



Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall

(South Bay Water Reclamation Plant)

NPDES Permit No. CA0109045

May 2015



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



THE CITY OF SAN DIEGO

June 30, 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 May 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 chromophoric 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 May, 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 standards for total coliforms and *Enterococcus* were each exceeded at station S5 on multiple days during the month.

- The single sample maximum (SSM) standards for total and fecal coliforms were each exceeded at stations S5, S10, and S11 on one or more days during the month.
- The SSM standard for *Enterococcus* was exceeded at stations S5 and S11 on one or more days during the month.
- 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 S5 on two days during the month.
- Per 2012 Ocean Plan requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities were in compliance with 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 stations S0, S2 and S3 during the month.
- 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 *Annual Receiving Waters Monitoring Report for the South Bay Ocean Outfall* for details (<http://www.sandiego.gov/mwwd/environment/reports.shtml>).
- Notable visual observations for May included: water flowing from a storm drain at stations S0 and S3, a detergent-like odor at station S5, and foam present at S8 and S9. These observations were made on one or more days during the month.

➤ **Kelp Bed Water Quality Sampling**

- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled five times during May (i.e. May 6, 8, 15, 21, 27, 31).
- During May, 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 May 15.
- Water column temperatures ranged from 11.08 to 18.37°C. The difference between surface and bottom waters ranged from approximately 0.04 to 5.64°C, indicating the water column was stratified at some of these sites.
- Chlorophyll *a* concentrations ranged from 0.57 to 13.43 µg/L at these stations, suggesting the presence of phytoplankton blooms during the month.
- Suspended solid values ranged from 0.2 to 10.6 mg/L in May. Elevated levels of suspended solids (i.e., values > 8 mg/L) occurred in seawater samples collected at stations I19 (11 m depth) and I40 (9 m depth). Higher suspended solid concentrations may be due to the re-suspension of bottom sediments when the CTD touched the sea floor or associated with the presence of phytoplankton blooms that occurred around the time of sampling.
- Oil and grease values were < 0.2 mg/L in all kelp bed seawater samples.
- Nothing of sewage origin was observed at any of the kelp bed stations.

➤ **Offshore Water Quality Sampling**

- Monthly offshore water quality sampling was conducted over three days during the month (i.e., May 6, 7, 8).
- 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.
- All of the remaining offshore stations north of the US/Mexico border (i.e., 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).
- Water column temperatures ranged from 10.61 to 16.54°C at the offshore sites. The difference between surface and bottom waters ranged from 0.16 to 4.92°C, indicating that the water column was stratified at some of the offshore stations during the month.
- Chlorophyll *a* concentrations ranged from 0.57 to 32.21 µg/L at the offshore sites, suggesting the presence of phytoplankton blooms during the month.
- CDOM data are available upon request.
- Suspended solid values ranged from 0.2 to 6.9 mg/L in May.
- Oil and grease values were < 0.2 mg/L in all offshore seawater samples.
- Nothing of sewage origin was observed at any of the offshore stations.

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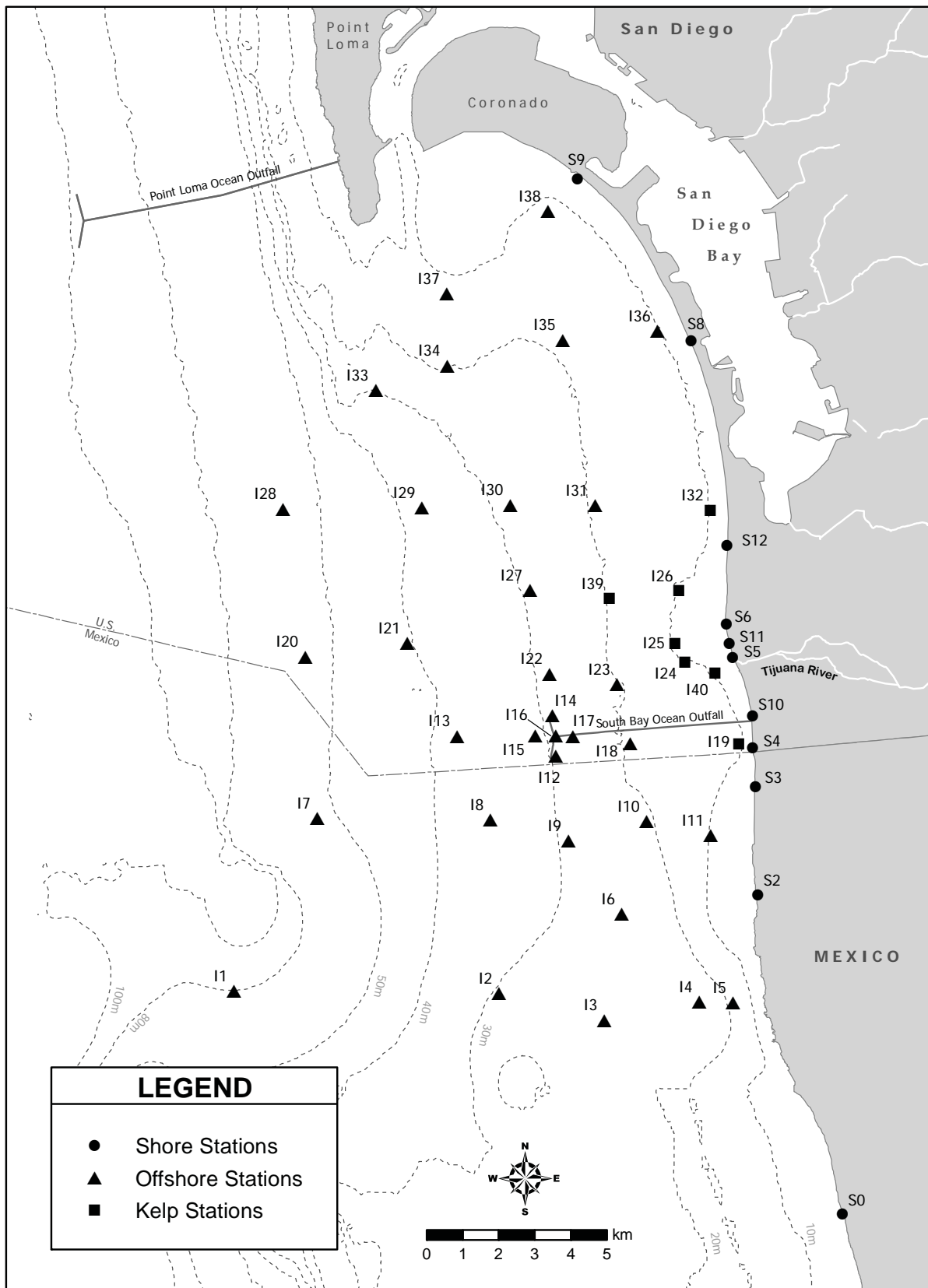


Figure 1.1 Station Map

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SHORE STATIONS

Table 2.1

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for total coliforms at the SBOO shore stations located north of the USA/Mexico border. 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 >1000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2015	8*	7*	8*	5*	11*	6*	8*	5*
02 May 2015	8*	7*	8*	5*	11*	6*	8*	5*
03 May 2015	8*	7*	8*	5*	11*	6*	8*	5*
04 May 2015	8*	7*	8*	5*	11*	6*	8*	5*
05 May 2015	9	12	11	8	13	8	12	8
06 May 2015	9	12	11	8	13	8	12	8
07 May 2015	13*	19*	18*	12*	20*	11*	19*	9*
08 May 2015	13*	19*	18*	12*	20*	11*	19*	9*
09 May 2015	13*	19*	18*	12*	20*	11*	19*	9*
10 May 2015	13*	19*	18*	12*	20*	11*	19*	9*
11 May 2015	13*	19*	18*	12*	20*	11*	19*	9*
12 May 2015	14	72	18	8	20	20	20	7
13 May 2015	14	72	18	8	20	20	20	7
14 May 2015	20*	131	26*	8*	20*	36*	26*	9*
15 May 2015	20*	131	26*	8*	20*	36*	26*	9*
16 May 2015	20*	131	26*	8*	20*	36*	26*	9*
17 May 2015	20*	131	26*	8*	20*	36*	26*	9*
18 May 2015	20*	131	26*	8*	20*	36*	26*	9*
19 May 2015	20	292	77	11	20	114	95	11
20 May 2015	20	292	77	11	20	114	95	11
21 May 2015	20*	740	108*	10*	20*	99	319	8*
22 May 2015	20*	793	108*	10*	20*	99	319	8*
23 May 2015	20*	793	108*	10*	20*	99	319	8*
24 May 2015	20*	793	108*	10*	20*	99	319	8*
25 May 2015	20*	793	108*	10*	20*	99	319	8*
26 May 2015	20	574	77	11	13	52	201	6
27 May 2015	20	574	77	11	13	52	201	6
28 May 2015	20*	1024	108*	18*	11*	63	319	8*
29 May 2015	20*	1024	108*	18*	11*	63	319	8*
30 May 2015	20*	1024	108*	18*	11*	63	319	8*
31 May 2015	20*	1024	108*	18*	11*	63	319	8*

* Geometric mean calculated using an n<5

Table 2.2

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for fecal coliform at the SBOO shore stations located north of the USA/Mexico border. 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 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
02 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
03 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
04 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
05 May 2015	2	2	3	2	3	2	2	3
06 May 2015	2	2	3	2	3	2	2	3
07 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
08 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
09 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
10 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
11 May 2015	2*	3*	3*	2*	3*	3*	2*	4*
12 May 2015	2	11	3	2	3	4	3	3
13 May 2015	2	11	3	2	3	4	3	3
14 May 2015	2*	17	3*	2*	3*	5*	3*	4*
15 May 2015	2*	17	3*	2*	3*	5*	3*	4*
16 May 2015	2*	17	3*	2*	3*	5*	3*	4*
17 May 2015	2*	17	3*	2*	3*	5*	3*	4*
18 May 2015	2*	17	3*	2*	3*	5*	3*	4*
19 May 2015	3	43	8	2	2	12	10	4
20 May 2015	3	43	8	2	2	12	10	4
21 May 2015	3*	132	12*	2*	2*	12	29	3*
22 May 2015	3*	127	12*	2*	2*	12	18	3*
23 May 2015	3*	127	12*	2*	2*	12	18	3*
24 May 2015	3*	127	12*	2*	2*	12	18	3*
25 May 2015	3*	127	12*	2*	2*	12	18	3*
26 May 2015	3	98	8	2	2	9	16	3
27 May 2015	3	98	8	2	2	9	16	3
28 May 2015	3*	171	7*	2*	2*	9	23	3*
29 May 2015	3*	171	7*	2*	2*	9	23	3*
30 May 2015	3*	171	7*	2*	2*	9	23	3*
31 May 2015	3*	171	7*	2*	2*	9	23	3*

* Geometric mean calculated using an n<5

Table 2.3

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations located north of the USA/Mexico border. 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 May 2015	2*	4*	2*	2*	2*	2*	2*	2*
02 May 2015	2*	4*	2*	2*	2*	2*	2*	2*
03 May 2015	2*	4*	2*	2*	2*	2*	2*	2*
04 May 2015	2*	4*	2*	2*	2*	2*	2*	2*
05 May 2015	2	5	2	2	2	2	3	3
06 May 2015	2	5	2	2	2	2	3	3
07 May 2015	2*	5*	2*	2*	2*	2*	3*	3*
08 May 2015	2*	5*	2*	2*	2*	2*	3*	3*
09 May 2015	2*	5*	2*	2*	2*	2*	3*	3*
10 May 2015	2*	5*	2*	2*	2*	2*	3*	3*
11 May 2015	2*	5*	2*	2*	2*	2*	3*	3*
12 May 2015	2	11	2	2	2	2	3	3
13 May 2015	2	11	2	2	2	2	3	3
14 May 2015	2*	14	2*	2*	2*	2*	3*	3*
15 May 2015	2*	14	2*	2*	2*	2*	3*	3*
16 May 2015	2*	14	2*	2*	2*	2*	3*	3*
17 May 2015	2*	14	2*	2*	2*	2*	3*	3*
18 May 2015	2*	14	2*	2*	2*	2*	3*	3*
19 May 2015	2	29	4	3	2	3	7	3
20 May 2015	2	29	4	3	2	3	7	3
21 May 2015	2*	58	4*	3*	2*	4*	13	4*
22 May 2015	2*	58	4*	3*	2*	4*	13	4*
23 May 2015	2*	58	4*	3*	2*	4*	13	4*
24 May 2015	2*	58	4*	3*	2*	4*	13	4*
25 May 2015	2*	58	4*	3*	2*	4*	13	4*
26 May 2015	2	61	5	3	2	3	16	5
27 May 2015	2	61	5	3	2	3	16	5
28 May 2015	2*	99	7*	3*	2*	4*	24	6*
29 May 2015	2*	99	7*	3*	2*	4*	24	6*
30 May 2015	2*	99	7*	3*	2*	4*	24	6*
31 May 2015	2*	99	7*	3*	2*	4*	24	6*

* Geometric mean calculated using an n<5

Table 2.4

Summary of compliance at the SBOO shore stations located north of the USA/Mexico border with the 2012 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
05 May 2015	IC	IC	IC	IC	IC	IC	IC	IC
12 May 2015	IC	E	IC	IC	IC	IC	IC	IC
14 May 2015	ns	IC	ns	ns	ns	ns	ns	ns
19 May 2015	IC	E	IC	IC	IC	E	E	IC
21 May 2015	ns	E	ns	ns	ns	IC	IC	ns
22 May 2015	ns	IC	ns	ns	ns	ns	ns	ns
26 May 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 located north of the USA/Mexico border with the 2012 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
05 May 2015	IC	IC	IC	IC	IC	IC	IC	IC
12 May 2015	IC	E	IC	IC	IC	IC	IC	IC
14 May 2015	ns	IC	ns	ns	ns	ns	ns	ns
19 May 2015	IC	E	IC	IC	IC	E	E	IC
21 May 2015	ns	E	ns	ns	ns	IC	E	ns
22 May 2015	ns	IC	ns	ns	ns	ns	IC	ns
26 May 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 located north of the USA/Mexico border with the 2012 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
05 May 2015	IC	IC	IC	IC	IC	IC	IC	IC
12 May 2015	IC	E	IC	IC	IC	IC	IC	IC
14 May 2015	ns	IC	ns	ns	ns	ns	ns	ns
19 May 2015	IC	E	IC	IC	IC	IC	E	IC
21 May 2015	ns	E	ns	ns	ns	ns	IC	ns
22 May 2015	ns	IC	ns	ns	ns	ns	ns	ns
26 May 2015	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.7

Summary of compliance at the SBOO shore stations located north of the USA/Mexico border with the 2012 Ocean Plan's Single Sample Maximum standard for total coliforms 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
05 May 2015	IC	IC	IC	IC	IC	IC	IC	IC
12 May 2015	IC	E	IC	IC	IC	IC	IC	IC
14 May 2015	ns	IC	ns	ns	ns	ns	ns	ns
19 May 2015	IC	E	IC	IC	IC	IC	IC	IC
21 May 2015	ns	E	ns	ns	ns	IC	IC	ns
22 May 2015	ns	IC	ns	ns	ns	ns	ns	ns
26 May 2015	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.8

Concentrations of total coliform (Total), fecal coliform (Fecal), *Enterococcus* (Entero) and the fecal:total coliform ratio (F:T) at each SBOO shore station by sample date. Densities are reported as CFU/100 mL; F:T is unitless. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero	F:T
S0	06 May 2015	1055	<20	2e	<2	0.10
S0	12 May 2015	1030	880	140e	48	0.16
S0	19 May 2015	1025	760	34e	66	0.04
S0	26 May 2015	1052	<20	<2	16e	0.10
S2	06 May 2015	938	2e	<2	<2	1.00
S2	12 May 2015	1130	2e	<2	<2	1.00
S2	19 May 2015	1150	6e	<2	4e	0.33
S2	26 May 2015	1110	<20	4e	12e	0.20
S3	06 May 2015	1002	20e	<2	<2	0.10
S3	12 May 2015	1100	<2	<2	<2	1.00
S3	19 May 2015	1120	86	2e	40	0.02
S3	26 May 2015	1138	<20	<2	2e	0.10
S4	05 May 2015	1123	20e	<2	2e	0.10
S4	12 May 2015	1133	<20	<2	<2	0.10
S4	19 May 2015	1111	22e	8e	<2	0.36
S4	26 May 2015	1105	<20	<2	<2	0.10
S5	05 May 2015	927	100e	2e	14e	0.02
S5	12 May 2015	951	>16000	2800e	280e	0.17
S5	14 May 2015	830	40e	20e	8e	0.50
S5	19 May 2015	942	>16000	4800	1000	0.30
S5	21 May 2015	811	>16000	5000	620	0.31
S5	22 May 2015	955	1200e	100e	60	0.08
S5	26 May 2015	931	60e	16e	80	0.27
S6	05 May 2015	943	60e	<2	2e	0.03
S6	12 May 2015	1003	<20	2e	<2	0.10
S6	19 May 2015	954	5600	300e	28e	0.05
S6	26 May 2015	949	<20	2e	22e	0.10
S8	05 May 2015	806	60e	<2	4e	0.03
S8	12 May 2015	832	<2	<2	<2	1.00
S8	19 May 2015	814	40e	4e	6e	0.10
S8	26 May 2015	815	<20	<2	2e	0.10
S9	05 May 2015	747	20e	2e	<2	0.10
S9	12 May 2015	816	<20	<2	<2	0.10
S9	19 May 2015	751	20e	<2	<2	0.10
S9	26 May 2015	756	<2	<2	<2	1.00
S10	05 May 2015	1128	<20	<2	2e	0.10
S10	12 May 2015	1138	200e	20e	<2	0.10
S10	19 May 2015	1116	12000	440e	28e	0.04
S10	21 May 2015	918	10e	<2	ns	0.20
S10	26 May 2015	1111	<2	<2	2e	1.00

Station	Date	Time	Total	Fecal	Entero	F:T
S11	05 May 2015	939	60e	<2	8e	0.03
S11	12 May 2015	959	<20	10e	<2	0.50
S11	19 May 2015	949	>16000	1000e	260e	0.06
S11	21 May 2015	828	8600	500	48	0.06
S11	22 May 2015	1008	ns	2e	ns	ns
S11	26 May 2015	942	20e	8e	38e	0.40
S12	05 May 2015	952	40e	2e	8e	0.05
S12	12 May 2015	1012	<2	<2	<2	1.00
S12	19 May 2015	1006	20e	6e	6e	0.30
S12	26 May 2015	957	<2	4e	10e	2.00

ns = not sampled

Comments

Station	Date	Depth	Parameter	Comments
S5	14 May 2015			Resample
S5	21 May 2015			Resample
S10	21 May 2015			Resample
S11	21 May 2015			Resample
S5	22 May 2015			Resample
S11	22 May 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	06 May 2015	Arrive Time	1055
S0	06 May 2015	Weather	Partly Cloudy
S0	06 May 2015	Wind Speed (kts)	2.8
S0	06 May 2015	Wind Dir	NE
S0	06 May 2015	Animal Life	5 Shorebirds
S0	06 May 2015	Floatables	None
S0	06 May 2015	Water Color	Green
S0	06 May 2015	Current Direction	NE
S0	06 May 2015	Water Temp (C)	15.5
S0	06 May 2015	Wave Height Low (ft)	5
S0	06 May 2015	High Tide (ft)	3.6
S0	06 May 2015	High Tide Time	1143
S0	06 May 2015	Low Tide (ft)	-0.5
S0	06 May 2015	Low Tide Time	529
S0	06 May 2015	Comments	Kelp; 3 Persons; 1 Surfer; Water clear; Flow from stormdrain 0.5 L/sec
S0	12 May 2015	Arrive Time	1030
S0	12 May 2015	Weather	Sunny
S0	12 May 2015	Wind Speed (kts)	3.6
S0	12 May 2015	Wind Dir	SW
S0	12 May 2015	Animal Life	3 Dogs; >20 Seagulls
S0	12 May 2015	Floatables	None
S0	12 May 2015	Water Color	Green
S0	12 May 2015	Current Direction	N
S0	12 May 2015	Water Temp (C)	16
S0	12 May 2015	Wave Height Low (ft)	2
S0	12 May 2015	High Tide (ft)	4.1
S0	12 May 2015	High Tide Time	432
S0	12 May 2015	Low Tide (ft)	0.2
S0	12 May 2015	Low Tide Time	1119
S0	12 May 2015	Comments	Kelp; Water turbid; Flow from stormdrain 0.5 L/sec
S0	19 May 2015	Arrive Time	1025
S0	19 May 2015	Weather	Sunny
S0	19 May 2015	Wind Speed (kts)	2.6
S0	19 May 2015	Wind Dir	NE
S0	19 May 2015	Animal Life	5 Shorebirds
S0	19 May 2015	Floatables	None
S0	19 May 2015	Water Color	Green
S0	19 May 2015	Current Direction	N

Station	Date	Parameter	Value
S0	19 May 2015	Water Temp (C)	18
S0	19 May 2015	Wave Height Low (ft)	3
S0	19 May 2015	High Tide (ft)	4
S0	19 May 2015	High Tide Time	1113
S0	19 May 2015	Low Tide (ft)	-1.2
S0	19 May 2015	Low Tide Time	456
S0	19 May 2015	Comments	Kelp; Algae; 3 Persons; Water clear; Flow from stormdrain 0.5 L/sec
S0	26 May 2015	Arrive Time	1052
S0	26 May 2015	Weather	Cloudy
S0	26 May 2015	Wind Speed (kts)	0.4
S0	26 May 2015	Wind Dir	NW
S0	26 May 2015	Animal Life	5 Shorebirds
S0	26 May 2015	Floatables	None
S0	26 May 2015	Water Color	Green
S0	26 May 2015	Current Direction	N
S0	26 May 2015	Water Temp (C)	13
S0	26 May 2015	Wave Height Low (ft)	2
S0	26 May 2015	High Tide (ft)	3.4
S0	26 May 2015	High Tide Time	420
S0	26 May 2015	Low Tide (ft)	1
S0	26 May 2015	Low Tide Time	1059
S0	26 May 2015	Comments	Kelp; Water clear; Flow from stormdrain 0.5 L/sec; Jellyfish
S2	06 May 2015	Arrive Time	938
S2	06 May 2015	Weather	Cloudy
S2	06 May 2015	Wind Speed (kts)	1.9
S2	06 May 2015	Wind Dir	NE
S2	06 May 2015	Animal Life	5 Shorebirds
S2	06 May 2015	Floatables	None
S2	06 May 2015	Water Color	Green
S2	06 May 2015	Current Direction	NE
S2	06 May 2015	Water Temp (C)	16
S2	06 May 2015	Wave Height Low (ft)	5
S2	06 May 2015	High Tide (ft)	3.6
S2	06 May 2015	High Tide Time	1143
S2	06 May 2015	Low Tide (ft)	-0.5
S2	06 May 2015	Low Tide Time	529
S2	06 May 2015	Comments	Kelp; 5 Persons; Water clear; No flow from stormdrain
S2	12 May 2015	Arrive Time	1130
S2	12 May 2015	Weather	Sunny
S2	12 May 2015	Wind Speed (kts)	8.8
S2	12 May 2015	Wind Dir	SW

Station	Date	Parameter	Value
S2	12 May 2015	Animal Life	1 Dog; >20 Seagulls
S2	12 May 2015	Floatables	None
S2	12 May 2015	Water Color	Green
S2	12 May 2015	Current Direction	N
S2	12 May 2015	Water Temp (C)	16.2
S2	12 May 2015	Wave Height Low (ft)	2
S2	12 May 2015	High Tide (ft)	4.6
S2	12 May 2015	High Tide Time	1755
S2	12 May 2015	Low Tide (ft)	0.2
S2	12 May 2015	Low Tide Time	1119
S2	12 May 2015	Comments	Kelp; Water turbid; No flow from stormdrain
S2	19 May 2015	Arrive Time	1150
S2	19 May 2015	Weather	Sunny
S2	19 May 2015	Wind Speed (kts)	2.8
S2	19 May 2015	Wind Dir	NE
S2	19 May 2015	Animal Life	5 Shorebirds
S2	19 May 2015	Floatables	None
S2	19 May 2015	Water Color	Green
S2	19 May 2015	Current Direction	N
S2	19 May 2015	Water Temp (C)	18
S2	19 May 2015	Wave Height Low (ft)	4
S2	19 May 2015	High Tide (ft)	4
S2	19 May 2015	High Tide Time	1113
S2	19 May 2015	Low Tide (ft)	1.5
S2	19 May 2015	Low Tide Time	1627
S2	19 May 2015	Comments	Kelp; Water clear; No flow from stormdrain, Trash on the shore
S2	26 May 2015	Arrive Time	1110
S2	26 May 2015	Weather	Cloudy
S2	26 May 2015	Wind Speed (kts)	3.1
S2	26 May 2015	Wind Dir	NW
S2	26 May 2015	Animal Life	>20 Shorebirds; >50 Tuna crabs
S2	26 May 2015	Floatables	None
S2	26 May 2015	Water Color	Green
S2	26 May 2015	Current Direction	N
S2	26 May 2015	Water Temp (C)	13.5
S2	26 May 2015	Wave Height Low (ft)	2.5
S2	26 May 2015	High Tide (ft)	4.2
S2	26 May 2015	High Tide Time	1750
S2	26 May 2015	Low Tide (ft)	1
S2	26 May 2015	Low Tide Time	1059
S2	26 May 2015	Comments	Kelp; 2 Persons; Water clear; No flow from stormdrain
S3	06 May 2015	Arrive Time	1002

Station	Date	Parameter	Value
S3	06 May 2015	Weather	Partly Cloudy
S3	06 May 2015	Wind Speed (kts)	2.4
S3	06 May 2015	Wind Dir	NE
S3	06 May 2015	Animal Life	10 Shorebirds; 1 Dog; 1 Dolphin
S3	06 May 2015	Floatables	None
S3	06 May 2015	Water Color	Green
S3	06 May 2015	Current Direction	NE
S3	06 May 2015	Water Temp (C)	15.5
S3	06 May 2015	Wave Height Low (ft)	5
S3	06 May 2015	High Tide (ft)	3.6
S3	06 May 2015	High Tide Time	1143
S3	06 May 2015	Low Tide (ft)	-0.5
S3	06 May 2015	Low Tide Time	529
S3	06 May 2015	Comments	Kelp; 4 Persons; Water clear; No flow from stormdrain
S3	12 May 2015	Arrive Time	1100
S3	12 May 2015	Weather	Sunny
S3	12 May 2015	Wind Speed (kts)	8.6
S3	12 May 2015	Wind Dir	SW
S3	12 May 2015	Animal Life	5 Dogs; >20 Seagulls
S3	12 May 2015	Floatables	None
S3	12 May 2015	Water Color	Green
S3	12 May 2015	Current Direction	N
S3	12 May 2015	Water Temp (C)	16
S3	12 May 2015	Wave Height Low (ft)	2
S3	12 May 2015	High Tide (ft)	4.1
S3	12 May 2015	High Tide Time	432
S3	12 May 2015	Low Tide (ft)	0.2
S3	12 May 2015	Low Tide Time	1119
S3	12 May 2015	Comments	Kelp; Water turbid; Flow from stormdrain 0.5 L/sec
S3	19 May 2015	Arrive Time	1120
S3	19 May 2015	Weather	Sunny
S3	19 May 2015	Wind Speed (kts)	2.8
S3	19 May 2015	Wind Dir	NE
S3	19 May 2015	Animal Life	5 Shorebirds
S3	19 May 2015	Floatables	None
S3	19 May 2015	Water Color	Green
S3	19 May 2015	Current Direction	N
S3	19 May 2015	Water Temp (C)	18
S3	19 May 2015	Wave Height Low (ft)	4
S3	19 May 2015	High Tide (ft)	4
S3	19 May 2015	High Tide Time	1113
S3	19 May 2015	Low Tide (ft)	1.5
S3	19 May 2015	Low Tide Time	1627

Station	Date	Parameter	Value
S3	19 May 2015	Comments	Kelp; Algae; 2 Persons; 2 Surfers; Water clear; No flow from stormdrain
S3	26 May 2015	Arrive Time	1138
S3	26 May 2015	Weather	Cloudy
S3	26 May 2015	Wind Speed (kts)	1.5
S3	26 May 2015	Wind Dir	NW
S3	26 May 2015	Animal Life	5 Shorebirds; >50 Tuna crabs
S3	26 May 2015	Floatables	None
S3	26 May 2015	Water Color	Green
S3	26 May 2015	Current Direction	N
S3	26 May 2015	Water Temp (C)	13.5
S3	26 May 2015	Wave Height Low (ft)	2.5
S3	26 May 2015	High Tide (ft)	4.2
S3	26 May 2015	High Tide Time	1750
S3	26 May 2015	Low Tide (ft)	1
S3	26 May 2015	Low Tide Time	1059
S3	26 May 2015	Comments	Kelp; 2 Persons; Water clear; No flow from stormdrain
S4	05 May 2015	Arrive Time	1123
S4	05 May 2015	Weather	Overcast
S4	05 May 2015	Wind Speed (kts)	3.1
S4	05 May 2015	Wind Dir	W
S4	05 May 2015	Animal Life	None
S4	05 May 2015	Floatables	None
S4	05 May 2015	Water Color	Green
S4	05 May 2015	Current Direction	N
S4	05 May 2015	Water Temp (C)	16.6
S4	05 May 2015	Wave Height Low (ft)	3
S4	05 May 2015	High Tide (ft)	3.8
S4	05 May 2015	High Tide Time	1058
S4	05 May 2015	Low Tide (ft)	1.5
S4	05 May 2015	Low Tide Time	1613
S4	05 May 2015	Comments	Water clear
S4	12 May 2015	Arrive Time	1133
S4	12 May 2015	Weather	Sunny
S4	12 May 2015	Wind Speed (kts)	10.1
S4	12 May 2015	Wind Dir	SW
S4	12 May 2015	Animal Life	1 Seal
S4	12 May 2015	Floatables	None
S4	12 May 2015	Water Color	Green
S4	12 May 2015	Current Direction	N
S4	12 May 2015	Water Temp (C)	16.8
S4	12 May 2015	Wave Height Low (ft)	3
S4	12 May 2015	High Tide (ft)	4.6

Station	Date	Parameter	Value
S4	12 May 2015	High Tide Time	1755
S4	12 May 2015	Low Tide (ft)	0.2
S4	12 May 2015	Low Tide Time	1119
S4	12 May 2015	Comments	Water clear; Dead seal
S4	19 May 2015	Arrive Time	1111
S4	19 May 2015	Weather	Sunny
S4	19 May 2015	Wind Speed (kts)	5.6
S4	19 May 2015	Wind Dir	W
S4	19 May 2015	Animal Life	20 Jellyfish
S4	19 May 2015	Floatables	None
S4	19 May 2015	Water Color	Green
S4	19 May 2015	Current Direction	N
S4	19 May 2015	Water Temp (C)	19.6
S4	19 May 2015	Wave Height Low (ft)	4
S4	19 May 2015	High Tide (ft)	4
S4	19 May 2015	High Tide Time	1113
S4	19 May 2015	Low Tide (ft)	1.5
S4	19 May 2015	Low Tide Time	1627
S4	19 May 2015	Comments	Kelp; Seagrass; Water clear
S4	26 May 2015	Arrive Time	1105
S4	26 May 2015	Weather	Cloudy
S4	26 May 2015	Wind Speed (kts)	5
S4	26 May 2015	Wind Dir	W
S4	26 May 2015	Animal Life	50 Shorebirds
S4	26 May 2015	Floatables	None
S4	26 May 2015	Water Color	Green
S4	26 May 2015	Current Direction	W
S4	26 May 2015	Water Temp (C)	16.2
S4	26 May 2015	Wave Height Low (ft)	2
S4	26 May 2015	High Tide (ft)	3.4
S4	26 May 2015	High Tide Time	420
S4	26 May 2015	Low Tide (ft)	1
S4	26 May 2015	Low Tide Time	1059
S4	26 May 2015	Comments	Kelp; Seagrass; Water clear
S5	05 May 2015	Arrive Time	927
S5	05 May 2015	Weather	Overcast
S5	05 May 2015	Wind Speed (kts)	5.4
S5	05 May 2015	Wind Dir	W
S5	05 May 2015	Animal Life	None
S5	05 May 2015	Floatables	None
S5	05 May 2015	Water Color	Green
S5	05 May 2015	Current Direction	N
S5	05 May 2015	Water Temp (C)	16.8
S5	05 May 2015	Wave Height Low (ft)	3

Station	Date	Parameter	Value
S5	05 May 2015	High Tide (ft)	3.8
S5	05 May 2015	High Tide Time	1058
S5	05 May 2015	Low Tide (ft)	-0.5
S5	05 May 2015	Low Tide Time	450
S5	05 May 2015	Comments	Kelp; Water clear
S5	12 May 2015	Arrive Time	951
S5	12 May 2015	Weather	Partly Cloudy
S5	12 May 2015	Wind Speed (kts)	9.3
S5	12 May 2015	Wind Dir	SW
S5	12 May 2015	Animal Life	2 Birds; 1 Seal
S5	12 May 2015	Floatables	None
S5	12 May 2015	Water Color	Green
S5	12 May 2015	Current Direction	N
S5	12 May 2015	Water Temp (C)	17.4
S5	12 May 2015	Wave Height Low (ft)	3
S5	12 May 2015	High Tide (ft)	4.1
S5	12 May 2015	High Tide Time	432
S5	12 May 2015	Low Tide (ft)	0.2
S5	12 May 2015	Low Tide Time	1119
S5	12 May 2015	Comments	Water clear; Detergent odor
S5	14 May 2015	Arrive Time	830
S5	14 May 2015	Weather	Overcast
S5	14 May 2015	Wind Speed (kts)	4.2
S5	14 May 2015	Wind Dir	SW
S5	14 May 2015	Animal Life	3 Birds
S5	14 May 2015	Floatables	None
S5	14 May 2015	Water Color	Green
S5	14 May 2015	Current Direction	N
S5	14 May 2015	Water Temp (C)	16.8
S5	14 May 2015	Wave Height Low (ft)	3
S5	14 May 2015	High Tide (ft)	4.3
S5	14 May 2015	High Tide Time	655
S5	14 May 2015	Low Tide (ft)	0.3
S5	14 May 2015	Low Tide Time	1259
S5	14 May 2015	Comments	Kelp; Water clear
S5	19 May 2015	Arrive Time	942
S5	19 May 2015	Weather	Sunny
S5	19 May 2015	Wind Speed (kts)	5
S5	19 May 2015	Wind Dir	W
S5	19 May 2015	Animal Life	4 Birds; 20 Jellyfish
S5	19 May 2015	Floatables	None
S5	19 May 2015	Water Color	Green
S5	19 May 2015	Current Direction	N
S5	19 May 2015	Water Temp (C)	19.3

