov 2015	Air Temp (C)	18
I2	09 Nov 2015	Weather	Partly Cloudy
I2	09 Nov 2015	Visibility (mi)	10
I2	09 Nov 2015	Wind Speed (kts)	4
I2	09 Nov 2015	Wind Dir	N
I2	09 Nov 2015	Water Color	Blue
I2	09 Nov 2015	Wave Ht Low (ft)	3
I2	09 Nov 2015	Wave Period (sec)	4
I2	09 Nov 2015	Sea State	Light chop
I2	09 Nov 2015	High Tide (ft)	5.56
I2	09 Nov 2015	High Tide Time	711
I2	09 Nov 2015	Low Tide (ft)	0.22
I2	09 Nov 2015	Low Tide Time	1355
I2	09 Nov 2015	Comments	
I3	09 Nov 2015	Depth (m)	28
I3	09 Nov 2015	Arrive Time	940
I3	09 Nov 2015	Depart Time	944
I3	09 Nov 2015	Air Temp (C)	19
I3	09 Nov 2015	Weather	Partly Cloudy
I3	09 Nov 2015	Visibility (mi)	10
I3	09 Nov 2015	Wind Speed (kts)	5
I3	09 Nov 2015	Wind Dir	N
I3	09 Nov 2015	Water Color	Blue
I3	09 Nov 2015	Wave Ht Low (ft)	3
I3	09 Nov 2015	Wave Period (sec)	4
I3	09 Nov 2015	Sea State	Light chop
I3	09 Nov 2015	High Tide (ft)	5.56
I3	09 Nov 2015	High Tide Time	711
I3	09 Nov 2015	Low Tide (ft)	0.22

Station	Date	Parameter	Value
I3	09 Nov 2015	Low Tide Time	1355
I3	09 Nov 2015	Comments	
I4	09 Nov 2015	Depth (m)	20
I4	09 Nov 2015	Arrive Time	955
I4	09 Nov 2015	Depart Time	958
I4	09 Nov 2015	Air Temp (C)	18
I4	09 Nov 2015	Weather	Partly Cloudy
I4	09 Nov 2015	Visibility (mi)	10
I4	09 Nov 2015	Wind Speed (kts)	6
I4	09 Nov 2015	Wind Dir	SE
I4	09 Nov 2015	Water Color	Blue
I4	09 Nov 2015	Wave Ht Low (ft)	3
I4	09 Nov 2015	Wave Period (sec)	4
I4	09 Nov 2015	Sea State	Light chop
I4	09 Nov 2015	High Tide (ft)	5.56
I4	09 Nov 2015	High Tide Time	711
I4	09 Nov 2015	Low Tide (ft)	0.22
I4	09 Nov 2015	Low Tide Time	1355
I4	09 Nov 2015	Comments	
I5	09 Nov 2015	Depth (m)	15
I5	09 Nov 2015	Arrive Time	1003
I5	09 Nov 2015	Depart Time	1005
I5	09 Nov 2015	Air Temp (C)	18
I5	09 Nov 2015	Weather	Partly Cloudy
I5	09 Nov 2015	Visibility (mi)	10
I5	09 Nov 2015	Wind Speed (kts)	4
I5	09 Nov 2015	Wind Dir	W
I5	09 Nov 2015	Water Color	Blue
I5	09 Nov 2015	Wave Ht Low (ft)	3
I5	09 Nov 2015	Wave Period (sec)	4
I5	09 Nov 2015	Sea State	Light chop
I5	09 Nov 2015	High Tide (ft)	5.56
I5	09 Nov 2015	High Tide Time	711
I5	09 Nov 2015	Low Tide (ft)	0.22
I5	09 Nov 2015	Low Tide Time	1355
I5	09 Nov 2015	Comments	
I6	09 Nov 2015	Depth (m)	26
I6	09 Nov 2015	Arrive Time	1020
I6	09 Nov 2015	Depart Time	1023
I6	09 Nov 2015	Air Temp (C)	19
I6	09 Nov 2015	Weather	Partly Cloudy
I6	09 Nov 2015	Visibility (mi)	10
I6	09 Nov 2015	Wind Speed (kts)	3
I6	09 Nov 2015	Wind Dir	SW
I6	09 Nov 2015	Water Color	Blue
I6	09 Nov 2015	Wave Ht Low (ft)	3
I6	09 Nov 2015	Wave Period (sec)	4
I6	09 Nov 2015	Sea State	Light chop
I6	09 Nov 2015	High Tide (ft)	5.56
I6	09 Nov 2015	High Tide Time	711
I6	09 Nov 2015	Low Tide (ft)	0.22
I6	09 Nov 2015	Low Tide Time	1355

Station	Date	Parameter	Value
I6	09 Nov 2015	Comments	
I7	09 Nov 2015	Depth (m)	52
I7	09 Nov 2015	Arrive Time	831
I7	09 Nov 2015	Depart Time	840
I7	09 Nov 2015	Air Temp (C)	19
I7	09 Nov 2015	Weather	Partly Cloudy
I7	09 Nov 2015	Visibility (mi)	10
I7	09 Nov 2015	Wind Speed (kts)	2
I7	09 Nov 2015	Wind Dir	SE
I7	09 Nov 2015	Water Color	Blue
I7	09 Nov 2015	Wave Ht Low (ft)	3
I7	09 Nov 2015	Wave Period (sec)	4
I7	09 Nov 2015	Sea State	Light chop
I7	09 Nov 2015	High Tide (ft)	5.56
I7	09 Nov 2015	High Tide Time	711
I7	09 Nov 2015	Low Tide (ft)	0.22
I7	09 Nov 2015	Low Tide Time	1355
I7	09 Nov 2015	Comments	
I8	09 Nov 2015	Depth (m)	36
I8	09 Nov 2015	Arrive Time	1112
I8	09 Nov 2015	Depart Time	1117
I8	09 Nov 2015	Air Temp (C)	19
I8	09 Nov 2015	Weather	Partly Cloudy
I8	09 Nov 2015	Visibility (mi)	10
I8	09 Nov 2015	Wind Speed (kts)	5
I8	09 Nov 2015	Wind Dir	N
I8	09 Nov 2015	Water Color	Bluish-Green
I8	09 Nov 2015	Wave Ht Low (ft)	3
I8	09 Nov 2015	Wave Period (sec)	4
I8	09 Nov 2015	Sea State	Light chop
I8	09 Nov 2015	High Tide (ft)	5.56
I8	09 Nov 2015	High Tide Time	711
I8	09 Nov 2015	Low Tide (ft)	0.22
I8	09 Nov 2015	Low Tide Time	1355
I8	09 Nov 2015	Comments	
I9	09 Nov 2015	Depth (m)	30
I9	09 Nov 2015	Arrive Time	1059
I9	09 Nov 2015	Depart Time	1103
I9	09 Nov 2015	Air Temp (C)	19
I9	09 Nov 2015	Weather	Partly Cloudy
I9	09 Nov 2015	Visibility (mi)	10
I9	09 Nov 2015	Wind Speed (kts)	2
I9	09 Nov 2015	Wind Dir	N
I9	09 Nov 2015	Water Color	Bluish-Green
I9	09 Nov 2015	Wave Ht Low (ft)	3
I9	09 Nov 2015	Wave Period (sec)	4
I9	09 Nov 2015	Sea State	Light chop
I9	09 Nov 2015	High Tide (ft)	5.56
I9	09 Nov 2015	High Tide Time	711
I9	09 Nov 2015	Low Tide (ft)	0.22
I9	09 Nov 2015	Low Tide Time	1355
I9	09 Nov 2015	Comments	

Station	Date	Parameter	Value
I10	09 Nov 2015	Depth (m)	20
I10	09 Nov 2015	Arrive Time	1046
I10	09 Nov 2015	Depart Time	1049
I10	09 Nov 2015	Air Temp (C)	19
I10	09 Nov 2015	Weather	Partly Cloudy
I10	09 Nov 2015	Visibility (mi)	10
I10	09 Nov 2015	Wind Speed (kts)	4
I10	09 Nov 2015	Wind Dir	NE
I10	09 Nov 2015	Water Color	Bluish-Green
I10	09 Nov 2015	Wave Ht Low (ft)	3
I10	09 Nov 2015	Wave Period (sec)	4
I10	09 Nov 2015	Sea State	Light chop
I10	09 Nov 2015	High Tide (ft)	5.56
I10	09 Nov 2015	High Tide Time	711
I10	09 Nov 2015	Low Tide (ft)	0.22
I10	09 Nov 2015	Low Tide Time	1355
I10	09 Nov 2015	Comments	Kelp debris
I11	09 Nov 2015	Depth (m)	14
I11	09 Nov 2015	Arrive Time	1034
I11	09 Nov 2015	Depart Time	1039
I11	09 Nov 2015	Air Temp (C)	19
I11	09 Nov 2015	Weather	Partly Cloudy
I11	09 Nov 2015	Visibility (mi)	10
I11	09 Nov 2015	Wind Speed (kts)	5
I11	09 Nov 2015	Wind Dir	SW
I11	09 Nov 2015	Water Color	Bluish-Green
I11	09 Nov 2015	Wave Ht Low (ft)	3
I11	09 Nov 2015	Wave Period (sec)	4
I11	09 Nov 2015	Sea State	Light chop
I11	09 Nov 2015	High Tide (ft)	5.56
I11	09 Nov 2015	High Tide Time	711
I11	09 Nov 2015	Low Tide (ft)	0.22
I11	09 Nov 2015	Low Tide Time	1355
I11	09 Nov 2015	Comments	Kelp debris
I12	13 Nov 2015	Depth (m)	30
I12	13 Nov 2015	Arrive Time	1042
I12	13 Nov 2015	Depart Time	1050
I12	13 Nov 2015	Air Temp (C)	19
I12	13 Nov 2015	Weather	Clear
I12	13 Nov 2015	Visibility (mi)	12
I12	13 Nov 2015	Wind Speed (kts)	5
I12	13 Nov 2015	Wind Dir	S
I12	13 Nov 2015	Water Color	Bluish-Green
I12	13 Nov 2015	Wave Ht Low (ft)	2
I12	13 Nov 2015	Wave Period (sec)	9
I12	13 Nov 2015	Sea State	Calm
I12	13 Nov 2015	High Tide (ft)	5.77
I12	13 Nov 2015	High Tide Time	859
I12	13 Nov 2015	Low Tide (ft)	-0.21
I12	13 Nov 2015	Low Tide Time	1611
I12	13 Nov 2015	Comments	

Station	Date	Parameter	Value
I13	09 Nov 2015	Depth (m)	38
I13	09 Nov 2015	Arrive Time	1127
I13	09 Nov 2015	Depart Time	1131
I13	09 Nov 2015	Air Temp (C)	19
I13	09 Nov 2015	Weather	Partly Cloudy
I13	09 Nov 2015	Visibility (mi)	10
I13	09 Nov 2015	Wind Speed (kts)	2
I13	09 Nov 2015	Wind Dir	N
I13	09 Nov 2015	Water Color	Bluish-Green
I13	09 Nov 2015	Wave Ht Low (ft)	3
I13	09 Nov 2015	Wave Period (sec)	4
I13	09 Nov 2015	Sea State	Light chop
I13	09 Nov 2015	High Tide (ft)	5.56
I13	09 Nov 2015	High Tide Time	711
I13	09 Nov 2015	Low Tide (ft)	0.22
I13	09 Nov 2015	Low Tide Time	1355
I13	09 Nov 2015	Comments	
I14	13 Nov 2015	Depth (m)	29
I14	13 Nov 2015	Arrive Time	1124
I14	13 Nov 2015	Depart Time	1130
I14	13 Nov 2015	Air Temp (C)	20
I14	13 Nov 2015	Weather	Clear
I14	13 Nov 2015	Visibility (mi)	12
I14	13 Nov 2015	Wind Speed (kts)	8
I14	13 Nov 2015	Wind Dir	S
I14	13 Nov 2015	Water Color	Bluish-Green
I14	13 Nov 2015	Wave Ht Low (ft)	2
I14	13 Nov 2015	Wave Period (sec)	9
I14	13 Nov 2015	Sea State	Calm
I14	13 Nov 2015	High Tide (ft)	5.77
I14	13 Nov 2015	High Tide Time	859
I14	13 Nov 2015	Low Tide (ft)	-0.21
I14	13 Nov 2015	Low Tide Time	1611
I14	13 Nov 2015	Comments	
I15	13 Nov 2015	Depth (m)	33
I15	13 Nov 2015	Arrive Time	1053
I15	13 Nov 2015	Depart Time	1056
I15	13 Nov 2015	Air Temp (C)	20
I15	13 Nov 2015	Weather	Clear
I15	13 Nov 2015	Visibility (mi)	12
I15	13 Nov 2015	Wind Speed (kts)	2
I15	13 Nov 2015	Wind Dir	E
I15	13 Nov 2015	Water Color	Bluish-Green
I15	13 Nov 2015	Wave Ht Low (ft)	2
I15	13 Nov 2015	Wave Period (sec)	9
I15	13 Nov 2015	Sea State	Calm
I15	13 Nov 2015	High Tide (ft)	5.77
I15	13 Nov 2015	High Tide Time	859
I15	13 Nov 2015	Low Tide (ft)	-0.21
I15	13 Nov 2015	Low Tide Time	1611
I15	13 Nov 2015	Comments	
I16	13 Nov 2015	Depth (m)	29

Station	Date	Parameter	Value
I16	13 Nov 2015	Arrive Time	1033
I16	13 Nov 2015	Depart Time	1039
I16	13 Nov 2015	Air Temp (C)	18
I16	13 Nov 2015	Weather	Clear
I16	13 Nov 2015	Visibility (mi)	12
I16	13 Nov 2015	Wind Speed (kts)	6
I16	13 Nov 2015	Wind Dir	NW
I16	13 Nov 2015	Water Color	Bluish-Green
I16	13 Nov 2015	Wave Ht Low (ft)	2
I16	13 Nov 2015	Wave Period (sec)	9
I16	13 Nov 2015	Sea State	Calm
I16	13 Nov 2015	High Tide (ft)	5.77
I16	13 Nov 2015	High Tide Time	859
I16	13 Nov 2015	Low Tide (ft)	-0.21
I16	13 Nov 2015	Low Tide Time	1611
I16	13 Nov 2015	Comments	
I17	13 Nov 2015	Depth (m)	27
I17	13 Nov 2015	Arrive Time	1024
I17	13 Nov 2015	Depart Time	1028
I17	13 Nov 2015	Air Temp (C)	18
I17	13 Nov 2015	Weather	Clear
I17	13 Nov 2015	Visibility (mi)	12
I17	13 Nov 2015	Wind Speed (kts)	4
I17	13 Nov 2015	Wind Dir	E
I17	13 Nov 2015	Water Color	Green
I17	13 Nov 2015	Wave Ht Low (ft)	2
I17	13 Nov 2015	Wave Period (sec)	9
I17	13 Nov 2015	Sea State	Calm
I17	13 Nov 2015	High Tide (ft)	5.77
I17	13 Nov 2015	High Tide Time	859
I17	13 Nov 2015	Low Tide (ft)	-0.21
I17	13 Nov 2015	Low Tide Time	1611
I17	13 Nov 2015	Comments	
I18	13 Nov 2015	Depth (m)	22
I18	13 Nov 2015	Arrive Time	1012
I18	13 Nov 2015	Depart Time	1015
I18	13 Nov 2015	Air Temp (C)	19
I18	13 Nov 2015	Weather	Clear
I18	13 Nov 2015	Visibility (mi)	12
I18	13 Nov 2015	Wind Speed (kts)	4
I18	13 Nov 2015	Wind Dir	W
I18	13 Nov 2015	Water Color	Green
I18	13 Nov 2015	Wave Ht Low (ft)	2
I18	13 Nov 2015	Wave Period (sec)	9
I18	13 Nov 2015	Sea State	Calm
I18	13 Nov 2015	High Tide (ft)	5.77
I18	13 Nov 2015	High Tide Time	859
I18	13 Nov 2015	Low Tide (ft)	-0.21
I18	13 Nov 2015	Low Tide Time	1611
I18	13 Nov 2015	Comments	Kelp debris
I20	09 Nov 2015	Depth (m)	56
I20	09 Nov 2015	Arrive Time	809