Station	Date	Parameter	Value
S5	19 May 2015	Wave Height Low (ft)	2
S5	19 May 2015	High Tide (ft)	4
S5	19 May 2015	High Tide Time	1113
S5	19 May 2015	Low Tide (ft)	-1.2
S5	19 May 2015	Low Tide Time	456
S5	19 May 2015	Comments	Kelp; Seagrass; Water clear
S5	21 May 2015	Arrive Time	811
S5	21 May 2015	Weather	Overcast
S5	21 May 2015	Wind Speed (kts)	8.5
S5	21 May 2015	Wind Dir	W
S5	21 May 2015	Animal Life	12 Birds
S5	21 May 2015	Floatables	None
S5	21 May 2015	Water Color	Green
S5	21 May 2015	Current Direction	N
S5	21 May 2015	Water Temp (C)	17
S5	21 May 2015	Wave Height Low (ft)	2
S5	21 May 2015	High Tide (ft)	3.7
S5	21 May 2015	High Tide Time	1259
S5	21 May 2015	Low Tide (ft)	-0.6
S5	21 May 2015	Low Tide Time	627
S5	21 May 2015	Comments	Kelp; Water clear
S5	22 May 2015	Arrive Time	955
S5	22 May 2015	Weather	Partly Cloudy
S5	22 May 2015	Wind Speed (kts)	7.3
S5	22 May 2015	Wind Dir	NW
S5	22 May 2015	Animal Life	None
S5	22 May 2015	Floatables	None
S5	22 May 2015	Water Color	Green
S5	22 May 2015	Current Direction	N
S5	22 May 2015	Water Temp (C)	19.2
S5	22 May 2015	Wave Height Low (ft)	2
S5	22 May 2015	High Tide (ft)	3.5
S5	22 May 2015	High Tide Time	1401
S5	22 May 2015	Low Tide (ft)	-0.2
S5	22 May 2015	Low Tide Time	717
S5	22 May 2015	Comments	Kelp; Water clear
S5	26 May 2015	Arrive Time	931
S5	26 May 2015	Weather	Cloudy
S5	26 May 2015	Wind Speed (kts)	4.8
S5	26 May 2015	Wind Dir	NW
S5	26 May 2015	Animal Life	30 Shorebirds
S5	26 May 2015	Floatables	None
S5	26 May 2015	Water Color	Green
S5	26 May 2015	Current Direction	NW

Station	Date	Parameter	Value
S5	26 May 2015	Water Temp (C)	17.6
S5	26 May 2015	Wave Height Low (ft)	3
S5	26 May 2015	High Tide (ft)	3.4
S5	26 May 2015	High Tide Time	420
S5	26 May 2015	Low Tide (ft)	1
S5	26 May 2015	Low Tide Time	1059
S5	26 May 2015	Comments	Kelp; Seagrass; Water clear
S6	05 May 2015	Arrive Time	943
S6	05 May 2015	Weather	Overcast
S6	05 May 2015	Wind Speed (kts)	3.6
S6	05 May 2015	Wind Dir	W
S6	05 May 2015	Animal Life	None
S6	05 May 2015	Floatables	None
S6	05 May 2015	Water Color	Green
S6	05 May 2015	Current Direction	N
S6	05 May 2015	Water Temp (C)	16.6
S6	05 May 2015	Wave Height Low (ft)	3
S6	05 May 2015	High Tide (ft)	3.8
S6	05 May 2015	High Tide Time	1058
S6	05 May 2015	Low Tide (ft)	-0.5
S6	05 May 2015	Low Tide Time	450
S6	05 May 2015	Comments	Kelp; Seagrass; Water clear
S6	12 May 2015	Arrive Time	1003
S6	12 May 2015	Weather	Partly Cloudy
S6	12 May 2015	Wind Speed (kts)	7.1
S6	12 May 2015	Wind Dir	SW
S6	12 May 2015	Animal Life	None
S6	12 May 2015	Floatables	None
S6	12 May 2015	Water Color	Green
S6	12 May 2015	Current Direction	N
S6	12 May 2015	Water Temp (C)	17.4
S6	12 May 2015	Wave Height Low (ft)	3
S6	12 May 2015	High Tide (ft)	4.1
S6	12 May 2015	High Tide Time	432
S6	12 May 2015	Low Tide (ft)	0.2
S6	12 May 2015	Low Tide Time	1119
S6	12 May 2015	Comments	Kelp; Seagrass; Water clear
S6	19 May 2015	Arrive Time	954
S6	19 May 2015	Weather	Sunny
S6	19 May 2015	Wind Speed (kts)	5.2
S6	19 May 2015	Wind Dir	W
S6	19 May 2015	Animal Life	20 Jellyfish
S6	19 May 2015	Floatables	None
S6	19 May 2015	Water Color	Green

Station	Date	Parameter	Value
S6	19 May 2015	Current Direction	N
S6	19 May 2015	Water Temp (C)	19.3
S6	19 May 2015	Wave Height Low (ft)	3
S6	19 May 2015	High Tide (ft)	4
S6	19 May 2015	High Tide Time	1113
S6	19 May 2015	Low Tide (ft)	-1.2
S6	19 May 2015	Low Tide Time	456
S6	19 May 2015	Comments	Kelp; Seagrass; Water turbid
S6	26 May 2015	Arrive Time	949
S6	26 May 2015	Weather	Cloudy
S6	26 May 2015	Wind Speed (kts)	4.6
S6	26 May 2015	Wind Dir	NW
S6	26 May 2015	Animal Life	None
S6	26 May 2015	Floatables	None
S6	26 May 2015	Water Color	Green
S6	26 May 2015	Current Direction	NW
S6	26 May 2015	Water Temp (C)	17.4
S6	26 May 2015	Wave Height Low (ft)	3
S6	26 May 2015	High Tide (ft)	3.4
S6	26 May 2015	High Tide Time	420
S6	26 May 2015	Low Tide (ft)	1
S6	26 May 2015	Low Tide Time	1059
S6	26 May 2015	Comments	Kelp; Seagrass; 1 Jogger; 1 Surfer; Water clear
S8	05 May 2015	Arrive Time	806
S8	05 May 2015	Weather	Overcast
S8	05 May 2015	Wind Speed (kts)	5.4
S8	05 May 2015	Wind Dir	W
S8	05 May 2015	Animal Life	None
S8	05 May 2015	Floatables	None
S8	05 May 2015	Water Color	Green
S8	05 May 2015	Current Direction	N
S8	05 May 2015	Water Temp (C)	16.6
S8	05 May 2015	Wave Height Low (ft)	3
S8	05 May 2015	High Tide (ft)	3.8
S8	05 May 2015	High Tide Time	1058
S8	05 May 2015	Low Tide (ft)	-0.5
S8	05 May 2015	Low Tide Time	450
S8	05 May 2015	Comments	Kelp; Water clear
S8	12 May 2015	Arrive Time	832
S8	12 May 2015	Weather	Cloudy
S8	12 May 2015	Wind Speed (kts)	7.5
S8	12 May 2015	Wind Dir	SW
S8	12 May 2015	Animal Life	None

Station	Date	Parameter	Value
S8	12 May 2015	Floatables	None
S8	12 May 2015	Water Color	Green
S8	12 May 2015	Current Direction	N
S8	12 May 2015	Water Temp (C)	16.8
S8	12 May 2015	Wave Height Low (ft)	2
S8	12 May 2015	High Tide (ft)	4.1
S8	12 May 2015	High Tide Time	432
S8	12 May 2015	Low Tide (ft)	0.2
S8	12 May 2015	Low Tide Time	1119
S8	12 May 2015	Comments	1 Fisherman; Water clear
S8	19 May 2015	Arrive Time	814
S8	19 May 2015	Weather	Sunny
S8	19 May 2015	Wind Speed (kts)	4.2
S8	19 May 2015	Wind Dir	W
S8	19 May 2015	Animal Life	20 Jellyfish
S8	19 May 2015	Floatables	None
S8	19 May 2015	Water Color	Green
S8	19 May 2015	Current Direction	N
S8	19 May 2015	Water Temp (C)	19.4
S8	19 May 2015	Wave Height Low (ft)	2
S8	19 May 2015	High Tide (ft)	4
S8	19 May 2015	High Tide Time	1113
S8	19 May 2015	Low Tide (ft)	-1.2
S8	19 May 2015	Low Tide Time	456
S8	19 May 2015	Comments	Kelp; Seagrass; Water clear; Foam
S8	26 May 2015	Arrive Time	815
S8	26 May 2015	Weather	Cloudy
S8	26 May 2015	Wind Speed (kts)	3.8
S8	26 May 2015	Wind Dir	NW
S8	26 May 2015	Animal Life	5 Shorebirds; 10 Birds; 4 Pelicans
S8	26 May 2015	Floatables	None
S8	26 May 2015	Water Color	Colorless
S8	26 May 2015	Current Direction	NW
S8	26 May 2015	Water Temp (C)	16.2
S8	26 May 2015	Wave Height Low (ft)	3
S8	26 May 2015	High Tide (ft)	3.4
S8	26 May 2015	High Tide Time	420
S8	26 May 2015	Low Tide (ft)	1
S8	26 May 2015	Low Tide Time	1059
S8	26 May 2015	Comments	Seagrass; Water clear
S9	05 May 2015	Arrive Time	747
S9	05 May 2015	Weather	Overcast
S9	05 May 2015	Wind Speed (kts)	3.4
S9	05 May 2015	Wind Dir	W

Station	Date	Parameter	Value
S9	05 May 2015	Animal Life	None
S9	05 May 2015	Floatables	None
S9	05 May 2015	Water Color	Green
S9	05 May 2015	Current Direction	N
S9	05 May 2015	Water Temp (C)	16.6
S9	05 May 2015	Wave Height Low (ft)	2
S9	05 May 2015	High Tide (ft)	3.8
S9	05 May 2015	High Tide Time	1058
S9	05 May 2015	Low Tide (ft)	-0.5
S9	05 May 2015	Low Tide Time	450
S9	05 May 2015	Comments	Kelp; Water clear
S9	12 May 2015	Arrive Time	816
S9	12 May 2015	Weather	Cloudy
S9	12 May 2015	Wind Speed (kts)	7.1
S9	12 May 2015	Wind Dir	SW
S9	12 May 2015	Animal Life	None
S9	12 May 2015	Floatables	None
S9	12 May 2015	Water Color	Green
S9	12 May 2015	Current Direction	N
S9	12 May 2015	Water Temp (C)	16.4
S9	12 May 2015	Wave Height Low (ft)	2
S9	12 May 2015	High Tide (ft)	4.1
S9	12 May 2015	High Tide Time	432
S9	12 May 2015	Low Tide (ft)	0.2
S9	12 May 2015	Low Tide Time	1119
S9	12 May 2015	Comments	Water clear
S9	19 May 2015	Arrive Time	751
S9	19 May 2015	Weather	Sunny
S9	19 May 2015	Wind Speed (kts)	3.8
S9	19 May 2015	Wind Dir	W
S9	19 May 2015	Animal Life	20 Jellyfish
S9	19 May 2015	Floatables	None
S9	19 May 2015	Water Color	Green
S9	19 May 2015	Current Direction	N
S9	19 May 2015	Water Temp (C)	19.2
S9	19 May 2015	Wave Height Low (ft)	2
S9	19 May 2015	High Tide (ft)	4
S9	19 May 2015	High Tide Time	1113
S9	19 May 2015	Low Tide (ft)	-1.2
S9	19 May 2015	Low Tide Time	456
S9	19 May 2015	Comments	Kelp; Water clear; Foam
S9	26 May 2015	Arrive Time	756
S9	26 May 2015	Weather	Cloudy
S9	26 May 2015	Wind Speed (kts)	5

Station	Date	Parameter	Value
S9	26 May 2015	Wind Dir	NW
S9	26 May 2015	Animal Life	None
S9	26 May 2015	Floatables	None
S9	26 May 2015	Water Color	Green
S9	26 May 2015	Current Direction	NW
S9	26 May 2015	Water Temp (C)	15.6
S9	26 May 2015	Wave Height Low (ft)	2
S9	26 May 2015	High Tide (ft)	3.4
S9	26 May 2015	High Tide Time	420
S9	26 May 2015	Low Tide (ft)	1
S9	26 May 2015	Low Tide Time	1059
S9	26 May 2015	Comments	Seagrass; Water clear
S10	12 May 2015	Arrive Time	1138
S10	12 May 2015	Weather	Sunny
S10	12 May 2015	Wind Speed (kts)	10.1
S10	12 May 2015	Wind Dir	SW
S10	12 May 2015	Animal Life	None
S10	12 May 2015	Floatables	None
S10	12 May 2015	Water Color	Green
S10	12 May 2015	Current Direction	N
S10	12 May 2015	Water Temp (C)	16.8
S10	12 May 2015	Wave Height Low (ft)	3
S10	12 May 2015	High Tide (ft)	4.6
S10	12 May 2015	High Tide Time	1755
S10	12 May 2015	Low Tide (ft)	0.2
S10	12 May 2015	Low Tide Time	1119
S10	12 May 2015	Comments	Kelp; Water clear; Dairy mart flow at 1209
S10	19 May 2015	Arrive Time	1116
S10	19 May 2015	Weather	Sunny
S10	19 May 2015	Wind Speed (kts)	4.6
S10	19 May 2015	Wind Dir	W
S10	19 May 2015	Animal Life	20 Jellyfish
S10	19 May 2015	Floatables	None
S10	19 May 2015	Water Color	Green
S10	19 May 2015	Current Direction	N
S10	19 May 2015	Water Temp (C)	19.6
S10	19 May 2015	Wave Height Low (ft)	3
S10	19 May 2015	High Tide (ft)	4
S10	19 May 2015	High Tide Time	1113
S10	19 May 2015	Low Tide (ft)	1.5
S10	19 May 2015	Low Tide Time	1627
S10	19 May 2015	Comments	Kelp; Seagrass; Water clear; Flow at dairy mart road
S10	21 May 2015	Arrive Time	918

Station	Date	Parameter	Value
S10	21 May 2015	Weather	Overcast
S10	21 May 2015	Wind Speed (kts)	6.4
S10	21 May 2015	Wind Dir	W
S10	21 May 2015	Animal Life	20 Jellyfish
S10	21 May 2015	Floatables	None
S10	21 May 2015	Water Color	Green
S10	21 May 2015	Current Direction	N
S10	21 May 2015	Water Temp (C)	17.2
S10	21 May 2015	Wave Height Low (ft)	2
S10	21 May 2015	High Tide (ft)	3.7
S10	21 May 2015	High Tide Time	1259
S10	21 May 2015	Low Tide (ft)	-0.6
S10	21 May 2015	Low Tide Time	627
S10	21 May 2015	Comments	Kelp; Water clear
S10	26 May 2015	Arrive Time	1111
S10	26 May 2015	Weather	Cloudy
S10	26 May 2015	Wind Speed (kts)	4.8
S10	26 May 2015	Wind Dir	W
S10	26 May 2015	Animal Life	5 Shorebirds
S10	26 May 2015	Floatables	None
S10	26 May 2015	Water Color	Green
S10	26 May 2015	Current Direction	W
S10	26 May 2015	Water Temp (C)	17.4
S10	26 May 2015	Wave Height Low (ft)	2
S10	26 May 2015	High Tide (ft)	4.2
S10	26 May 2015	High Tide Time	1750
S10	26 May 2015	Low Tide (ft)	1
S10	26 May 2015	Low Tide Time	1059
S10	26 May 2015	Comments	Kelp; Seagrass; Water clear; Flow at Dairy Mart Road
S11	05 May 2015	Arrive Time	939
S11	05 May 2015	Weather	Overcast
S11	05 May 2015	Wind Speed (kts)	6.9
S11	05 May 2015	Wind Dir	W
S11	05 May 2015	Animal Life	None
S11	05 May 2015	Floatables	None
S11	05 May 2015	Water Color	Green
S11	05 May 2015	Current Direction	N
S11	05 May 2015	Water Temp (C)	16.6
S11	05 May 2015	Wave Height Low (ft)	3
S11	05 May 2015	High Tide (ft)	3.8
S11	05 May 2015	High Tide Time	1058
S11	05 May 2015	Low Tide (ft)	-0.5
S11	05 May 2015	Low Tide Time	450
S11	05 May 2015	Comments	Kelp; Water clear

Station	Date	Parameter	Value
S11	12 May 2015	Arrive Time	959
S11	12 May 2015	Weather	Partly Cloudy
S11	12 May 2015	Wind Speed (kts)	7.5
S11	12 May 2015	Wind Dir	SW
S11	12 May 2015	Animal Life	2 Dogs
S11	12 May 2015	Floatables	None
S11	12 May 2015	Water Color	Green
S11	12 May 2015	Current Direction	N
S11	12 May 2015	Water Temp (C)	17.4
S11	12 May 2015	Wave Height Low (ft)	3
S11	12 May 2015	High Tide (ft)	4.1
S11	12 May 2015	High Tide Time	432
S11	12 May 2015	Low Tide (ft)	0.2
S11	12 May 2015	Low Tide Time	1119
S11	12 May 2015	Comments	Kelp; 1 Person; Water clear
S11	19 May 2015	Arrive Time	949
S11	19 May 2015	Weather	Sunny
S11	19 May 2015	Wind Speed (kts)	6.4
S11	19 May 2015	Wind Dir	W
S11	19 May 2015	Animal Life	20 Jellyfish
S11	19 May 2015	Floatables	None
S11	19 May 2015	Water Color	Green
S11	19 May 2015	Current Direction	N
S11	19 May 2015	Water Temp (C)	19.3
S11	19 May 2015	Wave Height Low (ft)	4
S11	19 May 2015	High Tide (ft)	4
S11	19 May 2015	High Tide Time	1113
S11	19 May 2015	Low Tide (ft)	-1.2
S11	19 May 2015	Low Tide Time	456
S11	19 May 2015	Comments	Kelp; Seagrass; Water clear
S11	21 May 2015	Arrive Time	828
S11	21 May 2015	Weather	Overcast
S11	21 May 2015	Wind Speed (kts)	8.2
S11	21 May 2015	Wind Dir	W
S11	21 May 2015	Animal Life	None
S11	21 May 2015	Floatables	None
S11	21 May 2015	Water Color	Green
S11	21 May 2015	Current Direction	N
S11	21 May 2015	Water Temp (C)	17.2
S11	21 May 2015	Wave Height Low (ft)	2
S11	21 May 2015	High Tide (ft)	3.7
S11	21 May 2015	High Tide Time	1259
S11	21 May 2015	Low Tide (ft)	-0.6
S11	21 May 2015	Low Tide Time	627

Station	Date	Parameter	Value
S11	21 May 2015	Comments	Kelp; Water clear
S11	22 May 2015	Arrive Time	1008
S11	22 May 2015	Weather	Partly Cloudy
S11	22 May 2015	Wind Speed (kts)	5.4
S11	22 May 2015	Wind Dir	NW
S11	22 May 2015	Animal Life	None
S11	22 May 2015	Floatables	None
S11	22 May 2015	Water Color	Green
S11	22 May 2015	Current Direction	N
S11	22 May 2015	Water Temp (C)	19.2
S11	22 May 2015	Wave Height Low (ft)	2
S11	22 May 2015	High Tide (ft)	3.5
S11	22 May 2015	High Tide Time	1401
S11	22 May 2015	Low Tide (ft)	-0.2
S11	22 May 2015	Low Tide Time	717
S11	22 May 2015	Comments	Kelp; Water clear
S11	26 May 2015	Arrive Time	942
S11	26 May 2015	Weather	Cloudy
S11	26 May 2015	Wind Speed (kts)	5.4
S11	26 May 2015	Wind Dir	NW
S11	26 May 2015	Animal Life	5 Shorebirds; 1 Dog
S11	26 May 2015	Floatables	None
S11	26 May 2015	Water Color	Green
S11	26 May 2015	Current Direction	NW
S11	26 May 2015	Water Temp (C)	17
S11	26 May 2015	Wave Height Low (ft)	3
S11	26 May 2015	High Tide (ft)	3.4
S11	26 May 2015	High Tide Time	420
S11	26 May 2015	Low Tide (ft)	1
S11	26 May 2015	Low Tide Time	1059
S11	26 May 2015	Comments	Kelp; Seagrass; 1 Jogger; Water clear
S12	05 May 2015	Arrive Time	952
S12	05 May 2015	Weather	Overcast
S12	05 May 2015	Wind Speed (kts)	3.6
S12	05 May 2015	Wind Dir	W
S12	05 May 2015	Animal Life	None
S12	05 May 2015	Floatables	None
S12	05 May 2015	Water Color	Green
S12	05 May 2015	Current Direction	N
S12	05 May 2015	Water Temp (C)	16.6
S12	05 May 2015	Wave Height Low (ft)	3
S12	05 May 2015	High Tide (ft)	3.8
S12	05 May 2015	High Tide Time	1058
S12	05 May 2015	Low Tide (ft)	-0.5

Station	Date	Parameter	Value
S12	05 May 2015	Low Tide Time	450
S12	05 May 2015	Comments	Kelp; Seagrass; Water clear
S12	12 May 2015	Arrive Time	1012
S12	12 May 2015	Weather	Partly Cloudy
S12	12 May 2015	Wind Speed (kts)	7.2
S12	12 May 2015	Wind Dir	SW
S12	12 May 2015	Animal Life	None
S12	12 May 2015	Floatables	None
S12	12 May 2015	Water Color	Green
S12	12 May 2015	Current Direction	N
S12	12 May 2015	Water Temp (C)	17.6
S12	12 May 2015	Wave Height Low (ft)	3
S12	12 May 2015	High Tide (ft)	4.1
S12	12 May 2015	High Tide Time	432
S12	12 May 2015	Low Tide (ft)	0.2
S12	12 May 2015	Low Tide Time	1119
S12	12 May 2015	Comments	Water clear
S12	19 May 2015	Arrive Time	1006
S12	19 May 2015	Weather	Sunny
S12	19 May 2015	Wind Speed (kts)	4.2
S12	19 May 2015	Wind Dir	W
S12	19 May 2015	Animal Life	20 Jellyfish
S12	19 May 2015	Floatables	None
S12	19 May 2015	Water Color	Green
S12	19 May 2015	Current Direction	N
S12	19 May 2015	Water Temp (C)	19.3
S12	19 May 2015	Wave Height Low (ft)	3
S12	19 May 2015	High Tide (ft)	4
S12	19 May 2015	High Tide Time	1113
S12	19 May 2015	Low Tide (ft)	-1.2
S12	19 May 2015	Low Tide Time	456
S12	19 May 2015	Comments	Kelp; Seagrass; Water clear
S12	26 May 2015	Arrive Time	957
S12	26 May 2015	Weather	Cloudy
S12	26 May 2015	Wind Speed (kts)	3.6
S12	26 May 2015	Wind Dir	NW
S12	26 May 2015	Animal Life	7 Shorebirds
S12	26 May 2015	Floatables	None
S12	26 May 2015	Water Color	Green
S12	26 May 2015	Current Direction	NW
S12	26 May 2015	Water Temp (C)	16.2
S12	26 May 2015	Wave Height Low (ft)	3
S12	26 May 2015	High Tide (ft)	3.4
S12	26 May 2015	High Tide Time	420

Station	Date	Parameter	Value
S12	26 May 2015	Low Tide (ft)	1
S12	26 May 2015	Low Tide Time	1059
S12	26 May 2015	Comments	Kelp; Seagrass; Water clear

KELP BED STATIONS

Table 3.1

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for total coliforms 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 >1000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 May 2015	4	2	2	2	2	2	3
02 May 2015	5*	2*	2*	2*	2*	2*	3*
03 May 2015	5*	2*	2*	2*	2*	2*	3*
04 May 2015	5*	2*	2*	2*	2*	2*	3*
05 May 2015	5*	2*	2*	2*	2*	2*	3*
06 May 2015	7	3	4	3	2*	2	4
07 May 2015	7	3	4	3	2*	2	4
08 May 2015	7	3	4	3	2	2	4
09 May 2015	7	3	4	3	2	2	4
10 May 2015	6*	3*	4*	3*	2*	2*	5*
11 May 2015	6*	3*	4*	3*	2*	2*	5*
12 May 2015	6*	3*	4*	3*	2*	2*	5*
13 May 2015	6*	3*	4*	3*	2*	2*	5*
14 May 2015	6*	3*	4*	3*	2*	2*	5*
15 May 2015	30*	3*	4*	3*	4*	2*	12*
16 May 2015	30*	3*	4*	3*	4*	2*	12*
17 May 2015	30*	3*	4*	3*	4*	2*	12*
18 May 2015	30*	3*	4*	3*	4*	2*	12*
19 May 2015	30*	3*	4*	3*	4*	2*	12*
20 May 2015	30*	3*	4*	3*	4*	2*	12*
21 May 2015	24*	9*	6*	4*	4*	2*	20*
22 May 2015	24*	9*	6*	4*	4*	2*	20*
23 May 2015	24*	9*	6*	4*	4*	2*	20*
24 May 2015	24*	9*	6*	4*	4*	2*	20*
25 May 2015	24*	9*	6*	4*	4*	2*	20*
26 May 2015	24*	9*	6*	4*	4*	2*	20*
27 May 2015	26	7	7	4	6	2	23
28 May 2015	47*	9*	9*	5*	8*	2*	43*
29 May 2015	47*	9*	9*	5*	8*	2*	43*
30 May 2015	47*	9*	9*	5*	8*	2*	43*
31 May 2015	37	8	7	5	8	2	31

* Geometric mean calculated using an n<5

Table 3.2

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for fecal coliform 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 May 2015	2	2	2	2	2	2	2
02 May 2015	2*	2*	2*	2*	2*	2*	2*
03 May 2015	2*	2*	2*	2*	2*	2*	2*
04 May 2015	2*	2*	2*	2*	2*	2*	2*
05 May 2015	2*	2*	2*	2*	2*	2*	2*
06 May 2015	2	2	2	2	2*	2	2
07 May 2015	2	2	2	2	2*	2	2
08 May 2015	2	2	2	2	2	2	2
09 May 2015	2	2	2	2	2	2	2
10 May 2015	2*	2*	3*	2*	2*	2*	2*
11 May 2015	2*	2*	3*	2*	2*	2*	2*
12 May 2015	2*	2*	3*	2*	2*	2*	2*
13 May 2015	2*	2*	3*	2*	2*	2*	2*
14 May 2015	2*	2*	3*	2*	2*	2*	2*
15 May 2015	5*	2*	3*	2*	3*	2*	4*
16 May 2015	5*	2*	3*	2*	3*	2*	4*
17 May 2015	5*	2*	3*	2*	3*	2*	4*
18 May 2015	5*	2*	3*	2*	3*	2*	4*
19 May 2015	5*	2*	3*	2*	3*	2*	4*
20 May 2015	5*	2*	3*	2*	3*	2*	4*
21 May 2015	5*	3*	3*	2*	3*	2*	5*
22 May 2015	5*	3*	3*	2*	3*	2*	5*
23 May 2015	5*	3*	3*	2*	3*	2*	5*
24 May 2015	5*	3*	3*	2*	3*	2*	5*
25 May 2015	5*	3*	3*	2*	3*	2*	5*
26 May 2015	5*	3*	3*	2*	3*	2*	5*
27 May 2015	5	3	2	2	3	2	6
28 May 2015	6*	3*	3*	2*	3*	2*	8*
29 May 2015	6*	3*	3*	2*	3*	2*	8*
30 May 2015	6*	3*	3*	2*	3*	2*	8*
31 May 2015	5	3	2	2	3	2	6

* Geometric mean calculated using an n<5

Table 3.3

Summary of compliance with the 2012 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 May 2015	2	2	2	2	2	2	2
02 May 2015	2*	2*	2*	2*	2*	2*	2*
03 May 2015	2*	2*	2*	2*	2*	2*	2*
04 May 2015	2*	2*	2*	2*	2*	2*	2*
05 May 2015	2*	2*	2*	2*	2*	2*	2*
06 May 2015	2	2	2	2	2*	2	2
07 May 2015	2	2	2	2	2*	2	2
08 May 2015	2	2	2	2	2	2	2
09 May 2015	2	2	2	2	2	2	2
10 May 2015	3*	2*	2*	2*	2*	2*	2*
11 May 2015	3*	2*	2*	2*	2*	2*	2*
12 May 2015	3*	2*	2*	2*	2*	2*	2*
13 May 2015	3*	2*	2*	2*	2*	2*	2*
14 May 2015	3*	2*	2*	2*	2*	2*	2*
15 May 2015	9*	2*	2*	2*	2*	2*	5*
16 May 2015	9*	2*	2*	2*	2*	2*	5*
17 May 2015	9*	2*	2*	2*	2*	2*	5*
18 May 2015	9*	2*	2*	2*	2*	2*	5*
19 May 2015	9*	2*	2*	2*	2*	2*	5*
20 May 2015	9*	2*	2*	2*	2*	2*	5*
21 May 2015	9*	3*	2*	2*	2*	2*	6*
22 May 2015	9*	3*	2*	2*	2*	2*	6*
23 May 2015	9*	3*	2*	2*	2*	2*	6*
24 May 2015	9*	3*	2*	2*	2*	2*	6*
25 May 2015	9*	3*	2*	2*	2*	2*	6*
26 May 2015	9*	3*	2*	2*	2*	2*	6*
27 May 2015	8	3	2	2	3	2	8
28 May 2015	11*	3*	2*	2*	4*	2*	12*
29 May 2015	11*	3*	2*	2*	4*	2*	12*
30 May 2015	11*	3*	2*	2*	4*	2*	12*
31 May 2015	8	3	2	2	3	2	8