Station	Date	Parameter	Value
I20	09 Nov 2015	Depart Time	815
I20	09 Nov 2015	Air Temp (C)	19
I20	09 Nov 2015	Weather	Partly Cloudy
I20	09 Nov 2015	Visibility (mi)	10
I20	09 Nov 2015	Wind Speed (kts)	7
I20	09 Nov 2015	Wind Dir	SE
I20	09 Nov 2015	Water Color	Blue
I20	09 Nov 2015	Wave Ht Low (ft)	3
I20	09 Nov 2015	Wave Period (sec)	4
I20	09 Nov 2015	Sea State	Light chop
I20	09 Nov 2015	High Tide (ft)	5.56
I20	09 Nov 2015	High Tide Time	711
I20	09 Nov 2015	Low Tide (ft)	0.22
I20	09 Nov 2015	Low Tide Time	1355
I20	09 Nov 2015	Comments	
I21	09 Nov 2015	Depth (m)	41
I21	09 Nov 2015	Arrive Time	1142
I21	09 Nov 2015	Depart Time	1146
I21	09 Nov 2015	Air Temp (C)	20
I21	09 Nov 2015	Weather	Partly Cloudy
I21	09 Nov 2015	Visibility (mi)	10
I21	09 Nov 2015	Wind Speed (kts)	3
I21	09 Nov 2015	Wind Dir	SW
I21	09 Nov 2015	Water Color	Bluish-Green
I21	09 Nov 2015	Wave Ht Low (ft)	3
I21	09 Nov 2015	Wave Period (sec)	4
I21	09 Nov 2015	Sea State	Light chop
I21	09 Nov 2015	High Tide (ft)	5.56
I21	09 Nov 2015	High Tide Time	711
I21	09 Nov 2015	Low Tide (ft)	0.22
I21	09 Nov 2015	Low Tide Time	1355
I21	09 Nov 2015	Comments	
I22	13 Nov 2015	Depth (m)	29
I22	13 Nov 2015	Arrive Time	1138
I22	13 Nov 2015	Depart Time	1141
I22	13 Nov 2015	Air Temp (C)	20
I22	13 Nov 2015	Weather	Clear
I22	13 Nov 2015	Visibility (mi)	12
I22	13 Nov 2015	Wind Speed (kts)	7
I22	13 Nov 2015	Wind Dir	E
I22	13 Nov 2015	Water Color	Bluish-Green
I22	13 Nov 2015	Wave Ht Low (ft)	2
I22	13 Nov 2015	Wave Period (sec)	9
I22	13 Nov 2015	Sea State	Calm
I22	13 Nov 2015	High Tide (ft)	5.77
I22	13 Nov 2015	High Tide Time	859
I22	13 Nov 2015	Low Tide (ft)	-0.21
I22	13 Nov 2015	Low Tide Time	1611
I22	13 Nov 2015	Comments	
I23	13 Nov 2015	Depth (m)	22
I23	13 Nov 2015	Arrive Time	1150
I23	13 Nov 2015	Depart Time	1200

Station	Date	Parameter	Value
I23	13 Nov 2015	Air Temp (C)	20
I23	13 Nov 2015	Weather	Clear
I23	13 Nov 2015	Visibility (mi)	12
I23	13 Nov 2015	Wind Speed (kts)	6
I23	13 Nov 2015	Wind Dir	SW
I23	13 Nov 2015	Water Color	Bluish-Green
I23	13 Nov 2015	Wave Ht Low (ft)	2
I23	13 Nov 2015	Wave Period (sec)	9
I23	13 Nov 2015	Sea State	Calm
I23	13 Nov 2015	High Tide (ft)	5.77
I23	13 Nov 2015	High Tide Time	859
I23	13 Nov 2015	Low Tide (ft)	-0.21
I23	13 Nov 2015	Low Tide Time	1611
I23	13 Nov 2015	Comments	
I27	13 Nov 2015	Depth (m)	30
I27	13 Nov 2015	Arrive Time	839
I27	13 Nov 2015	Depart Time	845
I27	13 Nov 2015	Air Temp (C)	16
I27	13 Nov 2015	Weather	Partly Cloudy
I27	13 Nov 2015	Visibility (mi)	12
I27	13 Nov 2015	Wind Speed (kts)	3
I27	13 Nov 2015	Wind Dir	SW
I27	13 Nov 2015	Water Color	Greenish-Blue
I27	13 Nov 2015	Wave Ht Low (ft)	2
I27	13 Nov 2015	Wave Period (sec)	9
I27	13 Nov 2015	Sea State	Calm
I27	13 Nov 2015	High Tide (ft)	5.77
I27	13 Nov 2015	High Tide Time	859
I27	13 Nov 2015	Low Tide (ft)	-0.21
I27	13 Nov 2015	Low Tide Time	1611
I27	13 Nov 2015	Comments	
I28	12 Nov 2015	Depth (m)	57
I28	12 Nov 2015	Arrive Time	1037
I28	12 Nov 2015	Depart Time	1042
I28	12 Nov 2015	Air Temp (C)	18
I28	12 Nov 2015	Weather	Partly Cloudy
I28	12 Nov 2015	Visibility (mi)	12
I28	12 Nov 2015	Wind Speed (kts)	6
I28	12 Nov 2015	Wind Dir	SE
I28	12 Nov 2015	Water Color	Blue
I28	12 Nov 2015	Wave Ht Low (ft)	3
I28	12 Nov 2015	Wave Period (sec)	16
I28	12 Nov 2015	Sea State	Wind ripples
I28	12 Nov 2015	High Tide (ft)	5.83
I28	12 Nov 2015	High Tide Time	830
I28	12 Nov 2015	Low Tide (ft)	-0.24
I28	12 Nov 2015	Low Tide Time	1533
I28	12 Nov 2015	Comments	
I29	12 Nov 2015	Depth (m)	38
I29	12 Nov 2015	Arrive Time	1055
I29	12 Nov 2015	Depart Time	1059
I29	12 Nov 2015	Air Temp (C)	18

Station	Date	Parameter	Value
I29	12 Nov 2015	Weather	Partly Cloudy
I29	12 Nov 2015	Visibility (mi)	13
I29	12 Nov 2015	Wind Speed (kts)	9
I29	12 Nov 2015	Wind Dir	NW
I29	12 Nov 2015	Water Color	Blue
I29	12 Nov 2015	Wave Ht Low (ft)	3
I29	12 Nov 2015	Wave Period (sec)	16
I29	12 Nov 2015	Sea State	Wind ripples
I29	12 Nov 2015	High Tide (ft)	5.83
I29	12 Nov 2015	High Tide Time	830
I29	12 Nov 2015	Low Tide (ft)	-0.24
I29	12 Nov 2015	Low Tide Time	1533
I29	12 Nov 2015	Comments	
I30	12 Nov 2015	Depth (m)	29
I30	12 Nov 2015	Arrive Time	1108
I30	12 Nov 2015	Depart Time	1113
I30	12 Nov 2015	Air Temp (C)	19
I30	12 Nov 2015	Weather	Partly Cloudy
I30	12 Nov 2015	Visibility (mi)	13
I30	12 Nov 2015	Wind Speed (kts)	4
I30	12 Nov 2015	Wind Dir	N
I30	12 Nov 2015	Water Color	Blue
I30	12 Nov 2015	Wave Ht Low (ft)	3
I30	12 Nov 2015	Wave Period (sec)	16
I30	12 Nov 2015	Sea State	Wind ripples
I30	12 Nov 2015	High Tide (ft)	5.83
I30	12 Nov 2015	High Tide Time	830
I30	12 Nov 2015	Low Tide (ft)	-0.24
I30	12 Nov 2015	Low Tide Time	1533
I30	12 Nov 2015	Comments	
I31	12 Nov 2015	Depth (m)	20
I31	12 Nov 2015	Arrive Time	1122
I31	12 Nov 2015	Depart Time	1125
I31	12 Nov 2015	Air Temp (C)	19
I31	12 Nov 2015	Weather	Partly Cloudy
I31	12 Nov 2015	Visibility (mi)	13
I31	12 Nov 2015	Wind Speed (kts)	3
I31	12 Nov 2015	Wind Dir	NE
I31	12 Nov 2015	Water Color	Greenish-Blue
I31	12 Nov 2015	Wave Ht Low (ft)	3
I31	12 Nov 2015	Wave Period (sec)	16
I31	12 Nov 2015	Sea State	Wind ripples
I31	12 Nov 2015	High Tide (ft)	5.83
I31	12 Nov 2015	High Tide Time	830
I31	12 Nov 2015	Low Tide (ft)	-0.24
I31	12 Nov 2015	Low Tide Time	1533
I31	12 Nov 2015	Comments	
I33	12 Nov 2015	Depth (m)	33
I33	12 Nov 2015	Arrive Time	1020
I33	12 Nov 2015	Depart Time	1025
I33	12 Nov 2015	Air Temp (C)	18
I33	12 Nov 2015	Weather	Partly Cloudy

Station	Date	Parameter	Value
I33	12 Nov 2015	Visibility (mi)	12
I33	12 Nov 2015	Wind Speed (kts)	5
I33	12 Nov 2015	Wind Dir	SE
I33	12 Nov 2015	Water Color	Blue
I33	12 Nov 2015	Wave Ht Low (ft)	3
I33	12 Nov 2015	Wave Period (sec)	16
I33	12 Nov 2015	Sea State	Wind ripples
I33	12 Nov 2015	High Tide (ft)	5.83
I33	12 Nov 2015	High Tide Time	830
I33	12 Nov 2015	Low Tide (ft)	-0.24
I33	12 Nov 2015	Low Tide Time	1533
I33	12 Nov 2015	Comments	
I34	12 Nov 2015	Depth (m)	20
I34	12 Nov 2015	Arrive Time	1007
I34	12 Nov 2015	Depart Time	1012
I34	12 Nov 2015	Air Temp (C)	18
I34	12 Nov 2015	Weather	Partly Cloudy
I34	12 Nov 2015	Visibility (mi)	12
I34	12 Nov 2015	Wind Speed (kts)	2
I34	12 Nov 2015	Wind Dir	SW
I34	12 Nov 2015	Water Color	Blue
I34	12 Nov 2015	Wave Ht Low (ft)	3
I34	12 Nov 2015	Wave Period (sec)	16
I34	12 Nov 2015	Sea State	Wind ripples
I34	12 Nov 2015	High Tide (ft)	5.83
I34	12 Nov 2015	High Tide Time	830
I34	12 Nov 2015	Low Tide (ft)	-0.24
I34	12 Nov 2015	Low Tide Time	1533
I34	12 Nov 2015	Comments	
I35	12 Nov 2015	Depth (m)	19
I35	12 Nov 2015	Arrive Time	1211
I35	12 Nov 2015	Depart Time	1214
I35	12 Nov 2015	Air Temp (C)	19
I35	12 Nov 2015	Weather	Partly Cloudy
I35	12 Nov 2015	Visibility (mi)	13
I35	12 Nov 2015	Wind Speed (kts)	11
I35	12 Nov 2015	Wind Dir	S
I35	12 Nov 2015	Water Color	Bluish-Green
I35	12 Nov 2015	Wave Ht Low (ft)	3
I35	12 Nov 2015	Wave Period (sec)	16
I35	12 Nov 2015	Sea State	Wind ripples
I35	12 Nov 2015	High Tide (ft)	5.83
I35	12 Nov 2015	High Tide Time	830
I35	12 Nov 2015	Low Tide (ft)	-0.24
I35	12 Nov 2015	Low Tide Time	1533
I35	12 Nov 2015	Comments	
I36	12 Nov 2015	Depth (m)	12
I36	12 Nov 2015	Arrive Time	1157
I36	12 Nov 2015	Depart Time	1201
I36	12 Nov 2015	Air Temp (C)	19
I36	12 Nov 2015	Weather	Partly Cloudy
I36	12 Nov 2015	Visibility (mi)	13

Station	Date	Parameter	Value
I36	12 Nov 2015	Wind Speed (kts)	8
I36	12 Nov 2015	Wind Dir	SE
I36	12 Nov 2015	Water Color	Bluish-Green
I36	12 Nov 2015	Wave Ht Low (ft)	3
I36	12 Nov 2015	Wave Period (sec)	16
I36	12 Nov 2015	Sea State	Wind ripples
I36	12 Nov 2015	High Tide (ft)	5.83
I36	12 Nov 2015	High Tide Time	830
I36	12 Nov 2015	Low Tide (ft)	-0.24
I36	12 Nov 2015	Low Tide Time	1533
I36	12 Nov 2015	Comments	
I37	12 Nov 2015	Depth (m)	14
I37	12 Nov 2015	Arrive Time	956
I37	12 Nov 2015	Depart Time	1001
I37	12 Nov 2015	Air Temp (C)	17
I37	12 Nov 2015	Weather	Partly Cloudy
I37	12 Nov 2015	Visibility (mi)	12
I37	12 Nov 2015	Wind Speed (kts)	2
I37	12 Nov 2015	Wind Dir	E
I37	12 Nov 2015	Water Color	Blue
I37	12 Nov 2015	Wave Ht Low (ft)	3
I37	12 Nov 2015	Wave Period (sec)	16
I37	12 Nov 2015	Sea State	Wind ripples
I37	12 Nov 2015	High Tide (ft)	5.83
I37	12 Nov 2015	High Tide Time	830
I37	12 Nov 2015	Low Tide (ft)	-0.24
I37	12 Nov 2015	Low Tide Time	1533
I37	12 Nov 2015	Comments	Kelp debris
I38	12 Nov 2015	Depth (m)	12
I38	12 Nov 2015	Arrive Time	1225
I38	12 Nov 2015	Depart Time	1230
I38	12 Nov 2015	Air Temp (C)	20
I38	12 Nov 2015	Weather	Partly Cloudy
I38	12 Nov 2015	Visibility (mi)	13
I38	12 Nov 2015	Wind Speed (kts)	5
I38	12 Nov 2015	Wind Dir	NE
I38	12 Nov 2015	Water Color	Bluish-Green
I38	12 Nov 2015	Wave Ht Low (ft)	3
I38	12 Nov 2015	Wave Period (sec)	16
I38	12 Nov 2015	Sea State	Wind ripples
I38	12 Nov 2015	High Tide (ft)	5.83
I38	12 Nov 2015	High Tide Time	830
I38	12 Nov 2015	Low Tide (ft)	-0.24
I38	12 Nov 2015	Low Tide Time	1533
I38	12 Nov 2015	Comments	

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	09 Nov 2015	1	21.72	90.16	7.0	33.78	8.2	23.4	0.25
I1	09 Nov 2015	2	21.72	89.76	7.0	33.78	8.2	23.4	0.25
I1	09 Nov 2015	3	21.72	90.37	7.0	33.78	8.2	23.4	0.25
I1	09 Nov 2015	4	21.72	90.48	6.9	33.78	8.2	23.4	0.26
I1	09 Nov 2015	5	21.72	90.45	6.9	33.78	8.2	23.4	0.26
I1	09 Nov 2015	6	21.72	90.48	6.9	33.78	8.2	23.4	0.25
I1	09 Nov 2015	7	21.72	90.48	6.9	33.78	8.2	23.4	0.26
I1	09 Nov 2015	8	21.71	90.48	6.9	33.78	8.2	23.4	0.27
I1	09 Nov 2015	9	21.71	90.47	7.0	33.78	8.2	23.4	0.27
I1	09 Nov 2015	10	21.71	90.46	6.9	33.78	8.2	23.4	0.28
I1	09 Nov 2015	11	21.71	90.47	7.0	33.77	8.2	23.4	0.30
I1	09 Nov 2015	12	21.71	90.46	7.0	33.77	8.2	23.4	0.30
I1	09 Nov 2015	13	21.70	90.47	7.0	33.77	8.2	23.4	0.31
I1	09 Nov 2015	14	21.70	90.46	6.9	33.77	8.2	23.4	0.32
I1	09 Nov 2015	15	21.70	90.44	6.9	33.77	8.2	23.4	0.33
I1	09 Nov 2015	16	21.70	90.44	7.0	33.77	8.2	23.4	0.34
I1	09 Nov 2015	17	21.70	90.47	7.0	33.77	8.2	23.4	0.34
I1	09 Nov 2015	18	21.71	90.43	6.9	33.77	8.2	23.4	0.35
I1	09 Nov 2015	19	21.71	90.46	7.0	33.77	8.2	23.4	0.35
I1	09 Nov 2015	20	21.70	90.46	7.0	33.77	8.2	23.4	0.36
I1	09 Nov 2015	21	21.70	90.47	7.0	33.77	8.2	23.4	0.36
I1	09 Nov 2015	22	21.70	90.44	6.9	33.77	8.2	23.4	0.37
I1	09 Nov 2015	23	21.70	90.44	6.9	33.77	8.2	23.4	0.36
I1	09 Nov 2015	24	21.71	90.44	7.0	33.77	8.2	23.4	0.36
I1	09 Nov 2015	25	21.71	90.45	7.0	33.77	8.2	23.4	0.37
I1	09 Nov 2015	26	21.69	90.45	7.0	33.77	8.2	23.4	0.37
I1	09 Nov 2015	27	21.70	90.45	7.0	33.77	8.2	23.4	0.38
I1	09 Nov 2015	28	21.69	90.44	7.0	33.77	8.2	23.4	0.38
I1	09 Nov 2015	29	21.68	90.41	7.0	33.77	8.2	23.4	0.39
I1	09 Nov 2015	30	21.68	90.39	7.0	33.77	8.2	23.4	0.39
I1	09 Nov 2015	31	21.65	90.40	6.9	33.75	8.2	23.4	0.45
I1	09 Nov 2015	32	21.35	90.32	7.0	33.66	8.2	23.4	0.56
I1	09 Nov 2015	33	21.00	89.98	7.1	33.60	8.2	23.4	0.64
I1	09 Nov 2015	34	20.90	89.78	7.1	33.58	8.2	23.4	0.73
I1	09 Nov 2015	35	20.60	89.60	7.2	33.52	8.2	23.5	0.86
I1	09 Nov 2015	36	20.47	89.33	7.3	33.53	8.2	23.5	0.91
I1	09 Nov 2015	37	20.44	89.43	7.3	33.52	8.2	23.5	0.94
I1	09 Nov 2015	38	20.40	89.27	7.2	33.51	8.2	23.5	1.00
I1	09 Nov 2015	39	20.12	89.24	7.2	33.47	8.2	23.6	1.14
I1	09 Nov 2015	40	19.77	89.04	7.4	33.47	8.2	23.7	1.29
I1	09 Nov 2015	41	19.89	89.12	7.3	33.46	8.2	23.6	1.38
I1	09 Nov 2015	42	19.37	88.71	7.3	33.43	8.2	23.7	1.61
I1	09 Nov 2015	43	18.97	88.43	7.4	33.42	8.2	23.8	1.69
I1	09 Nov 2015	44	18.84	88.46	7.4	33.43	8.1	23.9	1.74
I1	09 Nov 2015	45	18.67	88.45	7.4	33.42	8.1	23.9	1.79
I1	09 Nov 2015	46	18.41	88.38	7.4	33.39	8.1	23.9	1.86
I1	09 Nov 2015	47	18.16	88.30	7.4	33.39	8.1	24.0	1.85
I1	09 Nov 2015	48	17.64	88.36	7.3	33.36	8.1	24.1	1.75
I1	09 Nov 2015	49	17.22	88.55	7.2	33.37	8.1	24.2	1.62
I1	09 Nov 2015	50	17.02	88.64	7.1	33.37	8.1	24.3	1.49
I1	09 Nov 2015	51	16.77	88.73	7.0	33.37	8.1	24.3	1.33

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	09 Nov 2015	52	16.57	88.82	6.9	33.38	8.1	24.4	1.14
I1	09 Nov 2015	53	16.19	88.97	6.6	33.39	8.1	24.5	0.98
I1	09 Nov 2015	54	15.94	88.84	6.5	33.40	8.1	24.5	0.83
I1	09 Nov 2015	55	15.76	88.83	6.5	33.41	8.0	24.6	0.78
I1	09 Nov 2015	56	15.71	88.90	6.5	33.42	8.0	24.6	0.74
I1	09 Nov 2015	57	15.66	88.93	6.5	33.42	8.0	24.6	0.71
I1	09 Nov 2015	58	15.54	88.90	6.4	33.42	8.0	24.6	0.68
I1	09 Nov 2015	59	15.37	88.95	6.3	33.43	8.0	24.7	0.63
I1	09 Nov 2015	60	15.27	88.82	6.3	33.44	8.0	24.7	0.62
I2	09 Nov 2015	1	20.30	89.61	7.3	33.50	8.2	23.5	0.23
I2	09 Nov 2015	2	20.28	90.31	7.3	33.50	8.2	23.5	0.23
I2	09 Nov 2015	3	20.26	90.29	7.3	33.50	8.2	23.6	0.24
I2	09 Nov 2015	4	20.25	90.23	7.3	33.50	8.2	23.6	0.24
I2	09 Nov 2015	5	20.20	90.34	7.3	33.49	8.2	23.6	0.27
I2	09 Nov 2015	6	20.16	90.20	7.3	33.50	8.2	23.6	0.30
I2	09 Nov 2015	7	20.12	90.08	7.3	33.49	8.2	23.6	0.32
I2	09 Nov 2015	8	20.08	90.12	7.3	33.49	8.2	23.6	0.32
I2	09 Nov 2015	9	20.04	90.12	7.3	33.49	8.2	23.6	0.34
I2	09 Nov 2015	10	20.03	90.09	7.3	33.49	8.2	23.6	0.35
I2	09 Nov 2015	11	20.03	90.12	7.3	33.49	8.2	23.6	0.36
I2	09 Nov 2015	12	20.02	90.14	7.4	33.48	8.2	23.6	0.36
I2	09 Nov 2015	13	20.02	90.11	7.3	33.48	8.2	23.6	0.36
I2	09 Nov 2015	14	20.01	90.05	7.3	33.48	8.2	23.6	0.37
I2	09 Nov 2015	15	20.00	90.12	7.4	33.48	8.2	23.6	0.39
I2	09 Nov 2015	16	19.98	90.12	7.3	33.48	8.2	23.6	0.41
I2	09 Nov 2015	17	19.90	90.14	7.4	33.48	8.2	23.6	0.42
I2	09 Nov 2015	18	19.88	90.13	7.3	33.48	8.2	23.6	0.43
I2	09 Nov 2015	19	19.86	90.17	7.4	33.48	8.2	23.6	0.45
I2	09 Nov 2015	20	19.83	90.20	7.4	33.47	8.2	23.6	0.46
I2	09 Nov 2015	21	19.79	90.24	7.4	33.48	8.2	23.7	0.48
I2	09 Nov 2015	22	19.79	90.20	7.4	33.47	8.2	23.7	0.47
I2	09 Nov 2015	23	19.76	90.21	7.4	33.47	8.2	23.7	0.49
I2	09 Nov 2015	24	19.76	90.24	7.3	33.47	8.2	23.7	0.50
I2	09 Nov 2015	25	19.71	90.24	7.4	33.46	8.2	23.7	0.52
I2	09 Nov 2015	26	19.66	90.25	7.4	33.46	8.2	23.7	0.54
I2	09 Nov 2015	27	19.62	90.21	7.4	33.45	8.2	23.7	0.57
I2	09 Nov 2015	28	19.46	90.25	7.4	33.42	8.2	23.7	0.65
I2	09 Nov 2015	29	18.91	90.12	7.4	33.40	8.2	23.8	0.80
I2	09 Nov 2015	30	18.51	89.69	7.3	33.39	8.1	23.9	0.94
I2	09 Nov 2015	31	18.41	89.15	7.3	33.40	8.1	23.9	1.02
I2	09 Nov 2015	32	18.41	89.25	7.3	33.40	8.1	23.9	1.04
I3	09 Nov 2015	1	19.97	90.27	7.3	33.48	8.2	23.6	0.26
I3	09 Nov 2015	2	19.96	90.36	7.3	33.48	8.2	23.6	0.27
I3	09 Nov 2015	3	19.96	90.36	7.3	33.48	8.2	23.6	0.26
I3	09 Nov 2015	4	19.95	90.33	7.3	33.48	8.2	23.6	0.27
I3	09 Nov 2015	5	19.94	90.33	7.3	33.48	8.2	23.6	0.27
I3	09 Nov 2015	6	19.94	90.34	7.3	33.48	8.2	23.6	0.28
I3	09 Nov 2015	7	19.94	90.32	7.3	33.48	8.2	23.6	0.28
I3	09 Nov 2015	8	19.93	90.31	7.3	33.48	8.2	23.6	0.29
I3	09 Nov 2015	9	19.93	90.27	7.3	33.48	8.2	23.6	0.30
I3	09 Nov 2015	10	19.91	90.31	7.4	33.47	8.2	23.6	0.31
I3	09 Nov 2015	11	19.82	90.24	7.4	33.46	8.2	23.6	0.34
I3	09 Nov 2015	12	19.76	90.18	7.4	33.45	8.2	23.6	0.36

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I3	09 Nov 2015	13	19.60	90.06	7.5	33.44	8.2	23.7	0.39
I3	09 Nov 2015	14	19.54	89.97	7.4	33.44	8.2	23.7	0.42
I3	09 Nov 2015	15	19.33	89.96	7.4	33.41	8.2	23.7	0.50
I3	09 Nov 2015	16	19.09	89.84	7.5	33.42	8.2	23.8	0.56
I3	09 Nov 2015	17	18.95	89.63	7.5	33.40	8.2	23.8	0.63
I3	09 Nov 2015	18	18.84	89.39	7.5	33.40	8.2	23.8	0.72
I3	09 Nov 2015	19	18.69	89.28	7.5	33.40	8.2	23.9	0.74
I3	09 Nov 2015	20	18.67	89.09	7.5	33.39	8.1	23.9	0.79
I3	09 Nov 2015	21	18.57	89.07	7.5	33.39	8.1	23.9	0.85
I3	09 Nov 2015	22	18.55	88.91	7.4	33.40	8.1	23.9	0.91
I3	09 Nov 2015	23	18.54	88.73	7.4	33.40	8.1	23.9	0.91
I3	09 Nov 2015	24	18.54	88.77	7.4	33.40	8.1	23.9	0.93
I3	09 Nov 2015	25	18.55	88.62	7.4	33.40	8.1	23.9	0.96
I3	09 Nov 2015	26	18.55	88.65	7.4	33.40	8.1	23.9	1.06
I3	09 Nov 2015	27	18.55	88.70	7.4	33.40	8.1	23.9	1.07
I4	09 Nov 2015	1	19.49	88.74	7.4	33.46	8.0	23.7	0.35
I4	09 Nov 2015	2	19.47	89.23	7.4	33.46	8.1	23.7	0.38
I4	09 Nov 2015	3	19.46	89.22	7.4	33.46	8.1	23.7	0.39
I4	09 Nov 2015	4	19.45	89.30	7.4	33.46	8.1	23.7	0.40
I4	09 Nov 2015	5	19.43	89.31	7.4	33.46	8.1	23.7	0.44
I4	09 Nov 2015	6	19.42	89.28	7.3	33.46	8.1	23.7	0.44
I4	09 Nov 2015	7	19.41	89.22	7.3	33.46	8.1	23.7	0.48
I4	09 Nov 2015	8	19.38	89.21	7.4	33.46	8.1	23.7	0.51
I4	09 Nov 2015	9	19.30	89.14	7.3	33.44	8.1	23.8	0.62
I4	09 Nov 2015	10	19.13	88.63	7.4	33.44	8.1	23.8	0.72
I4	09 Nov 2015	11	19.09	88.62	7.4	33.44	8.1	23.8	0.79
I4	09 Nov 2015	12	19.04	88.34	7.4	33.44	8.1	23.8	0.80
I4	09 Nov 2015	13	19.02	88.31	7.4	33.44	8.1	23.8	0.93
I4	09 Nov 2015	14	18.77	87.97	7.3	33.40	8.1	23.9	1.24
I4	09 Nov 2015	15	18.53	86.48	7.2	33.42	8.1	23.9	1.39
I4	09 Nov 2015	16	18.42	85.26	7.2	33.42	8.0	24.0	1.54
I4	09 Nov 2015	17	18.39	84.52	7.1	33.41	8.0	24.0	1.62
I4	09 Nov 2015	18	18.38	82.85	7.2	33.41	8.0	24.0	1.67
I5	09 Nov 2015	1	19.36	88.15	7.4	33.47	8.2	23.8	0.47
I5	09 Nov 2015	2	19.33	87.88	7.4	33.46	8.2	23.8	0.51
I5	09 Nov 2015	3	19.13	87.52	7.3	33.46	8.2	23.8	0.69
I5	09 Nov 2015	4	19.00	85.77	7.3	33.46	8.1	23.8	0.94
I5	09 Nov 2015	5	18.90	84.49	7.2	33.45	8.1	23.9	1.32
I5	09 Nov 2015	6	18.73	80.40	7.1	33.44	8.1	23.9	1.73
I5	09 Nov 2015	7	18.61	74.30	6.9	33.44	8.1	23.9	2.04
I5	09 Nov 2015	8	18.56	73.19	6.9	33.44	8.1	23.9	2.32
I5	09 Nov 2015	9	18.54	70.70	6.9	33.44	8.1	23.9	2.55
I5	09 Nov 2015	10	18.48	67.10	6.8	33.43	8.1	24.0	2.53
I5	09 Nov 2015	11	18.38	68.43	6.8	33.42	8.1	24.0	2.37
I5	09 Nov 2015	12	18.30	72.14	6.8	33.42	8.1	24.0	2.28
I5	09 Nov 2015	13	18.28	74.36	6.8	33.42	8.1	24.0	2.42
I5	09 Nov 2015	14	18.28	70.88	6.7	33.42	8.1	24.0	2.69
I6	09 Nov 2015	1	20.10	90.11	7.3	33.50	8.2	23.6	0.22
I6	09 Nov 2015	2	20.10	90.21	7.3	33.50	8.2	23.6	0.24
I6	09 Nov 2015	3	20.07	90.21	7.3	33.49	8.2	23.6	0.25
I6	09 Nov 2015	4	19.96	90.13	7.3	33.47	8.2	23.6	0.27
I6	09 Nov 2015	5	19.84	89.98	7.4	33.47	8.2	23.6	0.29