* Geometric mean calculated using an n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the 2012 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
06 May 2015	IC	IC	IC	IC	ns	IC	IC
08 May 2015	ns	ns	ns	ns	IC	ns	ns
15 May 2015	IC	IC	IC	IC	IC	IC	IC
21 May 2015	IC	IC	IC	IC	IC	IC	IC
27 May 2015	IC	IC	IC	IC	IC	IC	IC
31 May 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 2012 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
06 May 2015	IC	IC	IC	IC	ns	IC	IC
08 May 2015	ns	ns	ns	ns	IC	ns	ns
15 May 2015	IC	IC	IC	IC	IC	IC	IC
21 May 2015	IC	IC	IC	IC	IC	IC	IC
27 May 2015	IC	IC	IC	IC	IC	IC	IC
31 May 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 2012 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
06 May 2015	IC	IC	IC	IC	ns	IC	IC
08 May 2015	ns	ns	ns	ns	IC	ns	ns
15 May 2015	E	IC	IC	IC	IC	IC	IC
21 May 2015	IC	IC	IC	IC	IC	IC	IC
27 May 2015	IC	IC	IC	IC	IC	IC	IC
31 May 2015	IC	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 2012 Ocean Plan's Single Sample Maximum standard for total coliforms 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
06 May 2015	IC	IC	IC	IC	ns	IC	IC
08 May 2015	ns	ns	ns	ns	IC	ns	ns
15 May 2015	IC	IC	IC	IC	IC	IC	IC
21 May 2015	IC	IC	IC	IC	IC	IC	IC
27 May 2015	IC	IC	IC	IC	IC	IC	IC
31 May 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) 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. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I19	06 May 2015	955	2	2e	<2	2e	1.00	15.5	69.05	9.1	33.40	8.2	<0.2	<0.2
I19	06 May 2015	955	6	52	2e	2e	0.04	14.9	60.29	8.5	33.41	8.1	ns	4.1
I19	06 May 2015	955	11	40	<2	14e	0.05	14.8	61.13	8.4	33.40	8.1	ns	10.6
I19	15 May 2015	1153	2	3000e	260e	840	0.09	16.6	62.05	8.4	33.23	8.2	ns	ns
I19	15 May 2015	1153	6	480	48	100	0.10	16.6	69.72	8.4	33.33	8.2	ns	ns
I19	15 May 2015	1153	11	8e	<2	2e	0.25	16.5	77.91	8.6	33.37	8.2	ns	ns
I19	21 May 2015	1103	2	2e	<2	<2	1.00	17.9	65.20	8.2	33.27	8.3	ns	ns
I19	21 May 2015	1103	6	4e	<2	<2	0.50	17.6	70.52	8.2	33.31	8.2	ns	ns
I19	21 May 2015	1103	11	4e	<2	<2	0.50	15.8	69.55	6.7	33.27	8.2	ns	ns
I19	27 May 2015	1117	2	<20	<2	<2	0.10	15.7	58.43	8.3	33.37	8.2	ns	ns
I19	27 May 2015	1117	6	80e	6e	4e	0.07	13.1	56.14	6.4	33.25	8.1	ns	ns
I19	27 May 2015	1117	11	20e	2e	4e	0.10	11.8	16.76	5.2	33.34	7.9	ns	ns
I19	31 May 2015	1055	2	<2	<2	<2	1.00	15.3	65.44	9.6	33.34	8.3	ns	ns
I19	31 May 2015	1055	6	<20	4e	<2	0.20	12.2	56.55	6.3	33.34	8.0	ns	ns
I19	31 May 2015	1055	11	20e	<2	<2	0.10	11.8	66.40	5.1	33.35	7.9	ns	ns
I24	06 May 2015	911	2	4e	<2	2e	0.50	15.3	67.69	8.8	33.39	8.2	<0.2	3.3
I24	06 May 2015	911	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I24	06 May 2015	911	6	<20	8e	2e	0.40	14.2	59.73	8.1	33.39	8.1	ns	3.9
I24	06 May 2015	911	11	20e	<2	<2	0.10	13.2	60.27	7.1	33.38	8.0	ns	5.3
I24	15 May 2015	1217	2	<2	<2	<2	1.00	16.6	85.99	8.1	33.20	8.2	ns	ns
I24	15 May 2015	1217	6	<2	<2	<2	1.00	16.6	86.05	8.3	33.34	8.2	ns	ns
I24	15 May 2015	1217	11	<2	<2	<2	1.00	16.5	77.59	8.6	33.36	8.2	ns	ns
I24	21 May 2015	1130	2	<2	<2	<2	1.00	18.1	76.32	8.2	33.31	8.2	ns	ns
I24	21 May 2015	1130	6	110	4e	2e	0.04	16.5	72.04	7.3	33.28	8.2	ns	ns
I24	21 May 2015	1130	11	180e	16e	18e	0.09	13.1	63.36	5.8	33.36	8.0	ns	ns
I24	27 May 2015	1147	2	<2	<2	<2	1.00	16.0	69.77	8.3	33.38	8.2	ns	ns
I24	27 May 2015	1147	6	2e	<2	2e	1.00	13.4	57.90	5.6	33.29	8.0	ns	ns
I24	27 May 2015	1147	11	4e	2e	<2	0.50	11.7	63.14	5.5	33.33	7.9	ns	ns
I24	31 May 2015	1122	2	<2	<2	<2	1.00	15.3	66.34	9.6	33.34	8.3	ns	ns
I24	31 May 2015	1122	6	4e	<2	<2	0.50	13.0	63.36	7.8	33.33	8.1	ns	ns
I24	31 May 2015	1122	11	4e	<2	2e	0.50	11.9	72.44	5.8	33.35	8.0	ns	ns
I25	06 May 2015	900	2	<2	<2	<2	1.00	15.8	66.75	8.9	33.38	8.2	<0.2	2.9
I25	06 May 2015	900	6	80e	2e	4e	0.02	14.4	59.78	7.4	33.36	8.1	ns	4.1
I25	06 May 2015	900	9	20e	14e	2e	0.70	14.1	59.37	7.2	33.38	8.0	ns	7.6
I25	15 May 2015	1226	2	2e	<2	<2	1.00	16.6	84.82	8.1	33.19	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I25	15 May 2015	1226	6	<2	<2	<2	1.00	16.6	85.32	8.3	33.35	8.2	ns	ns
I25	15 May 2015	1226	9	<2	<2	<2	1.00	16.6	80.59	8.6	33.35	8.2	ns	ns
I25	21 May 2015	1139	2	2e	<2	<2	1.00	17.9	77.83	8.2	33.31	8.2	ns	ns
I25	21 May 2015	1139	6	2e	<2	<2	1.00	16.7	73.09	7.6	33.30	8.2	ns	ns
I25	21 May 2015	1139	9	20e	<2	2e	0.10	13.4	72.82	6.2	33.37	8.0	ns	ns
I25	27 May 2015	1155	2	<2	<2	<2	1.00	15.6	71.03	8.3	33.35	8.2	ns	ns
I25	27 May 2015	1155	6	<20	<2	<2	0.10	14.2	62.83	6.7	33.33	8.1	ns	ns
I25	27 May 2015	1155	9	<20	2e	<2	0.10	12.3	69.40	5.9	33.34	8.0	ns	ns
I25	31 May 2015	1132	2	<2	<2	<2	1.00	16.1	63.24	9.6	33.35	8.3	ns	ns
I25	31 May 2015	1132	6	2e	<2	<2	1.00	13.2	63.34	8.0	33.33	8.2	ns	ns
I25	31 May 2015	1132	9	2e	<2	4e	1.00	11.9	68.23	5.7	33.34	7.9	ns	ns
I26	06 May 2015	941	2	2e	<2	<2	1.00	15.6	61.40	8.2	33.38	8.1	<0.2	4.2
I26	06 May 2015	941	6	20e	<2	<2	0.10	14.1	62.85	7.9	33.37	8.1	ns	3.1
I26	06 May 2015	941	9	<2	2e	<2	1.00	12.5	63.09	6.7	33.36	8.0	ns	6.1
I26	15 May 2015	1237	2	<2	<2	<2	1.00	16.5	83.04	8.4	33.22	8.2	ns	ns
I26	15 May 2015	1237	6	2e	<2	<2	1.00	16.5	83.92	8.4	33.32	8.2	ns	ns
I26	15 May 2015	1237	9	<2	<2	<2	1.00	16.5	81.01	8.3	33.32	8.2	ns	ns
I26	21 May 2015	1151	2	<2	<2	<2	1.00	17.9	78.26	8.3	33.30	8.2	ns	ns
I26	21 May 2015	1151	6	<2	<2	<2	1.00	17.5	84.07	8.2	33.32	8.2	ns	ns
I26	21 May 2015	1151	9	30e	2e	6e	0.07	14.9	73.38	7.2	33.29	8.2	ns	ns
I26	27 May 2015	1209	2	<2	<2	<2	1.00	15.9	71.11	8.3	33.37	8.2	ns	ns
I26	27 May 2015	1209	6	2e	2e	<2	1.00	13.1	71.51	7.3	33.33	8.1	ns	ns
I26	27 May 2015	1209	9	4e	<2	<2	0.50	11.8	74.35	6.1	33.34	8.0	ns	ns
I26	31 May 2015	1146	2	<20	<2	<2	0.10	16.2	62.00	9.7	33.36	8.3	ns	ns
I26	31 May 2015	1146	6	<2	<2	<2	1.00	12.6	65.89	6.1	33.33	8.0	ns	ns
I26	31 May 2015	1146	9	<2	<2	<2	1.00	11.9	74.05	5.1	33.34	7.9	ns	ns
I32	08 May 2015	1010	2	<2	<2	<2	1.00	15.8	68.57	8.4	33.39	8.2	<0.2	3.1
I32	08 May 2015	1010	6	<2	<2	<2	1.00	15.7	66.20	8.3	33.40	8.2	ns	4.1
I32	08 May 2015	1010	9	<2	<2	<2	1.00	15.7	63.72	8.2	33.39	8.2	ns	5.1
I32	15 May 2015	1252	2	60e	24e	6e	0.40	16.7	64.14	8.2	33.27	8.2	ns	ns
I32	15 May 2015	1252	6	16e	<2	<2	0.12	16.6	71.80	8.2	33.35	8.2	ns	ns
I32	15 May 2015	1252	9	10e	2e	2e	0.20	16.3	69.92	8.1	33.36	8.2	ns	ns
I32	21 May 2015	1212	2	<2	<2	<2	1.00	18.3	72.42	8.3	33.27	8.3	ns	ns
I32	21 May 2015	1212	6	4e	<2	<2	0.50	18.0	67.97	8.3	33.25	8.3	ns	ns
I32	21 May 2015	1212	9	<2	2e	<2	1.00	17.9	63.20	8.2	33.24	8.3	ns	ns
I32	27 May 2015	1223	2	20e	2e	<2	0.10	15.5	61.00	8.4	33.36	8.2	ns	ns
I32	27 May 2015	1223	6	<20	2e	12e	0.10	13.3	49.91	6.7	33.29	8.1	ns	ns
I32	27 May 2015	1223	9	60e	8e	20e	0.13	11.7	45.23	6.2	33.33	8.0	ns	ns
I32	31 May 2015	1200	2	20e	2e	<2	0.10	16.7	66.65	8.8	33.36	8.3	ns	ns
I32	31 May 2015	1200	6	<2	<2	<2	1.00	13.7	60.44	8.4	33.32	8.2	ns	ns
I32	31 May 2015	1200	9	2e	<2	2e	1.00	11.8	65.42	6.0	33.33	8.0	ns	ns
I39	06 May 2015	920	2	<2	4e	<2	2.00	15.8	70.09	9.2	33.38	8.2	<0.2	<0.2

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I39	06 May 2015	920	12	4e	<2	<2	0.50	12.5	69.27	6.6	33.37	8.0	ns	3.8
I39	06 May 2015	920	18	6e	<2	<2	0.33	12.3	68.44	6.5	33.38	7.9	ns	5.6
I39	15 May 2015	1130	2	<2	<2	<2	1.00	16.6	86.02	8.2	33.26	8.2	ns	ns
I39	15 May 2015	1130	12	<2	<2	<2	1.00	16.4	82.50	8.3	33.35	8.2	ns	ns
I39	15 May 2015	1130	18	<2	<2	<2	1.00	12.6	76.58	6.3	33.36	8.0	ns	ns
I39	21 May 2015	1038	2	<2	<2	<2	1.00	17.5	86.56	8.1	33.34	8.2	ns	ns
I39	21 May 2015	1038	12	<2	<2	<2	1.00	13.7	87.77	7.2	33.31	8.1	ns	ns
I39	21 May 2015	1038	18	<2	<2	<2	1.00	11.9	87.41	6.3	33.34	8.0	ns	ns
I39	27 May 2015	1053	2	<2	<2	<2	1.00	15.5	70.13	8.3	33.37	8.2	ns	ns
I39	27 May 2015	1053	12	<2	<2	<2	1.00	11.6	81.15	5.8	33.34	8.0	ns	ns
I39	27 May 2015	1053	18	<2	<2	<2	1.00	11.1	78.76	5.7	33.37	7.9	ns	ns
I39	31 May 2015	1030	2	<2	<2	<2	1.00	16.2	66.01	9.6	33.37	8.3	ns	ns
I39	31 May 2015	1030	12	<2	<2	<2	1.00	12.2	72.36	6.5	33.33	8.0	ns	ns
I39	31 May 2015	1030	18	<2	<2	<2	1.00	11.1	82.82	5.6	33.38	7.9	ns	ns
I40	06 May 2015	922	2	<2	<2	<2	1.00	15.8	67.52	9.4	33.39	8.2	<0.2	3.0
I40	06 May 2015	922	6	14e	4e	8e	0.29	15.4	63.86	8.3	33.38	8.2	ns	3.5
I40	06 May 2015	922	9	20e	8e	<2	0.40	14.3	55.35	7.3	33.35	8.1	ns	9.4
I40	15 May 2015	1207	2	160e	16e	66	0.10	16.6	64.86	8.5	33.23	8.2	ns	ns
I40	15 May 2015	1207	6	28e	8e	16e	0.29	16.6	75.70	8.4	33.27	8.2	ns	ns
I40	15 May 2015	1207	9	2e	2e	<2	1.00	16.6	82.47	8.5	33.33	8.2	ns	ns
I40	21 May 2015	1118	2	32e	<2	2e	0.06	17.9	62.79	8.1	33.22	8.2	ns	ns
I40	21 May 2015	1118	6	86	10e	4e	0.12	17.2	62.43	8.1	33.30	8.2	ns	ns
I40	21 May 2015	1118	9	200e	18e	14e	0.09	15.3	66.96	6.6	33.30	8.1	ns	ns
I40	27 May 2015	1133	2	4e	2e	<2	0.50	15.4	62.70	7.7	33.35	8.2	ns	ns
I40	27 May 2015	1133	6	60e	4e	10e	0.07	13.5	49.91	6.6	33.34	8.0	ns	ns
I40	27 May 2015	1133	9	60e	24e	60e	0.40	12.1	36.88	5.4	33.32	7.9	ns	ns
I40	31 May 2015	1109	2	<2	<2	<2	1.00	16.1	65.72	9.7	33.36	8.3	ns	ns
I40	31 May 2015	1109	6	<20	<2	<2	0.10	13.0	62.40	7.5	33.35	8.1	ns	ns
I40	31 May 2015	1109	9	4e	2e	2e	0.50	12.1	65.12	5.7	33.34	8.0	ns	ns

ns = not sampled

Table 3.9

Summary of visual observations made during the month at the SBOO kelp stations for each sample date.

Station	Date	Parameter	Value
I19	06 May 2015	Depth (m)	11
I19	06 May 2015	Arrive Time	955
I19	06 May 2015	Depart Time	959
I19	06 May 2015	Air Temp (C)	15
I19	06 May 2015	Weather	Cloudy
I19	06 May 2015	Visibility (mi)	4
I19	06 May 2015	Wind Speed (kts)	7
I19	06 May 2015	Wind Dir	NE
I19	06 May 2015	Water Color	Brownish-Green
I19	06 May 2015	Wave Ht Low (ft)	2
I19	06 May 2015	Wave Period (sec)	11
I19	06 May 2015	Sea State	Light chop
I19	06 May 2015	High Tide (ft)	3.6
I19	06 May 2015	High Tide Time	1143
I19	06 May 2015	Low Tide (ft)	-0.49
I19	06 May 2015	Low Tide Time	529
I19	06 May 2015	Comments	
I19	15 May 2015	Depth (m)	11
I19	15 May 2015	Arrive Time	1153
I19	15 May 2015	Depart Time	1200
I19	15 May 2015	Air Temp (C)	14
I19	15 May 2015	Weather	Rain
I19	15 May 2015	Visibility (mi)	6
I19	15 May 2015	Wind Speed (kts)	4
I19	15 May 2015	Wind Dir	N
I19	15 May 2015	Water Color	Bluish-Green
I19	15 May 2015	Wave Ht Low (ft)	4
I19	15 May 2015	Wave Period (sec)	11
I19	15 May 2015	Sea State	Heavy chop
I19	15 May 2015	High Tide (ft)	4.36
I19	15 May 2015	High Tide Time	753
I19	15 May 2015	Low Tide (ft)	0.43
I19	15 May 2015	Low Tide Time	1343
I19	15 May 2015	Comments	
I19	21 May 2015	Depth (m)	10
I19	21 May 2015	Arrive Time	1103
I19	21 May 2015	Depart Time	1109
I19	21 May 2015	Air Temp (C)	16
I19	21 May 2015	Weather	Partly Cloudy
I19	21 May 2015	Visibility (mi)	5

Station	Date	Parameter	Value
I19	21 May 2015	Wind Speed (kts)	6
I19	21 May 2015	Wind Dir	NE
I19	21 May 2015	Water Color	Brownish-Green
I19	21 May 2015	Wave Ht Low (ft)	3
I19	21 May 2015	Wave Period (sec)	11
I19	21 May 2015	Sea State	Confused swell
I19	21 May 2015	High Tide (ft)	3.65
I19	21 May 2015	High Tide Time	1259
I19	21 May 2015	Low Tide (ft)	-0.58
I19	21 May 2015	Low Tide Time	627
I19	21 May 2015	Comments	
I19	27 May 2015	Depth (m)	11
I19	27 May 2015	Arrive Time	1117
I19	27 May 2015	Depart Time	1125
I19	27 May 2015	Air Temp (C)	16
I19	27 May 2015	Weather	Cloudy
I19	27 May 2015	Visibility (mi)	10
I19	27 May 2015	Wind Speed (kts)	8
I19	27 May 2015	Wind Dir	E
I19	27 May 2015	Water Color	Greenish-Brown
I19	27 May 2015	Wave Ht Low (ft)	2
I19	27 May 2015	Wave Period (sec)	11
I19	27 May 2015	Sea State	Light chop
I19	27 May 2015	High Tide (ft)	3.35
I19	27 May 2015	High Tide Time	535
I19	27 May 2015	Low Tide (ft)	1.11
I19	27 May 2015	Low Tide Time	1145
I19	27 May 2015	Comments	
I19	31 May 2015	Depth (m)	11
I19	31 May 2015	Arrive Time	1055
I19	31 May 2015	Depart Time	1101
I19	31 May 2015	Air Temp (C)	16
I19	31 May 2015	Weather	Overcast
I19	31 May 2015	Visibility (mi)	8
I19	31 May 2015	Wind Speed (kts)	4
I19	31 May 2015	Wind Dir	N
I19	31 May 2015	Water Color	Brownish-Green
I19	31 May 2015	Wave Ht Low (ft)	3
I19	31 May 2015	Wave Period (sec)	13
I19	31 May 2015	Sea State	Calm
I19	31 May 2015	High Tide (ft)	3.73
I19	31 May 2015	High Tide Time	850
I19	31 May 2015	Low Tide (ft)	1.41
I19	31 May 2015	Low Tide Time	1410
I19	31 May 2015	Comments	One small seal on station

Station	Date	Parameter	Value
I24	06 May 2015	Depth (m)	10
I24	06 May 2015	Arrive Time	911
I24	06 May 2015	Depart Time	916
I24	06 May 2015	Air Temp (C)	16
I24	06 May 2015	Weather	Cloudy
I24	06 May 2015	Visibility (mi)	4
I24	06 May 2015	Wind Speed (kts)	6
I24	06 May 2015	Wind Dir	E
I24	06 May 2015	Water Color	Brownish-Green
I24	06 May 2015	Wave Ht Low (ft)	2
I24	06 May 2015	Wave Period (sec)	11
I24	06 May 2015	Sea State	Light chop
I24	06 May 2015	High Tide (ft)	3.6
I24	06 May 2015	High Tide Time	1143
I24	06 May 2015	Low Tide (ft)	-0.49
I24	06 May 2015	Low Tide Time	529
I24	06 May 2015	Comments	Unable to obtain the station target depth of 11 m within 0.05 nm of station
I24	15 May 2015	Depth (m)	11
I24	15 May 2015	Arrive Time	1217
I24	15 May 2015	Depart Time	1223
I24	15 May 2015	Air Temp (C)	14
I24	15 May 2015	Weather	Rain
I24	15 May 2015	Visibility (mi)	6
I24	15 May 2015	Wind Speed (kts)	11
I24	15 May 2015	Wind Dir	E
I24	15 May 2015	Water Color	Bluish-Green
I24	15 May 2015	Wave Ht Low (ft)	4
I24	15 May 2015	Wave Period (sec)	11
I24	15 May 2015	Sea State	Heavy chop
I24	15 May 2015	High Tide (ft)	4.36
I24	15 May 2015	High Tide Time	753
I24	15 May 2015	Low Tide (ft)	0.43
I24	15 May 2015	Low Tide Time	1343
I24	15 May 2015	Comments	Freshwater lens
I24	21 May 2015	Depth (m)	9
I24	21 May 2015	Arrive Time	1130
I24	21 May 2015	Depart Time	1136
I24	21 May 2015	Air Temp (C)	16
I24	21 May 2015	Weather	Partly Cloudy
I24	21 May 2015	Visibility (mi)	5
I24	21 May 2015	Wind Speed (kts)	5
I24	21 May 2015	Wind Dir	NE
I24	21 May 2015	Water Color	Brownish-Green

Station	Date	Parameter	Value
I24	21 May 2015	Wave Ht Low (ft)	3
I24	21 May 2015	Wave Period (sec)	11
I24	21 May 2015	Sea State	Confused swell
I24	21 May 2015	High Tide (ft)	3.65
I24	21 May 2015	High Tide Time	1259
I24	21 May 2015	Low Tide (ft)	-0.58
I24	21 May 2015	Low Tide Time	627
I24	21 May 2015	Comments	
I24	27 May 2015	Depth (m)	10
I24	27 May 2015	Arrive Time	1147
I24	27 May 2015	Depart Time	1152
I24	27 May 2015	Air Temp (C)	16
I24	27 May 2015	Weather	Cloudy
I24	27 May 2015	Visibility (mi)	10
I24	27 May 2015	Wind Speed (kts)	7
I24	27 May 2015	Wind Dir	S
I24	27 May 2015	Water Color	Greenish-Brown
I24	27 May 2015	Wave Ht Low (ft)	2
I24	27 May 2015	Wave Period (sec)	11
I24	27 May 2015	Sea State	Light chop
I24	27 May 2015	High Tide (ft)	3.35
I24	27 May 2015	High Tide Time	535
I24	27 May 2015	Low Tide (ft)	1.11
I24	27 May 2015	Low Tide Time	1145
I24	27 May 2015	Comments	
I24	31 May 2015	Depth (m)	10
I24	31 May 2015	Arrive Time	1122
I24	31 May 2015	Depart Time	1128
I24	31 May 2015	Air Temp (C)	16
I24	31 May 2015	Weather	Overcast
I24	31 May 2015	Visibility (mi)	8
I24	31 May 2015	Wind Speed (kts)	6
I24	31 May 2015	Wind Dir	NE
I24	31 May 2015	Water Color	Brownish-Green
I24	31 May 2015	Wave Ht Low (ft)	3
I24	31 May 2015	Wave Period (sec)	13
I24	31 May 2015	Sea State	Calm
I24	31 May 2015	High Tide (ft)	3.73
I24	31 May 2015	High Tide Time	850
I24	31 May 2015	Low Tide (ft)	1.41
I24	31 May 2015	Low Tide Time	1410
I24	31 May 2015	Comments	Two sea lions on station
I25	06 May 2015	Depth (m)	10
I25	06 May 2015	Arrive Time	900

Station	Date	Parameter	Value
I25	06 May 2015	Depart Time	905
I25	06 May 2015	Air Temp (C)	16
I25	06 May 2015	Weather	Cloudy
I25	06 May 2015	Visibility (mi)	4
I25	06 May 2015	Wind Speed (kts)	7
I25	06 May 2015	Wind Dir	E
I25	06 May 2015	Water Color	Brownish-Green
I25	06 May 2015	Wave Ht Low (ft)	2
I25	06 May 2015	Wave Period (sec)	11
I25	06 May 2015	Sea State	Light chop
I25	06 May 2015	High Tide (ft)	3.6
I25	06 May 2015	High Tide Time	1143
I25	06 May 2015	Low Tide (ft)	-0.49
I25	06 May 2015	Low Tide Time	529
I25	06 May 2015	Comments	
I25	15 May 2015	Depth (m)	10
I25	15 May 2015	Arrive Time	1226
I25	15 May 2015	Depart Time	1232
I25	15 May 2015	Air Temp (C)	14
I25	15 May 2015	Weather	Rain
I25	15 May 2015	Visibility (mi)	6
I25	15 May 2015	Wind Speed (kts)	11
I25	15 May 2015	Wind Dir	NW
I25	15 May 2015	Water Color	Bluish-Green
I25	15 May 2015	Wave Ht Low (ft)	4
I25	15 May 2015	Wave Period (sec)	11
I25	15 May 2015	Sea State	Heavy chop
I25	15 May 2015	High Tide (ft)	4.36
I25	15 May 2015	High Tide Time	753
I25	15 May 2015	Low Tide (ft)	0.43
I25	15 May 2015	Low Tide Time	1343
I25	15 May 2015	Comments	
I25	21 May 2015	Depth (m)	9
I25	21 May 2015	Arrive Time	1139
I25	21 May 2015	Depart Time	1146
I25	21 May 2015	Air Temp (C)	16
I25	21 May 2015	Weather	Partly Cloudy
I25	21 May 2015	Visibility (mi)	5
I25	21 May 2015	Wind Speed (kts)	8
I25	21 May 2015	Wind Dir	E
I25	21 May 2015	Water Color	Brownish-Green
I25	21 May 2015	Wave Ht Low (ft)	3
I25	21 May 2015	Wave Period (sec)	11
I25	21 May 2015	Sea State	Confused swell
I25	21 May 2015	High Tide (ft)	3.65

Station	Date	Parameter	Value
I25	21 May 2015	High Tide Time	1259
I25	21 May 2015	Low Tide (ft)	-0.58
I25	21 May 2015	Low Tide Time	627
I25	21 May 2015	Comments	
I25	27 May 2015	Depth (m)	10
I25	27 May 2015	Arrive Time	1155
I25	27 May 2015	Depart Time	1158
I25	27 May 2015	Air Temp (C)	16
I25	27 May 2015	Weather	Cloudy
I25	27 May 2015	Visibility (mi)	10
I25	27 May 2015	Wind Speed (kts)	4
I25	27 May 2015	Wind Dir	W
I25	27 May 2015	Water Color	Greenish-Brown
I25	27 May 2015	Wave Ht Low (ft)	2
I25	27 May 2015	Wave Period (sec)	11
I25	27 May 2015	Sea State	Light chop
I25	27 May 2015	High Tide (ft)	3.35
I25	27 May 2015	High Tide Time	535
I25	27 May 2015	Low Tide (ft)	1.11
I25	27 May 2015	Low Tide Time	1145
I25	27 May 2015	Comments	
I25	31 May 2015	Depth (m)	14
I25	31 May 2015	Arrive Time	1132
I25	31 May 2015	Depart Time	1140
I25	31 May 2015	Air Temp (C)	16
I25	31 May 2015	Weather	Overcast
I25	31 May 2015	Visibility (mi)	8
I25	31 May 2015	Wind Speed (kts)	6
I25	31 May 2015	Wind Dir	SE
I25	31 May 2015	Water Color	Brownish-Green
I25	31 May 2015	Wave Ht Low (ft)	3
I25	31 May 2015	Wave Period (sec)	13
I25	31 May 2015	Sea State	Calm
I25	31 May 2015	High Tide (ft)	3.73
I25	31 May 2015	High Tide Time	850
I25	31 May 2015	Low Tide (ft)	1.41
I25	31 May 2015	Low Tide Time	1410
I25	31 May 2015	Comments	
I26	06 May 2015	Depth (m)	9
I26	06 May 2015	Arrive Time	841
I26	06 May 2015	Depart Time	848
I26	06 May 2015	Air Temp (C)	16
I26	06 May 2015	Weather	Cloudy
I26	06 May 2015	Visibility (mi)	4

Station	Date	Parameter	Value
I26	06 May 2015	Wind Speed (kts)	6
I26	06 May 2015	Wind Dir	SW
I26	06 May 2015	Water Color	Brownish-Green
I26	06 May 2015	Wave Ht Low (ft)	2
I26	06 May 2015	Wave Period (sec)	11
I26	06 May 2015	Sea State	Light chop
I26	06 May 2015	High Tide (ft)	3.6
I26	06 May 2015	High Tide Time	1143
I26	06 May 2015	Low Tide (ft)	-0.49
I26	06 May 2015	Low Tide Time	529
I26	06 May 2015	Comments	Kelp debris
I26	15 May 2015	Depth (m)	15
I26	15 May 2015	Arrive Time	1237
I26	15 May 2015	Depart Time	1244
I26	15 May 2015	Air Temp (C)	14
I26	15 May 2015	Weather	Rain
I26	15 May 2015	Visibility (mi)	4
I26	15 May 2015	Wind Speed (kts)	11
I26	15 May 2015	Wind Dir	W
I26	15 May 2015	Water Color	Bluish-Green
I26	15 May 2015	Wave Ht Low (ft)	4
I26	15 May 2015	Wave Period (sec)	11
I26	15 May 2015	Sea State	Heavy chop
I26	15 May 2015	High Tide (ft)	4.36
I26	15 May 2015	High Tide Time	753
I26	15 May 2015	Low Tide (ft)	0.43
I26	15 May 2015	Low Tide Time	1343
I26	15 May 2015	Comments	
I26	21 May 2015	Depth (m)	10
I26	21 May 2015	Arrive Time	1151
I26	21 May 2015	Depart Time	1204
I26	21 May 2015	Air Temp (C)	16
I26	21 May 2015	Weather	Partly Cloudy
I26	21 May 2015	Visibility (mi)	5
I26	21 May 2015	Wind Speed (kts)	6
I26	21 May 2015	Wind Dir	W
I26	21 May 2015	Water Color	Green
I26	21 May 2015	Wave Ht Low (ft)	3
I26	21 May 2015	Wave Period (sec)	11
I26	21 May 2015	Sea State	Confused swell
I26	21 May 2015	High Tide (ft)	3.65
I26	21 May 2015	High Tide Time	1259
I26	21 May 2015	Low Tide (ft)	-0.58
I26	21 May 2015	Low Tide Time	627
I26	21 May 2015	Comments	

Station	Date	Parameter	Value
I26	27 May 2015	Depth (m)	10
I26	27 May 2015	Arrive Time	1209
I26	27 May 2015	Depart Time	1215
I26	27 May 2015	Air Temp (C)	16
I26	27 May 2015	Weather	Cloudy
I26	27 May 2015	Visibility (mi)	10
I26	27 May 2015	Wind Speed (kts)	8
I26	27 May 2015	Wind Dir	E
I26	27 May 2015	Water Color	Greenish-Brown
I26	27 May 2015	Wave Ht Low (ft)	2
I26	27 May 2015	Wave Period (sec)	11
I26	27 May 2015	Sea State	Light chop
I26	27 May 2015	High Tide (ft)	3.35
I26	27 May 2015	High Tide Time	535
I26	27 May 2015	Low Tide (ft)	1.11
I26	27 May 2015	Low Tide Time	1145
I26	27 May 2015	Comments	
I26	31 May 2015	Depth (m)	9
I26	31 May 2015	Arrive Time	1146
I26	31 May 2015	Depart Time	1151
I26	31 May 2015	Air Temp (C)	16
I26	31 May 2015	Weather	Overcast
I26	31 May 2015	Visibility (mi)	8
I26	31 May 2015	Wind Speed (kts)	7
I26	31 May 2015	Wind Dir	NW
I26	31 May 2015	Water Color	Brownish-Green
I26	31 May 2015	Wave Ht Low (ft)	3
I26	31 May 2015	Wave Period (sec)	13
I26	31 May 2015	Sea State	Calm
I26	31 May 2015	High Tide (ft)	3.73
I26	31 May 2015	High Tide Time	850
I26	31 May 2015	Low Tide (ft)	1.41
I26	31 May 2015	Low Tide Time	1410
I26	31 May 2015	Comments	
I32	08 May 2015	Depth (m)	10
I32	08 May 2015	Arrive Time	1010
I32	08 May 2015	Depart Time	1013
I32	08 May 2015	Air Temp (C)	14
I32	08 May 2015	Weather	Rain
I32	08 May 2015	Visibility (mi)	7
I32	08 May 2015	Wind Speed (kts)	7
I32	08 May 2015	Wind Dir	E
I32	08 May 2015	Water Color	Green
I32	08 May 2015	Wave Ht Low (ft)	4

Station	Date	Parameter	Value
I32	08 May 2015	Wave Period (sec)	9
I32	08 May 2015	Sea State	Calm
I32	08 May 2015	High Tide (ft)	3.3
I32	08 May 2015	High Tide Time	1339
I32	08 May 2015	Low Tide (ft)	-0.22
I32	08 May 2015	Low Tide Time	706
I32	08 May 2015	Comments	
I32	15 May 2015	Depth (m)	10
I32	15 May 2015	Arrive Time	1252
I32	15 May 2015	Depart Time	1259
I32	15 May 2015	Air Temp (C)	14
I32	15 May 2015	Weather	Rain
I32	15 May 2015	Visibility (mi)	4
I32	15 May 2015	Wind Speed (kts)	4
I32	15 May 2015	Wind Dir	N
I32	15 May 2015	Water Color	Bluish-Green
I32	15 May 2015	Wave Ht Low (ft)	4
I32	15 May 2015	Wave Period (sec)	11
I32	15 May 2015	Sea State	Heavy chop
I32	15 May 2015	High Tide (ft)	4.36
I32	15 May 2015	High Tide Time	753
I32	15 May 2015	Low Tide (ft)	0.43
I32	15 May 2015	Low Tide Time	1343
I32	15 May 2015	Comments	
I32	21 May 2015	Depth (m)	10
I32	21 May 2015	Arrive Time	1212
I32	21 May 2015	Depart Time	1219
I32	21 May 2015	Air Temp (C)	16
I32	21 May 2015	Weather	Partly Cloudy
I32	21 May 2015	Visibility (mi)	5
I32	21 May 2015	Wind Speed (kts)	8
I32	21 May 2015	Wind Dir	NE
I32	21 May 2015	Water Color	Green
I32	21 May 2015	Wave Ht Low (ft)	3
I32	21 May 2015	Wave Period (sec)	11
I32	21 May 2015	Sea State	Confused swell
I32	21 May 2015	High Tide (ft)	3.65
I32	21 May 2015	High Tide Time	1259
I32	21 May 2015	Low Tide (ft)	-0.58
I32	21 May 2015	Low Tide Time	627
I32	21 May 2015	Comments	
I32	27 May 2015	Depth (m)	10
I32	27 May 2015	Arrive Time	1223
I32	27 May 2015	Depart Time	1226

Station	Date	Parameter	Value
I32	27 May 2015	Air Temp (C)	16
I32	27 May 2015	Weather	Cloudy
I32	27 May 2015	Visibility (mi)	10
I32	27 May 2015	Wind Speed (kts)	7
I32	27 May 2015	Wind Dir	NW
I32	27 May 2015	Water Color	Greenish-Brown
I32	27 May 2015	Wave Ht Low (ft)	2
I32	27 May 2015	Wave Period (sec)	11
I32	27 May 2015	Sea State	Light chop
I32	27 May 2015	High Tide (ft)	3.35
I32	27 May 2015	High Tide Time	535
I32	27 May 2015	Low Tide (ft)	1.11
I32	27 May 2015	Low Tide Time	1145
I32	27 May 2015	Comments	
I32	31 May 2015	Depth (m)	11
I32	31 May 2015	Arrive Time	1200
I32	31 May 2015	Depart Time	1206
I32	31 May 2015	Air Temp (C)	17
I32	31 May 2015	Weather	Overcast
I32	31 May 2015	Visibility (mi)	8
I32	31 May 2015	Wind Speed (kts)	6
I32	31 May 2015	Wind Dir	E
I32	31 May 2015	Water Color	Brownish-Green
I32	31 May 2015	Wave Ht Low (ft)	3
I32	31 May 2015	Wave Period (sec)	13
I32	31 May 2015	Sea State	Calm
I32	31 May 2015	High Tide (ft)	3.73
I32	31 May 2015	High Tide Time	850
I32	31 May 2015	Low Tide (ft)	1.41
I32	31 May 2015	Low Tide Time	1410
I32	31 May 2015	Comments	
I39	06 May 2015	Depth (m)	18
I39	06 May 2015	Arrive Time	820
I39	06 May 2015	Depart Time	830
I39	06 May 2015	Air Temp (C)	16
I39	06 May 2015	Weather	Cloudy
I39	06 May 2015	Visibility (mi)	4
I39	06 May 2015	Wind Speed (kts)	7
I39	06 May 2015	Wind Dir	N
I39	06 May 2015	Water Color	Green
I39	06 May 2015	Wave Ht Low (ft)	2
I39	06 May 2015	Wave Period (sec)	11
I39	06 May 2015	Sea State	Light chop
I39	06 May 2015	High Tide (ft)	3.6
I39	06 May 2015	High Tide Time	1143