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I6	09 Nov 2015	6	19.78	89.93	7.4	33.45	8.2	23.6	0.31
I6	09 Nov 2015	7	19.69	89.81	7.4	33.45	8.2	23.7	0.35
I6	09 Nov 2015	8	19.68	89.65	7.4	33.46	8.2	23.7	0.37
I6	09 Nov 2015	9	19.63	89.52	7.4	33.45	8.2	23.7	0.45
I6	09 Nov 2015	10	19.57	89.35	7.4	33.45	8.2	23.7	0.48
I6	09 Nov 2015	11	19.52	89.25	7.4	33.44	8.2	23.7	0.54
I6	09 Nov 2015	12	19.44	89.05	7.4	33.42	8.2	23.7	0.60
I6	09 Nov 2015	13	19.34	88.92	7.4	33.41	8.2	23.7	0.64
I6	09 Nov 2015	14	19.31	88.84	7.4	33.41	8.2	23.7	0.71
I6	09 Nov 2015	15	19.26	88.64	7.4	33.42	8.2	23.7	0.80
I6	09 Nov 2015	16	19.23	88.52	7.4	33.43	8.2	23.8	0.93
I6	09 Nov 2015	17	19.18	88.14	7.4	33.44	8.2	23.8	0.95
I6	09 Nov 2015	18	19.02	88.19	7.3	33.42	8.2	23.8	1.03
I6	09 Nov 2015	19	18.77	87.60	7.3	33.41	8.1	23.9	1.24
I6	09 Nov 2015	20	18.44	86.64	7.3	33.38	8.1	23.9	1.33
I6	09 Nov 2015	21	18.28	86.23	7.3	33.38	8.1	24.0	1.39
I6	09 Nov 2015	22	18.19	85.76	7.4	33.38	8.1	24.0	1.40
I6	09 Nov 2015	23	18.17	84.88	7.4	33.38	8.1	24.0	1.44
I6	09 Nov 2015	24	18.17	84.54	7.4	33.38	8.1	24.0	1.50
I6	09 Nov 2015	25	18.17	84.09	7.3	33.38	8.1	24.0	1.48
I6	09 Nov 2015	26	18.18	83.64	7.3	33.38	8.1	24.0	1.43
I7	09 Nov 2015	1	21.14	89.69	7.0	33.61	8.2	23.4	0.29
I7	09 Nov 2015	2	21.14	89.34	7.1	33.61	8.2	23.4	0.29
I7	09 Nov 2015	3	21.13	90.14	7.0	33.61	8.2	23.4	0.30
I7	09 Nov 2015	4	21.13	90.22	7.0	33.61	8.2	23.4	0.30
I7	09 Nov 2015	5	21.12	90.26	7.1	33.61	8.2	23.4	0.29
I7	09 Nov 2015	6	21.12	90.25	7.1	33.61	8.2	23.4	0.31
I7	09 Nov 2015	7	21.12	90.27	7.1	33.61	8.2	23.4	0.31
I7	09 Nov 2015	8	21.12	90.25	7.1	33.61	8.2	23.4	0.32
I7	09 Nov 2015	9	21.13	90.27	7.0	33.61	8.2	23.4	0.33
I7	09 Nov 2015	10	21.11	90.24	7.0	33.61	8.2	23.4	0.33
I7	09 Nov 2015	11	21.10	90.24	7.0	33.61	8.2	23.4	0.34
I7	09 Nov 2015	12	21.10	90.24	7.0	33.60	8.2	23.4	0.35
I7	09 Nov 2015	13	21.04	90.21	7.1	33.59	8.2	23.4	0.37
I7	09 Nov 2015	14	21.00	90.19	7.1	33.58	8.2	23.4	0.37
I7	09 Nov 2015	15	20.90	90.23	7.1	33.56	8.2	23.4	0.39
I7	09 Nov 2015	16	20.85	90.26	7.1	33.55	8.2	23.4	0.39
I7	09 Nov 2015	17	20.75	90.31	7.2	33.53	8.2	23.4	0.40
I7	09 Nov 2015	18	20.70	90.36	7.2	33.53	8.2	23.5	0.40
I7	09 Nov 2015	19	20.67	90.38	7.2	33.52	8.2	23.5	0.43
I7	09 Nov 2015	20	20.61	90.37	7.2	33.52	8.2	23.5	0.43
I7	09 Nov 2015	21	20.54	90.42	7.2	33.52	8.2	23.5	0.43
I7	09 Nov 2015	22	20.46	90.39	7.2	33.51	8.2	23.5	0.45
I7	09 Nov 2015	23	20.38	90.37	7.2	33.50	8.2	23.5	0.45
I7	09 Nov 2015	24	20.27	90.36	7.2	33.49	8.2	23.5	0.46
I7	09 Nov 2015	25	20.06	90.37	7.3	33.48	8.2	23.6	0.49
I7	09 Nov 2015	26	19.98	90.34	7.3	33.48	8.2	23.6	0.50
I7	09 Nov 2015	27	19.93	90.30	7.3	33.48	8.2	23.6	0.51
I7	09 Nov 2015	28	19.89	90.32	7.3	33.47	8.2	23.6	0.51
I7	09 Nov 2015	29	19.82	90.33	7.4	33.46	8.2	23.6	0.53
I7	09 Nov 2015	30	19.71	90.32	7.4	33.46	8.2	23.7	0.58
I7	09 Nov 2015	31	19.55	90.21	7.3	33.44	8.2	23.7	0.69
I7	09 Nov 2015	32	19.08	90.05	7.4	33.35	8.2	23.7	0.93
I7	09 Nov 2015	33	18.38	89.53	7.5	33.38	8.1	23.9	1.05

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
17	09 Nov 2015	34	18.30	89.56	7.5	33.39	8.1	24.0	1.10
17	09 Nov 2015	35	18.25	89.56	7.5	33.39	8.1	24.0	1.12
17	09 Nov 2015	36	18.24	89.60	7.5	33.39	8.1	24.0	1.12
17	09 Nov 2015	37	18.21	89.60	7.5	33.39	8.1	24.0	1.10
17	09 Nov 2015	38	18.14	89.60	7.4	33.39	8.1	24.0	1.15
17	09 Nov 2015	39	18.11	89.46	7.3	33.40	8.1	24.0	1.13
17	09 Nov 2015	40	18.05	89.42	7.3	33.39	8.1	24.0	1.17
17	09 Nov 2015	41	18.01	89.37	7.3	33.40	8.1	24.0	1.14
17	09 Nov 2015	42	17.89	89.31	7.2	33.38	8.1	24.1	1.11
17	09 Nov 2015	43	17.63	89.28	7.1	33.38	8.1	24.1	1.11
17	09 Nov 2015	44	17.37	89.26	7.1	33.39	8.1	24.2	1.12
17	09 Nov 2015	45	17.34	89.12	7.1	33.39	8.1	24.2	1.13
17	09 Nov 2015	46	17.29	89.00	7.1	33.39	8.1	24.2	1.14
17	09 Nov 2015	47	17.27	88.98	7.1	33.39	8.1	24.2	1.12
17	09 Nov 2015	48	17.17	88.98	7.0	33.39	8.1	24.2	1.10
17	09 Nov 2015	49	17.04	88.96	7.0	33.39	8.1	24.3	1.07
17	09 Nov 2015	50	16.85	88.89	6.6	33.36	8.1	24.3	0.92
17	09 Nov 2015	51	15.63	88.85	6.3	33.39	8.1	24.6	0.71
18	09 Nov 2015	1	20.60	89.48	7.2	33.51	8.2	23.5	0.23
18	09 Nov 2015	2	20.58	89.48	7.2	33.51	8.2	23.5	0.24
18	09 Nov 2015	3	20.52	90.00	7.2	33.51	8.2	23.5	0.25
18	09 Nov 2015	4	20.49	90.19	7.2	33.51	8.2	23.5	0.26
18	09 Nov 2015	5	20.47	90.11	7.2	33.51	8.2	23.5	0.25
18	09 Nov 2015	6	20.46	90.13	7.2	33.51	8.2	23.5	0.28
18	09 Nov 2015	7	20.45	90.11	7.2	33.51	8.2	23.5	0.26
18	09 Nov 2015	8	20.44	90.12	7.2	33.51	8.2	23.5	0.29
18	09 Nov 2015	9	20.43	90.14	7.3	33.51	8.2	23.5	0.28
18	09 Nov 2015	10	20.40	90.06	7.3	33.50	8.2	23.5	0.31
18	09 Nov 2015	11	20.30	89.99	7.3	33.50	8.2	23.5	0.33
18	09 Nov 2015	12	20.27	89.95	7.3	33.50	8.2	23.5	0.35
18	09 Nov 2015	13	20.27	89.93	7.3	33.50	8.2	23.6	0.37
18	09 Nov 2015	14	20.27	89.93	7.3	33.51	8.2	23.6	0.38
18	09 Nov 2015	15	20.27	89.95	7.3	33.51	8.2	23.6	0.39
18	09 Nov 2015	16	20.28	90.00	7.3	33.51	8.2	23.6	0.41
18	09 Nov 2015	17	20.27	90.00	7.2	33.51	8.2	23.6	0.41
18	09 Nov 2015	18	20.18	90.07	7.3	33.49	8.2	23.6	0.41
18	09 Nov 2015	19	20.03	90.11	7.3	33.48	8.2	23.6	0.42
18	09 Nov 2015	20	19.86	90.18	7.4	33.47	8.2	23.6	0.43
18	09 Nov 2015	21	19.82	90.17	7.3	33.47	8.2	23.6	0.44
18	09 Nov 2015	22	19.78	90.12	7.4	33.46	8.2	23.6	0.45
18	09 Nov 2015	23	19.74	90.06	7.4	33.46	8.2	23.7	0.48
18	09 Nov 2015	24	19.67	90.04	7.4	33.45	8.2	23.7	0.52
18	09 Nov 2015	25	19.57	89.98	7.5	33.44	8.2	23.7	0.59
18	09 Nov 2015	26	19.51	89.97	7.5	33.44	8.2	23.7	0.59
18	09 Nov 2015	27	19.48	89.98	7.4	33.43	8.2	23.7	0.63
18	09 Nov 2015	28	19.23	89.97	7.5	33.40	8.2	23.7	0.70
18	09 Nov 2015	29	18.96	89.90	7.5	33.40	8.2	23.8	0.83
18	09 Nov 2015	30	18.68	89.63	7.5	33.38	8.2	23.9	0.99
18	09 Nov 2015	31	18.41	89.26	7.5	33.37	8.2	23.9	1.14
18	09 Nov 2015	32	18.23	88.92	7.5	33.37	8.2	24.0	1.28
18	09 Nov 2015	33	18.11	88.79	7.3	33.37	8.1	24.0	1.32
18	09 Nov 2015	34	17.94	87.93	7.3	33.38	8.1	24.0	1.36
18	09 Nov 2015	35	17.91	87.70	7.2	33.38	8.1	24.1	1.37
18	09 Nov 2015	36	17.91	87.38	7.2	33.38	8.1	24.1	1.35

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I9	09 Nov 2015	1	20.31	89.95	7.3	33.50	8.2	23.5	0.24
I9	09 Nov 2015	2	20.30	89.89	7.3	33.50	8.2	23.5	0.25
I9	09 Nov 2015	3	20.27	90.22	7.3	33.50	8.2	23.5	0.27
I9	09 Nov 2015	4	20.23	90.20	7.3	33.50	8.2	23.6	0.29
I9	09 Nov 2015	5	20.22	90.13	7.3	33.50	8.2	23.6	0.29
I9	09 Nov 2015	6	20.21	90.10	7.3	33.50	8.2	23.6	0.30
I9	09 Nov 2015	7	20.20	90.13	7.3	33.50	8.2	23.6	0.31
I9	09 Nov 2015	8	20.18	90.04	7.3	33.49	8.2	23.6	0.31
I9	09 Nov 2015	9	20.17	90.10	7.3	33.49	8.2	23.6	0.32
I9	09 Nov 2015	10	20.10	90.07	7.3	33.48	8.2	23.6	0.35
I9	09 Nov 2015	11	20.00	89.99	7.4	33.46	8.2	23.6	0.38
I9	09 Nov 2015	12	19.88	89.80	7.4	33.44	8.2	23.6	0.44
I9	09 Nov 2015	13	19.56	89.34	7.4	33.34	8.2	23.6	0.53
I9	09 Nov 2015	14	19.37	88.55	7.5	33.33	8.2	23.7	0.51
I9	09 Nov 2015	15	19.53	88.72	7.6	33.40	8.2	23.7	0.49
I9	09 Nov 2015	16	19.47	89.55	7.6	33.40	8.2	23.7	0.50
I9	09 Nov 2015	17	19.39	89.62	7.6	33.40	8.2	23.7	0.53
I9	09 Nov 2015	18	19.29	89.62	7.6	33.40	8.2	23.7	0.58
I9	09 Nov 2015	19	19.16	89.56	7.6	33.39	8.2	23.8	0.62
I9	09 Nov 2015	20	19.08	89.47	7.5	33.39	8.2	23.8	0.71
I9	09 Nov 2015	21	18.85	89.41	7.5	33.38	8.2	23.8	0.87
I9	09 Nov 2015	22	18.73	88.65	7.5	33.39	8.2	23.9	1.03
I9	09 Nov 2015	23	18.67	88.23	7.4	33.40	8.2	23.9	1.15
I9	09 Nov 2015	24	18.65	87.92	7.4	33.40	8.2	23.9	1.21
I9	09 Nov 2015	25	18.63	88.05	7.4	33.41	8.1	23.9	1.26
I9	09 Nov 2015	26	18.42	87.74	7.2	33.36	8.1	23.9	1.41
I9	09 Nov 2015	27	18.00	87.11	7.2	33.38	8.1	24.0	1.47
I9	09 Nov 2015	28	17.94	86.47	7.2	33.38	8.1	24.0	1.49
I9	09 Nov 2015	29	17.93	82.29	7.2	33.38	8.1	24.1	1.55
I10	09 Nov 2015	1	20.08	88.38	7.2	33.50	8.2	23.6	0.28
I10	09 Nov 2015	2	20.01	89.32	7.3	33.49	8.2	23.6	0.28
I10	09 Nov 2015	3	19.88	89.23	7.3	33.49	8.2	23.6	0.31
I10	09 Nov 2015	4	19.79	89.64	7.3	33.48	8.2	23.7	0.33
I10	09 Nov 2015	5	19.71	89.59	7.4	33.48	8.2	23.7	0.35
I10	09 Nov 2015	6	19.68	89.56	7.4	33.48	8.2	23.7	0.37
I10	09 Nov 2015	7	19.63	89.31	7.4	33.48	8.2	23.7	0.39
I10	09 Nov 2015	8	19.59	89.34	7.4	33.47	8.2	23.7	0.43
I10	09 Nov 2015	9	19.52	89.36	7.4	33.47	8.2	23.7	0.48
I10	09 Nov 2015	10	19.49	89.04	7.4	33.47	8.2	23.7	0.51
I10	09 Nov 2015	11	19.46	88.92	7.4	33.47	8.2	23.7	0.54
I10	09 Nov 2015	12	19.43	88.88	7.5	33.46	8.2	23.7	0.59
I10	09 Nov 2015	13	19.35	88.67	7.4	33.46	8.2	23.8	0.66
I10	09 Nov 2015	14	19.30	88.56	7.4	33.46	8.2	23.8	0.71
I10	09 Nov 2015	15	19.21	88.36	7.4	33.45	8.2	23.8	0.81
I10	09 Nov 2015	16	19.12	88.01	7.4	33.46	8.2	23.8	0.92
I10	09 Nov 2015	17	19.07	88.01	7.4	33.45	8.2	23.8	1.06
I10	09 Nov 2015	18	18.98	87.68	7.2	33.44	8.2	23.8	1.22
I10	09 Nov 2015	19	18.80	83.29	7.0	33.44	8.1	23.9	1.31
I11	09 Nov 2015	1	19.25	85.56	7.3	33.47	8.1	23.8	0.65
I11	09 Nov 2015	2	19.24	85.96	7.3	33.46	8.1	23.8	0.70
I11	09 Nov 2015	3	19.21	85.51	7.3	33.46	8.1	23.8	0.78
I11	09 Nov 2015	4	19.18	85.25	7.4	33.46	8.1	23.8	0.85

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I11	09 Nov 2015	5	19.13	84.72	7.4	33.46	8.2	23.8	0.95
I11	09 Nov 2015	6	19.09	84.50	7.4	33.46	8.2	23.8	1.10
I11	09 Nov 2015	7	19.05	83.92	7.4	33.46	8.2	23.8	1.26
I11	09 Nov 2015	8	19.04	83.83	7.4	33.46	8.2	23.8	1.38
I11	09 Nov 2015	9	19.01	83.81	7.4	33.46	8.1	23.8	1.55
I11	09 Nov 2015	10	18.97	83.08	7.3	33.46	8.1	23.9	1.70
I11	09 Nov 2015	11	18.92	79.57	7.0	33.46	8.1	23.9	1.78
I11	09 Nov 2015	12	18.86	72.49	6.6	33.46	8.1	23.9	1.81
I11	09 Nov 2015	13	18.72	64.45	6.4	33.45	8.1	23.9	1.88
I12	13 Nov 2015	1	19.08	88.84	7.4	33.50	8.2	23.9	0.51
I12	13 Nov 2015	2	19.08	88.84	7.4	33.50	8.2	23.9	0.53
I12	13 Nov 2015	3	19.06	88.76	7.4	33.50	8.2	23.9	0.55
I12	13 Nov 2015	4	19.04	88.76	7.4	33.50	8.2	23.9	0.57
I12	13 Nov 2015	5	19.04	88.63	7.4	33.50	8.2	23.9	0.59
I12	13 Nov 2015	6	19.04	88.69	7.4	33.50	8.2	23.9	0.60
I12	13 Nov 2015	7	19.03	88.61	7.4	33.50	8.2	23.9	0.64
I12	13 Nov 2015	8	19.02	88.70	7.4	33.50	8.2	23.9	0.66
I12	13 Nov 2015	9	19.01	88.53	7.4	33.50	8.2	23.9	0.69
I12	13 Nov 2015	10	18.98	88.64	7.4	33.49	8.2	23.9	0.71
I12	13 Nov 2015	11	18.96	88.65	7.4	33.49	8.2	23.9	0.71
I12	13 Nov 2015	12	18.95	88.64	7.4	33.49	8.2	23.9	0.75
I12	13 Nov 2015	13	18.93	88.53	7.4	33.49	8.2	23.9	0.78
I12	13 Nov 2015	14	18.91	88.49	7.4	33.49	8.2	23.9	0.81
I12	13 Nov 2015	15	18.86	88.53	7.4	33.47	8.2	23.9	0.88
I12	13 Nov 2015	16	18.82	88.27	7.4	33.49	8.2	23.9	0.94
I12	13 Nov 2015	17	18.84	88.31	7.4	33.49	8.2	23.9	1.04
I12	13 Nov 2015	18	18.83	88.35	7.4	33.49	8.2	23.9	1.03
I12	13 Nov 2015	19	18.83	88.30	7.4	33.49	8.2	23.9	1.04
I12	13 Nov 2015	20	18.79	88.32	7.4	33.48	8.2	23.9	1.10
I12	13 Nov 2015	21	18.77	88.23	7.4	33.48	8.2	23.9	1.14
I12	13 Nov 2015	22	18.75	88.24	7.4	33.48	8.2	23.9	1.15
I12	13 Nov 2015	23	18.69	88.18	7.4	33.48	8.2	23.9	1.25
I12	13 Nov 2015	24	18.57	88.20	7.4	33.46	8.2	23.9	1.48
I12	13 Nov 2015	25	18.18	87.89	7.3	33.41	8.2	24.0	1.73
I12	13 Nov 2015	26	17.74	87.61	7.3	33.40	8.2	24.1	1.82
I12	13 Nov 2015	27	17.61	87.14	7.3	33.40	8.2	24.1	1.76
I12	13 Nov 2015	28	17.41	87.26	7.2	33.38	8.1	24.2	1.73
I13	09 Nov 2015	1	20.77	90.21	7.2	33.52	8.2	23.4	0.23
I13	09 Nov 2015	2	20.71	90.24	7.2	33.52	8.2	23.4	0.23
I13	09 Nov 2015	3	20.65	90.13	7.2	33.52	8.2	23.5	0.25
I13	09 Nov 2015	4	20.65	90.09	7.2	33.52	8.2	23.5	0.25
I13	09 Nov 2015	5	20.64	90.04	7.2	33.52	8.2	23.5	0.26
I13	09 Nov 2015	6	20.62	90.05	7.2	33.52	8.2	23.5	0.26
I13	09 Nov 2015	7	20.61	90.04	7.2	33.52	8.2	23.5	0.28
I13	09 Nov 2015	8	20.60	90.06	7.2	33.52	8.2	23.5	0.28
I13	09 Nov 2015	9	20.60	89.08	7.2	33.52	8.2	23.5	0.28
I13	09 Nov 2015	10	20.59	89.95	7.2	33.52	8.2	23.5	0.29
I13	09 Nov 2015	11	20.58	90.04	7.2	33.52	8.2	23.5	0.30
I13	09 Nov 2015	12	20.58	90.02	7.2	33.52	8.2	23.5	0.30
I13	09 Nov 2015	13	20.57	90.04	7.2	33.52	8.2	23.5	0.31
I13	09 Nov 2015	14	20.57	89.98	7.2	33.52	8.2	23.5	0.33
I13	09 Nov 2015	15	20.54	89.91	7.2	33.52	8.2	23.5	0.35
I13	09 Nov 2015	16	20.47	89.87	7.2	33.51	8.2	23.5	0.36

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I13	09 Nov 2015	17	20.41	89.89	7.3	33.51	8.2	23.5	0.37
I13	09 Nov 2015	18	20.32	89.87	7.3	33.49	8.2	23.5	0.39
I13	09 Nov 2015	19	20.20	89.82	7.3	33.50	8.2	23.6	0.40
I13	09 Nov 2015	20	20.14	89.96	7.3	33.49	8.2	23.6	0.41
I13	09 Nov 2015	21	19.95	90.07	7.4	33.47	8.2	23.6	0.41
I13	09 Nov 2015	22	19.84	90.11	7.4	33.47	8.2	23.6	0.43
I13	09 Nov 2015	23	19.82	90.08	7.4	33.47	8.2	23.6	0.45
I13	09 Nov 2015	24	19.78	90.00	7.4	33.46	8.2	23.6	0.46
I13	09 Nov 2015	25	19.74	89.95	7.4	33.45	8.2	23.7	0.51
I13	09 Nov 2015	26	19.68	89.88	7.4	33.45	8.2	23.7	0.53
I13	09 Nov 2015	27	19.65	89.81	7.4	33.45	8.2	23.7	0.59
I13	09 Nov 2015	28	19.54	89.76	7.5	33.42	8.2	23.7	0.67
I13	09 Nov 2015	29	19.35	89.75	7.5	33.42	8.2	23.7	0.70
I13	09 Nov 2015	30	19.22	89.87	7.5	33.40	8.2	23.7	0.73
I13	09 Nov 2015	31	19.00	89.73	7.6	33.40	8.2	23.8	0.81
I13	09 Nov 2015	32	18.88	89.71	7.6	33.39	8.2	23.8	0.86
I13	09 Nov 2015	33	18.47	89.51	7.6	33.35	8.2	23.9	1.05
I13	09 Nov 2015	34	18.19	89.21	7.6	33.36	8.2	24.0	1.31
I13	09 Nov 2015	35	18.03	88.42	7.4	33.36	8.1	24.0	1.54
I13	09 Nov 2015	36	17.82	85.95	7.2	33.37	8.1	24.1	1.64
I13	09 Nov 2015	37	17.78	81.56	7.2	33.38	8.1	24.1	1.73
I13	09 Nov 2015	38	17.77	80.38	7.2	33.38	8.1	24.1	1.78
I14	13 Nov 2015	1	20.07	89.92	7.2	33.59	8.2	23.7	0.33
I14	13 Nov 2015	2	19.96	89.78	7.2	33.58	8.2	23.7	0.38
I14	13 Nov 2015	3	19.73	89.71	7.3	33.55	8.2	23.7	0.42
I14	13 Nov 2015	4	19.60	89.38	7.3	33.54	8.2	23.8	0.45
I14	13 Nov 2015	5	19.38	89.11	7.3	33.52	8.2	23.8	0.51
I14	13 Nov 2015	6	19.20	88.93	7.4	33.51	8.2	23.8	0.57
I14	13 Nov 2015	7	19.13	88.81	7.4	33.50	8.2	23.8	0.59
I14	13 Nov 2015	8	19.08	88.68	7.4	33.50	8.2	23.9	0.63
I14	13 Nov 2015	9	18.98	88.62	7.4	33.49	8.2	23.9	0.65
I14	13 Nov 2015	10	18.90	88.55	7.4	33.48	8.2	23.9	0.66
I14	13 Nov 2015	11	18.85	88.53	7.4	33.48	8.2	23.9	0.71
I14	13 Nov 2015	12	18.83	88.46	7.4	33.48	8.2	23.9	0.71
I14	13 Nov 2015	13	18.78	88.36	7.4	33.48	8.2	23.9	0.76
I14	13 Nov 2015	14	18.75	88.42	7.4	33.48	8.2	23.9	0.81
I14	13 Nov 2015	15	18.72	88.30	7.4	33.48	8.2	23.9	0.88
I14	13 Nov 2015	16	18.70	88.25	7.4	33.48	8.2	23.9	0.94
I14	13 Nov 2015	17	18.68	88.18	7.4	33.48	8.2	23.9	0.97
I14	13 Nov 2015	18	18.66	88.11	7.4	33.48	8.2	23.9	1.04
I14	13 Nov 2015	19	18.63	87.99	7.4	33.48	8.2	23.9	1.11
I14	13 Nov 2015	20	18.61	88.05	7.4	33.47	8.2	24.0	1.18
I14	13 Nov 2015	21	18.59	88.03	7.4	33.47	8.2	24.0	1.20
I14	13 Nov 2015	22	18.57	88.03	7.4	33.47	8.2	24.0	1.27
I14	13 Nov 2015	23	18.43	87.97	7.4	33.45	8.2	24.0	1.39
I14	13 Nov 2015	24	18.20	87.97	7.5	33.43	8.2	24.0	1.56
I14	13 Nov 2015	25	18.06	87.68	7.4	33.42	8.2	24.0	1.78
I14	13 Nov 2015	26	17.83	87.30	7.3	33.41	8.2	24.1	1.86
I14	13 Nov 2015	27	17.56	87.16	7.3	33.40	8.2	24.2	1.84
I14	13 Nov 2015	28	17.36	86.34	7.2	33.40	8.1	24.2	1.80
I15	13 Nov 2015	1	20.22	89.15	7.2	33.63	8.2	23.7	0.27
I15	13 Nov 2015	2	20.20	89.96	7.2	33.63	8.2	23.7	0.28
I15	13 Nov 2015	3	20.18	90.01	7.2	33.62	8.2	23.7	0.30

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I15	13 Nov 2015	4	20.11	90.01	7.2	33.61	8.2	23.7	0.32
I15	13 Nov 2015	5	20.05	89.92	7.2	33.59	8.2	23.7	0.34
I15	13 Nov 2015	6	19.88	89.66	7.2	33.57	8.2	23.7	0.38
I15	13 Nov 2015	7	19.77	89.58	7.3	33.56	8.2	23.7	0.40
I15	13 Nov 2015	8	19.70	89.51	7.3	33.55	8.2	23.7	0.43
I15	13 Nov 2015	9	19.57	89.39	7.3	33.54	8.2	23.8	0.48
I15	13 Nov 2015	10	19.45	89.14	7.3	33.52	8.2	23.8	0.55
I15	13 Nov 2015	11	19.30	88.95	7.4	33.51	8.2	23.8	0.58
I15	13 Nov 2015	12	19.22	88.89	7.4	33.51	8.2	23.8	0.65
I15	13 Nov 2015	13	19.14	88.77	7.4	33.50	8.2	23.8	0.66
I15	13 Nov 2015	14	19.08	88.68	7.4	33.50	8.2	23.9	0.70
I15	13 Nov 2015	15	19.05	88.60	7.4	33.49	8.2	23.9	0.73
I15	13 Nov 2015	16	19.02	88.54	7.4	33.49	8.2	23.9	0.76
I15	13 Nov 2015	17	19.00	88.67	7.4	33.49	8.2	23.9	0.80
I15	13 Nov 2015	18	18.97	88.56	7.4	33.49	8.2	23.9	0.86
I15	13 Nov 2015	19	18.94	88.49	7.4	33.49	8.2	23.9	0.95
I15	13 Nov 2015	20	18.90	88.51	7.4	33.49	8.2	23.9	0.96
I15	13 Nov 2015	21	18.86	88.52	7.4	33.49	8.2	23.9	0.96
I15	13 Nov 2015	22	18.83	88.36	7.4	33.48	8.2	23.9	1.03
I15	13 Nov 2015	23	18.78	88.47	7.4	33.48	8.2	23.9	1.07
I15	13 Nov 2015	24	18.75	88.44	7.4	33.48	8.2	23.9	1.15
I15	13 Nov 2015	25	18.69	88.40	7.4	33.47	8.2	23.9	1.22
I15	13 Nov 2015	26	18.39	88.47	7.4	33.43	8.2	24.0	1.41
I15	13 Nov 2015	27	18.11	88.20	7.4	33.41	8.2	24.0	1.76
I15	13 Nov 2015	28	17.61	87.63	7.3	33.37	8.2	24.1	1.78
I15	13 Nov 2015	29	17.37	87.20	7.2	33.39	8.1	24.2	1.75
I15	13 Nov 2015	30	17.33	86.92	7.2	33.39	8.1	24.2	1.67
I15	13 Nov 2015	31	17.32	86.54	7.3	33.39	8.1	24.2	1.66
I16	13 Nov 2015	1	18.98	88.79	7.4	33.49	8.2	23.9	0.48
I16	13 Nov 2015	2	18.98	88.75	7.4	33.49	8.2	23.9	0.51
I16	13 Nov 2015	3	18.96	88.76	7.4	33.49	8.2	23.9	0.53
I16	13 Nov 2015	4	18.94	88.59	7.4	33.49	8.2	23.9	0.56
I16	13 Nov 2015	5	18.93	88.66	7.4	33.49	8.2	23.9	0.57
I16	13 Nov 2015	6	18.92	88.46	7.4	33.49	8.2	23.9	0.61
I16	13 Nov 2015	7	18.90	88.57	7.4	33.49	8.2	23.9	0.65
I16	13 Nov 2015	8	18.89	88.56	7.4	33.49	8.2	23.9	0.68
I16	13 Nov 2015	9	18.87	88.54	7.4	33.49	8.2	23.9	0.70
I16	13 Nov 2015	10	18.86	88.50	7.4	33.49	8.2	23.9	0.74
I16	13 Nov 2015	11	18.84	88.19	7.4	33.48	8.2	23.9	0.79
I16	13 Nov 2015	12	18.83	88.44	7.4	33.49	8.2	23.9	0.86
I16	13 Nov 2015	13	18.83	88.45	7.4	33.48	8.2	23.9	0.90
I16	13 Nov 2015	14	18.82	88.42	7.4	33.48	8.2	23.9	0.91
I16	13 Nov 2015	15	18.81	88.34	7.4	33.48	8.2	23.9	0.95
I16	13 Nov 2015	16	18.79	88.36	7.4	33.48	8.2	23.9	0.98
I16	13 Nov 2015	17	18.77	88.37	7.4	33.48	8.2	23.9	1.04
I16	13 Nov 2015	18	18.74	88.33	7.4	33.48	8.2	23.9	1.13
I16	13 Nov 2015	19	18.71	88.20	7.4	33.47	8.2	23.9	1.15
I16	13 Nov 2015	20	18.67	88.21	7.4	33.48	8.2	23.9	1.18
I16	13 Nov 2015	21	18.65	88.18	7.4	33.47	8.2	23.9	1.20
I16	13 Nov 2015	22	18.62	88.24	7.4	33.47	8.2	23.9	1.24
I16	13 Nov 2015	23	18.57	88.31	7.3	33.46	8.2	23.9	1.40
I16	13 Nov 2015	24	18.22	88.06	7.4	33.41	8.2	24.0	1.69
I16	13 Nov 2015	25	17.84	87.62	7.3	33.38	8.2	24.1	1.73
I16	13 Nov 2015	26	17.50	87.22	7.2	33.40	8.1	24.2	1.59