Station	Date	Parameter	Value
I39	06 May 2015	Low Tide (ft)	-0.49
I39	06 May 2015	Low Tide Time	529
I39	06 May 2015	Comments	Kelp
I39	15 May 2015	Depth (m)	19
I39	15 May 2015	Arrive Time	1130
I39	15 May 2015	Depart Time	1137
I39	15 May 2015	Air Temp (C)	14
I39	15 May 2015	Weather	Rain
I39	15 May 2015	Visibility (mi)	6
I39	15 May 2015	Wind Speed (kts)	10
I39	15 May 2015	Wind Dir	SE
I39	15 May 2015	Water Color	Bluish-Green
I39	15 May 2015	Wave Ht Low (ft)	4
I39	15 May 2015	Wave Period (sec)	11
I39	15 May 2015	Sea State	Heavy chop
I39	15 May 2015	High Tide (ft)	4.36
I39	15 May 2015	High Tide Time	753
I39	15 May 2015	Low Tide (ft)	0.43
I39	15 May 2015	Low Tide Time	1343
I39	15 May 2015	Comments	
I39	21 May 2015	Depth (m)	18
I39	21 May 2015	Arrive Time	1038
I39	21 May 2015	Depart Time	1048
I39	21 May 2015	Air Temp (C)	16
I39	21 May 2015	Weather	Cloudy
I39	21 May 2015	Visibility (mi)	5
I39	21 May 2015	Wind Speed (kts)	4
I39	21 May 2015	Wind Dir	SE
I39	21 May 2015	Water Color	Green
I39	21 May 2015	Wave Ht Low (ft)	3
I39	21 May 2015	Wave Period (sec)	11
I39	21 May 2015	Sea State	Confused swell
I39	21 May 2015	High Tide (ft)	3.65
I39	21 May 2015	High Tide Time	1259
I39	21 May 2015	Low Tide (ft)	-0.58
I39	21 May 2015	Low Tide Time	627
I39	21 May 2015	Comments	Kelp
I39	27 May 2015	Depth (m)	18
I39	27 May 2015	Arrive Time	1053
I39	27 May 2015	Depart Time	1117
I39	27 May 2015	Air Temp (C)	16
I39	27 May 2015	Weather	Cloudy
I39	27 May 2015	Visibility (mi)	10
I39	27 May 2015	Wind Speed (kts)	6

Station	Date	Parameter	Value
I39	27 May 2015	Wind Dir	NE
I39	27 May 2015	Water Color	Green
I39	27 May 2015	Wave Ht Low (ft)	2
I39	27 May 2015	Wave Period (sec)	11
I39	27 May 2015	Sea State	Light chop
I39	27 May 2015	High Tide (ft)	3.35
I39	27 May 2015	High Tide Time	535
I39	27 May 2015	Low Tide (ft)	1.11
I39	27 May 2015	Low Tide Time	1145
I39	27 May 2015	Comments	Kelp; Tuna crabs on station
I39	31 May 2015	Depth (m)	20
I39	31 May 2015	Arrive Time	1030
I39	31 May 2015	Depart Time	1037
I39	31 May 2015	Air Temp (C)	16
I39	31 May 2015	Weather	Overcast
I39	31 May 2015	Visibility (mi)	8
I39	31 May 2015	Wind Speed (kts)	2
I39	31 May 2015	Wind Dir	W
I39	31 May 2015	Water Color	Brownish-Green
I39	31 May 2015	Wave Ht Low (ft)	3
I39	31 May 2015	Wave Period (sec)	13
I39	31 May 2015	Sea State	Calm
I39	31 May 2015	High Tide (ft)	3.73
I39	31 May 2015	High Tide Time	850
I39	31 May 2015	Low Tide (ft)	1.41
I39	31 May 2015	Low Tide Time	1410
I39	31 May 2015	Comments	
I40	06 May 2015	Depth (m)	11
I40	06 May 2015	Arrive Time	922
I40	06 May 2015	Depart Time	926
I40	06 May 2015	Air Temp (C)	15
I40	06 May 2015	Weather	Cloudy
I40	06 May 2015	Visibility (mi)	4
I40	06 May 2015	Wind Speed (kts)	6
I40	06 May 2015	Wind Dir	NE
I40	06 May 2015	Water Color	Brownish-Green
I40	06 May 2015	Wave Ht Low (ft)	2
I40	06 May 2015	Wave Period (sec)	11
I40	06 May 2015	Sea State	Light chop
I40	06 May 2015	High Tide (ft)	3.6
I40	06 May 2015	High Tide Time	1143
I40	06 May 2015	Low Tide (ft)	-0.49
I40	06 May 2015	Low Tide Time	529
I40	06 May 2015	Comments	

Station	Date	Parameter	Value
I40	15 May 2015	Depth (m)	10
I40	15 May 2015	Arrive Time	1207
I40	15 May 2015	Depart Time	1213
I40	15 May 2015	Air Temp (C)	14
I40	15 May 2015	Weather	Rain
I40	15 May 2015	Visibility (mi)	6
I40	15 May 2015	Wind Speed (kts)	8
I40	15 May 2015	Wind Dir	N
I40	15 May 2015	Water Color	Green
I40	15 May 2015	Wave Ht Low (ft)	4
I40	15 May 2015	Wave Period (sec)	11
I40	15 May 2015	Sea State	Heavy chop
I40	15 May 2015	High Tide (ft)	4.36
I40	15 May 2015	High Tide Time	753
I40	15 May 2015	Low Tide (ft)	0.43
I40	15 May 2015	Low Tide Time	1343
I40	15 May 2015	Comments	
I40	21 May 2015	Depth (m)	11
I40	21 May 2015	Arrive Time	1118
I40	21 May 2015	Depart Time	1124
I40	21 May 2015	Air Temp (C)	16
I40	21 May 2015	Weather	Partly Cloudy
I40	21 May 2015	Visibility (mi)	5
I40	21 May 2015	Wind Speed (kts)	8
I40	21 May 2015	Wind Dir	NE
I40	21 May 2015	Water Color	Brownish-Green
I40	21 May 2015	Wave Ht Low (ft)	3
I40	21 May 2015	Wave Period (sec)	11
I40	21 May 2015	Sea State	Confused swell
I40	21 May 2015	High Tide (ft)	3.65
I40	21 May 2015	High Tide Time	1259
I40	21 May 2015	Low Tide (ft)	-0.58
I40	21 May 2015	Low Tide Time	627
I40	21 May 2015	Comments	
I40	27 May 2015	Depth (m)	10
I40	27 May 2015	Arrive Time	1133
I40	27 May 2015	Depart Time	1140
I40	27 May 2015	Air Temp (C)	16
I40	27 May 2015	Weather	Cloudy
I40	27 May 2015	Visibility (mi)	10
I40	27 May 2015	Wind Speed (kts)	8
I40	27 May 2015	Wind Dir	W
I40	27 May 2015	Water Color	Greenish-Brown
I40	27 May 2015	Wave Ht Low (ft)	2
I40	27 May 2015	Wave Period (sec)	11

Station	Date	Parameter	Value
I40	27 May 2015	Sea State	Light chop
I40	27 May 2015	High Tide (ft)	3.35
I40	27 May 2015	High Tide Time	535
I40	27 May 2015	Low Tide (ft)	1.11
I40	27 May 2015	Low Tide Time	1145
I40	27 May 2015	Comments	
I40	31 May 2015	Depth (m)	10
I40	31 May 2015	Arrive Time	1109
I40	31 May 2015	Depart Time	1117
I40	31 May 2015	Air Temp (C)	16
I40	31 May 2015	Weather	Overcast
I40	31 May 2015	Visibility (mi)	8
I40	31 May 2015	Wind Speed (kts)	6
I40	31 May 2015	Wind Dir	W
I40	31 May 2015	Water Color	Brownish-Green
I40	31 May 2015	Wave Ht Low (ft)	3
I40	31 May 2015	Wave Period (sec)	13
I40	31 May 2015	Sea State	Calm
I40	31 May 2015	High Tide (ft)	3.73
I40	31 May 2015	High Tide Time	850
I40	31 May 2015	Low Tide (ft)	1.41
I40	31 May 2015	Low Tide Time	1410
I40	31 May 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)
I19	06 May 2015	1	15.54	68.98	9.2	33.41	8.2	24.6	2.64
I19	06 May 2015	2	15.52	69.05	9.1	33.40	8.2	24.6	3.31
I19	06 May 2015	3	15.25	67.28	8.8	33.40	8.2	24.7	5.82
I19	06 May 2015	4	15.10	63.86	8.6	33.40	8.2	24.7	7.59
I19	06 May 2015	5	15.00	60.77	8.5	33.41	8.1	24.7	7.54
I19	06 May 2015	6	14.92	60.29	8.5	33.41	8.1	24.8	6.82
I19	06 May 2015	7	14.90	60.85	8.5	33.41	8.1	24.8	6.41
I19	06 May 2015	8	14.84	61.07	8.5	33.41	8.1	24.8	6.12
I19	06 May 2015	9	14.82	60.92	8.5	33.41	8.1	24.8	5.82
I19	06 May 2015	10	14.81	61.13	8.4	33.40	8.1	24.8	6.05
I19	15 May 2015	1	16.66	62.23	8.4	33.17	8.2	24.2	5.61
I19	15 May 2015	2	16.64	62.05	8.4	33.23	8.2	24.2	6.37
I19	15 May 2015	3	16.60	61.40	8.4	33.27	8.2	24.3	6.21
I19	15 May 2015	4	16.57	62.78	8.4	33.30	8.2	24.3	5.43
I19	15 May 2015	5	16.56	66.83	8.4	33.31	8.2	24.3	4.77
I19	15 May 2015	6	16.55	69.72	8.4	33.33	8.2	24.3	4.20
I19	15 May 2015	7	16.54	71.29	8.5	33.35	8.2	24.4	3.83
I19	15 May 2015	8	16.53	73.80	8.6	33.37	8.2	24.4	3.51
I19	15 May 2015	9	16.52	76.31	8.6	33.37	8.2	24.4	3.28
I19	15 May 2015	10	16.46	77.91	8.6	33.37	8.2	24.4	3.66
I19	21 May 2015	1	18.02	65.00	8.2	33.28	8.3	23.9	2.17
I19	21 May 2015	2	17.95	65.20	8.2	33.27	8.3	24.0	2.36
I19	21 May 2015	3	17.79	65.25	8.2	33.29	8.3	24.0	2.60
I19	21 May 2015	4	17.70	67.50	8.2	33.31	8.3	24.0	2.70
I19	21 May 2015	5	17.63	69.74	8.3	33.31	8.3	24.1	3.10
I19	21 May 2015	6	17.57	70.52	8.2	33.31	8.2	24.1	3.65
I19	21 May 2015	7	17.54	70.33	8.2	33.31	8.2	24.1	3.94
I19	21 May 2015	8	17.51	70.11	8.0	33.32	8.2	24.1	4.13
I19	21 May 2015	9	17.40	70.21	7.6	33.31	8.2	24.1	4.38
I19	21 May 2015	10	15.84	69.55	6.7	33.27	8.2	24.2	5.27
I19	27 May 2015	1	15.69	58.62	8.4	33.37	8.2	24.6	7.04
I19	27 May 2015	2	15.66	58.43	8.3	33.37	8.2	24.6	9.01
I19	27 May 2015	3	15.33	57.93	8.2	33.35	8.2	24.6	11.29
I19	27 May 2015	4	15.09	56.38	8.0	33.36	8.2	24.7	11.65
I19	27 May 2015	5	14.37	55.83	7.5	33.35	8.1	24.8	10.33
I19	27 May 2015	6	13.14	56.14	6.4	33.25	8.1	25.0	7.27
I19	27 May 2015	7	11.89	56.34	5.6	33.34	7.9	25.3	5.29
I19	27 May 2015	8	11.75	36.74	5.4	33.33	7.9	25.3	5.05
I19	27 May 2015	9	11.74	20.90	5.3	33.34	7.9	25.3	5.19
I19	27 May 2015	10	11.76	16.76	5.2	33.34	7.9	25.3	6.01
I19	31 May 2015	1	15.62	65.94	9.7	33.36	8.3	24.6	4.41
I19	31 May 2015	2	15.33	65.44	9.6	33.34	8.3	24.6	6.79
I19	31 May 2015	3	14.67	63.39	9.3	33.35	8.2	24.8	10.24
I19	31 May 2015	4	13.80	60.75	7.9	33.30	8.2	24.9	11.75
I19	31 May 2015	5	12.61	59.45	6.8	33.33	8.1	25.2	9.41
I19	31 May 2015	6	12.16	56.55	6.3	33.34	8.0	25.3	6.99
I19	31 May 2015	7	12.01	62.65	6.1	33.34	8.0	25.3	5.76

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I19	31 May 2015	8	11.91	68.34	5.8	33.35	8.0	25.3	4.75
I19	31 May 2015	9	11.89	69.42	5.5	33.35	7.9	25.3	4.17
I19	31 May 2015	10	11.82	66.40	5.1	33.35	7.9	25.3	4.15
I24	06 May 2015	1	15.59	68.22	9.0	33.38	8.2	24.6	2.95
I24	06 May 2015	2	15.33	67.69	8.8	33.39	8.2	24.7	3.74
I24	06 May 2015	3	14.99	66.04	8.2	33.39	8.2	24.7	5.21
I24	06 May 2015	4	14.63	64.18	7.9	33.38	8.1	24.8	6.57
I24	06 May 2015	5	14.25	59.92	8.0	33.38	8.1	24.9	7.38
I24	06 May 2015	6	14.16	59.73	8.1	33.39	8.1	24.9	7.17
I24	06 May 2015	7	13.93	62.19	7.8	33.37	8.1	24.9	6.33
I24	06 May 2015	8	13.35	63.27	7.3	33.36	8.0	25.1	5.16
I24	06 May 2015	9	13.21	60.27	7.1	33.38	8.0	25.1	4.95
I24	15 May 2015	1	16.58	85.74	8.1	33.17	8.2	24.2	0.95
I24	15 May 2015	2	16.58	85.99	8.1	33.20	8.2	24.2	1.00
I24	15 May 2015	3	16.61	86.26	8.2	33.24	8.2	24.3	1.10
I24	15 May 2015	4	16.62	86.67	8.2	33.26	8.2	24.3	1.21
I24	15 May 2015	5	16.64	86.28	8.2	33.32	8.2	24.3	1.41
I24	15 May 2015	6	16.62	86.05	8.3	33.34	8.2	24.3	1.63
I24	15 May 2015	7	16.60	85.57	8.4	33.34	8.2	24.3	1.74
I24	15 May 2015	8	16.58	84.91	8.5	33.34	8.2	24.3	2.05
I24	15 May 2015	9	16.53	82.21	8.6	33.35	8.2	24.4	2.21
I24	15 May 2015	10	16.52	77.59	8.6	33.36	8.2	24.4	2.14
I24	21 May 2015	1	18.03	76.15	8.2	33.31	8.2	24.0	1.18
I24	21 May 2015	2	18.05	76.32	8.2	33.31	8.2	24.0	1.23
I24	21 May 2015	3	17.98	76.92	8.2	33.30	8.2	24.0	1.49
I24	21 May 2015	4	17.60	76.04	8.1	33.28	8.2	24.1	2.33
I24	21 May 2015	5	16.97	72.23	8.0	33.31	8.2	24.2	3.05
I24	21 May 2015	6	16.51	72.04	7.3	33.28	8.2	24.3	3.46
I24	21 May 2015	7	14.55	69.64	6.7	33.32	8.1	24.8	3.37
I24	21 May 2015	8	13.84	69.14	6.4	33.31	8.1	24.9	3.74
I24	21 May 2015	9	13.13	64.57	6.0	33.35	8.0	25.1	2.88
I24	21 May 2015	10	13.10	63.36	5.8	33.36	8.0	25.1	2.54
I24	27 May 2015	1	16.01	69.43	8.4	33.38	8.2	24.5	3.54
I24	27 May 2015	2	16.01	69.77	8.3	33.38	8.2	24.5	4.06
I24	27 May 2015	3	15.91	69.80	8.0	33.37	8.2	24.5	5.82
I24	27 May 2015	4	15.22	69.67	7.4	33.28	8.2	24.6	7.92
I24	27 May 2015	5	14.13	64.45	6.6	33.35	8.1	24.9	6.74
I24	27 May 2015	6	13.44	57.90	5.6	33.29	8.0	25.0	4.21
I24	27 May 2015	7	12.58	60.13	5.4	33.32	7.9	25.2	2.78
I24	27 May 2015	8	11.97	61.56	5.5	33.31	7.9	25.3	2.08
I24	27 May 2015	9	11.67	65.80	5.5	33.33	7.9	25.4	1.85
I24	27 May 2015	10	11.67	63.14	5.5	33.33	7.9	25.4	1.85
I24	31 May 2015	1	16.23	66.50	9.7	33.35	8.3	24.4	3.31
I24	31 May 2015	2	15.35	66.34	9.6	33.34	8.3	24.6	6.29
I24	31 May 2015	3	14.73	65.74	9.2	33.33	8.2	24.7	10.34
I24	31 May 2015	4	13.91	61.66	8.9	33.34	8.2	24.9	11.22
I24	31 May 2015	5	13.54	61.69	8.5	33.33	8.2	25.0	11.98
I24	31 May 2015	6	13.04	63.36	7.8	33.33	8.1	25.1	10.38
I24	31 May 2015	7	12.40	64.64	7.1	33.33	8.1	25.2	8.40
I24	31 May 2015	8	12.04	69.55	6.5	33.34	8.0	25.3	6.80

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I24	31 May 2015	9	11.97	73.28	6.1	33.34	8.0	25.3	5.63
I24	31 May 2015	10	11.87	72.44	5.8	33.35	8.0	25.3	4.24
I25	06 May 2015	1	15.92	66.71	9.1	33.39	8.2	24.5	3.80
I25	06 May 2015	2	15.80	66.75	8.9	33.38	8.2	24.5	4.68
I25	06 May 2015	3	15.26	66.22	8.4	33.37	8.2	24.7	5.71
I25	06 May 2015	4	14.87	63.90	8.2	33.39	8.1	24.8	5.92
I25	06 May 2015	5	14.76	62.46	7.8	33.38	8.1	24.8	5.76
I25	06 May 2015	6	14.40	59.78	7.4	33.36	8.1	24.8	4.75
I25	06 May 2015	7	14.15	61.35	7.1	33.37	8.0	24.9	3.76
I25	06 May 2015	8	14.06	63.09	7.2	33.38	8.0	24.9	3.71
I25	06 May 2015	9	14.05	59.37	7.2	33.38	8.0	24.9	3.53
I25	15 May 2015	1	16.61	84.31	8.1	33.18	8.2	24.2	0.89
I25	15 May 2015	2	16.61	84.82	8.1	33.19	8.2	24.2	0.95
I25	15 May 2015	3	16.62	85.26	8.1	33.22	8.2	24.2	1.06
I25	15 May 2015	4	16.62	85.55	8.2	33.25	8.2	24.3	1.26
I25	15 May 2015	5	16.62	85.54	8.3	33.33	8.2	24.3	1.52
I25	15 May 2015	6	16.58	85.32	8.3	33.35	8.2	24.3	1.72
I25	15 May 2015	7	16.56	82.66	8.4	33.35	8.2	24.4	1.80
I25	15 May 2015	8	16.55	80.59	8.6	33.35	8.2	24.4	1.73
I25	21 May 2015	1	17.92	77.03	8.2	33.32	8.2	24.0	1.20
I25	21 May 2015	2	17.87	77.83	8.2	33.31	8.2	24.0	1.26
I25	21 May 2015	3	17.85	77.83	8.2	33.32	8.2	24.0	1.39
I25	21 May 2015	4	17.85	78.08	8.1	33.31	8.2	24.0	1.78
I25	21 May 2015	5	17.06	77.91	8.1	33.28	8.2	24.2	3.00
I25	21 May 2015	6	16.72	73.09	7.6	33.30	8.2	24.3	4.32
I25	21 May 2015	7	15.71	70.67	7.0	33.27	8.2	24.5	3.53
I25	21 May 2015	8	14.86	65.88	6.4	33.27	8.1	24.7	2.17
I25	21 May 2015	9	13.44	72.82	6.2	33.37	8.0	25.0	1.75
I25	27 May 2015	1	15.82	70.74	8.4	33.37	8.2	24.5	4.52
I25	27 May 2015	2	15.62	71.03	8.3	33.35	8.2	24.6	5.52
I25	27 May 2015	3	14.84	71.16	8.3	33.33	8.2	24.7	9.45
I25	27 May 2015	4	14.66	69.65	7.8	33.34	8.2	24.8	10.57
I25	27 May 2015	5	14.33	63.72	7.3	33.35	8.1	24.8	8.75
I25	27 May 2015	6	14.19	62.83	6.7	33.33	8.1	24.9	6.91
I25	27 May 2015	7	13.06	65.47	6.2	33.28	8.0	25.0	3.96
I25	27 May 2015	8	12.29	69.40	6.0	33.34	8.0	25.2	2.51
I25	27 May 2015	9	12.29	69.40	5.9	33.34	8.0	25.2	2.19
I25	31 May 2015	1	16.42	63.15	9.7	33.36	8.3	24.4	3.50
I25	31 May 2015	2	16.09	63.24	9.6	33.35	8.3	24.5	4.71
I25	31 May 2015	3	15.03	62.92	9.5	33.34	8.2	24.7	7.98
I25	31 May 2015	4	14.25	63.28	9.1	33.34	8.2	24.8	10.68
I25	31 May 2015	5	13.75	63.30	8.7	33.33	8.2	24.9	11.42
I25	31 May 2015	6	13.19	63.34	8.0	33.33	8.2	25.1	10.09
I25	31 May 2015	7	12.55	65.20	7.0	33.31	8.1	25.2	8.91
I25	31 May 2015	8	12.04	67.67	6.1	33.34	8.0	25.3	5.93
I25	31 May 2015	9	11.89	68.23	5.7	33.34	7.9	25.3	3.03
I26	06 May 2015	1	15.64	61.35	8.2	33.38	8.1	24.6	6.73
I26	06 May 2015	2	15.61	61.40	8.2	33.38	8.1	24.6	7.61
I26	06 May 2015	3	15.39	60.97	8.4	33.37	8.1	24.6	7.13

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I26	06 May 2015	4	15.12	62.20	8.5	33.37	8.1	24.7	6.31
I26	06 May 2015	5	14.62	63.54	8.4	33.36	8.1	24.8	6.89
I26	06 May 2015	6	14.10	62.85	7.9	33.37	8.1	24.9	7.90
I26	06 May 2015	7	13.66	62.11	7.0	33.33	8.0	25.0	7.14
I26	06 May 2015	8	12.73	65.21	6.8	33.35	8.0	25.2	6.59
I26	06 May 2015	9	12.52	63.09	6.7	33.36	8.0	25.2	5.75
I26	15 May 2015	1	16.53	82.95	8.4	33.22	8.2	24.3	1.16
I26	15 May 2015	2	16.53	83.04	8.4	33.22	8.2	24.3	1.19
I26	15 May 2015	3	16.54	83.90	8.4	33.23	8.2	24.3	1.26
I26	15 May 2015	4	16.55	84.15	8.3	33.25	8.2	24.3	1.35
I26	15 May 2015	5	16.55	84.30	8.4	33.29	8.2	24.3	1.54
I26	15 May 2015	6	16.51	83.92	8.4	33.32	8.2	24.3	1.61
I26	15 May 2015	7	16.50	82.30	8.3	33.32	8.2	24.3	1.64
I26	15 May 2015	8	16.50	81.50	8.3	33.32	8.2	24.3	1.56
I26	15 May 2015	9	16.49	81.01	8.3	33.32	8.2	24.3	1.53
I26	21 May 2015	1	17.94	78.15	8.3	33.30	8.2	24.0	0.98
I26	21 May 2015	2	17.86	78.26	8.3	33.30	8.2	24.0	1.05
I26	21 May 2015	3	17.74	78.61	8.3	33.32	8.2	24.1	1.05
I26	21 May 2015	4	17.72	81.42	8.2	33.33	8.2	24.1	1.01
I26	21 May 2015	5	17.72	83.00	8.2	33.33	8.2	24.1	1.00
I26	21 May 2015	6	17.48	84.07	8.2	33.32	8.2	24.1	1.29
I26	21 May 2015	7	17.07	82.77	8.2	33.31	8.2	24.2	2.58
I26	21 May 2015	8	16.54	78.70	7.7	33.30	8.2	24.3	3.33
I26	21 May 2015	9	14.90	73.38	7.2	33.29	8.2	24.6	2.24
I26	27 May 2015	1	16.03	70.65	8.5	33.37	8.2	24.5	3.89
I26	27 May 2015	2	15.93	71.11	8.3	33.37	8.2	24.5	4.63
I26	27 May 2015	3	15.00	71.27	8.0	33.33	8.2	24.6	6.58
I26	27 May 2015	4	14.25	70.96	7.9	33.35	8.2	24.9	8.14
I26	27 May 2015	5	13.65	71.04	7.6	33.31	8.1	24.9	8.95
I26	27 May 2015	6	13.07	71.51	7.3	33.33	8.1	25.1	7.01
I26	27 May 2015	7	12.76	74.04	6.8	33.29	8.1	25.1	4.81
I26	27 May 2015	8	11.91	76.20	6.3	33.33	8.0	25.3	3.00
I26	27 May 2015	9	11.80	74.35	6.1	33.34	8.0	25.3	2.28
I26	31 May 2015	1	16.06	62.34	9.7	33.38	8.3	24.5	7.09
I26	31 May 2015	2	16.18	62.00	9.7	33.36	8.3	24.4	7.28
I26	31 May 2015	3	15.96	61.15	9.3	33.36	8.3	24.5	7.33
I26	31 May 2015	4	14.97	61.67	8.5	33.34	8.2	24.7	7.78
I26	31 May 2015	5	13.54	63.67	6.8	33.31	8.1	25.0	5.96
I26	31 May 2015	6	12.64	65.89	6.1	33.33	8.0	25.2	4.06
I26	31 May 2015	7	12.36	69.95	5.8	33.33	8.0	25.2	4.86
I26	31 May 2015	8	12.04	71.55	5.3	33.33	7.9	25.3	3.06
I26	31 May 2015	9	11.90	74.05	5.1	33.34	7.9	25.3	1.79
I32	08 May 2015	1	15.79	67.31	8.4	33.40	8.2	24.6	1.76
I32	08 May 2015	2	15.78	68.57	8.4	33.39	8.2	24.6	2.09
I32	08 May 2015	3	15.76	68.52	8.4	33.40	8.2	24.6	2.58
I32	08 May 2015	4	15.75	68.48	8.4	33.40	8.2	24.6	3.15
I32	08 May 2015	5	15.74	66.53	8.4	33.40	8.2	24.6	3.72
I32	08 May 2015	6	15.73	66.20	8.3	33.40	8.2	24.6	3.95
I32	08 May 2015	7	15.73	65.99	8.4	33.40	8.2	24.6	4.16
I32	08 May 2015	8	15.73	65.75	8.3	33.40	8.2	24.6	4.01

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I32	08 May 2015	9	15.71	63.72	8.2	33.39	8.2	24.6	3.76
I32	08 May 2015	10	15.66	59.54	8.2	33.39	8.2	24.6	3.66
I32	15 May 2015	1	16.68	64.27	8.1	33.23	8.2	24.2	3.37
I32	15 May 2015	2	16.69	64.14	8.2	33.27	8.2	24.3	4.21
I32	15 May 2015	3	16.64	64.11	8.2	33.33	8.2	24.3	4.58
I32	15 May 2015	4	16.62	66.30	8.2	33.35	8.2	24.3	4.69
I32	15 May 2015	5	16.62	70.27	8.2	33.35	8.2	24.3	4.57
I32	15 May 2015	6	16.61	71.80	8.2	33.35	8.2	24.3	4.53
I32	15 May 2015	7	16.54	71.92	8.1	33.36	8.2	24.4	4.48
I32	15 May 2015	8	16.49	71.43	8.1	33.35	8.2	24.4	4.37
I32	15 May 2015	9	16.33	69.92	8.1	33.36	8.2	24.4	4.26
I32	15 May 2015	10	16.34	68.32	8.1	33.37	8.2	24.4	4.09
I32	21 May 2015	1	18.37	72.59	8.3	33.28	8.3	23.9	1.09
I32	21 May 2015	2	18.33	72.42	8.3	33.27	8.3	23.9	1.22
I32	21 May 2015	3	18.22	72.36	8.3	33.27	8.3	23.9	1.59
I32	21 May 2015	4	18.13	71.72	8.3	33.27	8.3	23.9	2.14
I32	21 May 2015	5	18.03	70.81	8.3	33.25	8.3	23.9	2.97
I32	21 May 2015	6	17.98	67.97	8.3	33.25	8.3	23.9	3.83
I32	21 May 2015	7	17.95	65.16	8.3	33.24	8.3	23.9	4.51
I32	21 May 2015	8	17.91	63.53	8.3	33.24	8.3	23.9	4.85
I32	21 May 2015	9	17.89	63.20	8.2	33.24	8.3	24.0	5.03
I32	21 May 2015	10	17.81	64.28	8.1	33.24	8.3	24.0	5.04
I32	27 May 2015	1	15.50	60.91	8.4	33.36	8.2	24.6	6.42
I32	27 May 2015	2	15.46	61.00	8.4	33.36	8.2	24.6	7.67
I32	27 May 2015	3	15.38	60.38	8.3	33.36	8.2	24.6	8.93
I32	27 May 2015	4	15.11	59.74	7.9	33.32	8.2	24.7	8.51
I32	27 May 2015	5	14.26	55.76	7.4	33.33	8.1	24.8	7.66
I32	27 May 2015	6	13.33	49.91	6.7	33.29	8.1	25.0	6.78
I32	27 May 2015	7	12.21	47.03	6.4	33.32	8.0	25.2	6.02
I32	27 May 2015	8	11.92	43.01	6.3	33.32	8.0	25.3	5.29
I32	27 May 2015	9	11.73	45.23	6.2	33.33	8.0	25.3	4.67
I32	31 May 2015	1	16.77	66.48	8.9	33.37	8.3	24.3	2.67
I32	31 May 2015	2	16.67	66.65	8.8	33.36	8.3	24.3	3.44
I32	31 May 2015	3	16.10	66.39	8.8	33.34	8.2	24.4	7.24
I32	31 May 2015	4	15.35	64.62	9.2	33.33	8.2	24.6	10.22
I32	31 May 2015	5	14.26	60.94	9.2	33.33	8.2	24.8	11.59
I32	31 May 2015	6	13.71	60.44	8.4	33.32	8.2	24.9	13.43
I32	31 May 2015	7	12.64	62.12	7.0	33.32	8.1	25.2	12.72
I32	31 May 2015	8	12.22	59.17	6.4	33.31	8.0	25.2	8.63
I32	31 May 2015	9	11.76	65.42	6.0	33.33	8.0	25.3	4.96
I32	31 May 2015	10	11.69	69.52	5.6	33.34	8.0	25.4	3.75
I39	06 May 2015	1	15.77	69.63	9.3	33.38	8.2	24.6	4.28
I39	06 May 2015	2	15.75	70.09	9.2	33.38	8.2	24.6	4.56
I39	06 May 2015	3	15.24	69.91	8.7	33.36	8.2	24.6	5.81
I39	06 May 2015	4	14.26	68.58	8.2	33.37	8.1	24.9	7.04
I39	06 May 2015	5	14.07	67.00	8.2	33.38	8.1	24.9	6.55
I39	06 May 2015	6	13.98	67.11	8.1	33.37	8.1	24.9	6.38
I39	06 May 2015	7	13.86	67.66	8.0	33.38	8.1	25.0	6.24
I39	06 May 2015	8	13.73	67.67	7.7	33.36	8.1	25.0	6.86
I39	06 May 2015	9	13.39	67.23	7.4	33.36	8.0	25.0	7.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	06 May 2015	10	12.86	67.98	7.0	33.35	8.0	25.1	5.93
I39	06 May 2015	11	12.51	69.77	6.7	33.37	8.0	25.2	5.26
I39	06 May 2015	12	12.46	69.27	6.6	33.37	8.0	25.2	5.11
I39	06 May 2015	13	12.45	68.08	6.6	33.38	8.0	25.2	5.03
I39	06 May 2015	14	12.44	68.24	6.6	33.37	8.0	25.2	5.40
I39	06 May 2015	15	12.40	68.33	6.5	33.38	8.0	25.3	5.49
I39	06 May 2015	16	12.36	68.47	6.5	33.38	8.0	25.3	4.93
I39	06 May 2015	17	12.34	68.45	6.5	33.38	8.0	25.3	4.92
I39	06 May 2015	18	12.30	68.44	6.5	33.38	7.9	25.3	4.82
I39	15 May 2015	1	16.65	86.23	8.1	33.24	8.2	24.2	1.05
I39	15 May 2015	2	16.59	86.02	8.2	33.26	8.2	24.3	1.23
I39	15 May 2015	3	16.52	86.42	8.2	33.27	8.2	24.3	1.46
I39	15 May 2015	4	16.45	86.28	8.3	33.28	8.2	24.3	1.67
I39	15 May 2015	5	16.44	85.13	8.3	33.29	8.2	24.3	1.82
I39	15 May 2015	6	16.45	84.20	8.3	33.30	8.2	24.3	1.86
I39	15 May 2015	7	16.44	84.06	8.3	33.30	8.2	24.3	1.92
I39	15 May 2015	8	16.43	83.97	8.3	33.30	8.2	24.3	2.04
I39	15 May 2015	9	16.41	83.87	8.3	33.32	8.2	24.4	2.23
I39	15 May 2015	10	16.40	83.54	8.3	33.34	8.2	24.4	2.39
I39	15 May 2015	11	16.39	82.80	8.3	33.34	8.2	24.4	2.49
I39	15 May 2015	12	16.37	82.50	8.3	33.35	8.2	24.4	2.63
I39	15 May 2015	13	16.33	82.16	8.2	33.35	8.2	24.4	2.88
I39	15 May 2015	14	16.23	81.92	7.9	33.35	8.2	24.4	2.96
I39	15 May 2015	15	15.96	81.34	7.3	33.31	8.2	24.5	2.99
I39	15 May 2015	16	14.40	80.72	6.8	33.26	8.2	24.8	2.78
I39	15 May 2015	17	13.30	79.14	6.6	33.34	8.1	25.0	2.69
I39	15 May 2015	18	12.55	76.58	6.3	33.36	8.0	25.2	2.17
I39	21 May 2015	1	17.55	86.60	8.0	33.34	8.2	24.1	0.57
I39	21 May 2015	2	17.52	86.56	8.1	33.34	8.2	24.1	0.58
I39	21 May 2015	3	17.51	86.83	8.1	33.34	8.2	24.1	0.63
I39	21 May 2015	4	17.49	86.95	8.1	33.34	8.2	24.1	0.68
I39	21 May 2015	5	17.40	86.91	8.1	33.34	8.2	24.1	0.78
I39	21 May 2015	6	17.24	86.88	8.0	33.33	8.2	24.2	1.06
I39	21 May 2015	7	16.47	86.04	8.1	33.32	8.2	24.3	1.74
I39	21 May 2015	8	16.05	82.67	8.0	33.32	8.2	24.4	2.23
I39	21 May 2015	9	15.41	82.60	7.7	33.30	8.2	24.6	2.26
I39	21 May 2015	10	14.42	83.24	7.5	33.29	8.2	24.8	1.98
I39	21 May 2015	11	13.91	86.40	7.4	33.31	8.1	24.9	1.77
I39	21 May 2015	12	13.71	87.77	7.2	33.31	8.1	24.9	1.84
I39	21 May 2015	13	13.32	87.62	7.0	33.30	8.1	25.0	1.88
I39	21 May 2015	14	12.60	86.64	6.8	33.30	8.1	25.2	1.78
I39	21 May 2015	15	12.25	87.14	6.6	33.31	8.1	25.2	1.72
I39	21 May 2015	16	12.01	87.52	6.5	33.33	8.0	25.3	1.67
I39	21 May 2015	17	11.97	87.77	6.4	33.33	8.0	25.3	1.59
I39	21 May 2015	18	11.91	87.41	6.3	33.34	8.0	25.3	1.39
I39	27 May 2015	1	15.62	70.21	8.5	33.37	8.2	24.6	6.39
I39	27 May 2015	2	15.54	70.13	8.3	33.37	8.2	24.6	7.05
I39	27 May 2015	3	15.19	70.07	8.0	33.33	8.2	24.6	7.61
I39	27 May 2015	4	14.02	70.28	7.6	33.33	8.2	24.9	6.74
I39	27 May 2015	5	13.18	74.37	7.0	33.30	8.1	25.0	5.03
I39	27 May 2015	6	12.38	78.32	6.6	33.33	8.0	25.2	3.81
I39	27 May 2015	7	12.16	80.90	6.4	33.33	8.0	25.3	3.14