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I16	13 Nov 2015	27	17.48	87.28	7.2	33.40	8.1	24.2	1.51
I17	13 Nov 2015	1	18.83	88.47	7.3	33.48	8.2	23.9	0.52
I17	13 Nov 2015	2	18.81	88.57	7.4	33.48	8.2	23.9	0.55
I17	13 Nov 2015	3	18.79	88.58	7.4	33.48	8.2	23.9	0.59
I17	13 Nov 2015	4	18.77	88.43	7.4	33.48	8.2	23.9	0.62
I17	13 Nov 2015	5	18.76	88.38	7.4	33.48	8.2	23.9	0.68
I17	13 Nov 2015	6	18.73	88.32	7.4	33.48	8.2	23.9	0.72
I17	13 Nov 2015	7	18.70	88.20	7.4	33.48	8.2	23.9	0.76
I17	13 Nov 2015	8	18.69	88.20	7.4	33.48	8.2	23.9	0.81
I17	13 Nov 2015	9	18.67	88.12	7.4	33.48	8.2	23.9	0.85
I17	13 Nov 2015	10	18.66	88.15	7.4	33.48	8.2	23.9	0.88
I17	13 Nov 2015	11	18.65	88.04	7.4	33.48	8.2	23.9	0.92
I17	13 Nov 2015	12	18.64	88.12	7.4	33.48	8.2	23.9	0.98
I17	13 Nov 2015	13	18.63	88.12	7.4	33.48	8.2	23.9	1.00
I17	13 Nov 2015	14	18.61	87.99	7.4	33.47	8.2	24.0	1.03
I17	13 Nov 2015	15	18.60	88.09	7.4	33.47	8.2	24.0	1.10
I17	13 Nov 2015	16	18.59	88.09	7.4	33.47	8.2	24.0	1.14
I17	13 Nov 2015	17	18.58	88.12	7.4	33.47	8.2	24.0	1.19
I17	13 Nov 2015	18	18.57	88.10	7.4	33.47	8.2	24.0	1.32
I17	13 Nov 2015	19	18.44	88.08	7.4	33.44	8.2	24.0	1.47
I17	13 Nov 2015	20	18.22	87.82	7.4	33.44	8.2	24.0	1.62
I17	13 Nov 2015	21	18.16	87.79	7.3	33.43	8.2	24.0	1.81
I17	13 Nov 2015	22	17.94	87.36	7.3	33.41	8.2	24.1	1.68
I17	13 Nov 2015	23	17.65	87.28	7.2	33.40	8.1	24.1	1.52
I17	13 Nov 2015	24	17.58	87.45	7.1	33.40	8.1	24.1	1.51
I17	13 Nov 2015	25	17.34	86.11	7.1	33.38	8.1	24.2	1.59
I18	13 Nov 2015	1	18.52	83.85	7.3	33.48	8.1	24.0	0.84
I18	13 Nov 2015	2	18.50	83.92	7.4	33.48	8.1	24.0	0.91
I18	13 Nov 2015	3	18.49	83.81	7.4	33.48	8.1	24.0	1.03
I18	13 Nov 2015	4	18.49	83.61	7.4	33.48	8.1	24.0	1.10
I18	13 Nov 2015	5	18.47	83.64	7.4	33.48	8.1	24.0	1.13
I18	13 Nov 2015	6	18.46	83.85	7.3	33.48	8.1	24.0	1.22
I18	13 Nov 2015	7	18.46	83.85	7.3	33.48	8.1	24.0	1.34
I18	13 Nov 2015	8	18.46	83.71	7.4	33.48	8.1	24.0	1.44
I18	13 Nov 2015	9	18.45	83.71	7.4	33.48	8.1	24.0	1.52
I18	13 Nov 2015	10	18.45	83.80	7.3	33.48	8.1	24.0	1.54
I18	13 Nov 2015	11	18.44	83.90	7.3	33.48	8.1	24.0	1.61
I18	13 Nov 2015	12	18.44	84.22	7.3	33.47	8.1	24.0	1.63
I18	13 Nov 2015	13	18.44	84.30	7.3	33.47	8.1	24.0	1.63
I18	13 Nov 2015	14	18.43	84.32	7.3	33.47	8.1	24.0	1.65
I18	13 Nov 2015	15	18.43	84.33	7.3	33.47	8.1	24.0	1.71
I18	13 Nov 2015	16	18.40	84.30	7.2	33.46	8.1	24.0	1.76
I18	13 Nov 2015	17	17.98	84.49	7.2	33.38	8.1	24.0	1.82
I18	13 Nov 2015	18	17.63	85.01	7.3	33.40	8.1	24.1	1.91
I18	13 Nov 2015	19	17.37	85.10	7.2	33.39	8.1	24.2	1.86
I20	09 Nov 2015	1	20.97	89.81	7.1	33.58	8.0	23.4	0.30
I20	09 Nov 2015	2	20.97	90.15	7.1	33.58	8.1	23.4	0.29
I20	09 Nov 2015	3	20.97	90.12	7.1	33.58	8.1	23.4	0.30
I20	09 Nov 2015	4	20.97	90.19	7.1	33.57	8.1	23.4	0.31
I20	09 Nov 2015	5	20.97	90.23	7.1	33.58	8.1	23.4	0.30
I20	09 Nov 2015	6	20.97	90.17	7.1	33.58	8.1	23.4	0.32
I20	09 Nov 2015	7	20.97	90.24	7.1	33.58	8.1	23.4	0.33

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I20	09 Nov 2015	8	20.96	90.25	7.1	33.57	8.1	23.4	0.34
I20	09 Nov 2015	9	20.96	90.27	7.1	33.57	8.1	23.4	0.33
I20	09 Nov 2015	10	20.96	90.25	7.1	33.57	8.1	23.4	0.35
I20	09 Nov 2015	11	20.96	90.25	7.1	33.57	8.1	23.4	0.33
I20	09 Nov 2015	12	20.96	90.26	7.1	33.57	8.1	23.4	0.34
I20	09 Nov 2015	13	20.97	90.25	7.1	33.58	8.1	23.4	0.35
I20	09 Nov 2015	14	20.97	90.23	7.1	33.58	8.1	23.4	0.36
I20	09 Nov 2015	15	20.96	90.25	7.1	33.58	8.1	23.4	0.37
I20	09 Nov 2015	16	20.96	90.24	7.1	33.58	8.1	23.4	0.35
I20	09 Nov 2015	17	20.96	90.23	7.1	33.57	8.1	23.4	0.36
I20	09 Nov 2015	18	20.96	90.26	7.1	33.57	8.1	23.4	0.36
I20	09 Nov 2015	19	20.96	90.24	7.0	33.57	8.1	23.4	0.37
I20	09 Nov 2015	20	20.96	90.22	7.1	33.58	8.1	23.4	0.37
I20	09 Nov 2015	21	20.96	90.26	7.0	33.57	8.1	23.4	0.38
I20	09 Nov 2015	22	20.85	90.23	7.2	33.54	8.1	23.4	0.45
I20	09 Nov 2015	23	20.67	90.04	7.3	33.55	8.1	23.5	0.49
I20	09 Nov 2015	24	20.64	90.12	7.3	33.53	8.1	23.5	0.54
I20	09 Nov 2015	25	20.45	89.87	7.3	33.52	8.1	23.5	0.58
I20	09 Nov 2015	26	20.29	89.85	7.3	33.49	8.1	23.5	0.63
I20	09 Nov 2015	27	19.79	89.74	7.5	33.43	8.1	23.6	0.70
I20	09 Nov 2015	28	19.65	89.74	7.4	33.37	8.1	23.6	0.80
I20	09 Nov 2015	29	19.04	89.45	7.6	33.40	8.1	23.8	0.85
I20	09 Nov 2015	30	19.03	89.45	7.7	33.40	8.1	23.8	0.86
I20	09 Nov 2015	31	19.02	89.49	7.7	33.40	8.1	23.8	0.87
I20	09 Nov 2015	32	19.02	89.48	7.6	33.39	8.1	23.8	0.86
I20	09 Nov 2015	33	19.00	89.46	7.6	33.39	8.1	23.8	0.85
I20	09 Nov 2015	34	18.98	89.53	7.7	33.39	8.1	23.8	0.85
I20	09 Nov 2015	35	18.73	89.65	7.6	33.37	8.1	23.8	0.89
I20	09 Nov 2015	36	18.31	89.63	7.5	33.36	8.1	23.9	1.01
I20	09 Nov 2015	37	18.02	89.74	7.5	33.38	8.1	24.0	1.05
I20	09 Nov 2015	38	18.00	89.78	7.6	33.38	8.1	24.0	1.02
I20	09 Nov 2015	39	17.98	89.81	7.5	33.38	8.1	24.0	1.04
I20	09 Nov 2015	40	17.95	89.79	7.5	33.37	8.1	24.0	1.04
I20	09 Nov 2015	41	17.84	89.77	7.5	33.37	8.1	24.1	1.06
I20	09 Nov 2015	42	17.65	89.73	7.3	33.35	8.1	24.1	1.09
I20	09 Nov 2015	43	17.44	89.33	7.2	33.37	8.0	24.2	1.08
I20	09 Nov 2015	44	17.41	89.31	7.2	33.38	8.0	24.2	1.09
I20	09 Nov 2015	45	17.39	89.29	7.2	33.38	8.0	24.2	1.07
I20	09 Nov 2015	46	17.33	89.26	7.1	33.38	8.0	24.2	1.04
I20	09 Nov 2015	47	17.30	89.21	7.1	33.38	8.0	24.2	1.05
I20	09 Nov 2015	48	17.29	89.27	7.1	33.38	8.0	24.2	1.03
I20	09 Nov 2015	49	17.27	89.25	7.0	33.39	8.0	24.2	1.00
I20	09 Nov 2015	50	17.06	89.36	6.8	33.37	8.0	24.2	0.90
I20	09 Nov 2015	51	16.61	89.51	6.7	33.40	8.0	24.4	0.83
I20	09 Nov 2015	52	16.46	89.43	6.6	33.40	8.0	24.4	0.78
I20	09 Nov 2015	53	16.34	89.35	6.5	33.41	8.0	24.4	0.76
I20	09 Nov 2015	54	16.24	89.04	6.5	33.41	8.0	24.5	0.74
I20	09 Nov 2015	55	16.02	88.31	6.4	33.42	8.0	24.5	0.74
I21	09 Nov 2015	1	20.91	90.07	7.1	33.54	8.2	23.4	0.22
I21	09 Nov 2015	2	20.88	90.11	7.2	33.54	8.2	23.4	0.23
I21	09 Nov 2015	3	20.81	90.14	7.1	33.53	8.2	23.4	0.24
I21	09 Nov 2015	4	20.76	90.07	7.2	33.53	8.2	23.4	0.26
I21	09 Nov 2015	5	20.74	90.00	7.2	33.53	8.2	23.4	0.27
I21	09 Nov 2015	6	20.73	89.95	7.2	33.53	8.2	23.4	0.27

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I21	09 Nov 2015	7	20.72	89.94	7.2	33.53	8.2	23.4	0.27
I21	09 Nov 2015	8	20.71	89.96	7.2	33.53	8.2	23.5	0.29
I21	09 Nov 2015	9	20.70	89.93	7.2	33.53	8.2	23.5	0.29
I21	09 Nov 2015	10	20.70	89.93	7.2	33.53	8.2	23.5	0.30
I21	09 Nov 2015	11	20.69	89.86	7.2	33.53	8.2	23.5	0.31
I21	09 Nov 2015	12	20.68	89.90	7.2	33.53	8.2	23.5	0.32
I21	09 Nov 2015	13	20.67	89.89	7.2	33.52	8.2	23.5	0.33
I21	09 Nov 2015	14	20.66	89.88	7.2	33.52	8.2	23.5	0.35
I21	09 Nov 2015	15	20.66	89.86	7.2	33.52	8.2	23.5	0.35
I21	09 Nov 2015	16	20.66	89.86	7.2	33.52	8.2	23.5	0.37
I21	09 Nov 2015	17	20.64	89.86	7.2	33.52	8.2	23.5	0.38
I21	09 Nov 2015	18	20.63	89.85	7.2	33.52	8.2	23.5	0.38
I21	09 Nov 2015	19	20.62	89.84	7.2	33.52	8.2	23.5	0.39
I21	09 Nov 2015	20	20.56	89.83	7.2	33.51	8.2	23.5	0.42
I21	09 Nov 2015	21	20.51	89.78	7.2	33.50	8.2	23.5	0.44
I21	09 Nov 2015	22	20.20	89.72	7.4	33.46	8.2	23.5	0.49
I21	09 Nov 2015	23	19.68	89.50	7.5	33.41	8.2	23.6	0.55
I21	09 Nov 2015	24	19.47	89.24	7.6	33.40	8.2	23.7	0.60
I21	09 Nov 2015	25	19.29	89.33	7.7	33.40	8.2	23.7	0.65
I21	09 Nov 2015	26	19.11	89.42	7.7	33.40	8.2	23.8	0.70
I21	09 Nov 2015	27	19.05	89.59	7.6	33.40	8.2	23.8	0.78
I21	09 Nov 2015	28	18.97	89.59	7.6	33.40	8.2	23.8	0.83
I21	09 Nov 2015	29	18.90	89.59	7.6	33.40	8.2	23.8	0.85
I21	09 Nov 2015	30	18.83	89.61	7.7	33.40	8.2	23.8	0.88
I21	09 Nov 2015	31	18.80	89.60	7.6	33.40	8.2	23.8	0.88
I21	09 Nov 2015	32	18.75	89.54	7.7	33.39	8.2	23.9	0.91
I21	09 Nov 2015	33	18.59	89.51	7.6	33.38	8.2	23.9	0.98
I21	09 Nov 2015	34	18.43	89.45	7.6	33.37	8.2	23.9	1.06
I21	09 Nov 2015	35	18.10	89.31	7.6	33.34	8.2	24.0	1.33
I21	09 Nov 2015	36	17.76	88.27	7.5	33.36	8.1	24.1	1.50
I21	09 Nov 2015	37	17.68	87.74	7.5	33.35	8.1	24.1	1.61
I21	09 Nov 2015	38	17.65	86.81	7.5	33.36	8.1	24.1	1.65
I21	09 Nov 2015	39	17.63	86.55	7.4	33.36	8.1	24.1	1.64
I21	09 Nov 2015	40	17.63	86.29	7.4	33.36	8.1	24.1	1.66
I22	13 Nov 2015	1	19.98	89.65	7.2	33.58	8.2	23.7	0.30
I22	13 Nov 2015	2	19.98	89.69	7.2	33.58	8.2	23.7	0.30
I22	13 Nov 2015	3	19.89	89.73	7.2	33.56	8.2	23.7	0.35
I22	13 Nov 2015	4	19.62	89.36	7.3	33.55	8.2	23.8	0.41
I22	13 Nov 2015	5	19.44	89.08	7.3	33.52	8.2	23.8	0.46
I22	13 Nov 2015	6	19.24	88.87	7.4	33.52	8.2	23.8	0.50
I22	13 Nov 2015	7	19.18	88.74	7.3	33.50	8.2	23.8	0.56
I22	13 Nov 2015	8	18.73	88.22	7.4	33.47	8.2	23.9	0.65
I22	13 Nov 2015	9	18.68	87.80	7.5	33.48	8.2	23.9	0.69
I22	13 Nov 2015	10	18.74	87.98	7.5	33.48	8.2	23.9	0.71
I22	13 Nov 2015	11	18.77	88.11	7.4	33.48	8.2	23.9	0.73
I22	13 Nov 2015	12	18.81	88.06	7.4	33.49	8.2	23.9	0.73
I22	13 Nov 2015	13	18.76	88.16	7.4	33.48	8.2	23.9	0.77
I22	13 Nov 2015	14	18.73	88.06	7.4	33.49	8.2	23.9	0.78
I22	13 Nov 2015	15	18.83	88.08	7.4	33.49	8.2	23.9	0.81
I22	13 Nov 2015	16	18.68	88.05	7.3	33.46	8.2	23.9	0.91
I22	13 Nov 2015	17	18.56	87.78	7.4	33.47	8.2	24.0	0.93
I22	13 Nov 2015	18	18.55	87.88	7.4	33.47	8.2	24.0	1.01
I22	13 Nov 2015	19	18.50	87.78	7.4	33.47	8.2	24.0	1.12
I22	13 Nov 2015	20	18.47	87.63	7.5	33.47	8.2	24.0	1.10