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	27 May 2015	8	11.98	81.86	6.2	33.32	8.0	25.3	2.68
I39	27 May 2015	9	11.81	82.00	6.0	33.34	8.0	25.3	2.21
I39	27 May 2015	10	11.73	81.53	5.9	33.34	8.0	25.3	2.01
I39	27 May 2015	11	11.63	81.32	5.8	33.34	8.0	25.4	1.80
I39	27 May 2015	12	11.55	81.15	5.8	33.34	8.0	25.4	1.69
I39	27 May 2015	13	11.44	81.18	5.8	33.35	8.0	25.4	1.54
I39	27 May 2015	14	11.38	81.71	5.8	33.35	8.0	25.4	1.44
I39	27 May 2015	15	11.33	81.44	5.8	33.35	8.0	25.4	1.41
I39	27 May 2015	16	11.24	80.53	5.8	33.36	8.0	25.5	1.47
I39	27 May 2015	17	11.16	79.48	5.7	33.36	7.9	25.5	1.29
I39	27 May 2015	18	11.08	78.76	5.7	33.37	7.9	25.5	1.22
I39	31 May 2015	1	16.09	65.30	9.6	33.38	8.3	24.5	4.23
I39	31 May 2015	2	16.19	66.01	9.6	33.37	8.3	24.5	4.07
I39	31 May 2015	3	16.24	66.88	9.6	33.37	8.3	24.4	3.98
I39	31 May 2015	4	16.10	67.01	9.5	33.37	8.3	24.5	4.90
I39	31 May 2015	5	15.85	66.83	9.3	33.37	8.3	24.5	6.92
I39	31 May 2015	6	14.97	66.02	9.2	33.36	8.2	24.7	8.75
I39	31 May 2015	7	14.63	66.74	9.0	33.34	8.2	24.8	9.61
I39	31 May 2015	8	14.10	67.32	8.8	33.33	8.2	24.9	9.90
I39	31 May 2015	9	13.75	67.57	8.5	33.35	8.2	25.0	10.03
I39	31 May 2015	10	13.47	68.13	7.9	33.33	8.2	25.0	8.74
I39	31 May 2015	11	12.84	68.93	7.1	33.32	8.1	25.1	5.92
I39	31 May 2015	12	12.18	72.36	6.5	33.33	8.0	25.3	3.91
I39	31 May 2015	13	11.83	77.71	6.2	33.34	8.0	25.3	2.90
I39	31 May 2015	14	11.59	80.15	6.0	33.34	8.0	25.4	2.36
I39	31 May 2015	15	11.47	81.58	5.8	33.35	8.0	25.4	2.08
I39	31 May 2015	16	11.30	82.23	5.7	33.36	8.0	25.4	1.82
I39	31 May 2015	17	11.17	82.54	5.6	33.37	7.9	25.5	1.64
I39	31 May 2015	18	11.13	82.82	5.6	33.38	7.9	25.5	1.51
I40	06 May 2015	1	15.77	67.36	9.4	33.39	8.2	24.6	4.13
I40	06 May 2015	2	15.76	67.52	9.4	33.39	8.2	24.6	4.85
I40	06 May 2015	3	15.74	66.73	9.3	33.39	8.2	24.6	5.84
I40	06 May 2015	4	15.72	65.78	9.2	33.39	8.2	24.6	6.59
I40	06 May 2015	5	15.63	64.24	8.8	33.39	8.2	24.6	6.59
I40	06 May 2015	6	15.41	63.86	8.3	33.38	8.2	24.6	6.24
I40	06 May 2015	7	14.91	62.22	8.1	33.39	8.1	24.8	5.66
I40	06 May 2015	8	14.68	60.80	7.9	33.39	8.1	24.8	5.42
I40	06 May 2015	9	14.28	55.35	7.3	33.35	8.1	24.9	7.07
I40	15 May 2015	1	16.59	64.49	8.5	33.20	8.2	24.2	4.57
I40	15 May 2015	2	16.59	64.86	8.5	33.23	8.2	24.2	4.60
I40	15 May 2015	3	16.58	66.39	8.5	33.26	8.2	24.3	4.38
I40	15 May 2015	4	16.58	68.75	8.5	33.26	8.2	24.3	3.83
I40	15 May 2015	5	16.57	72.05	8.4	33.27	8.2	24.3	3.34
I40	15 May 2015	6	16.57	75.70	8.4	33.27	8.2	24.3	2.60
I40	15 May 2015	7	16.59	78.96	8.4	33.29	8.2	24.3	2.38
I40	15 May 2015	8	16.58	82.03	8.5	33.31	8.2	24.3	3.01
I40	15 May 2015	9	16.59	82.47	8.5	33.33	8.2	24.3	3.83
I40	15 May 2015	10	16.61	78.83	8.4	33.35	8.2	24.3	4.34
I40	21 May 2015	1	17.98	62.62	8.1	33.22	8.2	23.9	1.86
I40	21 May 2015	2	17.90	62.79	8.1	33.22	8.2	23.9	2.20
I40	21 May 2015	3	17.67	61.50	8.1	33.22	8.2	24.0	3.32

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I40	21 May 2015	4	17.54	59.75	8.1	33.23	8.2	24.0	4.66
I40	21 May 2015	5	17.45	60.80	8.1	33.25	8.2	24.1	5.35
I40	21 May 2015	6	17.18	62.43	8.1	33.30	8.2	24.2	4.35
I40	21 May 2015	7	16.97	67.67	8.0	33.31	8.2	24.2	3.97
I40	21 May 2015	8	16.52	70.53	7.5	33.27	8.2	24.3	5.81
I40	21 May 2015	9	15.26	66.96	6.6	33.30	8.1	24.6	6.12
I40	21 May 2015	10	13.58	58.74	6.0	33.36	8.0	25.0	5.16
I40	27 May 2015	1	15.59	62.71	7.9	33.36	8.2	24.6	4.47
I40	27 May 2015	2	15.45	62.70	7.7	33.35	8.2	24.6	5.57
I40	27 May 2015	3	14.59	60.22	7.5	33.34	8.1	24.8	7.64
I40	27 May 2015	4	13.98	53.32	7.2	33.34	8.1	24.9	9.23
I40	27 May 2015	5	13.62	48.84	7.0	33.35	8.1	25.0	9.42
I40	27 May 2015	6	13.50	49.91	6.6	33.34	8.0	25.0	7.81
I40	27 May 2015	7	12.90	49.54	5.9	33.33	8.0	25.1	6.10
I40	27 May 2015	8	12.49	44.52	5.4	33.34	7.9	25.2	5.17
I40	27 May 2015	9	12.13	36.88	5.4	33.32	7.9	25.3	4.16
I40	27 May 2015	10	11.73	48.16	5.5	33.34	7.9	25.3	3.83
I40	31 May 2015	1	16.29	65.84	9.6	33.37	8.3	24.4	2.40
I40	31 May 2015	2	16.10	65.72	9.7	33.36	8.3	24.5	5.19
I40	31 May 2015	3	15.71	64.88	9.7	33.35	8.3	24.5	11.92
I40	31 May 2015	4	15.24	60.00	9.5	33.35	8.3	24.6	11.50
I40	31 May 2015	5	14.14	58.45	8.5	33.32	8.2	24.8	11.29
I40	31 May 2015	6	13.00	62.40	7.5	33.35	8.1	25.1	11.00
I40	31 May 2015	7	12.81	62.20	7.0	33.34	8.0	25.1	9.51
I40	31 May 2015	8	12.53	63.79	6.4	33.34	8.0	25.2	7.42
I40	31 May 2015	9	12.06	65.12	5.7	33.34	8.0	25.3	4.81
I40	31 May 2015	10	11.82	62.25	5.4	33.34	7.9	25.3	3.44

OFFSHORE STATIONS

Table 4.1

Summary of compliance with the 2012 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
06 May 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
08 May 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 4.2

Summary of compliance with the 2012 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
06 May 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
08 May 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 4.3

Summary of compliance with the 2012 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
06 May 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
08 May 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 4.4

Summary of compliance with the 2012 Ocean Plan's Single Sample Maximum standard for total coliforms 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
06 May 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
08 May 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

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) 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	07 May 2015	948	2	<2	<2	<2	1.00	16.3	82.20	8.3	33.40	8.2	<0.2	<0.2
I3	07 May 2015	948	18	2e	<2	<2	1.00	11.8	81.84	6.1	33.42	8.0	ns	<0.2
I3	07 May 2015	948	27	<2	<2	<2	1.00	11.8	81.74	6.1	33.43	8.0	ns	<0.2
I5	07 May 2015	1013	2	2e	<2	<2	1.00	16.1	78.27	8.6	33.41	8.2	<0.2	<0.2
I5	07 May 2015	1013	6	6e	<2	<2	0.33	14.8	73.07	8.6	33.36	8.2	ns	<0.2
I5	07 May 2015	1013	11	60e	4e	10e	0.07	12.9	62.69	7.6	33.41	8.1	ns	2.8
I7	07 May 2015	843	2	<2	<2	<2	1.00	15.4	81.03	8.8	33.35	8.2	<0.2	<0.2
I7	07 May 2015	843	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I7	07 May 2015	843	18	<2	<2	<2	1.00	11.2	88.25	6.3	33.33	8.0	ns	<0.2
I7	07 May 2015	843	52	2e	<2	<2	1.00	10.7	89.00	5.0	33.55	7.9	ns	2.6
I8	07 May 2015	1133	2	<2	<2	<2	1.00	15.6	82.94	8.9	33.35	8.2	<0.2	<0.2
I8	07 May 2015	1133	18	<2	<2	<2	1.00	11.2	86.09	6.1	33.38	8.0	ns	<0.2
I8	07 May 2015	1133	37	<2	<2	<2	1.00	10.9	85.53	5.9	33.40	8.0	ns	<0.2
I9	07 May 2015	1116	2	<2	<2	<2	1.00	15.6	80.81	8.8	33.37	8.2	<0.2	<0.2
I9	07 May 2015	1116	18	<2	<2	<2	1.00	11.6	83.35	6.1	33.41	8.0	ns	<0.2
I9	07 May 2015	1116	27	<2	<2	<2	1.00	11.6	81.53	6.0	33.43	8.0	ns	<0.2
I10	07 May 2015	1101	2	<2	<2	<2	1.00	15.7	77.83	8.6	33.40	8.2	<0.2	<0.2
I10	07 May 2015	1101	12	40e	<2	4e	0.05	12.6	69.47	7.1	33.39	8.1	ns	<0.2
I10	07 May 2015	1101	18	20e	<2	4e	0.10	12.2	66.03	6.6	33.42	8.0	ns	6.2
I11	07 May 2015	1046	2	40e	2e	<2	0.05	15.7	66.00	8.6	33.38	8.2	<0.2	<0.2
I11	07 May 2015	1046	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I11	07 May 2015	1046	6	<20	4e	4e	0.20	15.6	70.46	8.6	33.39	8.2	ns	<0.2
I11	07 May 2015	1046	11	80e	8e	10e	0.10	13.5	60.35	7.1	33.40	8.1	ns	4.6
I12	06 May 2015	1104	2	<2	<2	<2	1.00	15.8	80.91	9.0	33.37	8.2	<0.2	<0.2
I12	06 May 2015	1104	18	2e	<2	<2	1.00	11.5	81.91	5.6	33.44	8.0	ns	<0.2
I12	06 May 2015	1104	27	<2	<2	<2	1.00	11.5	79.98	5.5	33.48	7.9	ns	<0.2
I13	07 May 2015	1150	2	<2	<2	<2	1.00	15.2	80.31	8.8	33.35	8.2	<0.2	<0.2
I13	07 May 2015	1150	18	<2	<2	<2	1.00	11.2	86.19	6.0	33.39	8.0	ns	<0.2
I13	07 May 2015	1150	37	<2	<2	<2	1.00	11.0	85.26	5.8	33.41	7.9	ns	<0.2
I14	06 May 2015	1125	2	<2	<2	<2	1.00	15.9	80.82	9.1	33.37	8.2	<0.2	<0.2
I14	06 May 2015	1125	18	6e	<2	<2	0.33	12.1	74.76	6.4	33.41	8.0	ns	<0.2
I14	06 May 2015	1125	27	<2	<2	<2	1.00	11.7	78.50	5.5	33.48	7.9	ns	3.4
I16	06 May 2015	1043	2	<2	<2	<2	1.00	15.7	80.04	9.0	33.38	8.2	<0.2	<0.2
I16	06 May 2015	1043	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I16	06 May 2015	1043	18	8e	<2	2e	0.25	12.3	72.75	7.1	33.39	8.0	ns	<0.2

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I16	06 May 2015	1043	27	<2	<2	<2	1.00	11.5	82.28	5.5	33.47	7.9	ns	<0.2
I18	06 May 2015	1012	2	<2	<2	<2	1.00	15.4	73.54	8.9	33.41	8.2	<0.2	<0.2
I18	06 May 2015	1012	12	4e	2e	<2	0.50	12.3	68.67	6.6	33.41	8.0	ns	3.2
I18	06 May 2015	1012	18	6e	2e	<2	0.33	12.2	71.53	6.4	33.45	8.0	ns	3.2
I20	07 May 2015	819	2	<2	<2	<2	1.00	15.5	80.82	9.0	33.35	8.2	<0.2	<0.2
I20	07 May 2015	819	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I20	07 May 2015	819	18	<2	<2	<2	1.00	11.3	88.23	6.5	33.30	8.0	ns	<0.2
I20	07 May 2015	819	55	<2	<2	2e	1.00	10.7	88.98	4.8	33.58	7.8	ns	<0.2
I21	07 May 2015	1208	2	<2	<2	<2	1.00	15.6	82.48	9.0	33.36	8.2	<0.2	<0.2
I21	07 May 2015	1208	18	<2	<2	<2	1.00	11.6	85.25	6.3	33.38	8.0	ns	<0.2
I21	07 May 2015	1208	37	<2	<2	<2	1.00	10.9	85.37	5.7	33.43	7.9	ns	<0.2
I22	06 May 2015	1136	2	<2	<2	<2	1.00	15.7	79.32	9.0	33.39	8.2	<0.2	<0.2
I22	06 May 2015	1136	18	8e	<2	<2	0.25	12.1	75.84	6.7	33.42	8.0	ns	<0.2
I22	06 May 2015	1136	27	<2	<2	<2	1.00	11.8	78.01	5.6	33.48	7.9	ns	3.4
I23	06 May 2015	1149	2	<2	<2	<2	1.00	15.4	71.46	9.0	33.40	8.2	<0.2	<0.2
I23	06 May 2015	1149	12	8e	2e	<2	0.25	12.8	70.60	7.5	33.39	8.1	ns	2.8
I23	06 May 2015	1149	18	6e	2e	<2	0.33	12.2	69.62	6.5	33.39	8.0	ns	3.1
I30	08 May 2015	938	2	<2	<2	<2	1.00	15.3	78.24	8.6	33.38	8.2	<0.2	<0.2
I30	08 May 2015	938	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I30	08 May 2015	938	18	64	20e	8e	0.31	12.2	78.23	7.0	33.36	8.0	ns	<0.2
I30	08 May 2015	938	27	2e	2e	<2	1.00	11.9	71.04	5.6	33.44	7.9	ns	<0.2
I33	08 May 2015	840	2	<2	<2	<2	1.00	14.9	76.87	8.7	33.38	8.2	<0.2	<0.2
I33	08 May 2015	840	18	<2	<2	<2	1.00	12.7	74.45	7.2	33.38	8.0	ns	<0.2
I33	08 May 2015	840	27	<2	<2	<2	1.00	12.1	68.05	6.0	33.38	8.0	ns	2.9
I36	08 May 2015	1030	2	<2	<2	<2	1.00	16.3	70.77	8.9	33.38	8.2	<0.2	6.0
I36	08 May 2015	1030	6	<2	<2	<2	1.00	16.2	66.76	8.7	33.38	8.2	ns	2.6
I36	08 May 2015	1030	11	<2	<2	<2	1.00	16.1	69.56	8.5	33.38	8.2	ns	4.0
I37	08 May 2015	804	2	<2	<2	2e	1.00	15.2	76.96	8.5	33.37	8.2	<0.2	<0.2
I37	08 May 2015	804	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	4.3*
I37	08 May 2015	804	6	<2	<2	<2	1.00	14.5	74.49	9.0	33.36	8.2	ns	<0.2
I37	08 May 2015	804	11	<2	<2	<2	1.00	13.2	58.52	8.4	33.34	8.1	ns	<0.2
I38	08 May 2015	1100	2	<2	<2	<2	1.00	16.5	72.88	8.5	33.34	8.2	<0.2	<0.2
I38	08 May 2015	1100	6	<2	<2	<2	1.00	16.3	75.48	8.4	33.37	8.2	ns	<0.2
I38	08 May 2015	1100	11	<2	<2	<2	1.00	14.6	42.29	6.7	33.32	8.1	ns	6.9

ns = not sampled

Table 4.6

Summary of visual observations made during the month at the SBOO offshore stations for each sample date.

Station	Date	Parameter	Value
I1	07 May 2015	Depth (m)	61
I1	07 May 2015	Arrive Time	910
I1	07 May 2015	Depart Time	914
I1	07 May 2015	Air Temp (C)	15
I1	07 May 2015	Weather	Cloudy
I1	07 May 2015	Visibility (mi)	8
I1	07 May 2015	Wind Speed (kts)	10
I1	07 May 2015	Wind Dir	NE
I1	07 May 2015	Water Color	Greenish-Blue
I1	07 May 2015	Wave Ht Low (ft)	6
I1	07 May 2015	Wave Period (sec)	13
I1	07 May 2015	Sea State	Heavy chop
I1	07 May 2015	High Tide (ft)	3.41
I1	07 May 2015	High Tide Time	1236
I1	07 May 2015	Low Tide (ft)	-0.38
I1	07 May 2015	Low Tide Time	614
I1	07 May 2015	Comments	
I2	07 May 2015	Depth (m)	34
I2	07 May 2015	Arrive Time	934
I2	07 May 2015	Depart Time	938
I2	07 May 2015	Air Temp (C)	15
I2	07 May 2015	Weather	Cloudy
I2	07 May 2015	Visibility (mi)	8
I2	07 May 2015	Wind Speed (kts)	6
I2	07 May 2015	Wind Dir	NE
I2	07 May 2015	Water Color	Greenish-Blue
I2	07 May 2015	Wave Ht Low (ft)	6
I2	07 May 2015	Wave Period (sec)	13
I2	07 May 2015	Sea State	Heavy chop
I2	07 May 2015	High Tide (ft)	3.41
I2	07 May 2015	High Tide Time	1236
I2	07 May 2015	Low Tide (ft)	-0.38
I2	07 May 2015	Low Tide Time	614
I2	07 May 2015	Comments	
I3	07 May 2015	Depth (m)	26
I3	07 May 2015	Arrive Time	948
I3	07 May 2015	Depart Time	956
I3	07 May 2015	Air Temp (C)	15
I3	07 May 2015	Weather	Cloudy
I3	07 May 2015	Visibility (mi)	8

Station	Date	Parameter	Value
I3	07 May 2015	Wind Speed (kts)	3
I3	07 May 2015	Wind Dir	NW
I3	07 May 2015	Water Color	Greenish-Blue
I3	07 May 2015	Wave Ht Low (ft)	6
I3	07 May 2015	Wave Period (sec)	13
I3	07 May 2015	Sea State	Heavy chop
I3	07 May 2015	High Tide (ft)	3.41
I3	07 May 2015	High Tide Time	1236
I3	07 May 2015	Low Tide (ft)	-0.38
I3	07 May 2015	Low Tide Time	614
I3	07 May 2015	Comments	
I4	07 May 2015	Depth (m)	20
I4	07 May 2015	Arrive Time	1004
I4	07 May 2015	Depart Time	1008
I4	07 May 2015	Air Temp (C)	15
I4	07 May 2015	Weather	Cloudy
I4	07 May 2015	Visibility (mi)	8
I4	07 May 2015	Wind Speed (kts)	6
I4	07 May 2015	Wind Dir	NE
I4	07 May 2015	Water Color	Greenish-Blue
I4	07 May 2015	Wave Ht Low (ft)	6
I4	07 May 2015	Wave Period (sec)	13
I4	07 May 2015	Sea State	Heavy chop
I4	07 May 2015	High Tide (ft)	3.41
I4	07 May 2015	High Tide Time	1236
I4	07 May 2015	Low Tide (ft)	-0.38
I4	07 May 2015	Low Tide Time	614
I4	07 May 2015	Comments	
I5	07 May 2015	Depth (m)	14
I5	07 May 2015	Arrive Time	1013
I5	07 May 2015	Depart Time	1024
I5	07 May 2015	Air Temp (C)	15
I5	07 May 2015	Weather	Cloudy
I5	07 May 2015	Visibility (mi)	8
I5	07 May 2015	Wind Speed (kts)	5
I5	07 May 2015	Wind Dir	S
I5	07 May 2015	Water Color	Greenish-Blue
I5	07 May 2015	Wave Ht Low (ft)	6
I5	07 May 2015	Wave Period (sec)	13
I5	07 May 2015	Sea State	Heavy chop
I5	07 May 2015	High Tide (ft)	3.41
I5	07 May 2015	High Tide Time	1236
I5	07 May 2015	Low Tide (ft)	-0.38
I5	07 May 2015	Low Tide Time	614
I5	07 May 2015	Comments	

Station	Date	Parameter	Value
I6	07 May 2015	Depth (m)	26
I6	07 May 2015	Arrive Time	1032
I6	07 May 2015	Depart Time	1036
I6	07 May 2015	Air Temp (C)	15
I6	07 May 2015	Weather	Cloudy
I6	07 May 2015	Visibility (mi)	8
I6	07 May 2015	Wind Speed (kts)	6
I6	07 May 2015	Wind Dir	E
I6	07 May 2015	Water Color	Greenish-Blue
I6	07 May 2015	Wave Ht Low (ft)	6
I6	07 May 2015	Wave Period (sec)	13
I6	07 May 2015	Sea State	Heavy chop
I6	07 May 2015	High Tide (ft)	3.41
I6	07 May 2015	High Tide Time	1236
I6	07 May 2015	Low Tide (ft)	-0.38
I6	07 May 2015	Low Tide Time	614
I6	07 May 2015	Comments	
I7	07 May 2015	Depth (m)	51
I7	07 May 2015	Arrive Time	843
I7	07 May 2015	Depart Time	854
I7	07 May 2015	Air Temp (C)	15
I7	07 May 2015	Weather	Cloudy
I7	07 May 2015	Visibility (mi)	8
I7	07 May 2015	Wind Speed (kts)	6
I7	07 May 2015	Wind Dir	SW
I7	07 May 2015	Water Color	Greenish-Blue
I7	07 May 2015	Wave Ht Low (ft)	6
I7	07 May 2015	Wave Period (sec)	13
I7	07 May 2015	Sea State	Light chop
I7	07 May 2015	High Tide (ft)	3.41
I7	07 May 2015	High Tide Time	1236
I7	07 May 2015	Low Tide (ft)	-0.38
I7	07 May 2015	Low Tide Time	614
I7	07 May 2015	Comments	
I8	07 May 2015	Depth (m)	37
I8	07 May 2015	Arrive Time	1133
I8	07 May 2015	Depart Time	1145
I8	07 May 2015	Air Temp (C)	16
I8	07 May 2015	Weather	Cloudy
I8	07 May 2015	Visibility (mi)	8
I8	07 May 2015	Wind Speed (kts)	10
I8	07 May 2015	Wind Dir	N
I8	07 May 2015	Water Color	Greenish-Blue
I8	07 May 2015	Wave Ht Low (ft)	6

Station	Date	Parameter	Value
I8	07 May 2015	Wave Period (sec)	13
I8	07 May 2015	Sea State	Heavy chop
I8	07 May 2015	High Tide (ft)	3.41
I8	07 May 2015	High Tide Time	1236
I8	07 May 2015	Low Tide (ft)	-0.38
I8	07 May 2015	Low Tide Time	614
I8	07 May 2015	Comments	
I9	07 May 2015	Depth (m)	30
I9	07 May 2015	Arrive Time	1116
I9	07 May 2015	Depart Time	1129
I9	07 May 2015	Air Temp (C)	15
I9	07 May 2015	Weather	Cloudy
I9	07 May 2015	Visibility (mi)	8
I9	07 May 2015	Wind Speed (kts)	8
I9	07 May 2015	Wind Dir	E
I9	07 May 2015	Water Color	Greenish-Blue
I9	07 May 2015	Wave Ht Low (ft)	6
I9	07 May 2015	Wave Period (sec)	13
I9	07 May 2015	Sea State	Heavy chop
I9	07 May 2015	High Tide (ft)	3.41
I9	07 May 2015	High Tide Time	1236
I9	07 May 2015	Low Tide (ft)	-0.38
I9	07 May 2015	Low Tide Time	614
I9	07 May 2015	Comments	
I10	07 May 2015	Depth (m)	20
I10	07 May 2015	Arrive Time	1101
I10	07 May 2015	Depart Time	1108
I10	07 May 2015	Air Temp (C)	15
I10	07 May 2015	Weather	Cloudy
I10	07 May 2015	Visibility (mi)	8
I10	07 May 2015	Wind Speed (kts)	6
I10	07 May 2015	Wind Dir	SE
I10	07 May 2015	Water Color	Greenish-Blue
I10	07 May 2015	Wave Ht Low (ft)	6
I10	07 May 2015	Wave Period (sec)	13
I10	07 May 2015	Sea State	Heavy chop
I10	07 May 2015	High Tide (ft)	3.41
I10	07 May 2015	High Tide Time	1236
I10	07 May 2015	Low Tide (ft)	-0.38
I10	07 May 2015	Low Tide Time	614
I10	07 May 2015	Comments	Kelp debris
I11	07 May 2015	Depth (m)	14
I11	07 May 2015	Arrive Time	1046
I11	07 May 2015	Depart Time	1054

Station	Date	Parameter	Value
I11	07 May 2015	Air Temp (C)	15
I11	07 May 2015	Weather	Cloudy
I11	07 May 2015	Visibility (mi)	8
I11	07 May 2015	Wind Speed (kts)	9
I11	07 May 2015	Wind Dir	SE
I11	07 May 2015	Water Color	Greenish-Blue
I11	07 May 2015	Wave Ht Low (ft)	6
I11	07 May 2015	Wave Period (sec)	13
I11	07 May 2015	Sea State	Heavy chop
I11	07 May 2015	High Tide (ft)	3.41
I11	07 May 2015	High Tide Time	1236
I11	07 May 2015	Low Tide (ft)	-0.38
I11	07 May 2015	Low Tide Time	614
I11	07 May 2015	Comments	Kelp
I12	06 May 2015	Depth (m)	30
I12	06 May 2015	Arrive Time	1104
I12	06 May 2015	Depart Time	1109
I12	06 May 2015	Air Temp (C)	15
I12	06 May 2015	Weather	Cloudy
I12	06 May 2015	Visibility (mi)	4
I12	06 May 2015	Wind Speed (kts)	7
I12	06 May 2015	Wind Dir	S
I12	06 May 2015	Water Color	Greenish-Brown
I12	06 May 2015	Wave Ht Low (ft)	2
I12	06 May 2015	Wave Period (sec)	11
I12	06 May 2015	Sea State	Light chop
I12	06 May 2015	High Tide (ft)	3.6
I12	06 May 2015	High Tide Time	1143
I12	06 May 2015	Low Tide (ft)	-0.49
I12	06 May 2015	Low Tide Time	529
I12	06 May 2015	Comments	
I13	07 May 2015	Depth (m)	39
I13	07 May 2015	Arrive Time	1150
I13	07 May 2015	Depart Time	1159
I13	07 May 2015	Air Temp (C)	15
I13	07 May 2015	Weather	Cloudy
I13	07 May 2015	Visibility (mi)	8
I13	07 May 2015	Wind Speed (kts)	10
I13	07 May 2015	Wind Dir	SW
I13	07 May 2015	Water Color	Greenish-Blue
I13	07 May 2015	Wave Ht Low (ft)	6
I13	07 May 2015	Wave Period (sec)	13
I13	07 May 2015	Sea State	Heavy chop
I13	07 May 2015	High Tide (ft)	3.41
I13	07 May 2015	High Tide Time	1236

Station	Date	Parameter	Value
I13	07 May 2015	Low Tide (ft)	-0.38
I13	07 May 2015	Low Tide Time	614
I13	07 May 2015	Comments	
I14	06 May 2015	Depth (m)	28
I14	06 May 2015	Arrive Time	1125
I14	06 May 2015	Depart Time	1129
I14	06 May 2015	Air Temp (C)	16
I14	06 May 2015	Weather	Cloudy
I14	06 May 2015	Visibility (mi)	4
I14	06 May 2015	Wind Speed (kts)	8
I14	06 May 2015	Wind Dir	SW
I14	06 May 2015	Water Color	Greenish-Brown
I14	06 May 2015	Wave Ht Low (ft)	2
I14	06 May 2015	Wave Period (sec)	11
I14	06 May 2015	Sea State	Light chop
I14	06 May 2015	High Tide (ft)	3.6
I14	06 May 2015	High Tide Time	1143
I14	06 May 2015	Low Tide (ft)	-0.49
I14	06 May 2015	Low Tide Time	529
I14	06 May 2015	Comments	
I15	06 May 2015	Depth (m)	33
I15	06 May 2015	Arrive Time	1118
I15	06 May 2015	Depart Time	1123
I15	06 May 2015	Air Temp (C)	15
I15	06 May 2015	Weather	Cloudy
I15	06 May 2015	Visibility (mi)	4
I15	06 May 2015	Wind Speed (kts)	7
I15	06 May 2015	Wind Dir	S
I15	06 May 2015	Water Color	Greenish-Brown
I15	06 May 2015	Wave Ht Low (ft)	2
I15	06 May 2015	Wave Period (sec)	11
I15	06 May 2015	Sea State	Light chop
I15	06 May 2015	High Tide (ft)	3.6
I15	06 May 2015	High Tide Time	1143
I15	06 May 2015	Low Tide (ft)	-0.49
I15	06 May 2015	Low Tide Time	529
I15	06 May 2015	Comments	
I16	06 May 2015	Depth (m)	29
I16	06 May 2015	Arrive Time	1043
I16	06 May 2015	Depart Time	1055
I16	06 May 2015	Air Temp (C)	16
I16	06 May 2015	Weather	Cloudy
I16	06 May 2015	Visibility (mi)	4
I16	06 May 2015	Wind Speed (kts)	3