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I22	13 Nov 2015	21	18.46	87.73	7.4	33.47	8.2	24.0	1.18
I22	13 Nov 2015	22	18.44	87.77	7.4	33.47	8.2	24.0	1.30
I22	13 Nov 2015	23	18.44	87.75	7.4	33.47	8.2	24.0	1.36
I22	13 Nov 2015	24	18.27	87.84	7.4	33.43	8.2	24.0	1.60
I22	13 Nov 2015	25	18.00	87.68	7.4	33.42	8.2	24.1	1.80
I22	13 Nov 2015	26	17.70	87.30	7.2	33.40	8.2	24.1	1.77
I22	13 Nov 2015	27	17.33	86.61	7.1	33.39	8.1	24.2	1.68
I22	13 Nov 2015	28	17.21	84.21	7.1	33.39	8.1	24.2	1.61
I23	13 Nov 2015	1	18.65	85.09	7.4	33.47	8.2	23.9	0.67
I23	13 Nov 2015	2	18.65	85.17	7.4	33.47	8.2	23.9	0.72
I23	13 Nov 2015	3	18.63	85.07	7.4	33.47	8.2	23.9	0.83
I23	13 Nov 2015	4	18.55	83.90	7.3	33.47	8.2	24.0	1.02
I23	13 Nov 2015	5	18.53	82.81	7.3	33.47	8.2	24.0	1.16
I23	13 Nov 2015	6	18.51	82.64	7.3	33.47	8.2	24.0	1.28
I23	13 Nov 2015	7	18.51	82.81	7.4	33.47	8.2	24.0	1.39
I23	13 Nov 2015	8	18.47	83.13	7.3	33.47	8.2	24.0	1.56
I23	13 Nov 2015	9	18.45	83.12	7.3	33.46	8.2	24.0	1.71
I23	13 Nov 2015	10	18.39	82.67	7.2	33.45	8.2	24.0	1.84
I23	13 Nov 2015	11	18.38	82.74	7.2	33.45	8.2	24.0	1.96
I23	13 Nov 2015	12	18.38	82.78	7.2	33.45	8.2	24.0	1.91
I23	13 Nov 2015	13	18.37	83.04	7.3	33.45	8.2	24.0	1.92
I23	13 Nov 2015	14	18.35	83.06	7.3	33.45	8.2	24.0	1.97
I23	13 Nov 2015	15	18.25	84.41	7.2	33.44	8.2	24.0	2.02
I23	13 Nov 2015	16	18.19	84.28	7.1	33.43	8.2	24.0	1.94
I23	13 Nov 2015	17	18.07	83.71	7.0	33.42	8.1	24.0	1.81
I23	13 Nov 2015	18	17.96	83.31	6.7	33.40	8.1	24.1	1.67
I23	13 Nov 2015	19	17.52	78.44	6.5	33.37	8.1	24.1	1.64
I23	13 Nov 2015	20	17.34	70.55	6.7	33.38	8.1	24.2	1.72
I23	13 Nov 2015	21	17.29	67.36	6.8	33.38	8.1	24.2	1.80
I27	13 Nov 2015	1	18.48	87.14	7.4	33.47	8.1	24.0	0.75
I27	13 Nov 2015	2	18.47	87.32	7.4	33.47	8.1	24.0	0.79
I27	13 Nov 2015	3	18.47	87.26	7.4	33.47	8.1	24.0	0.85
I27	13 Nov 2015	4	18.47	87.44	7.3	33.47	8.1	24.0	0.87
I27	13 Nov 2015	5	18.47	87.34	7.3	33.47	8.1	24.0	0.87
I27	13 Nov 2015	6	18.47	87.43	7.4	33.47	8.1	24.0	0.88
I27	13 Nov 2015	7	18.47	87.51	7.4	33.47	8.1	24.0	0.90
I27	13 Nov 2015	8	18.47	87.52	7.4	33.47	8.1	24.0	0.94
I27	13 Nov 2015	9	18.47	87.53	7.4	33.47	8.1	24.0	1.00
I27	13 Nov 2015	10	18.47	87.53	7.4	33.47	8.1	24.0	0.97
I27	13 Nov 2015	11	18.47	87.49	7.4	33.47	8.1	24.0	1.01
I27	13 Nov 2015	12	18.47	87.41	7.4	33.47	8.1	24.0	1.07
I27	13 Nov 2015	13	18.47	87.61	7.4	33.47	8.1	24.0	1.26
I27	13 Nov 2015	14	18.47	87.50	7.4	33.47	8.1	24.0	1.08
I27	13 Nov 2015	15	18.47	87.64	7.4	33.47	8.1	24.0	1.05
I27	13 Nov 2015	16	18.47	87.63	7.4	33.47	8.1	24.0	1.07
I27	13 Nov 2015	17	18.47	87.67	7.4	33.47	8.1	24.0	1.07
I27	13 Nov 2015	18	18.47	87.54	7.4	33.47	8.1	24.0	1.12
I27	13 Nov 2015	19	18.47	87.36	7.4	33.47	8.1	24.0	1.07
I27	13 Nov 2015	20	18.47	87.46	7.4	33.47	8.1	24.0	1.08
I27	13 Nov 2015	21	18.23	87.69	7.4	33.44	8.1	24.0	1.25
I27	13 Nov 2015	22	17.85	87.87	7.5	33.41	8.1	24.1	1.44
I27	13 Nov 2015	23	17.61	88.03	7.4	33.40	8.1	24.1	1.56
I27	13 Nov 2015	24	17.47	87.63	7.3	33.40	8.1	24.2	1.58

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I27	13 Nov 2015	25	17.30	87.46	7.3	33.39	8.1	24.2	1.52
I27	13 Nov 2015	26	17.24	87.03	7.2	33.39	8.1	24.2	1.47
I27	13 Nov 2015	27	17.17	86.74	7.1	33.39	8.1	24.2	1.46
I27	13 Nov 2015	28	17.08	85.54	7.0	33.39	8.1	24.3	1.45
I28	12 Nov 2015	1	20.88	89.77	7.1	33.72	8.2	23.5	0.23
I28	12 Nov 2015	2	20.86	89.86	7.1	33.71	8.2	23.6	0.25
I28	12 Nov 2015	3	20.84	89.89	7.1	33.71	8.2	23.6	0.25
I28	12 Nov 2015	4	20.83	89.85	7.1	33.71	8.2	23.6	0.27
I28	12 Nov 2015	5	20.82	89.84	7.1	33.71	8.2	23.6	0.26
I28	12 Nov 2015	6	20.82	89.85	7.1	33.71	8.2	23.6	0.27
I28	12 Nov 2015	7	20.81	89.83	7.0	33.71	8.2	23.6	0.27
I28	12 Nov 2015	8	20.81	89.83	7.1	33.71	8.2	23.6	0.27
I28	12 Nov 2015	9	20.80	89.81	7.1	33.71	8.2	23.6	0.29
I28	12 Nov 2015	10	20.79	89.80	7.1	33.71	8.2	23.6	0.28
I28	12 Nov 2015	11	20.79	89.81	7.1	33.71	8.2	23.6	0.27
I28	12 Nov 2015	12	20.79	89.81	7.1	33.71	8.2	23.6	0.28
I28	12 Nov 2015	13	20.78	89.82	7.1	33.70	8.2	23.6	0.29
I28	12 Nov 2015	14	20.77	89.80	7.1	33.70	8.2	23.6	0.31
I28	12 Nov 2015	15	20.75	89.81	7.1	33.70	8.2	23.6	0.31
I28	12 Nov 2015	16	20.73	89.79	7.1	33.69	8.2	23.6	0.32
I28	12 Nov 2015	17	20.71	89.75	7.1	33.69	8.2	23.6	0.33
I28	12 Nov 2015	18	20.69	89.75	7.1	33.68	8.2	23.6	0.32
I28	12 Nov 2015	19	20.68	89.74	7.1	33.68	8.2	23.6	0.35
I28	12 Nov 2015	20	20.62	89.71	7.2	33.66	8.2	23.6	0.36
I28	12 Nov 2015	21	20.56	89.69	7.1	33.65	8.2	23.6	0.38
I28	12 Nov 2015	22	20.18	89.66	7.2	33.59	8.2	23.6	0.39
I28	12 Nov 2015	23	19.90	89.65	7.4	33.59	8.2	23.7	0.40
I28	12 Nov 2015	24	19.74	89.61	7.4	33.57	8.2	23.7	0.44
I28	12 Nov 2015	25	19.23	89.61	7.5	33.51	8.2	23.8	0.47
I28	12 Nov 2015	26	18.79	89.57	7.6	33.48	8.2	23.9	0.51
I28	12 Nov 2015	27	18.41	89.47	7.6	33.49	8.2	24.0	0.55
I28	12 Nov 2015	28	18.19	89.44	7.7	33.48	8.2	24.1	0.57
I28	12 Nov 2015	29	18.09	89.44	7.7	33.48	8.2	24.1	0.61
I28	12 Nov 2015	30	17.99	89.33	7.7	33.47	8.2	24.1	0.68
I28	12 Nov 2015	31	17.94	89.18	7.7	33.46	8.2	24.1	0.76
I28	12 Nov 2015	32	17.85	89.09	7.7	33.45	8.2	24.1	0.82
I28	12 Nov 2015	33	17.81	89.04	7.6	33.46	8.2	24.1	0.88
I28	12 Nov 2015	34	17.75	89.03	7.6	33.45	8.2	24.1	0.98
I28	12 Nov 2015	35	17.62	88.90	7.6	33.46	8.2	24.2	1.08
I28	12 Nov 2015	36	17.57	88.88	7.6	33.45	8.2	24.2	1.28
I28	12 Nov 2015	37	17.44	88.68	7.6	33.45	8.2	24.2	1.46
I28	12 Nov 2015	38	17.39	88.54	7.6	33.45	8.1	24.2	1.61
I28	12 Nov 2015	39	17.31	88.35	7.6	33.44	8.1	24.2	1.78
I28	12 Nov 2015	40	17.24	88.19	7.5	33.43	8.1	24.3	1.90
I28	12 Nov 2015	41	17.13	88.00	7.5	33.41	8.1	24.3	2.01
I28	12 Nov 2015	42	16.99	87.91	7.5	33.40	8.1	24.3	2.10
I28	12 Nov 2015	43	16.89	87.85	7.4	33.39	8.1	24.3	2.10
I28	12 Nov 2015	44	16.83	87.96	7.4	33.39	8.1	24.3	2.08
I28	12 Nov 2015	45	16.79	88.02	7.3	33.39	8.1	24.3	2.03
I28	12 Nov 2015	46	16.75	88.05	7.3	33.39	8.1	24.3	2.01
I28	12 Nov 2015	47	16.69	88.12	7.3	33.39	8.1	24.3	1.95
I28	12 Nov 2015	48	16.64	88.17	7.2	33.39	8.1	24.4	1.88
I28	12 Nov 2015	49	16.56	88.17	7.2	33.39	8.1	24.4	1.76
I28	12 Nov 2015	50	16.45	88.18	7.0	33.39	8.1	24.4	1.59

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I28	12 Nov 2015	51	16.36	88.09	6.9	33.40	8.1	24.4	1.42
I28	12 Nov 2015	52	16.30	87.74	6.8	33.40	8.1	24.4	1.32
I28	12 Nov 2015	53	16.20	87.14	6.8	33.41	8.1	24.5	1.24
I28	12 Nov 2015	54	16.17	86.79	6.6	33.40	8.1	24.5	1.16
I28	12 Nov 2015	55	16.07	86.07	6.6	33.40	8.1	24.5	1.09
I29	12 Nov 2015	1	20.23	89.38	7.3	33.59	8.2	23.6	0.28
I29	12 Nov 2015	2	20.22	89.36	7.2	33.59	8.2	23.6	0.28
I29	12 Nov 2015	3	20.20	89.38	7.2	33.59	8.2	23.6	0.29
I29	12 Nov 2015	4	20.17	89.34	7.2	33.59	8.2	23.6	0.30
I29	12 Nov 2015	5	20.14	89.22	7.2	33.58	8.2	23.6	0.30
I29	12 Nov 2015	6	20.13	89.20	7.2	33.58	8.2	23.6	0.33
I29	12 Nov 2015	7	20.09	89.19	7.2	33.57	8.2	23.6	0.33
I29	12 Nov 2015	8	20.05	89.15	7.3	33.56	8.2	23.7	0.34
I29	12 Nov 2015	9	20.00	89.10	7.3	33.56	8.2	23.7	0.36
I29	12 Nov 2015	10	19.95	89.09	7.2	33.55	8.2	23.7	0.37
I29	12 Nov 2015	11	19.87	89.04	7.3	33.53	8.2	23.7	0.39
I29	12 Nov 2015	12	19.77	89.00	7.3	33.53	8.2	23.7	0.43
I29	12 Nov 2015	13	19.70	88.95	7.3	33.52	8.2	23.7	0.45
I29	12 Nov 2015	14	19.64	88.92	7.3	33.52	8.2	23.7	0.48
I29	12 Nov 2015	15	19.51	88.91	7.4	33.49	8.2	23.7	0.55
I29	12 Nov 2015	16	19.35	88.54	7.4	33.49	8.2	23.8	0.64
I29	12 Nov 2015	17	19.25	88.35	7.4	33.48	8.2	23.8	0.72
I29	12 Nov 2015	18	19.17	88.25	7.4	33.48	8.2	23.8	0.77
I29	12 Nov 2015	19	19.14	88.20	7.4	33.48	8.2	23.8	0.83
I29	12 Nov 2015	20	19.13	88.23	7.4	33.48	8.2	23.8	0.85
I29	12 Nov 2015	21	19.11	88.24	7.4	33.48	8.2	23.8	0.85
I29	12 Nov 2015	22	19.05	88.28	7.4	33.47	8.2	23.8	0.88
I29	12 Nov 2015	23	18.96	88.35	7.4	33.47	8.2	23.9	0.89
I29	12 Nov 2015	24	18.91	88.39	7.4	33.47	8.2	23.9	0.96
I29	12 Nov 2015	25	18.81	88.30	7.3	33.46	8.2	23.9	1.06
I29	12 Nov 2015	26	18.67	88.14	7.3	33.45	8.2	23.9	1.11
I29	12 Nov 2015	27	18.45	87.87	7.3	33.42	8.2	24.0	1.30
I29	12 Nov 2015	28	18.21	87.57	7.5	33.42	8.2	24.0	1.45
I29	12 Nov 2015	29	18.07	87.51	7.4	33.41	8.2	24.0	1.66
I29	12 Nov 2015	30	17.77	87.39	7.4	33.38	8.2	24.1	1.87
I29	12 Nov 2015	31	17.33	87.32	7.5	33.36	8.1	24.2	2.07
I29	12 Nov 2015	32	17.11	87.40	7.5	33.36	8.1	24.2	2.16
I29	12 Nov 2015	33	16.88	87.45	7.2	33.36	8.1	24.3	1.90
I29	12 Nov 2015	34	16.63	86.62	7.0	33.38	8.1	24.4	1.63
I29	12 Nov 2015	35	16.57	85.66	7.0	33.39	8.1	24.4	1.52
I29	12 Nov 2015	36	16.56	85.64	7.0	33.39	8.1	24.4	1.47
I29	12 Nov 2015	37	16.55	85.46	7.0	33.39	8.1	24.4	1.49
I29	12 Nov 2015	38	16.55	85.22	6.9	33.40	8.1	24.4	1.54
I30	12 Nov 2015	1	18.95	87.78	7.4	33.48	8.2	23.9	0.42
I30	12 Nov 2015	2	18.95	88.24	7.4	33.48	8.2	23.9	0.43
I30	12 Nov 2015	3	18.94	88.41	7.4	33.47	8.2	23.9	0.44
I30	12 Nov 2015	4	18.90	88.39	7.4	33.47	8.2	23.9	0.48
I30	12 Nov 2015	5	18.88	88.24	7.4	33.47	8.2	23.9	0.52
I30	12 Nov 2015	6	18.86	88.15	7.4	33.47	8.2	23.9	0.54
I30	12 Nov 2015	7	18.85	88.09	7.4	33.47	8.2	23.9	0.58
I30	12 Nov 2015	8	18.80	88.04	7.4	33.47	8.2	23.9	0.65
I30	12 Nov 2015	9	18.73	87.83	7.4	33.46	8.2	23.9	0.71
I30	12 Nov 2015	10	18.69	87.69	7.4	33.46	8.2	23.9	0.78