Station	Date	Parameter	Value
I16	06 May 2015	Wind Dir	W
I16	06 May 2015	Water Color	Greenish-Brown
I16	06 May 2015	Wave Ht Low (ft)	2
I16	06 May 2015	Wave Period (sec)	11
I16	06 May 2015	Sea State	Light chop
I16	06 May 2015	High Tide (ft)	3.6
I16	06 May 2015	High Tide Time	1143
I16	06 May 2015	Low Tide (ft)	-0.49
I16	06 May 2015	Low Tide Time	529
I16	06 May 2015	Comments	
I17	06 May 2015	Depth (m)	27
I17	06 May 2015	Arrive Time	1032
I17	06 May 2015	Depart Time	1035
I17	06 May 2015	Air Temp (C)	15
I17	06 May 2015	Weather	Cloudy
I17	06 May 2015	Visibility (mi)	4
I17	06 May 2015	Wind Speed (kts)	7
I17	06 May 2015	Wind Dir	NE
I17	06 May 2015	Water Color	Greenish-Brown
I17	06 May 2015	Wave Ht Low (ft)	2
I17	06 May 2015	Wave Period (sec)	11
I17	06 May 2015	Sea State	Light chop
I17	06 May 2015	High Tide (ft)	3.6
I17	06 May 2015	High Tide Time	1143
I17	06 May 2015	Low Tide (ft)	-0.49
I17	06 May 2015	Low Tide Time	529
I17	06 May 2015	Comments	
I18	06 May 2015	Depth (m)	21
I18	06 May 2015	Arrive Time	1012
I18	06 May 2015	Depart Time	1021
I18	06 May 2015	Air Temp (C)	15
I18	06 May 2015	Weather	Cloudy
I18	06 May 2015	Visibility (mi)	4
I18	06 May 2015	Wind Speed (kts)	5
I18	06 May 2015	Wind Dir	SE
I18	06 May 2015	Water Color	Brownish-Green
I18	06 May 2015	Wave Ht Low (ft)	2
I18	06 May 2015	Wave Period (sec)	11
I18	06 May 2015	Sea State	Light chop
I18	06 May 2015	High Tide (ft)	3.6
I18	06 May 2015	High Tide Time	1143
I18	06 May 2015	Low Tide (ft)	-0.49
I18	06 May 2015	Low Tide Time	529
I18	06 May 2015	Comments	

Station	Date	Parameter	Value
I20	07 May 2015	Depth (m)	56
I20	07 May 2015	Arrive Time	819
I20	07 May 2015	Depart Time	829
I20	07 May 2015	Air Temp (C)	15
I20	07 May 2015	Weather	Cloudy
I20	07 May 2015	Visibility (mi)	7
I20	07 May 2015	Wind Speed (kts)	9
I20	07 May 2015	Wind Dir	NW
I20	07 May 2015	Water Color	Greenish-Blue
I20	07 May 2015	Wave Ht Low (ft)	6
I20	07 May 2015	Wave Period (sec)	13
I20	07 May 2015	Sea State	Light chop
I20	07 May 2015	High Tide (ft)	3.41
I20	07 May 2015	High Tide Time	1236
I20	07 May 2015	Low Tide (ft)	-0.38
I20	07 May 2015	Low Tide Time	614
I20	07 May 2015	Comments	
I21	07 May 2015	Depth (m)	8
I21	07 May 2015	Arrive Time	1208
I21	07 May 2015	Depart Time	1219
I21	07 May 2015	Air Temp (C)	16
I21	07 May 2015	Weather	Cloudy
I21	07 May 2015	Visibility (mi)	8
I21	07 May 2015	Wind Speed (kts)	8
I21	07 May 2015	Wind Dir	SW
I21	07 May 2015	Water Color	Greenish-Blue
I21	07 May 2015	Wave Ht Low (ft)	6
I21	07 May 2015	Wave Period (sec)	13
I21	07 May 2015	Sea State	Heavy chop
I21	07 May 2015	High Tide (ft)	3.41
I21	07 May 2015	High Tide Time	1236
I21	07 May 2015	Low Tide (ft)	-0.38
I21	07 May 2015	Low Tide Time	614
I21	07 May 2015	Comments	
I22	06 May 2015	Depth (m)	29
I22	06 May 2015	Arrive Time	1136
I22	06 May 2015	Depart Time	1140
I22	06 May 2015	Air Temp (C)	15
I22	06 May 2015	Weather	Cloudy
I22	06 May 2015	Visibility (mi)	4
I22	06 May 2015	Wind Speed (kts)	7
I22	06 May 2015	Wind Dir	SE
I22	06 May 2015	Water Color	Greenish-Brown
I22	06 May 2015	Wave Ht Low (ft)	2
I22	06 May 2015	Wave Period (sec)	11

Station	Date	Parameter	Value
I22	06 May 2015	Sea State	Light chop
I22	06 May 2015	High Tide (ft)	3.6
I22	06 May 2015	High Tide Time	1143
I22	06 May 2015	Low Tide (ft)	-0.49
I22	06 May 2015	Low Tide Time	529
I22	06 May 2015	Comments	
I23	06 May 2015	Depth (m)	22
I23	06 May 2015	Arrive Time	1149
I23	06 May 2015	Depart Time	1154
I23	06 May 2015	Air Temp (C)	15
I23	06 May 2015	Weather	Cloudy
I23	06 May 2015	Visibility (mi)	4
I23	06 May 2015	Wind Speed (kts)	8
I23	06 May 2015	Wind Dir	NE
I23	06 May 2015	Water Color	Greenish-Brown
I23	06 May 2015	Wave Ht Low (ft)	2
I23	06 May 2015	Wave Period (sec)	11
I23	06 May 2015	Sea State	Light chop
I23	06 May 2015	High Tide (ft)	3.6
I23	06 May 2015	High Tide Time	1143
I23	06 May 2015	Low Tide (ft)	-0.49
I23	06 May 2015	Low Tide Time	529
I23	06 May 2015	Comments	
I27	06 May 2015	Depth (m)	29
I27	06 May 2015	Arrive Time	806
I27	06 May 2015	Depart Time	811
I27	06 May 2015	Air Temp (C)	16
I27	06 May 2015	Weather	Cloudy
I27	06 May 2015	Visibility (mi)	4
I27	06 May 2015	Wind Speed (kts)	4
I27	06 May 2015	Wind Dir	NE
I27	06 May 2015	Water Color	Greenish-Blue
I27	06 May 2015	Wave Ht Low (ft)	2
I27	06 May 2015	Wave Period (sec)	11
I27	06 May 2015	Sea State	Light chop
I27	06 May 2015	High Tide (ft)	3.6
I27	06 May 2015	High Tide Time	1143
I27	06 May 2015	Low Tide (ft)	-0.49
I27	06 May 2015	Low Tide Time	529
I27	06 May 2015	Comments	
I28	08 May 2015	Depth (m)	57
I28	08 May 2015	Arrive Time	903
I28	08 May 2015	Depart Time	912
I28	08 May 2015	Air Temp (C)	14

Station	Date	Parameter	Value
I28	08 May 2015	Weather	Rain
I28	08 May 2015	Visibility (mi)	3
I28	08 May 2015	Wind Speed (kts)	9
I28	08 May 2015	Wind Dir	SE
I28	08 May 2015	Water Color	Green
I28	08 May 2015	Wave Ht Low (ft)	4
I28	08 May 2015	Wave Period (sec)	9
I28	08 May 2015	Sea State	Light chop
I28	08 May 2015	High Tide (ft)	3.3
I28	08 May 2015	High Tide Time	1339
I28	08 May 2015	Low Tide (ft)	-0.22
I28	08 May 2015	Low Tide Time	706
I28	08 May 2015	Comments	
I29	08 May 2015	Depth (m)	37
I29	08 May 2015	Arrive Time	924
I29	08 May 2015	Depart Time	929
I29	08 May 2015	Air Temp (C)	14
I29	08 May 2015	Weather	Rain
I29	08 May 2015	Visibility (mi)	5
I29	08 May 2015	Wind Speed (kts)	7
I29	08 May 2015	Wind Dir	SW
I29	08 May 2015	Water Color	Green
I29	08 May 2015	Wave Ht Low (ft)	4
I29	08 May 2015	Wave Period (sec)	9
I29	08 May 2015	Sea State	Light chop
I29	08 May 2015	High Tide (ft)	3.3
I29	08 May 2015	High Tide Time	1339
I29	08 May 2015	Low Tide (ft)	-0.22
I29	08 May 2015	Low Tide Time	706
I29	08 May 2015	Comments	
I30	08 May 2015	Depth (m)	28
I30	08 May 2015	Arrive Time	938
I30	08 May 2015	Depart Time	945
I30	08 May 2015	Air Temp (C)	14
I30	08 May 2015	Weather	Rain
I30	08 May 2015	Visibility (mi)	5
I30	08 May 2015	Wind Speed (kts)	6
I30	08 May 2015	Wind Dir	E
I30	08 May 2015	Water Color	Green
I30	08 May 2015	Wave Ht Low (ft)	4
I30	08 May 2015	Wave Period (sec)	9
I30	08 May 2015	Sea State	Light chop
I30	08 May 2015	High Tide (ft)	3.3
I30	08 May 2015	High Tide Time	1339
I30	08 May 2015	Low Tide (ft)	-0.22

Station	Date	Parameter	Value
I30	08 May 2015	Low Tide Time	706
I30	08 May 2015	Comments	
I31	08 May 2015	Depth (m)	20
I31	08 May 2015	Arrive Time	953
I31	08 May 2015	Depart Time	957
I31	08 May 2015	Air Temp (C)	14
I31	08 May 2015	Weather	Rain
I31	08 May 2015	Visibility (mi)	7
I31	08 May 2015	Wind Speed (kts)	3
I31	08 May 2015	Wind Dir	SW
I31	08 May 2015	Water Color	Green
I31	08 May 2015	Wave Ht Low (ft)	4
I31	08 May 2015	Wave Period (sec)	9
I31	08 May 2015	Sea State	Light chop
I31	08 May 2015	High Tide (ft)	3.3
I31	08 May 2015	High Tide Time	1339
I31	08 May 2015	Low Tide (ft)	-0.22
I31	08 May 2015	Low Tide Time	706
I31	08 May 2015	Comments	
I33	08 May 2015	Depth (m)	30
I33	08 May 2015	Arrive Time	840
I33	08 May 2015	Depart Time	844
I33	08 May 2015	Air Temp (C)	13
I33	08 May 2015	Weather	Rain
I33	08 May 2015	Visibility (mi)	3
I33	08 May 2015	Wind Speed (kts)	6
I33	08 May 2015	Wind Dir	NE
I33	08 May 2015	Water Color	Green
I33	08 May 2015	Wave Ht Low (ft)	4
I33	08 May 2015	Wave Period (sec)	9
I33	08 May 2015	Sea State	Light chop
I33	08 May 2015	High Tide (ft)	3.3
I33	08 May 2015	High Tide Time	1339
I33	08 May 2015	Low Tide (ft)	-0.22
I33	08 May 2015	Low Tide Time	706
I33	08 May 2015	Comments	Boats
I34	08 May 2015	Depth (m)	20
I34	08 May 2015	Arrive Time	823
I34	08 May 2015	Depart Time	834
I34	08 May 2015	Air Temp (C)	13
I34	08 May 2015	Weather	Rain
I34	08 May 2015	Visibility (mi)	3
I34	08 May 2015	Wind Speed (kts)	9
I34	08 May 2015	Wind Dir	E

Station	Date	Parameter	Value
I34	08 May 2015	Water Color	Green
I34	08 May 2015	Wave Ht Low (ft)	4
I34	08 May 2015	Wave Period (sec)	9
I34	08 May 2015	Sea State	Light chop
I34	08 May 2015	High Tide (ft)	3.3
I34	08 May 2015	High Tide Time	1339
I34	08 May 2015	Low Tide (ft)	-0.22
I34	08 May 2015	Low Tide Time	706
I34	08 May 2015	Comments	
I35	08 May 2015	Depth (m)	20
I35	08 May 2015	Arrive Time	1045
I35	08 May 2015	Depart Time	1048
I35	08 May 2015	Air Temp (C)	14
I35	08 May 2015	Weather	Rain
I35	08 May 2015	Visibility (mi)	7
I35	08 May 2015	Wind Speed (kts)	12
I35	08 May 2015	Wind Dir	SW
I35	08 May 2015	Water Color	Green
I35	08 May 2015	Wave Ht Low (ft)	4
I35	08 May 2015	Wave Period (sec)	9
I35	08 May 2015	Sea State	Calm
I35	08 May 2015	High Tide (ft)	3.3
I35	08 May 2015	High Tide Time	1339
I35	08 May 2015	Low Tide (ft)	-0.22
I35	08 May 2015	Low Tide Time	706
I35	08 May 2015	Comments	
I36	08 May 2015	Depth (m)	12
I36	08 May 2015	Arrive Time	1030
I36	08 May 2015	Depart Time	1033
I36	08 May 2015	Air Temp (C)	14
I36	08 May 2015	Weather	Rain
I36	08 May 2015	Visibility (mi)	7
I36	08 May 2015	Wind Speed (kts)	8
I36	08 May 2015	Wind Dir	W
I36	08 May 2015	Water Color	Green
I36	08 May 2015	Wave Ht Low (ft)	4
I36	08 May 2015	Wave Period (sec)	9
I36	08 May 2015	Sea State	Calm
I36	08 May 2015	High Tide (ft)	3.3
I36	08 May 2015	High Tide Time	1339
I36	08 May 2015	Low Tide (ft)	-0.22
I36	08 May 2015	Low Tide Time	706
I36	08 May 2015	Comments	
I37	08 May 2015	Depth (m)	12

Station	Date	Parameter	Value
I37	08 May 2015	Arrive Time	804
I37	08 May 2015	Depart Time	811
I37	08 May 2015	Air Temp (C)	13
I37	08 May 2015	Weather	Rain
I37	08 May 2015	Visibility (mi)	3
I37	08 May 2015	Wind Speed (kts)	3
I37	08 May 2015	Wind Dir	NW
I37	08 May 2015	Water Color	Green
I37	08 May 2015	Wave Ht Low (ft)	4
I37	08 May 2015	Wave Period (sec)	9
I37	08 May 2015	Sea State	Light chop
I37	08 May 2015	High Tide (ft)	3.3
I37	08 May 2015	High Tide Time	1339
I37	08 May 2015	Low Tide (ft)	-0.22
I37	08 May 2015	Low Tide Time	706
I37	08 May 2015	Comments	Boats
I38	08 May 2015	Depth (m)	12
I38	08 May 2015	Arrive Time	1100
I38	08 May 2015	Depart Time	1103
I38	08 May 2015	Air Temp (C)	13
I38	08 May 2015	Weather	Rain
I38	08 May 2015	Visibility (mi)	7
I38	08 May 2015	Wind Speed (kts)	8
I38	08 May 2015	Wind Dir	E
I38	08 May 2015	Water Color	Greenish-Brown
I38	08 May 2015	Wave Ht Low (ft)	4
I38	08 May 2015	Wave Period (sec)	9
I38	08 May 2015	Sea State	Calm
I38	08 May 2015	High Tide (ft)	3.3
I38	08 May 2015	High Tide Time	1339
I38	08 May 2015	Low Tide (ft)	-0.22
I38	08 May 2015	Low Tide Time	706
I38	08 May 2015	Comments	none

Table 4.7

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	07 May 2015	1	15.19	81.06	8.4	33.35	8.2	24.7	2.36
I1	07 May 2015	2	15.18	81.16	8.4	33.35	8.2	24.7	2.52
I1	07 May 2015	3	15.18	81.15	8.4	33.36	8.2	24.7	2.73
I1	07 May 2015	4	15.17	81.11	8.3	33.35	8.2	24.7	2.91
I1	07 May 2015	5	15.03	81.03	8.2	33.36	8.2	24.7	2.99
I1	07 May 2015	6	14.98	81.18	8.2	33.36	8.2	24.7	3.11
I1	07 May 2015	7	14.95	81.24	8.2	33.36	8.2	24.7	3.17
I1	07 May 2015	8	14.88	81.40	8.0	33.36	8.2	24.7	3.13
I1	07 May 2015	9	14.58	81.69	7.8	33.34	8.2	24.8	3.19
I1	07 May 2015	10	14.16	82.27	7.7	33.37	8.1	24.9	3.29
I1	07 May 2015	11	14.01	82.08	7.6	33.38	8.1	24.9	3.43
I1	07 May 2015	12	13.76	81.89	7.4	33.35	8.1	25.0	3.49
I1	07 May 2015	13	13.35	82.78	7.2	33.36	8.1	25.1	3.22
I1	07 May 2015	14	12.96	83.15	7.0	33.38	8.1	25.1	2.98
I1	07 May 2015	15	12.65	83.95	6.9	33.38	8.1	25.2	2.88
I1	07 May 2015	16	12.49	84.08	6.8	33.39	8.0	25.2	3.04
I1	07 May 2015	17	12.25	84.23	6.7	33.39	8.0	25.3	2.97
I1	07 May 2015	18	12.22	84.46	6.7	33.39	8.0	25.3	2.95
I1	07 May 2015	19	12.10	84.39	6.6	33.39	8.0	25.3	2.79
I1	07 May 2015	20	12.03	84.97	6.6	33.40	8.0	25.3	2.78
I1	07 May 2015	21	12.01	85.31	6.5	33.40	8.0	25.3	2.69
I1	07 May 2015	22	11.93	85.37	6.5	33.39	8.0	25.4	2.53
I1	07 May 2015	23	11.78	85.80	6.4	33.41	8.0	25.4	2.41
I1	07 May 2015	24	11.71	86.29	6.3	33.41	8.0	25.4	2.26
I1	07 May 2015	25	11.64	86.27	6.2	33.41	8.0	25.4	2.31
I1	07 May 2015	26	11.57	86.35	6.1	33.42	8.0	25.4	2.19
I1	07 May 2015	27	11.51	86.64	6.0	33.42	8.0	25.5	2.08
I1	07 May 2015	28	11.48	86.96	5.9	33.42	8.0	25.5	2.03
I1	07 May 2015	29	11.45	87.03	5.9	33.43	8.0	25.5	1.99
I1	07 May 2015	30	11.39	87.33	5.8	33.44	7.9	25.5	1.89
I1	07 May 2015	31	11.35	87.40	5.6	33.45	7.9	25.5	1.83
I1	07 May 2015	32	11.33	87.65	5.5	33.46	7.9	25.5	1.77
I1	07 May 2015	33	11.30	87.78	5.5	33.47	7.9	25.5	1.72
I1	07 May 2015	34	11.27	87.69	5.4	33.48	7.9	25.5	1.66
I1	07 May 2015	35	11.21	87.61	5.4	33.49	7.9	25.6	1.61
I1	07 May 2015	36	11.19	87.70	5.3	33.49	7.9	25.6	1.55
I1	07 May 2015	37	11.17	87.78	5.3	33.50	7.9	25.6	1.47
I1	07 May 2015	38	11.17	88.04	5.2	33.51	7.9	25.6	1.43
I1	07 May 2015	39	11.15	88.28	5.2	33.51	7.9	25.6	1.37
I1	07 May 2015	40	11.13	88.32	5.2	33.52	7.9	25.6	1.32
I1	07 May 2015	41	11.11	88.54	5.1	33.53	7.9	25.6	1.21
I1	07 May 2015	42	11.08	88.76	5.0	33.54	7.9	25.6	1.10
I1	07 May 2015	43	11.08	89.23	4.9	33.56	7.9	25.6	1.01
I1	07 May 2015	44	11.07	89.42	4.9	33.56	7.9	25.6	0.96
I1	07 May 2015	45	11.04	89.22	4.9	33.57	7.9	25.7	0.91
I1	07 May 2015	46	11.02	89.26	4.8	33.57	7.9	25.7	0.90
I1	07 May 2015	47	11.00	89.10	4.8	33.58	7.9	25.7	0.88
I1	07 May 2015	48	10.98	89.14	4.8	33.58	7.9	25.7	0.81
I1	07 May 2015	49	10.96	89.10	4.7	33.59	7.9	25.7	0.77
I1	07 May 2015	50	10.91	88.99	4.7	33.60	7.9	25.7	0.72
I1	07 May 2015	51	10.88	88.80	4.7	33.61	7.8	25.7	0.70

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I1	07 May 2015	52	10.84	88.63	4.6	33.61	7.8	25.7	0.65
I1	07 May 2015	53	10.79	88.08	4.6	33.62	7.8	25.7	0.64
I1	07 May 2015	54	10.77	87.66	4.6	33.62	7.8	25.7	0.60
I1	07 May 2015	55	10.77	87.63	4.6	33.62	7.8	25.7	0.60
I1	07 May 2015	56	10.76	87.37	4.6	33.62	7.8	25.7	0.58
I1	07 May 2015	57	10.75	87.18	4.6	33.63	7.8	25.8	0.58
I1	07 May 2015	58	10.75	87.18	4.6	33.63	7.8	25.8	0.58
I1	07 May 2015	59	10.75	87.18	4.6	33.63	7.8	25.8	0.57
I2	07 May 2015	1	15.66	79.58	8.5	33.38	8.2	24.6	2.17
I2	07 May 2015	2	15.65	80.28	8.5	33.38	8.2	24.6	2.40
I2	07 May 2015	3	15.65	80.46	8.6	33.38	8.2	24.6	2.64
I2	07 May 2015	4	15.65	80.53	8.6	33.38	8.2	24.6	2.82
I2	07 May 2015	5	15.64	80.39	8.6	33.38	8.2	24.6	3.00
I2	07 May 2015	6	15.63	80.41	8.5	33.38	8.2	24.6	3.10
I2	07 May 2015	7	15.63	80.42	8.6	33.38	8.2	24.6	3.02
I2	07 May 2015	8	15.62	80.38	8.5	33.38	8.2	24.6	3.03
I2	07 May 2015	9	15.59	80.29	8.5	33.38	8.2	24.6	3.17
I2	07 May 2015	10	15.48	80.06	8.5	33.37	8.2	24.6	3.54
I2	07 May 2015	11	15.16	79.61	8.3	33.34	8.2	24.7	4.29
I2	07 May 2015	12	14.38	77.77	8.1	33.29	8.2	24.8	5.96
I2	07 May 2015	13	13.57	74.74	7.9	33.34	8.1	25.0	7.01
I2	07 May 2015	14	13.10	76.44	7.6	33.36	8.1	25.1	7.21
I2	07 May 2015	15	12.79	77.91	7.1	33.33	8.1	25.1	5.83
I2	07 May 2015	16	12.06	82.27	6.4	33.31	8.0	25.3	3.86
I2	07 May 2015	17	11.33	85.58	6.1	33.33	8.0	25.4	2.23
I2	07 May 2015	18	11.06	86.82	6.0	33.38	8.0	25.5	1.83
I2	07 May 2015	19	11.05	86.32	6.0	33.38	8.0	25.5	1.77
I2	07 May 2015	20	11.06	86.09	6.0	33.38	8.0	25.5	1.64
I2	07 May 2015	21	11.04	86.23	6.0	33.39	8.0	25.5	1.56
I2	07 May 2015	22	11.03	86.36	6.0	33.39	8.0	25.5	1.61
I2	07 May 2015	23	11.03	86.22	6.0	33.39	8.0	25.5	1.57
I2	07 May 2015	24	11.03	86.23	6.0	33.40	8.0	25.5	1.51
I2	07 May 2015	25	11.03	86.30	6.0	33.40	8.0	25.5	1.50
I2	07 May 2015	26	11.03	86.37	6.0	33.40	8.0	25.5	1.53
I2	07 May 2015	27	11.02	86.32	5.9	33.40	8.0	25.5	1.47
I2	07 May 2015	28	11.02	86.20	5.9	33.40	8.0	25.5	1.46
I2	07 May 2015	29	11.02	86.16	6.0	33.40	8.0	25.5	1.62
I2	07 May 2015	30	11.02	86.08	5.9	33.40	8.0	25.5	1.50
I2	07 May 2015	31	11.02	86.30	5.9	33.40	8.0	25.5	1.54
I2	07 May 2015	32	11.03	86.12	5.9	33.40	8.0	25.5	1.49
I3	07 May 2015	1	16.26	82.10	8.4	33.40	8.2	24.5	1.25
I3	07 May 2015	2	16.26	82.20	8.3	33.40	8.2	24.5	1.37
I3	07 May 2015	3	16.25	82.20	8.4	33.40	8.2	24.5	1.57
I3	07 May 2015	4	16.24	82.20	8.3	33.40	8.2	24.5	1.78
I3	07 May 2015	5	16.12	81.86	8.4	33.39	8.2	24.5	2.01
I3	07 May 2015	6	15.78	81.26	8.4	33.35	8.2	24.5	2.88
I3	07 May 2015	7	15.04	79.67	8.6	33.36	8.2	24.7	3.70
I3	07 May 2015	8	14.62	78.14	8.6	33.37	8.2	24.8	4.91
I3	07 May 2015	9	14.26	77.01	8.5	33.35	8.2	24.9	6.08
I3	07 May 2015	10	13.92	75.33	7.9	33.34	8.2	24.9	7.63
I3	07 May 2015	11	12.65	73.21	6.9	33.25	8.1	25.1	6.16
I3	07 May 2015	12	11.85	81.70	6.2	33.38	8.0	25.4	4.90
I3	07 May 2015	13	11.82	81.58	6.3	33.37	8.0	25.4	4.18

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
13	07 May 2015	14	11.72	82.76	6.3	33.38	8.0	25.4	3.67
13	07 May 2015	15	11.72	82.66	6.3	33.39	8.0	25.4	3.45
13	07 May 2015	16	11.73	82.68	6.2	33.41	8.0	25.4	3.50
13	07 May 2015	17	11.74	82.18	6.2	33.42	8.0	25.4	3.51
13	07 May 2015	18	11.75	81.84	6.1	33.42	8.0	25.4	3.44
13	07 May 2015	19	11.75	81.89	6.1	33.42	8.0	25.4	3.38
13	07 May 2015	20	11.75	81.88	6.1	33.43	8.0	25.4	3.39
13	07 May 2015	21	11.75	81.76	6.1	33.43	8.0	25.4	3.44
13	07 May 2015	22	11.75	81.72	6.1	33.43	8.0	25.4	3.46
13	07 May 2015	23	11.75	81.57	6.0	33.43	8.0	25.4	3.45
13	07 May 2015	24	11.75	81.61	6.1	33.43	8.0	25.4	3.33
13	07 May 2015	25	11.75	81.68	6.1	33.43	8.0	25.4	3.40
13	07 May 2015	26	11.76	81.74	6.1	33.43	8.0	25.4	3.56
14	07 May 2015	1	16.29	83.46	8.4	33.40	8.2	24.4	0.87
14	07 May 2015	2	16.28	83.49	8.4	33.40	8.2	24.5	0.92
14	07 May 2015	3	16.27	83.41	8.4	33.40	8.2	24.5	1.05
14	07 May 2015	4	16.26	83.28	8.4	33.39	8.2	24.5	1.17
14	07 May 2015	5	16.20	83.08	8.4	33.39	8.2	24.5	1.46
14	07 May 2015	6	16.14	81.93	8.5	33.40	8.2	24.5	1.86
14	07 May 2015	7	16.00	80.79	8.6	33.38	8.2	24.5	2.85
14	07 May 2015	8	15.37	76.77	8.7	33.38	8.2	24.6	4.02
14	07 May 2015	9	14.32	72.43	8.7	33.34	8.2	24.8	5.50
14	07 May 2015	10	13.40	71.22	8.2	33.35	8.2	25.0	7.64
14	07 May 2015	11	12.79	71.88	7.6	33.38	8.1	25.2	8.28
14	07 May 2015	12	12.73	72.99	7.4	33.38	8.1	25.2	8.06
14	07 May 2015	13	12.52	74.24	7.0	33.40	8.1	25.2	7.42
14	07 May 2015	14	12.43	75.65	6.8	33.40	8.1	25.3	6.30
14	07 May 2015	15	12.33	76.45	6.7	33.41	8.0	25.3	5.83
14	07 May 2015	16	12.28	76.62	6.7	33.42	8.0	25.3	5.87
14	07 May 2015	17	12.24	76.15	6.6	33.43	8.0	25.3	5.78
14	07 May 2015	18	12.22	70.31	6.5	33.43	8.0	25.3	6.17
15	07 May 2015	1	16.05	77.97	8.6	33.41	8.2	24.5	1.86
15	07 May 2015	2	16.05	78.27	8.6	33.41	8.2	24.5	1.98
15	07 May 2015	3	16.01	78.04	8.6	33.41	8.2	24.5	2.35
15	07 May 2015	4	15.98	77.70	8.4	33.40	8.2	24.5	2.80
15	07 May 2015	5	15.40	73.92	8.6	33.37	8.2	24.6	3.62
15	07 May 2015	6	14.83	73.07	8.6	33.36	8.2	24.7	4.97
15	07 May 2015	7	13.63	68.97	8.4	33.38	8.2	25.0	7.08
15	07 May 2015	8	13.31	66.77	8.2	33.41	8.1	25.1	7.98
15	07 May 2015	9	13.16	64.31	7.8	33.41	8.1	25.1	8.75
15	07 May 2015	10	13.03	62.26	7.5	33.41	8.1	25.2	8.70
15	07 May 2015	11	12.91	62.69	7.6	33.41	8.1	25.2	8.66
15	07 May 2015	12	12.73	65.52	7.1	33.41	8.1	25.2	9.89
15	07 May 2015	13	12.68	51.88	6.7	33.42	8.0	25.2	11.44
16	07 May 2015	1	15.59	80.02	8.8	33.37	8.2	24.6	0.99
16	07 May 2015	2	15.58	82.18	8.8	33.37	8.2	24.6	1.07
16	07 May 2015	3	15.57	82.31	8.8	33.37	8.2	24.6	1.19
16	07 May 2015	4	15.56	82.29	8.8	33.37	8.2	24.6	1.29
16	07 May 2015	5	15.55	82.22	8.8	33.37	8.2	24.6	1.42
16	07 May 2015	6	15.53	82.21	8.8	33.37	8.2	24.6	1.60
16	07 May 2015	7	15.47	82.19	8.6	33.35	8.2	24.6	1.86
16	07 May 2015	8	14.81	80.94	8.4	33.32	8.2	24.7	2.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
16	07 May 2015	9	13.56	78.40	8.3	33.33	8.2	25.0	5.72
16	07 May 2015	10	13.12	71.16	8.0	33.35	8.1	25.1	9.13
16	07 May 2015	11	12.79	73.66	7.8	33.34	8.1	25.1	9.22
16	07 May 2015	12	12.45	76.76	7.3	33.33	8.1	25.2	8.89
16	07 May 2015	13	12.11	78.73	6.8	33.34	8.1	25.3	7.24
16	07 May 2015	14	11.93	80.43	6.5	33.39	8.0	25.4	5.91
16	07 May 2015	15	11.97	80.49	6.5	33.41	8.0	25.4	5.35
16	07 May 2015	16	11.94	80.36	6.4	33.42	8.0	25.4	5.11
16	07 May 2015	17	11.92	80.64	6.3	33.42	8.0	25.4	4.67
16	07 May 2015	18	11.90	80.44	6.3	33.43	8.0	25.4	4.67
16	07 May 2015	19	11.89	80.27	6.2	33.43	8.0	25.4	4.44
16	07 May 2015	20	11.89	80.34	6.2	33.43	8.0	25.4	4.47
16	07 May 2015	21	11.89	80.14	6.3	33.43	8.0	25.4	4.56
16	07 May 2015	22	11.88	79.89	6.2	33.43	8.0	25.4	4.19
16	07 May 2015	23	11.88	79.91	6.2	33.44	8.0	25.4	4.44
16	07 May 2015	24	11.88	79.64	6.2	33.44	8.0	25.4	4.46
16	07 May 2015	25	11.88	79.28	6.2	33.44	8.0	25.4	4.49
17	07 May 2015	1	15.40	81.04	8.8	33.35	8.2	24.6	2.15
17	07 May 2015	2	15.41	81.03	8.8	33.35	8.2	24.6	2.22
17	07 May 2015	3	15.40	81.07	8.8	33.35	8.2	24.6	2.27
17	07 May 2015	4	15.38	81.05	8.8	33.34	8.2	24.6	2.40
17	07 May 2015	5	15.34	81.01	8.8	33.34	8.2	24.6	2.41
17	07 May 2015	6	15.17	80.81	8.8	33.32	8.2	24.6	2.66
17	07 May 2015	7	14.85	80.46	8.6	33.28	8.2	24.7	3.59
17	07 May 2015	8	13.90	79.56	8.7	33.18	8.2	24.8	5.59
17	07 May 2015	9	13.24	78.12	8.7	33.25	8.2	25.0	7.06
17	07 May 2015	10	13.00	76.88	8.5	33.27	8.1	25.1	10.30
17	07 May 2015	11	12.82	72.99	8.2	33.28	8.1	25.1	13.38
17	07 May 2015	12	12.53	69.74	7.5	33.24	8.1	25.1	11.17
17	07 May 2015	13	12.00	78.64	7.1	33.22	8.1	25.2	6.80
17	07 May 2015	14	11.82	83.56	6.8	33.26	8.0	25.3	4.98
17	07 May 2015	15	11.69	82.87	6.7	33.25	8.0	25.3	3.26
17	07 May 2015	16	11.51	87.45	6.6	33.28	8.0	25.3	2.55
17	07 May 2015	17	11.39	87.60	6.5	33.28	8.0	25.4	2.16
17	07 May 2015	18	11.20	88.25	6.3	33.33	8.0	25.4	1.97
17	07 May 2015	19	11.16	88.41	6.2	33.35	8.0	25.5	1.88
17	07 May 2015	20	11.16	88.44	6.2	33.35	8.0	25.5	1.83
17	07 May 2015	21	11.14	88.59	6.3	33.35	8.0	25.5	1.82
17	07 May 2015	22	11.14	88.61	6.3	33.35	8.0	25.5	1.75
17	07 May 2015	23	11.13	88.68	6.3	33.35	8.0	25.5	1.74
17	07 May 2015	24	11.13	88.80	6.3	33.35	8.0	25.5	1.72
17	07 May 2015	25	11.10	88.86	6.2	33.35	8.0	25.5	1.66
17	07 May 2015	26	11.05	88.93	6.2	33.34	8.0	25.5	1.55
17	07 May 2015	27	10.78	89.66	6.0	33.38	8.0	25.6	1.35
17	07 May 2015	28	10.74	89.83	6.0	33.38	7.9	25.6	1.24
17	07 May 2015	29	10.69	90.05	5.9	33.39	7.9	25.6	1.14
17	07 May 2015	30	10.64	90.06	5.8	33.43	7.9	25.6	1.07
17	07 May 2015	31	10.73	89.62	5.5	33.48	7.9	25.6	1.10
17	07 May 2015	32	10.85	88.15	5.2	33.50	7.9	25.6	1.09
17	07 May 2015	33	10.85	87.71	5.2	33.51	7.9	25.6	1.15
17	07 May 2015	34	10.80	88.06	5.3	33.50	7.9	25.6	1.04
17	07 May 2015	35	10.79	88.56	5.3	33.51	7.9	25.6	1.04
17	07 May 2015	36	10.83	88.92	5.2	33.52	7.9	25.6	1.01
17	07 May 2015	37	10.81	88.98	5.2	33.51	7.9	25.6	1.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
17	07 May 2015	38	10.78	88.96	5.2	33.52	7.9	25.7	1.03
17	07 May 2015	39	10.84	88.91	5.1	33.54	7.9	25.7	0.98
17	07 May 2015	40	10.83	88.87	5.0	33.54	7.9	25.7	0.94
17	07 May 2015	41	10.85	88.85	5.0	33.55	7.9	25.7	0.91
17	07 May 2015	42	10.86	88.83	4.9	33.55	7.9	25.7	0.90
17	07 May 2015	43	10.85	88.85	4.9	33.55	7.9	25.7	0.86
17	07 May 2015	44	10.84	88.86	4.9	33.55	7.9	25.7	0.85
17	07 May 2015	45	10.77	88.91	5.0	33.55	7.9	25.7	0.83
17	07 May 2015	46	10.73	88.87	5.0	33.55	7.9	25.7	0.82
17	07 May 2015	47	10.70	88.99	5.0	33.55	7.9	25.7	0.82
17	07 May 2015	48	10.68	89.02	5.0	33.55	7.9	25.7	0.80
17	07 May 2015	49	10.68	89.06	5.0	33.55	7.9	25.7	0.78
17	07 May 2015	50	10.68	89.00	5.0	33.55	7.9	25.7	0.79
18	07 May 2015	1	15.66	82.87	8.9	33.35	8.2	24.6	0.79
18	07 May 2015	2	15.65	82.94	8.9	33.35	8.2	24.6	0.87
18	07 May 2015	3	15.60	82.95	8.9	33.35	8.2	24.6	0.93
18	07 May 2015	4	15.55	82.63	8.9	33.35	8.2	24.6	1.07
18	07 May 2015	5	15.48	82.47	8.9	33.34	8.2	24.6	1.41
18	07 May 2015	6	15.34	81.58	8.9	33.35	8.2	24.6	2.18
18	07 May 2015	7	15.15	79.43	8.7	33.35	8.2	24.7	3.21
18	07 May 2015	8	14.96	77.98	8.6	33.35	8.2	24.7	3.84
18	07 May 2015	9	14.82	78.28	8.6	33.33	8.2	24.7	4.32
18	07 May 2015	10	14.59	78.27	8.6	33.34	8.2	24.8	4.70
18	07 May 2015	11	14.21	77.80	8.5	33.31	8.2	24.8	5.22
18	07 May 2015	12	13.75	76.59	8.4	33.33	8.2	24.9	6.05
18	07 May 2015	13	13.10	77.06	7.8	33.32	8.1	25.1	6.23
18	07 May 2015	14	12.77	79.42	7.3	33.34	8.1	25.2	5.97
18	07 May 2015	15	12.41	81.05	7.0	33.32	8.1	25.2	5.04
18	07 May 2015	16	11.83	83.72	6.5	33.30	8.0	25.3	3.73
18	07 May 2015	17	11.38	85.45	6.2	33.37	8.0	25.4	3.00
18	07 May 2015	18	11.24	86.09	6.1	33.38	8.0	25.5	2.45
18	07 May 2015	19	11.20	86.04	6.0	33.39	8.0	25.5	2.59
18	07 May 2015	20	11.18	86.20	6.0	33.39	8.0	25.5	2.45
18	07 May 2015	21	11.17	86.18	6.0	33.39	8.0	25.5	2.21
18	07 May 2015	22	11.16	86.07	6.0	33.39	8.0	25.5	2.14
18	07 May 2015	23	11.13	86.14	6.0	33.40	8.0	25.5	2.07
18	07 May 2015	24	11.10	86.19	6.0	33.40	8.0	25.5	2.09
18	07 May 2015	25	11.07	86.32	6.0	33.40	8.0	25.5	1.96
18	07 May 2015	26	11.07	86.43	6.0	33.40	8.0	25.5	1.94
18	07 May 2015	27	11.06	86.37	6.0	33.40	8.0	25.5	1.90
18	07 May 2015	28	11.05	86.39	5.9	33.40	8.0	25.5	1.94
18	07 May 2015	29	11.04	86.32	6.0	33.40	8.0	25.5	2.04
18	07 May 2015	30	11.00	86.47	5.9	33.40	8.0	25.5	1.83
18	07 May 2015	31	10.96	86.67	5.9	33.40	8.0	25.5	1.67
18	07 May 2015	32	10.95	86.67	6.0	33.40	8.0	25.5	1.68
18	07 May 2015	33	10.95	86.66	5.9	33.40	8.0	25.5	1.65
18	07 May 2015	34	10.93	86.01	5.9	33.40	8.0	25.5	1.57
18	07 May 2015	35	10.93	85.81	5.9	33.40	8.0	25.5	1.66
18	07 May 2015	36	10.93	85.53	5.9	33.40	8.0	25.5	1.76
19	07 May 2015	1	15.68	80.08	8.7	33.36	8.2	24.6	1.09
19	07 May 2015	2	15.65	80.81	8.8	33.37	8.2	24.6	1.23
19	07 May 2015	3	15.64	80.84	8.7	33.37	8.2	24.6	1.36
19	07 May 2015	4	15.64	80.95	8.8	33.37	8.2	24.6	1.48

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I9	07 May 2015	5	15.63	80.77	8.8	33.37	8.2	24.6	1.69
I9	07 May 2015	6	15.62	80.77	8.8	33.37	8.2	24.6	1.87
I9	07 May 2015	7	15.58	80.67	8.8	33.36	8.2	24.6	2.13
I9	07 May 2015	8	15.46	80.59	8.8	33.35	8.2	24.6	2.30
I9	07 May 2015	9	15.13	80.71	8.7	33.36	8.2	24.7	2.45
I9	07 May 2015	10	14.46	79.73	8.5	33.30	8.2	24.8	2.94
I9	07 May 2015	11	13.61	77.00	8.6	33.35	8.2	25.0	4.23
I9	07 May 2015	12	13.38	75.81	8.4	33.33	8.2	25.0	5.77
I9	07 May 2015	13	13.04	75.12	8.2	33.32	8.2	25.1	6.63
I9	07 May 2015	14	12.66	75.89	7.8	33.34	8.1	25.2	7.38
I9	07 May 2015	15	12.47	78.30	7.6	33.33	8.1	25.2	7.40
I9	07 May 2015	16	12.18	79.13	7.2	33.32	8.1	25.2	6.99
I9	07 May 2015	17	11.78	81.45	6.6	33.35	8.0	25.4	5.41
I9	07 May 2015	18	11.64	83.35	6.1	33.41	8.0	25.4	4.32
I9	07 May 2015	19	11.64	82.95	6.1	33.41	8.0	25.4	3.87
I9	07 May 2015	20	11.65	82.73	6.1	33.42	8.0	25.4	3.66
I9	07 May 2015	21	11.65	82.55	6.1	33.42	8.0	25.4	3.67
I9	07 May 2015	22	11.65	82.25	6.1	33.42	8.0	25.4	3.75
I9	07 May 2015	23	11.65	82.21	6.1	33.43	8.0	25.4	3.66
I9	07 May 2015	24	11.65	81.92	6.1	33.43	8.0	25.4	3.46
I9	07 May 2015	25	11.65	81.93	6.1	33.43	8.0	25.4	3.45
I9	07 May 2015	26	11.65	81.83	6.0	33.43	8.0	25.4	3.49
I9	07 May 2015	27	11.65	81.53	6.0	33.43	8.0	25.4	3.44
I9	07 May 2015	28	11.65	80.86	6.0	33.43	8.0	25.4	3.32
I9	07 May 2015	29	11.64	81.20	6.0	33.43	8.0	25.4	3.40
I10	07 May 2015	1	15.76	77.63	8.6	33.40	8.2	24.6	1.32
I10	07 May 2015	2	15.74	77.83	8.6	33.40	8.2	24.6	1.41
I10	07 May 2015	3	15.73	77.71	8.7	33.40	8.2	24.6	1.63
I10	07 May 2015	4	15.71	77.31	8.7	33.40	8.2	24.6	1.83
I10	07 May 2015	5	15.68	77.06	8.7	33.40	8.2	24.6	2.18
I10	07 May 2015	6	15.65	76.52	8.4	33.39	8.2	24.6	2.88
I10	07 May 2015	7	14.49	72.17	7.8	33.32	8.2	24.8	4.94
I10	07 May 2015	8	13.35	67.47	7.4	33.38	8.1	25.1	5.90
I10	07 May 2015	9	13.06	67.65	7.2	33.39	8.1	25.1	5.91
I10	07 May 2015	10	12.87	67.69	7.2	33.39	8.1	25.2	6.52
I10	07 May 2015	11	12.73	68.20	7.2	33.40	8.1	25.2	6.76
I10	07 May 2015	12	12.58	69.47	7.1	33.39	8.1	25.2	6.23
I10	07 May 2015	13	12.37	70.37	6.9	33.40	8.0	25.3	5.93
I10	07 May 2015	14	12.24	69.46	6.7	33.41	8.0	25.3	5.60
I10	07 May 2015	15	12.20	69.44	6.6	33.41	8.0	25.3	5.42
I10	07 May 2015	16	12.18	67.44	6.6	33.41	8.0	25.3	5.50
I10	07 May 2015	17	12.18	66.34	6.6	33.42	8.0	25.3	5.73
I10	07 May 2015	18	12.18	66.03	6.6	33.42	8.0	25.3	5.76
I10	07 May 2015	19	12.19	63.34	6.6	33.42	8.0	25.3	5.95
I11	07 May 2015	1	15.72	66.48	8.6	33.39	8.2	24.6	2.52
I11	07 May 2015	2	15.71	66.00	8.6	33.38	8.2	24.6	3.15
I11	07 May 2015	3	15.67	67.24	8.7	33.39	8.2	24.6	4.01
I11	07 May 2015	4	15.64	70.37	8.6	33.39	8.2	24.6	4.56
I11	07 May 2015	5	15.63	70.00	8.6	33.39	8.2	24.6	4.56
I11	07 May 2015	6	15.62	70.46	8.6	33.39	8.2	24.6	4.41
I11	07 May 2015	7	15.54	70.84	8.4	33.39	8.2	24.6	4.27
I11	07 May 2015	8	15.44	69.89	8.3	33.38	8.2	24.6	4.45
I11	07 May 2015	9	15.29	68.13	7.8	33.39	8.2	24.6	4.35

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I11	07 May 2015	10	14.05	67.22	7.3	33.38	8.1	24.9	4.67
I11	07 May 2015	11	13.48	60.35	7.1	33.40	8.1	25.1	5.02
I11	07 May 2015	12	13.38	57.53	7.0	33.39	8.1	25.1	4.73
I11	07 May 2015	13	13.22	56.84	7.0	33.40	8.0	25.1	4.62
I12	06 May 2015	1	15.91	81.08	9.0	33.37	8.2	24.5	0.76
I12	06 May 2015	2	15.81	80.91	9.0	33.37	8.2	24.5	0.83
I12	06 May 2015	3	15.71	80.45	9.0	33.38	8.2	24.6	0.96
I12	06 May 2015	4	15.59	79.76	9.0	33.39	8.2	24.6	1.14
I12	06 May 2015	5	15.55	79.43	9.0	33.39	8.2	24.6	1.28
I12	06 May 2015	6	15.46	78.99	8.9	33.39	8.2	24.6	1.58
I12	06 May 2015	7	15.41	78.19	9.0	33.39	8.2	24.6	1.78
I12	06 May 2015	8	15.39	77.90	8.9	33.39	8.2	24.6	1.99
I12	06 May 2015	9	15.30	77.58	8.8	33.38	8.2	24.7	2.35
I12	06 May 2015	10	14.95	76.70	8.6	33.36	8.2	24.7	3.28
I12	06 May 2015	11	14.04	72.69	8.2	33.34	8.2	24.9	6.18
I12	06 May 2015	12	13.04	64.43	7.9	33.37	8.1	25.1	8.58
I12	06 May 2015	13	12.64	65.70	7.7	33.37	8.1	25.2	8.49
I12	06 May 2015	14	12.41	70.63	7.4	33.37	8.1	25.2	7.64
I12	06 May 2015	15	12.23	74.34	7.0	33.38	8.0	25.3	6.63
I12	06 May 2015	16	12.05	76.87	6.6	33.38	8.0	25.3	5.81
I12	06 May 2015	17	11.73	79.44	6.1	33.39	8.0	25.4	4.65
I12	06 May 2015	18	11.53	81.91	5.6	33.44	8.0	25.5	3.91
I12	06 May 2015	19	11.52	82.41	5.5	33.45	7.9	25.5	3.20
I12	06 May 2015	20	11.51	82.22	5.5	33.46	7.9	25.5	2.91
I12	06 May 2015	21	11.51	82.07	5.6	33.46	7.9	25.5	2.82
I12	06 May 2015	22	11.51	81.81	5.6	33.47	7.9	25.5	2.82
I12	06 May 2015	23	11.51	81.61	5.5	33.47	7.9	25.5	2.80
I12	06 May 2015	24	11.52	80.46	5.5	33.47	7.9	25.5	2.68
I12	06 May 2015	25	11.52	80.72	5.5	33.47	7.9	25.5	2.70
I12	06 May 2015	26	11.52	80.51	5.5	33.47	7.9	25.5	2.67
I12	06 May 2015	27	11.52	79.98	5.5	33.48	7.9	25.5	2.72
I12	06 May 2015	28	11.52	79.69	5.5	33.48	7.9	25.5	2.75
I13	07 May 2015	1	15.33	79.27	8.6	33.36	8.2	24.6	1.42
I13	07 May 2015	2	15.18	80.31	8.8	33.35	8.2	24.7	1.71
I13	07 May 2015	3	15.13	80.37	8.8	33.35	8.2	24.7	2.09
I13	07 May 2015	4	15.03	79.94	8.8	33.34	8.2	24.7	2.70
I13	07 May 2015	5	14.83	79.38	8.5	33.35	8.2	24.7	3.30
I13	07 May 2015	6	13.98	78.79	8.4	33.33	8.2	24.9	4.01
I13	07 May 2015	7	13.79	79.51	8.2	33.33	8.2	24.9	3.89
I13	07 May 2015	8	13.69	80.10	8.2	33.34	8.1	25.0	4.25
I13	07 May 2015	9	13.46	80.65	8.2	33.33	8.1	25.0	4.78
I13	07 May 2015	10	13.33	80.08	8.3	33.33	8.1	25.0	5.87
I13	07 May 2015	11	13.18	78.72	8.2	33.34	8.1	25.1	6.24
I13	07 May 2015	12	13.16	79.64	8.1	33.35	8.1	25.1	5.80
I13	07 May 2015	13	13.07	80.29	7.9	33.35	8.1	25.1	5.40
I13	07 May 2015	14	12.86	80.42	7.5	33.35	8.1	25.1	5.25
I13	07 May 2015	15	12.46	81.72	7.0	33.34	8.1	25.2	4.47
I13	07 May 2015	16	11.89	83.63	6.6	33.34	8.0	25.3	3.26
I13	07 May 2015	17	11.34	85.60	6.2	33.37	8.0	25.4	2.64
I13	07 May 2015	18	11.17	86.19	6.0	33.39	8.0	25.5	2.46
I13	07 May 2015	19	11.13	86.27	6.0	33.39	8.0	25.5	2.33
I13	07 May 2015	20	11.10	86.27	6.0	33.39	8.0	25.5	2.31
I13	07 May 2015	21	11.09	86.37	6.0	33.39	8.0	25.5	2.20

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I13	07 May 2015	22	11.07	86.44	6.0	33.40	8.0	25.5	2.02
I13	07 May 2015	23	11.06	86.46	6.0	33.40	8.0	25.5	2.06
I13	07 May 2015	24	11.01	86.70	6.0	33.40	8.0	25.5	1.86
I13	07 May 2015	25	10.99	86.86	6.0	33.40	8.0	25.5	1.85
I13	07 May 2015	26	10.98	86.90	6.0	33.40	8.0	25.5	1.83
I13	07 May 2015	27	10.97	86.91	5.9	33.40	8.0	25.5	1.74
I13	07 May 2015	28	10.96	86.89	5.9	33.40	8.0	25.5	1.75
I13	07 May 2015	29	10.96	86.89	5.9	33.40	7.9	25.5	1.70
I13	07 May 2015	30	10.96	86.72	5.9	33.41	7.9	25.5	1.73
I13	07 May 2015	31	10.96	86.42	5.9	33.41	7.9	25.5	1.80
I13	07 May 2015	32	10.98	85.65	5.8	33.41	7.9	25.5	1.79
I13	07 May 2015	33	10.99	85.03	5.8	33.42	7.9	25.5	1.82
I13	07 May 2015	34	10.99	85.44	5.8	33.42	7.9	25.5	1.74
I13	07 May 2015	35	10.98	85.49	5.8	33.42	7.9	25.5	1.76
I13	07 May 2015	36	10.98	85.23	5.8	33.41	7.9	25.5	1.77
I13	07 May 2015	37	10.98	85.26	5.8	33.41	7.9	25.5	1.74
I13	07 May 2015	38	10.98	85.54	5.8	33.41	7.9	25.5	1.80
I14	06 May 2015	1	15.91	80.75	9.1	33.37	8.2	24.5	0.63
I14	06 May 2015	2	15.90	80.82	9.1	33.37	8.2	24.5	0.66
I14	06 May 2015	3	15.82	80.97	9.0	33.37	8.2	24.5	0.75
I14	06 May 2015	4	15.56	80.68	8.9	33.38	8.2	24.6	0.87
I14	06 May 2015	5	15.46	79.50	9.0	33.40	8.2	24.6	0.98
I14	06 May 2015	6	15.45	78.53	8.9	33.40	8.2	24.6	1.13
I14	06 May 2015	7	15.44	78.35	8.9	33.40	8.2	24.6	1.26
I14	06 May 2015	8	15.43	78.34	8.9	33.39	8.2	24.6	1.40
I14	06 May 2015	9	15.38	78.10	8.8	33.39	8.2	24.6	1.67
I14	06 May 2015	10	15.27	77.96	8.8	33.40	8.2	24.7	2.00
I14	06 May 2015	11	15.14	77.53	8.7	33.38	8.2	24.7	2.54
I14	06 May 2015	12	14.70	76.78	8.6	33.37	8.2	24.8	3.51
I14	06 May 2015	13	13.79	74.48	8.3	33.37	8.2	24.9	5.53
I14	06 May 2015	14	12.71	68.72	7.8	33.39	8.1	25.2	7.70
I14	06 May 2015	15	12.58	68.51	7.6	33.39	8.1	25.2	7.90
I14	06 May 2015	16	12.42	69.83	7.3	33.39	8.1	25.3	7.49
I14	06 May 2015	17	12.29	72.03	7.1	33.39	8.1	25.3	6.56
I14	06 May 2015	18	12.05	74.76	6.4	33.41	8.0	25.3	5.63
I14	06 May 2015	19	11.84	77.50	6.0	33.43	8.0	25.4	4.86
I14	06 May 2015	20	11.83	79.13	5.9	33.45	8.0	25.4	4.37
I14	06 May 2015	21	11.85	79.37	5.9	33.46	8.0	25.4	4.34
I14	06 May 2015	22	11.85	79.45	5.8	33.47	8.0	25.4	3.93
I14	06 May 2015	23	11.78	79.67	5.8	33.46	7.9	25.4	3.64
I14	06 May 2015	24	11.72	80.52	5.6	33.47	7.9	25.5	3.33
I14	06 May 2015	25	11.70	80.05	5.5	33.48	7.9	25.5	3.15
I14	06 May 2015	26	11.69	79.46	5.5	33.48	7.9	25.5	3.01
I14	06 May 2015	27	11.69	78.50	5.5	33.48	7.9	25.5	3.07
I14	06 May 2015	28	11.68	77.89	5.5	33.48	7.9	25.5	3.09
I15	06 May 2015	1	15.75	80.76	9.1	33.35	8.2	24.5	0.68
I15	06 May 2015	2	15.72	80.75	9.2	33.36	8.2	24.5	0.71
I15	06 May 2015	3	15.72	81.18	9.2	33.36	8.2	24.5	0.73
I15	06 May 2015	4	15.68	80.85	9.2	33.36	8.2	24.6	0.83
I15	06 May 2015	5	15.66	80.27	9.1	33.37	8.2	24.6	0.94
I15	06 May 2015	6	15.63	79.93	9.0	33.37	8.2	24.6	1.10
I15	06 May 2015	7	15.53	79.19	9.0	33.38	8.2	24.6	1.31
I15	06 May 2015	8	15.45	78.96	9.0	33.38	8.2	24.6	1.54

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I15	06 May 2015	9	15.35	78.00	9.0	33.38	8.2	24.6	1.83
I15	06 May 2015	10	15.24	77.25	8.9	33.39	8.2	24.7	2.15
I15	06 May 2015	11	15.12	76.88	8.8	33.36	8.2	24.7	2.48
I15	06 May 2015	12	14.55	75.54	8.6	33.36	8.2	24.8	3.20
I15	06 May 2015	13	13.64	74.16	8.0	33.34	8.2	25.0	4.17
I15	06 May 2015	14	12.93	75.70	7.0	33.28	8.1	25.1	4.19
I15	06 May 2015	15	12.36	76.60	6.6	33.26	8.0	25.2	4.41
I15	06 May 2015	16	12.05	76.99	6.4	33.27	8.0	25.2	4.34
I15	06 May 2015	17	11.75	79.45	5.9	33.31	8.0	25.3	3.67
I15	06 May 2015	18	11.69	80.46	5.9	33.34	8.0	25.4	3.76
I15	06 May 2015	19	11.70	80.35	5.9	33.36	8.0	25.4	3.44
I15	06 May 2015	20	11.60	81.18	5.7	33.39	7.9	25.4	3.17
I15	06 May 2015	21	11.56	82.05	5.6	33.42	7.9	25.4	3.15
I15	06 May 2015	22	11.55	82.24	5.6	33.44	7.9	25.5	3.07
I15	06 May 2015	23	11.53	82.28	5.6	33.44	7.9	25.5	2.99
I15	06 May 2015	24	11.52	82.51	5.5	33.45	7.9	25.5	2.87
I15	06 May 2015	25	11.51	82.50	5.5	33.46	7.9	25.5	2.77
I15	06 May 2015	26	11.48	82.75	5.5	33.47	7.9	25.5	2.76
I15	06 May 2015	27	11.45	83.34	5.5	33.48	7.9	25.5	2.69
I15	06 May 2015	28	11.45	83.07	5.4	33.48	7.9	25.5	2.61
I15	06 May 2015	29	11.45	82.66	5.4	33.48	7.9	25.5	2.52
I15	06 May 2015	30	11.45	82.32	5.4	33.48	7.9	25.5	2.45
I15	06 May 2015	31	11.45	81.99	5.4	33.48	7.9	25.5	2.52
I16	06 May 2015	1	15.76	79.96	9.0	33.38	8.2	24.6	0.68
I16	06 May 2015	2	15.72	80.04	9.0	33.38	8.2	24.6	0.72
I16	06 May 2015	3	15.66	79.90	9.0	33.38	8.2	24.6	0.79
I16	06 May 2015	4	15.60	79.79	9.0	33.39	8.2	24.6	0.89
I16	06 May 2015	5	15.58	79.37	9.0	33.39	8.2	24.6	1.03
I16	06 May 2015	6	15.57	79.38	9.0	33.39	8.2	24.6	1.16
I16	06 May 2015	7	15.53	79.12	8.9	33.39	8.2	24.6	1.32
I16	06 May 2015	8	15.48	78.75	8.9	33.39	8.2	24.6	1.47
I16	06 May 2015	9	15.43	78.48	8.9	33.40	8.2	24.6	1.65
I16	06 May 2015	10	15.39	78.27	8.8	33.39	8.2	24.6	1.86
I16	06 May 2015	11	15.30	78.13	8.8	33.38	8.2	24.7	2.27
I16	06 May 2015	12	15.09	77.66	8.8	33.39	8.2	24.7	2.45
I16	06 May 2015	13	14.98	76.99	8.8	33.39	8.2	24.7	2.80
I16	06 May 2015	14	14.78	76.45	8.6	33.36	8.2	24.8	3.42
I16	06 May 2015	15	13.74	74.41	8.3	33.37	8.2	24.9	5.34
I16	06 May 2015	16	12.84	71.87	7.8	33.38	8.1	25.1	7.29
I16	06 May 2015	17	12.44	69.86	7.4	33.37	8.1	25.2	7.41
I16	06 May 2015	18	12.28	72.75	7.1	33.39	8.0	25.3	7.00
I16	06 May 2015	19	12.22	75.43	7.0	33.40	8.0	25.3	6.33
I16	06 May 2015	20	12.10	76.81	6.7	33.40	8.0	25.3	5.79
I16	06 May 2015	21	12.00	77.73	6.5	33.41	8.0	25.4	5.41
I16	06 May 2015	22	11.86	78.96	6.2	33.41	8.0	25.4	4.61
I16	06 May 2015	23	11.62	81.16	5.8	33.44	8.0	25.4	3.47
I16	06 May 2015	24	11.56	82.49	5.6	33.45	7.9	25.5	3.32
I16	06 May 2015	25	11.54	82.61	5.6	33.46	7.9	25.5	2.98
I16	06 May 2015	26	11.53	82.57	5.5	33.47	7.9	25.5	2.82
I16	06 May 2015	27	11.53	82.28	5.5	33.47	7.9	25.5	2.79
I16	06 May 2015	28	11.53	82.16	5.5	33.47	7.9	25.5	2.67
I17	06 May 2015	1	15.41	78.63	8.8	33.39	8.2	24.6	1.06
I17	06 May 2015	2	15.40	78.67	8.8	33.39	8.2	24.6	1.15