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I30	12 Nov 2015	11	18.63	87.29	7.4	33.46	8.2	23.9	0.89
I30	12 Nov 2015	12	18.58	86.91	7.4	33.46	8.2	23.9	0.96
I30	12 Nov 2015	13	18.53	86.26	7.4	33.46	8.2	24.0	1.05
I30	12 Nov 2015	14	18.47	85.76	7.4	33.46	8.2	24.0	1.12
I30	12 Nov 2015	15	18.43	85.90	7.4	33.45	8.2	24.0	1.13
I30	12 Nov 2015	16	18.39	85.89	7.4	33.45	8.2	24.0	1.17
I30	12 Nov 2015	17	18.35	85.98	7.4	33.45	8.2	24.0	1.21
I30	12 Nov 2015	18	18.31	86.01	7.4	33.45	8.2	24.0	1.25
I30	12 Nov 2015	19	18.27	86.11	7.4	33.45	8.2	24.0	1.23
I30	12 Nov 2015	20	18.25	86.08	7.4	33.45	8.2	24.0	1.27
I30	12 Nov 2015	21	18.23	86.36	7.4	33.45	8.2	24.0	1.27
I30	12 Nov 2015	22	18.22	86.44	7.4	33.45	8.2	24.0	1.25
I30	12 Nov 2015	23	18.21	86.77	7.4	33.44	8.2	24.0	1.27
I30	12 Nov 2015	24	18.06	86.77	7.4	33.40	8.2	24.0	1.50
I30	12 Nov 2015	25	17.53	87.03	7.4	33.39	8.1	24.2	1.71
I30	12 Nov 2015	26	17.06	87.39	7.2	33.39	8.1	24.2	1.58
I30	12 Nov 2015	27	16.74	85.47	7.0	33.39	8.1	24.3	1.42
I30	12 Nov 2015	28	16.72	84.50	7.0	33.39	8.1	24.3	1.37
I31	12 Nov 2015	1	18.58	87.84	7.4	33.46	8.2	24.0	0.42
I31	12 Nov 2015	2	18.55	87.93	7.4	33.46	8.2	24.0	0.45
I31	12 Nov 2015	3	18.54	87.87	7.5	33.46	8.2	24.0	0.50
I31	12 Nov 2015	4	18.52	87.85	7.4	33.45	8.2	24.0	0.53
I31	12 Nov 2015	5	18.51	87.74	7.5	33.45	8.2	24.0	0.56
I31	12 Nov 2015	6	18.50	87.68	7.5	33.45	8.2	24.0	0.59
I31	12 Nov 2015	7	18.49	87.66	7.5	33.45	8.2	24.0	0.65
I31	12 Nov 2015	8	18.48	87.79	7.4	33.45	8.2	24.0	0.68
I31	12 Nov 2015	9	18.38	87.71	7.4	33.42	8.2	24.0	0.80
I31	12 Nov 2015	10	18.06	87.26	7.4	33.40	8.2	24.0	0.89
I31	12 Nov 2015	11	17.83	86.80	7.4	33.39	8.2	24.1	0.98
I31	12 Nov 2015	12	17.66	85.87	7.4	33.38	8.1	24.1	1.11
I31	12 Nov 2015	13	17.50	85.35	7.3	33.38	8.1	24.2	1.23
I31	12 Nov 2015	14	17.38	84.65	7.2	33.38	8.1	24.2	1.34
I31	12 Nov 2015	15	17.27	82.34	7.1	33.38	8.1	24.2	1.40
I31	12 Nov 2015	16	17.04	80.38	7.1	33.38	8.1	24.3	1.38
I31	12 Nov 2015	17	16.98	80.76	7.0	33.39	8.1	24.3	1.45
I31	12 Nov 2015	18	16.96	80.97	7.1	33.39	8.1	24.3	1.52
I31	12 Nov 2015	19	16.96	80.66	7.0	33.39	8.1	24.3	1.55
I33	12 Nov 2015	1	19.78	88.95	7.3	33.53	8.2	23.7	0.35
I33	12 Nov 2015	2	19.74	88.98	7.3	33.53	8.2	23.7	0.34
I33	12 Nov 2015	3	19.74	88.95	7.3	33.53	8.2	23.7	0.34
I33	12 Nov 2015	4	19.69	88.99	7.3	33.52	8.2	23.7	0.37
I33	12 Nov 2015	5	19.56	88.90	7.3	33.50	8.2	23.7	0.42
I33	12 Nov 2015	6	19.41	88.53	7.3	33.51	8.2	23.8	0.47
I33	12 Nov 2015	7	19.30	88.37	7.3	33.49	8.2	23.8	0.52
I33	12 Nov 2015	8	19.16	88.04	7.3	33.49	8.2	23.8	0.59
I33	12 Nov 2015	9	19.08	87.31	7.3	33.49	8.2	23.8	0.63
I33	12 Nov 2015	10	19.04	87.02	7.3	33.49	8.2	23.9	0.69
I33	12 Nov 2015	11	18.88	86.75	7.3	33.48	8.2	23.9	0.84
I33	12 Nov 2015	12	18.72	85.78	7.3	33.48	8.2	23.9	0.97
I33	12 Nov 2015	13	18.67	85.02	7.3	33.47	8.2	23.9	1.01
I33	12 Nov 2015	14	18.60	84.76	7.3	33.47	8.2	24.0	1.08
I33	12 Nov 2015	15	18.49	84.64	7.3	33.46	8.2	24.0	1.29
I33	12 Nov 2015	16	18.38	84.02	7.3	33.45	8.2	24.0	1.35

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I33	12 Nov 2015	17	18.31	83.97	7.3	33.45	8.2	24.0	1.41
I33	12 Nov 2015	18	18.29	83.99	7.3	33.45	8.2	24.0	1.40
I33	12 Nov 2015	19	18.26	84.11	7.3	33.45	8.2	24.0	1.45
I33	12 Nov 2015	20	18.14	84.13	7.3	33.42	8.2	24.0	1.50
I33	12 Nov 2015	21	18.05	83.90	7.2	33.43	8.1	24.1	1.54
I33	12 Nov 2015	22	18.03	83.83	7.2	33.43	8.1	24.1	1.56
I33	12 Nov 2015	23	17.99	82.92	7.2	33.43	8.1	24.1	1.54
I33	12 Nov 2015	24	17.93	82.89	7.1	33.43	8.1	24.1	1.43
I33	12 Nov 2015	25	17.84	83.02	7.1	33.42	8.1	24.1	1.36
I33	12 Nov 2015	26	17.80	83.28	7.1	33.42	8.1	24.1	1.34
I33	12 Nov 2015	27	17.75	83.58	7.0	33.42	8.1	24.1	1.31
I33	12 Nov 2015	28	17.31	83.71	7.0	33.41	8.1	24.2	1.27
I33	12 Nov 2015	29	16.89	83.90	7.0	33.40	8.1	24.3	1.22
I33	12 Nov 2015	30	16.80	84.27	7.1	33.39	8.1	24.3	1.21
I34	12 Nov 2015	1	18.53	81.81	7.1	33.48	8.1	24.0	0.81
I34	12 Nov 2015	2	18.49	82.07	7.1	33.48	8.1	24.0	0.78
I34	12 Nov 2015	3	18.47	81.92	7.2	33.48	8.1	24.0	0.89
I34	12 Nov 2015	4	18.45	81.32	7.2	33.48	8.1	24.0	0.98
I34	12 Nov 2015	5	18.45	81.43	7.2	33.48	8.1	24.0	1.07
I34	12 Nov 2015	6	18.45	81.26	7.2	33.48	8.1	24.0	1.16
I34	12 Nov 2015	7	18.45	81.40	7.2	33.48	8.1	24.0	1.27
I34	12 Nov 2015	8	18.44	81.46	7.2	33.48	8.1	24.0	1.29
I34	12 Nov 2015	9	18.43	81.45	7.2	33.48	8.1	24.0	1.28
I34	12 Nov 2015	10	18.43	81.31	7.2	33.48	8.1	24.0	1.26
I34	12 Nov 2015	11	18.42	81.18	7.2	33.48	8.1	24.0	1.35
I34	12 Nov 2015	12	18.42	81.33	7.2	33.48	8.1	24.0	1.35
I34	12 Nov 2015	13	18.40	81.13	7.1	33.47	8.1	24.0	1.42
I34	12 Nov 2015	14	18.37	81.07	7.2	33.47	8.1	24.0	1.49
I34	12 Nov 2015	15	18.35	81.27	7.2	33.47	8.1	24.0	1.46
I34	12 Nov 2015	16	18.34	81.12	7.2	33.47	8.1	24.0	1.46
I34	12 Nov 2015	17	18.27	81.37	7.2	33.45	8.1	24.0	1.51
I34	12 Nov 2015	18	18.18	81.55	7.2	33.44	8.1	24.0	1.52
I34	12 Nov 2015	19	18.02	81.69	7.1	33.42	8.1	24.1	1.51
I35	12 Nov 2015	1	18.60	72.13	7.3	33.50	8.2	24.0	1.01
I35	12 Nov 2015	2	18.58	72.31	7.3	33.49	8.2	24.0	1.14
I35	12 Nov 2015	3	18.52	72.26	7.3	33.49	8.2	24.0	1.36
I35	12 Nov 2015	4	18.40	72.00	7.3	33.48	8.2	24.0	1.85
I35	12 Nov 2015	5	18.38	71.92	7.3	33.49	8.2	24.0	2.22
I35	12 Nov 2015	6	18.36	71.46	7.2	33.49	8.2	24.0	2.03
I35	12 Nov 2015	7	18.36	71.82	7.3	33.49	8.2	24.0	2.01
I35	12 Nov 2015	8	18.37	72.68	7.2	33.49	8.2	24.0	1.94
I35	12 Nov 2015	9	18.37	72.15	7.2	33.49	8.2	24.0	1.86
I35	12 Nov 2015	10	18.37	71.44	7.3	33.49	8.2	24.0	1.85
I35	12 Nov 2015	11	18.37	71.86	7.3	33.50	8.2	24.0	1.85
I35	12 Nov 2015	12	18.37	73.04	7.3	33.50	8.2	24.0	1.82
I35	12 Nov 2015	13	18.36	73.26	7.3	33.50	8.2	24.0	1.78
I35	12 Nov 2015	14	18.36	73.32	7.3	33.50	8.2	24.0	1.82
I35	12 Nov 2015	15	18.36	73.02	7.2	33.50	8.2	24.0	1.78
I35	12 Nov 2015	16	18.35	72.76	7.3	33.50	8.2	24.0	1.74
I35	12 Nov 2015	17	18.35	71.81	7.2	33.50	8.2	24.0	1.67
I35	12 Nov 2015	18	18.34	63.88	7.2	33.50	8.1	24.0	1.65
I35	12 Nov 2015	19	18.35	57.36	7.1	33.50	8.1	24.0	1.69

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I36	12 Nov 2015	1	18.65	70.59	7.3	33.49	8.1	24.0	1.16
I36	12 Nov 2015	2	18.61	70.24	7.2	33.49	8.1	24.0	1.31
I36	12 Nov 2015	3	18.55	69.70	7.2	33.49	8.1	24.0	1.67
I36	12 Nov 2015	4	18.43	68.98	7.2	33.49	8.1	24.0	2.08
I36	12 Nov 2015	5	18.40	67.93	7.2	33.49	8.2	24.0	2.44
I36	12 Nov 2015	6	18.39	67.08	7.2	33.49	8.1	24.0	2.63
I36	12 Nov 2015	7	18.38	64.89	7.2	33.50	8.1	24.0	2.70
I36	12 Nov 2015	8	18.37	65.27	7.3	33.51	8.1	24.0	2.72
I36	12 Nov 2015	9	18.34	67.18	7.3	33.51	8.2	24.1	2.75
I36	12 Nov 2015	10	18.27	67.22	7.4	33.51	8.2	24.1	2.73
I36	12 Nov 2015	11	18.20	65.22	7.4	33.52	8.2	24.1	2.72
I37	12 Nov 2015	1	18.64	77.57	7.2	33.48	8.1	23.9	0.87
I37	12 Nov 2015	2	18.59	77.14	7.2	33.48	8.1	24.0	1.02
I37	12 Nov 2015	3	18.54	76.40	7.2	33.48	8.1	24.0	1.24
I37	12 Nov 2015	4	18.53	75.83	7.2	33.48	8.1	24.0	1.43
I37	12 Nov 2015	5	18.52	76.42	7.2	33.48	8.1	24.0	1.63
I37	12 Nov 2015	6	18.52	75.82	7.2	33.48	8.1	24.0	1.75
I37	12 Nov 2015	7	18.51	75.67	7.2	33.48	8.1	24.0	1.77
I37	12 Nov 2015	8	18.51	75.97	7.2	33.48	8.1	24.0	1.85
I37	12 Nov 2015	9	18.50	76.05	7.2	33.48	8.1	24.0	1.83
I37	12 Nov 2015	10	18.50	74.92	7.2	33.48	8.1	24.0	1.74
I37	12 Nov 2015	11	18.49	74.55	7.1	33.48	8.1	24.0	1.67
I37	12 Nov 2015	12	18.48	74.52	7.1	33.48	8.1	24.0	1.65
I38	12 Nov 2015	1	18.67	71.49	7.2	33.48	8.2	23.9	1.10
I38	12 Nov 2015	2	18.60	70.95	7.2	33.47	8.2	24.0	1.36
I38	12 Nov 2015	3	18.46	69.30	7.2	33.47	8.2	24.0	1.71
I38	12 Nov 2015	4	18.43	68.98	7.2	33.48	8.2	24.0	2.20
I38	12 Nov 2015	5	18.41	70.14	7.2	33.48	8.1	24.0	2.27
I38	12 Nov 2015	6	18.40	69.60	7.1	33.48	8.1	24.0	2.41
I38	12 Nov 2015	7	18.39	68.62	7.1	33.48	8.1	24.0	2.41
I38	12 Nov 2015	8	18.35	65.00	7.1	33.48	8.1	24.0	2.53
I38	12 Nov 2015	9	18.25	65.85	7.3	33.50	8.2	24.1	2.70
I38	12 Nov 2015	10	18.10	68.61	7.4	33.51	8.2	24.1	2.70
I38	12 Nov 2015	11	18.07	59.15	7.3	33.51	8.2	24.1	2.84

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	09 Nov 2015	18	SR	LAB DUPLICATE	<2	<2	<2
I9	09 Nov 2015	27	LMA	LAB DUPLICATE	2e	<2	<2
I12	13 Nov 2015	18	LMA	LAB DUPLICATE	<2	<2	<2
I13	09 Nov 2015	18	LMA	LAB DUPLICATE	<2	<2	<2
I14	13 Nov 2015	2	LMA	LAB DUPLICATE	ns	ns	ns
I16	13 Nov 2015	18	LMA	LAB DUPLICATE	ns	ns	ns
I19	07 Nov 2015	6	GA	LAB DUPLICATE	260e	12e	<2
I19	13 Nov 2015	6	ZV	FIELD DUPLICATE	40e	6e	<2
I19	13 Nov 2015	6	ZV	LAB DUPLICATE	40e	4e	<2
I19	20 Nov 2015	6	ZV	LAB DUPLICATE	20e	8e	2e
I19	24 Nov 2015	6	ZV	LAB DUPLICATE	<2	<2	<20
I19	30 Nov 2015	6	LMA	LAB DUPLICATE	460	68	16e
I20	09 Nov 2015	55	LMA	LAB DUPLICATE	2e	<2	<2
I32	12 Nov 2015	9	ZV	LAB DUPLICATE	<2	<2	<2
I36	12 Nov 2015	11	SR	LAB DUPLICATE	20e	<2	<2
I39	13 Nov 2015	2	SR	LAB DUPLICATE	<2	<2	<2
I40	07 Nov 2015	6	SR	LAB DUPLICATE	300e	18e	<2
I40	20 Nov 2015	6	SR	LAB DUPLICATE	<2	<2	<2
I40	24 Nov 2015	6	ZV	LAB DUPLICATE	4e	<2	<20
I40	30 Nov 2015	6	LMA	LAB DUPLICATE	880	180e	32e
S12	03 Nov 2015		AR	FIELD DUPLICATE	<20	<2	<2
S12	03 Nov 2015		AR	LAB DUPLICATE	<20	<2	<2
S12	10 Nov 2015		ZV	FIELD DUPLICATE	<20	2e	12e
S12	10 Nov 2015		ZV	LAB DUPLICATE	60e	6e	ns
S12	17 Nov 2015		ZV	FIELD DUPLICATE	<20	<2	<2
S12	17 Nov 2015		ZV	LAB DUPLICATE	<20	<2	<2
S12	24 Nov 2015		SR	FIELD DUPLICATE	<20	<2	34e
S12	24 Nov 2015		SR	LAB DUPLICATE	<20	4e	36e

ns = not sampled