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I17	06 May 2015	3	15.39	78.62	8.8	33.39	8.2	24.6	1.27
I17	06 May 2015	4	15.34	78.49	8.7	33.39	8.2	24.7	1.63
I17	06 May 2015	5	15.15	77.90	8.5	33.38	8.2	24.7	2.64
I17	06 May 2015	6	13.75	75.45	8.4	33.35	8.2	24.9	5.15
I17	06 May 2015	7	12.94	69.80	7.9	33.36	8.1	25.1	6.94
I17	06 May 2015	8	12.60	68.26	7.6	33.39	8.1	25.2	7.57
I17	06 May 2015	9	12.53	69.84	7.2	33.39	8.1	25.2	7.46
I17	06 May 2015	10	12.37	71.60	7.1	33.38	8.0	25.3	6.92
I17	06 May 2015	11	12.16	74.38	6.6	33.38	8.0	25.3	5.92
I17	06 May 2015	12	11.89	78.26	6.1	33.42	8.0	25.4	5.15
I17	06 May 2015	13	11.79	79.81	6.0	33.43	8.0	25.4	4.67
I17	06 May 2015	14	11.80	80.45	5.9	33.45	7.9	25.4	4.40
I17	06 May 2015	15	11.82	79.88	5.8	33.46	7.9	25.4	4.02
I17	06 May 2015	16	11.83	79.85	5.8	33.46	7.9	25.4	4.02
I17	06 May 2015	17	11.81	79.63	5.8	33.46	7.9	25.4	3.84
I17	06 May 2015	18	11.77	80.22	5.8	33.47	7.9	25.4	3.70
I17	06 May 2015	19	11.74	80.65	5.7	33.46	7.9	25.4	3.56
I17	06 May 2015	20	11.64	81.36	5.6	33.47	7.9	25.5	3.27
I17	06 May 2015	21	11.63	81.70	5.5	33.47	7.9	25.5	3.11
I17	06 May 2015	22	11.63	81.22	5.5	33.48	7.9	25.5	2.86
I17	06 May 2015	23	11.64	80.70	5.5	33.48	7.9	25.5	2.93
I17	06 May 2015	24	11.64	80.43	5.5	33.48	7.9	25.5	2.92
I17	06 May 2015	25	11.65	79.71	5.5	33.48	7.9	25.5	2.96
I18	06 May 2015	1	15.42	71.06	8.9	33.40	8.2	24.6	1.33
I18	06 May 2015	2	15.40	73.54	8.9	33.41	8.2	24.7	1.48
I18	06 May 2015	3	15.29	73.37	8.9	33.40	8.2	24.7	2.17
I18	06 May 2015	4	14.84	71.38	8.8	33.37	8.2	24.8	3.73
I18	06 May 2015	5	14.17	67.57	8.6	33.39	8.1	24.9	5.11
I18	06 May 2015	6	13.93	67.80	8.5	33.38	8.1	25.0	6.34
I18	06 May 2015	7	13.69	66.90	8.2	33.40	8.1	25.0	6.76
I18	06 May 2015	8	13.58	68.33	7.9	33.39	8.1	25.0	6.02
I18	06 May 2015	9	13.27	69.68	7.6	33.39	8.1	25.1	5.51
I18	06 May 2015	10	12.97	70.17	7.3	33.40	8.0	25.2	5.30
I18	06 May 2015	11	12.48	70.55	6.7	33.39	8.0	25.2	4.74
I18	06 May 2015	12	12.32	68.67	6.6	33.41	8.0	25.3	4.42
I18	06 May 2015	13	12.29	68.57	6.6	33.41	8.0	25.3	4.23
I18	06 May 2015	14	12.26	69.32	6.6	33.42	8.0	25.3	4.25
I18	06 May 2015	15	12.25	69.86	6.5	33.43	8.0	25.3	4.30
I18	06 May 2015	16	12.23	71.45	6.5	33.44	8.0	25.3	4.42
I18	06 May 2015	17	12.22	71.72	6.4	33.45	8.0	25.3	4.23
I18	06 May 2015	18	12.21	71.53	6.4	33.45	8.0	25.3	4.36
I18	06 May 2015	19	12.21	70.80	6.4	33.45	8.0	25.3	4.36
I20	07 May 2015	1	15.53	80.06	9.0	33.35	8.2	24.6	1.92
I20	07 May 2015	2	15.50	80.82	9.0	33.35	8.2	24.6	2.16
I20	07 May 2015	3	15.17	81.86	8.9	33.29	8.2	24.6	2.53
I20	07 May 2015	4	14.38	81.78	9.0	33.29	8.2	24.8	3.09
I20	07 May 2015	5	13.75	81.66	9.0	33.24	8.2	24.9	3.55
I20	07 May 2015	6	12.99	81.38	9.4	33.23	8.2	25.0	4.26
I20	07 May 2015	7	12.69	80.77	10.0	33.23	8.2	25.1	6.01
I20	07 May 2015	8	12.42	77.87	8.3	33.22	8.2	25.1	25.12
I20	07 May 2015	9	12.16	57.44	7.2	33.24	8.1	25.2	32.21
I20	07 May 2015	10	12.02	56.58	7.0	33.24	8.0	25.2	14.80
I20	07 May 2015	11	11.87	79.61	6.9	33.26	8.0	25.3	6.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I20	07 May 2015	12	11.75	84.84	6.9	33.26	8.0	25.3	3.69
I20	07 May 2015	13	11.69	85.96	6.8	33.27	8.0	25.3	3.04
I20	07 May 2015	14	11.67	85.49	6.8	33.27	8.0	25.3	2.87
I20	07 May 2015	15	11.64	86.96	6.8	33.27	8.0	25.3	2.57
I20	07 May 2015	16	11.61	87.14	6.8	33.27	8.0	25.3	2.33
I20	07 May 2015	17	11.44	88.00	6.6	33.28	8.0	25.4	2.17
I20	07 May 2015	18	11.35	88.23	6.5	33.30	8.0	25.4	2.15
I20	07 May 2015	19	11.27	88.23	6.4	33.29	8.0	25.4	1.94
I20	07 May 2015	20	11.03	89.00	6.3	33.32	8.0	25.5	1.76
I20	07 May 2015	21	10.99	89.50	6.3	33.33	8.0	25.5	1.56
I20	07 May 2015	22	10.99	89.58	6.3	33.34	8.0	25.5	1.46
I20	07 May 2015	23	10.99	89.60	6.3	33.34	8.0	25.5	1.47
I20	07 May 2015	24	10.99	89.57	6.3	33.34	8.0	25.5	1.55
I20	07 May 2015	25	11.01	89.60	6.2	33.35	7.9	25.5	1.49
I20	07 May 2015	26	11.03	89.47	6.1	33.37	7.9	25.5	1.46
I20	07 May 2015	27	11.00	89.47	6.0	33.38	7.9	25.5	1.54
I20	07 May 2015	28	10.92	89.59	6.0	33.39	7.9	25.5	1.37
I20	07 May 2015	29	10.82	89.78	6.0	33.38	7.9	25.5	1.26
I20	07 May 2015	30	10.72	89.95	6.0	33.37	7.9	25.6	1.19
I20	07 May 2015	31	10.68	90.05	6.1	33.37	7.9	25.6	1.13
I20	07 May 2015	32	10.63	90.29	6.1	33.37	7.9	25.6	1.06
I20	07 May 2015	33	10.61	90.29	6.1	33.37	7.9	25.6	1.05
I20	07 May 2015	34	10.66	90.31	6.0	33.42	7.9	25.6	1.08
I20	07 May 2015	35	10.94	89.32	5.3	33.51	7.9	25.6	1.06
I20	07 May 2015	36	10.97	89.05	5.1	33.52	7.9	25.6	1.06
I20	07 May 2015	37	10.94	89.05	5.2	33.51	7.9	25.6	1.02
I20	07 May 2015	38	10.94	89.26	5.2	33.53	7.9	25.6	1.02
I20	07 May 2015	39	11.01	89.03	5.0	33.54	7.9	25.6	0.97
I20	07 May 2015	40	11.02	88.92	4.9	33.55	7.9	25.6	0.95
I20	07 May 2015	41	11.02	88.88	4.9	33.55	7.8	25.6	0.94
I20	07 May 2015	42	11.01	88.82	4.9	33.56	7.8	25.6	0.95
I20	07 May 2015	43	10.99	88.84	4.9	33.56	7.8	25.7	0.91
I20	07 May 2015	44	10.93	88.75	4.8	33.57	7.8	25.7	0.83
I20	07 May 2015	45	10.92	88.76	4.8	33.58	7.8	25.7	0.77
I20	07 May 2015	46	10.84	89.09	4.8	33.58	7.8	25.7	0.70
I20	07 May 2015	47	10.80	89.19	4.8	33.58	7.8	25.7	0.70
I20	07 May 2015	48	10.79	89.14	4.8	33.58	7.8	25.7	0.71
I20	07 May 2015	49	10.77	89.11	4.8	33.58	7.8	25.7	0.69
I20	07 May 2015	50	10.73	89.06	4.8	33.58	7.8	25.7	0.69
I20	07 May 2015	51	10.73	89.03	4.8	33.58	7.8	25.7	0.70
I20	07 May 2015	52	10.72	89.05	4.8	33.58	7.8	25.7	0.70
I20	07 May 2015	53	10.72	89.01	4.8	33.58	7.8	25.7	0.69
I20	07 May 2015	54	10.73	88.98	4.8	33.58	7.8	25.7	0.71
I21	07 May 2015	1	15.66	82.49	8.9	33.35	8.2	24.6	0.95
I21	07 May 2015	2	15.63	82.48	9.0	33.36	8.2	24.6	1.03
I21	07 May 2015	3	15.64	82.35	8.9	33.36	8.2	24.6	1.15
I21	07 May 2015	4	15.61	82.22	8.9	33.36	8.2	24.6	1.30
I21	07 May 2015	5	15.59	82.23	8.9	33.36	8.2	24.6	1.45
I21	07 May 2015	6	15.55	81.96	8.8	33.36	8.2	24.6	1.73
I21	07 May 2015	7	15.49	81.40	8.8	33.35	8.2	24.6	2.49
I21	07 May 2015	8	15.31	79.90	8.7	33.36	8.2	24.6	3.33
I21	07 May 2015	9	15.24	79.03	8.7	33.35	8.2	24.7	3.93
I21	07 May 2015	10	15.07	78.33	8.6	33.35	8.2	24.7	4.81
I21	07 May 2015	11	14.54	78.51	8.3	33.32	8.2	24.8	5.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I21	07 May 2015	12	14.06	79.36	8.0	33.32	8.2	24.9	5.10
I21	07 May 2015	13	13.31	80.97	8.0	33.27	8.2	25.0	5.43
I21	07 May 2015	14	12.83	81.69	8.0	33.26	8.1	25.1	5.71
I21	07 May 2015	15	12.58	81.95	7.6	33.30	8.1	25.2	5.09
I21	07 May 2015	16	12.40	82.80	7.2	33.33	8.1	25.2	4.51
I21	07 May 2015	17	11.94	83.15	6.7	33.32	8.1	25.3	3.84
I21	07 May 2015	18	11.55	85.25	6.3	33.38	8.0	25.4	3.25
I21	07 May 2015	19	11.48	85.63	6.2	33.38	8.0	25.4	3.13
I21	07 May 2015	20	11.41	85.58	6.2	33.37	8.0	25.4	2.73
I21	07 May 2015	21	11.13	85.99	6.1	33.36	8.0	25.5	2.40
I21	07 May 2015	22	11.00	86.69	6.0	33.39	8.0	25.5	2.16
I21	07 May 2015	23	11.01	86.44	5.9	33.40	8.0	25.5	2.14
I21	07 May 2015	24	11.02	86.34	5.9	33.41	8.0	25.5	2.06
I21	07 May 2015	25	11.03	86.23	5.8	33.41	8.0	25.5	2.05
I21	07 May 2015	26	11.03	86.13	5.8	33.41	8.0	25.5	2.04
I21	07 May 2015	27	11.03	86.09	5.8	33.42	8.0	25.5	2.04
I21	07 May 2015	28	11.04	86.06	5.8	33.42	8.0	25.5	2.09
I21	07 May 2015	29	11.04	86.07	5.8	33.42	8.0	25.5	1.97
I21	07 May 2015	30	11.04	85.98	5.8	33.42	8.0	25.5	2.17
I21	07 May 2015	31	11.03	85.95	5.8	33.43	8.0	25.5	2.01
I21	07 May 2015	32	11.02	85.86	5.8	33.43	8.0	25.5	1.87
I21	07 May 2015	33	11.01	85.80	5.8	33.43	7.9	25.5	1.76
I21	07 May 2015	34	10.98	85.68	5.7	33.43	7.9	25.6	1.61
I21	07 May 2015	35	10.96	85.53	5.7	33.43	7.9	25.6	1.59
I21	07 May 2015	36	10.95	85.45	5.7	33.43	7.9	25.6	1.60
I21	07 May 2015	37	10.95	85.37	5.7	33.43	7.9	25.6	1.54
I21	07 May 2015	38	10.92	85.23	5.7	33.43	7.9	25.6	1.50
I21	07 May 2015	39	10.91	84.96	5.7	33.43	7.9	25.6	1.52
I21	07 May 2015	40	10.90	84.55	5.7	33.43	7.9	25.6	1.49
I21	07 May 2015	41	10.90	84.45	5.7	33.43	7.9	25.6	1.47
I22	06 May 2015	1	15.71	79.07	9.0	33.39	8.2	24.6	0.66
I22	06 May 2015	2	15.71	79.32	9.0	33.39	8.2	24.6	0.72
I22	06 May 2015	3	15.61	79.26	9.0	33.39	8.2	24.6	0.83
I22	06 May 2015	4	15.51	78.88	8.9	33.39	8.2	24.6	0.99
I22	06 May 2015	5	15.45	78.42	8.9	33.39	8.2	24.6	1.19
I22	06 May 2015	6	15.34	77.88	8.9	33.40	8.2	24.7	1.57
I22	06 May 2015	7	15.28	76.54	8.9	33.40	8.2	24.7	2.05
I22	06 May 2015	8	15.23	75.65	9.0	33.40	8.2	24.7	2.42
I22	06 May 2015	9	15.18	75.22	9.0	33.40	8.2	24.7	2.82
I22	06 May 2015	10	15.14	74.46	8.9	33.39	8.2	24.7	3.30
I22	06 May 2015	11	14.95	74.06	9.0	33.39	8.2	24.7	3.86
I22	06 May 2015	12	14.82	72.88	8.8	33.39	8.2	24.8	4.30
I22	06 May 2015	13	14.45	72.60	8.8	33.38	8.2	24.8	5.39
I22	06 May 2015	14	13.90	71.01	8.2	33.33	8.2	24.9	7.06
I22	06 May 2015	15	12.82	66.38	7.6	33.38	8.1	25.2	7.77
I22	06 May 2015	16	12.45	70.45	7.1	33.39	8.1	25.3	7.51
I22	06 May 2015	17	12.19	73.08	6.8	33.41	8.0	25.3	6.79
I22	06 May 2015	18	12.14	75.84	6.7	33.42	8.0	25.3	6.18
I22	06 May 2015	19	12.08	76.69	6.3	33.44	8.0	25.4	5.48
I22	06 May 2015	20	12.05	77.62	6.2	33.44	8.0	25.4	4.82
I22	06 May 2015	21	11.97	77.94	6.0	33.46	8.0	25.4	4.49
I22	06 May 2015	22	11.92	78.46	5.9	33.46	8.0	25.4	4.10
I22	06 May 2015	23	11.87	79.41	5.8	33.46	8.0	25.4	3.89
I22	06 May 2015	24	11.83	79.72	5.8	33.47	7.9	25.4	3.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I22	06 May 2015	25	11.81	79.74	5.7	33.47	7.9	25.4	3.46
I22	06 May 2015	26	11.79	78.93	5.6	33.47	7.9	25.4	3.25
I22	06 May 2015	27	11.78	78.01	5.6	33.48	7.9	25.4	3.22
I22	06 May 2015	28	11.78	77.24	5.6	33.48	7.9	25.4	3.17
I23	06 May 2015	1	15.44	71.10	9.0	33.41	8.2	24.6	1.46
I23	06 May 2015	2	15.39	71.46	9.0	33.40	8.2	24.7	1.79
I23	06 May 2015	3	15.21	70.45	9.0	33.39	8.2	24.7	2.56
I23	06 May 2015	4	15.06	69.27	9.0	33.40	8.2	24.7	3.37
I23	06 May 2015	5	14.85	68.60	8.8	33.39	8.2	24.8	4.69
I23	06 May 2015	6	14.11	67.56	8.3	33.37	8.2	24.9	6.64
I23	06 May 2015	7	13.39	66.51	8.0	33.40	8.1	25.1	6.99
I23	06 May 2015	8	13.25	67.67	7.8	33.39	8.1	25.1	6.86
I23	06 May 2015	9	13.19	68.48	7.8	33.40	8.1	25.1	6.60
I23	06 May 2015	10	13.15	68.22	7.8	33.40	8.1	25.1	6.94
I23	06 May 2015	11	13.05	68.24	7.6	33.40	8.1	25.1	6.88
I23	06 May 2015	12	12.81	70.60	7.5	33.39	8.1	25.2	6.46
I23	06 May 2015	13	12.64	71.63	7.3	33.40	8.1	25.2	6.03
I23	06 May 2015	14	12.48	72.90	7.1	33.39	8.0	25.2	5.49
I23	06 May 2015	15	12.34	73.50	6.9	33.40	8.0	25.3	4.70
I23	06 May 2015	16	12.26	73.15	6.8	33.40	8.0	25.3	4.50
I23	06 May 2015	17	12.22	72.35	6.7	33.39	8.0	25.3	4.19
I23	06 May 2015	18	12.17	69.62	6.5	33.39	8.0	25.3	4.31
I23	06 May 2015	19	12.17	67.81	6.5	33.39	8.0	25.3	4.21
I23	06 May 2015	20	12.16	66.58	6.5	33.39	8.0	25.3	4.16
I23	06 May 2015	21	12.16	64.88	6.5	33.39	8.0	25.3	4.35
I27	06 May 2015	1	15.79	72.22	9.2	33.40	8.2	24.6	3.06
I27	06 May 2015	2	15.78	72.22	9.1	33.40	8.2	24.6	3.15
I27	06 May 2015	3	15.72	72.47	9.1	33.40	8.2	24.6	3.47
I27	06 May 2015	4	15.45	72.49	8.8	33.37	8.2	24.6	4.60
I27	06 May 2015	5	14.29	72.52	8.5	33.34	8.2	24.8	7.44
I27	06 May 2015	6	13.37	69.95	8.1	33.38	8.1	25.1	9.36
I27	06 May 2015	7	12.99	67.86	7.7	33.38	8.1	25.1	9.64
I27	06 May 2015	8	12.74	67.24	7.6	33.40	8.1	25.2	9.07
I27	06 May 2015	9	12.67	67.99	7.5	33.40	8.0	25.2	8.38
I27	06 May 2015	10	12.62	68.52	7.3	33.40	8.0	25.2	7.60
I27	06 May 2015	11	12.46	70.40	7.1	33.41	8.0	25.3	7.54
I27	06 May 2015	12	12.38	71.51	6.9	33.41	8.0	25.3	6.82
I27	06 May 2015	13	12.25	73.41	6.7	33.42	8.0	25.3	5.75
I27	06 May 2015	14	12.22	74.46	6.6	33.42	8.0	25.3	4.86
I27	06 May 2015	15	12.19	74.28	6.6	33.42	8.0	25.3	4.68
I27	06 May 2015	16	12.16	74.16	6.5	33.42	8.0	25.3	4.34
I27	06 May 2015	17	12.08	75.26	6.4	33.42	8.0	25.3	3.99
I27	06 May 2015	18	12.02	76.15	6.3	33.42	8.0	25.4	3.86
I27	06 May 2015	19	11.97	77.12	6.2	33.43	7.9	25.4	3.53
I27	06 May 2015	20	11.91	78.41	6.1	33.44	7.9	25.4	3.42
I27	06 May 2015	21	11.87	78.78	6.0	33.44	7.9	25.4	3.42
I27	06 May 2015	22	11.82	78.99	5.9	33.45	7.9	25.4	3.44
I27	06 May 2015	23	11.78	79.31	5.8	33.46	7.9	25.4	3.42
I27	06 May 2015	24	11.73	79.16	5.7	33.46	7.9	25.4	3.14
I27	06 May 2015	25	11.71	77.92	5.7	33.46	7.9	25.4	2.92
I27	06 May 2015	26	11.71	78.08	5.6	33.46	7.9	25.4	2.96
I27	06 May 2015	27	11.71	77.79	5.6	33.46	7.9	25.4	2.87
I27	06 May 2015	28	11.71	77.31	5.7	33.46	7.9	25.4	2.96

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I28	08 May 2015	1	15.23	81.07	8.7	33.32	8.2	24.6	1.59
I28	08 May 2015	2	15.22	83.43	8.7	33.33	8.2	24.6	1.82
I28	08 May 2015	3	15.21	83.99	8.8	33.33	8.2	24.6	1.97
I28	08 May 2015	4	15.18	84.13	8.8	33.33	8.2	24.6	2.30
I28	08 May 2015	5	15.08	83.88	8.6	33.32	8.2	24.7	2.81
I28	08 May 2015	6	13.95	80.99	8.6	33.26	8.2	24.9	7.02
I28	08 May 2015	7	13.55	76.90	8.4	33.31	8.2	25.0	9.74
I28	08 May 2015	8	13.21	74.71	8.0	33.30	8.1	25.0	6.87
I28	08 May 2015	9	12.93	80.51	7.7	33.34	8.1	25.1	5.50
I28	08 May 2015	10	12.76	82.84	7.4	33.33	8.1	25.1	3.97
I28	08 May 2015	11	12.41	84.92	7.2	33.35	8.1	25.2	3.84
I28	08 May 2015	12	12.44	85.27	7.2	33.32	8.1	25.2	3.85
I28	08 May 2015	13	11.96	84.46	7.1	33.28	8.0	25.3	4.20
I28	08 May 2015	14	11.78	84.40	7.0	33.27	8.0	25.3	4.87
I28	08 May 2015	15	11.70	85.01	6.9	33.28	8.0	25.3	4.02
I28	08 May 2015	16	11.65	85.58	6.9	33.28	8.0	25.3	3.60
I28	08 May 2015	17	11.55	85.84	6.7	33.28	8.0	25.3	3.01
I28	08 May 2015	18	11.44	86.78	6.6	33.30	8.0	25.4	3.05
I28	08 May 2015	19	11.35	87.40	6.5	33.31	8.0	25.4	2.45
I28	08 May 2015	20	11.34	87.67	6.5	33.31	8.0	25.4	2.26
I28	08 May 2015	21	11.27	88.15	6.4	33.32	8.0	25.4	2.00
I28	08 May 2015	22	11.13	88.52	6.1	33.36	8.0	25.5	1.86
I28	08 May 2015	23	11.07	88.41	6.0	33.38	7.9	25.5	1.79
I28	08 May 2015	24	11.06	88.13	6.0	33.39	7.9	25.5	1.72
I28	08 May 2015	25	11.06	88.16	6.0	33.40	7.9	25.5	1.69
I28	08 May 2015	26	11.03	88.06	5.9	33.40	7.9	25.5	1.69
I28	08 May 2015	27	11.01	87.82	5.9	33.41	7.9	25.5	1.64
I28	08 May 2015	28	11.00	87.64	5.9	33.41	7.9	25.5	1.67
I28	08 May 2015	29	10.99	87.60	5.8	33.42	7.9	25.5	1.58
I28	08 May 2015	30	10.97	87.40	5.8	33.42	7.9	25.6	1.67
I28	08 May 2015	31	10.96	87.42	5.8	33.42	7.9	25.6	1.66
I28	08 May 2015	32	10.94	86.97	5.8	33.42	7.9	25.6	1.55
I28	08 May 2015	33	10.95	87.18	5.8	33.42	7.9	25.6	1.52
I28	08 May 2015	34	10.93	86.92	5.7	33.42	7.9	25.6	1.45
I28	08 May 2015	35	10.91	86.85	5.7	33.43	7.9	25.6	1.50
I28	08 May 2015	36	10.92	86.90	5.7	33.43	7.9	25.6	1.47
I28	08 May 2015	37	10.90	87.11	5.7	33.43	7.9	25.6	1.47
I28	08 May 2015	38	10.91	87.36	5.6	33.45	7.9	25.6	1.47
I28	08 May 2015	39	10.91	87.30	5.6	33.45	7.9	25.6	1.46
I28	08 May 2015	40	10.90	87.42	5.6	33.46	7.9	25.6	1.46
I28	08 May 2015	41	10.89	87.36	5.6	33.46	7.9	25.6	1.40
I28	08 May 2015	42	10.88	87.35	5.6	33.46	7.9	25.6	1.38
I28	08 May 2015	43	10.87	87.31	5.5	33.46	7.9	25.6	1.40
I28	08 May 2015	44	10.86	87.40	5.5	33.46	7.9	25.6	1.36
I28	08 May 2015	45	10.84	87.35	5.5	33.46	7.9	25.6	1.33
I28	08 May 2015	46	10.77	87.11	5.5	33.46	7.9	25.6	1.23
I28	08 May 2015	47	10.78	87.08	5.5	33.46	7.9	25.6	1.22
I28	08 May 2015	48	10.76	87.09	5.5	33.47	7.9	25.6	1.20
I28	08 May 2015	49	10.76	87.07	5.4	33.47	7.9	25.6	1.15
I28	08 May 2015	50	10.75	87.06	5.4	33.47	7.9	25.6	1.19
I28	08 May 2015	51	10.75	86.98	5.4	33.47	7.9	25.6	1.13
I28	08 May 2015	52	10.74	87.00	5.4	33.48	7.9	25.6	1.09
I28	08 May 2015	53	10.67	86.44	5.0	33.52	7.9	25.7	0.91
I28	08 May 2015	54	10.66	85.52	5.0	33.53	7.8	25.7	0.86

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I28	08 May 2015	55	10.65	84.97	5.0	33.54	7.8	25.7	0.79
I29	08 May 2015	1	15.24	81.75	8.6	33.36	8.2	24.7	1.30
I29	08 May 2015	2	15.25	81.80	8.7	33.36	8.2	24.7	1.39
I29	08 May 2015	3	15.25	81.80	8.7	33.36	8.2	24.7	1.53
I29	08 May 2015	4	15.25	81.73	8.7	33.36	8.2	24.7	1.60
I29	08 May 2015	5	15.24	81.38	8.6	33.36	8.2	24.7	1.79
I29	08 May 2015	6	15.24	81.81	8.7	33.36	8.2	24.7	1.80
I29	08 May 2015	7	15.24	81.73	8.7	33.36	8.2	24.7	1.88
I29	08 May 2015	8	15.23	81.65	8.7	33.36	8.2	24.7	1.99
I29	08 May 2015	9	15.23	81.53	8.7	33.36	8.2	24.7	2.05
I29	08 May 2015	10	15.23	81.47	8.7	33.37	8.2	24.7	2.01
I29	08 May 2015	11	15.22	81.50	8.6	33.37	8.2	24.7	2.13
I29	08 May 2015	12	15.22	81.34	8.7	33.37	8.2	24.7	2.15
I29	08 May 2015	13	15.22	81.44	8.7	33.37	8.2	24.7	2.18
I29	08 May 2015	14	15.18	81.18	8.7	33.37	8.2	24.7	2.27
I29	08 May 2015	15	15.08	80.80	8.5	33.35	8.2	24.7	3.06
I29	08 May 2015	16	14.32	78.85	8.4	33.26	8.2	24.8	4.62
I29	08 May 2015	17	13.30	75.64	8.2	33.29	8.1	25.0	6.38
I29	08 May 2015	18	12.59	77.37	7.3	33.31	8.1	25.2	6.68
I29	08 May 2015	19	12.14	79.44	6.9	33.33	8.0	25.3	6.67
I29	08 May 2015	20	11.80	81.07	6.7	33.34	8.0	25.3	5.88
I29	08 May 2015	21	11.62	82.97	6.3	33.36	8.0	25.4	4.35
I29	08 May 2015	22	11.57	83.49	6.1	33.39	8.0	25.4	3.66
I29	08 May 2015	23	11.51	83.23	6.0	33.40	8.0	25.4	3.21
I29	08 May 2015	24	11.49	83.26	6.0	33.40	8.0	25.4	3.14
I29	08 May 2015	25	11.47	83.42	6.0	33.41	7.9	25.4	3.03
I29	08 May 2015	26	11.46	83.93	6.0	33.41	7.9	25.5	3.00
I29	08 May 2015	27	11.45	83.96	6.0	33.41	7.9	25.5	2.88
I29	08 May 2015	28	11.43	84.33	6.0	33.41	7.9	25.5	2.73
I29	08 May 2015	29	11.42	84.25	5.9	33.41	7.9	25.5	2.70
I29	08 May 2015	30	11.39	84.53	6.0	33.41	7.9	25.5	2.65
I29	08 May 2015	31	11.38	84.48	5.9	33.41	7.9	25.5	2.64
I29	08 May 2015	32	11.38	84.31	5.9	33.41	7.9	25.5	2.53
I29	08 May 2015	33	11.38	84.24	5.9	33.41	7.9	25.5	2.48
I29	08 May 2015	34	11.38	84.21	5.9	33.41	7.9	25.5	2.52
I29	08 May 2015	35	11.36	83.89	5.9	33.41	7.9	25.5	2.30
I29	08 May 2015	36	11.36	83.14	5.9	33.41	7.9	25.5	2.28
I30	08 May 2015	1	15.34	77.91	8.6	33.37	8.2	24.6	1.53
I30	08 May 2015	2	15.34	78.24	8.6	33.38	8.2	24.6	1.79
I30	08 May 2015	3	15.33	79.17	8.6	33.37	8.2	24.6	2.07
I30	08 May 2015	4	15.33	79.20	8.6	33.37	8.2	24.6	2.31
I30	08 May 2015	5	15.33	79.17	8.6	33.37	8.2	24.6	2.37
I30	08 May 2015	6	15.32	79.22	8.6	33.37	8.2	24.6	2.62
I30	08 May 2015	7	15.28	78.81	8.6	33.37	8.2	24.7	2.84
I30	08 May 2015	8	15.08	77.76	8.3	33.34	8.2	24.7	4.17
I30	08 May 2015	9	14.36	72.92	8.2	33.38	8.1	24.9	5.04
I30	08 May 2015	10	14.02	71.72	8.2	33.38	8.1	24.9	5.67
I30	08 May 2015	11	13.67	71.20	8.0	33.34	8.1	25.0	6.38
I30	08 May 2015	12	12.94	73.90	8.0	33.34	8.1	25.1	9.88
I30	08 May 2015	13	12.57	72.41	7.5	33.30	8.1	25.2	12.14
I30	08 May 2015	14	12.43	73.89	7.3	33.31	8.1	25.2	11.13
I30	08 May 2015	15	12.40	74.46	7.3	33.31	8.1	25.2	10.50
I30	08 May 2015	16	12.31	76.02	7.2	33.30	8.1	25.2	7.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I30	08 May 2015	17	12.23	78.75	7.0	33.33	8.0	25.2	6.76
I30	08 May 2015	18	12.19	78.23	7.0	33.36	8.0	25.3	6.57
I30	08 May 2015	19	12.29	77.69	7.0	33.39	8.0	25.3	5.57
I30	08 May 2015	20	12.34	76.91	6.9	33.40	8.0	25.3	4.85
I30	08 May 2015	21	12.26	76.61	6.8	33.38	8.0	25.3	5.39
I30	08 May 2015	22	12.16	78.42	6.7	33.39	8.0	25.3	4.72
I30	08 May 2015	23	12.18	76.85	6.5	33.41	8.0	25.3	3.83
I30	08 May 2015	24	12.18	74.56	6.3	33.42	8.0	25.3	3.57
I30	08 May 2015	25	12.12	74.35	6.2	33.43	8.0	25.3	2.90
I30	08 May 2015	26	12.02	73.77	5.8	33.44	8.0	25.4	2.48
I30	08 May 2015	27	11.95	71.04	5.6	33.44	7.9	25.4	2.30
I31	08 May 2015	1	15.49	75.98	8.7	33.39	8.2	24.6	1.47
I31	08 May 2015	2	15.50	76.58	8.8	33.39	8.2	24.6	1.52
I31	08 May 2015	3	15.48	76.88	8.7	33.39	8.2	24.6	1.80
I31	08 May 2015	4	15.48	76.79	8.7	33.39	8.2	24.6	2.10
I31	08 May 2015	5	15.48	76.75	8.8	33.39	8.2	24.6	2.48
I31	08 May 2015	6	15.48	76.49	8.8	33.39	8.2	24.6	2.91
I31	08 May 2015	7	15.48	76.79	8.7	33.39	8.2	24.6	3.13
I31	08 May 2015	8	15.48	76.60	8.7	33.39	8.2	24.6	3.33
I31	08 May 2015	9	15.48	76.56	8.7	33.39	8.2	24.6	3.56
I31	08 May 2015	10	15.47	76.55	8.7	33.39	8.2	24.6	3.75
I31	08 May 2015	11	15.44	76.52	8.7	33.39	8.2	24.6	3.98
I31	08 May 2015	12	15.33	75.96	8.6	33.38	8.2	24.7	4.32
I31	08 May 2015	13	15.18	75.63	8.4	33.38	8.2	24.7	4.89
I31	08 May 2015	14	14.87	74.70	7.8	33.32	8.2	24.7	5.12
I31	08 May 2015	15	13.58	74.21	7.2	33.33	8.1	25.0	4.66
I31	08 May 2015	16	13.02	75.60	6.9	33.35	8.0	25.1	4.13
I31	08 May 2015	17	12.59	70.30	6.6	33.37	8.0	25.2	3.78
I31	08 May 2015	18	12.55	67.18	6.5	33.38	8.0	25.2	3.52
I31	08 May 2015	19	12.55	64.61	6.6	33.38	8.0	25.2	3.73
I33	08 May 2015	1	14.88	75.41	8.7	33.38	8.2	24.7	3.56
I33	08 May 2015	2	14.88	76.87	8.7	33.38	8.2	24.7	3.96
I33	08 May 2015	3	14.88	77.32	8.7	33.38	8.2	24.7	4.37
I33	08 May 2015	4	14.88	77.45	8.7	33.38	8.2	24.7	4.50
I33	08 May 2015	5	14.88	77.59	8.7	33.38	8.2	24.8	4.62
I33	08 May 2015	6	14.87	77.48	8.7	33.38	8.2	24.8	4.71
I33	08 May 2015	7	14.87	77.51	8.7	33.38	8.2	24.8	4.35
I33	08 May 2015	8	14.88	77.66	8.7	33.38	8.2	24.8	4.45
I33	08 May 2015	9	14.88	77.80	8.6	33.38	8.2	24.8	4.61
I33	08 May 2015	10	14.86	77.55	8.7	33.38	8.2	24.8	4.61
I33	08 May 2015	11	14.85	77.56	8.6	33.38	8.2	24.8	4.92
I33	08 May 2015	12	14.84	77.38	8.7	33.38	8.2	24.8	4.87
I33	08 May 2015	13	14.82	77.39	8.6	33.38	8.2	24.8	5.02
I33	08 May 2015	14	14.58	76.79	7.9	33.28	8.2	24.7	5.46
I33	08 May 2015	15	13.15	73.80	7.5	33.36	8.1	25.1	6.18
I33	08 May 2015	16	12.87	74.32	7.3	33.39	8.0	25.2	5.70
I33	08 May 2015	17	12.75	74.77	7.3	33.38	8.0	25.2	5.44
I33	08 May 2015	18	12.67	74.45	7.2	33.38	8.0	25.2	4.99
I33	08 May 2015	19	12.60	74.76	7.1	33.38	8.0	25.2	4.87
I33	08 May 2015	20	12.47	74.21	7.0	33.39	8.0	25.2	4.44
I33	08 May 2015	21	12.45	72.71	6.9	33.38	8.0	25.2	4.36
I33	08 May 2015	22	12.42	71.48	6.9	33.39	8.0	25.3	4.60
I33	08 May 2015	23	12.41	71.22	6.9	33.39	8.0	25.3	4.77

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I33	08 May 2015	24	12.41	70.22	6.8	33.39	8.0	25.3	4.36
I33	08 May 2015	25	12.39	69.98	6.8	33.39	8.0	25.3	4.54
I33	08 May 2015	26	12.40	69.93	6.6	33.38	8.0	25.3	4.41
I33	08 May 2015	27	12.05	68.05	6.0	33.38	8.0	25.3	3.53
I33	08 May 2015	28	11.74	67.87	5.3	33.44	7.9	25.4	3.06
I33	08 May 2015	29	11.70	68.57	5.3	33.45	7.9	25.4	2.85
I34	08 May 2015	1	15.31	72.39	8.2	33.37	8.1	24.6	3.02
I34	08 May 2015	2	15.31	75.23	8.2	33.37	8.1	24.6	3.34
I34	08 May 2015	3	15.20	75.32	8.2	33.37	8.1	24.7	3.90
I34	08 May 2015	4	15.16	75.17	8.2	33.37	8.1	24.7	4.48
I34	08 May 2015	5	15.07	74.99	8.2	33.38	8.1	24.7	4.31
I34	08 May 2015	6	15.03	74.50	8.2	33.38	8.1	24.7	4.47
I34	08 May 2015	7	15.01	74.93	8.2	33.38	8.1	24.7	4.37
I34	08 May 2015	8	14.99	75.09	8.2	33.38	8.1	24.7	4.28
I34	08 May 2015	9	14.95	75.12	8.2	33.38	8.1	24.7	4.72
I34	08 May 2015	10	14.70	74.93	8.2	33.38	8.1	24.8	5.09
I34	08 May 2015	11	14.25	74.44	8.0	33.35	8.1	24.9	6.48
I34	08 May 2015	12	13.46	71.74	7.8	33.35	8.1	25.0	7.45
I34	08 May 2015	13	13.31	71.00	7.7	33.37	8.1	25.1	6.59
I34	08 May 2015	14	13.06	71.50	7.6	33.37	8.1	25.1	5.99
I34	08 May 2015	15	13.07	72.65	7.4	33.39	8.1	25.1	5.88
I34	08 May 2015	16	12.96	73.64	7.4	33.38	8.0	25.1	5.32
I34	08 May 2015	17	12.92	73.51	7.3	33.38	8.0	25.2	5.04
I34	08 May 2015	18	12.64	73.92	7.1	33.38	8.0	25.2	4.74
I34	08 May 2015	19	12.47	71.88	6.9	33.39	8.0	25.2	4.37
I35	08 May 2015	1	15.69	74.77	9.1	33.35	8.2	24.6	2.81
I35	08 May 2015	2	15.69	76.36	9.1	33.36	8.2	24.6	2.84
I35	08 May 2015	3	15.69	77.36	9.1	33.36	8.2	24.6	3.02
I35	08 May 2015	4	15.68	77.31	9.1	33.36	8.2	24.6	3.14
I35	08 May 2015	5	15.65	77.08	9.1	33.36	8.2	24.6	3.37
I35	08 May 2015	6	15.60	76.12	9.1	33.37	8.2	24.6	3.74
I35	08 May 2015	7	15.58	75.97	9.1	33.37	8.2	24.6	4.08
I35	08 May 2015	8	15.55	75.49	9.1	33.37	8.2	24.6	4.55
I35	08 May 2015	9	15.52	74.83	9.0	33.37	8.2	24.6	4.94
I35	08 May 2015	10	15.43	74.42	9.0	33.38	8.2	24.6	5.44
I35	08 May 2015	11	15.38	74.31	8.8	33.38	8.2	24.6	5.46
I35	08 May 2015	12	15.00	74.79	8.2	33.32	8.2	24.7	5.45
I35	08 May 2015	13	14.16	73.31	7.5	33.30	8.1	24.8	5.46
I35	08 May 2015	14	13.53	68.26	7.0	33.34	8.1	25.0	4.71
I35	08 May 2015	15	13.12	65.73	6.8	33.33	8.0	25.1	7.36
I35	08 May 2015	16	12.67	68.40	6.9	33.32	8.0	25.2	9.51
I35	08 May 2015	17	12.36	63.64	6.4	33.33	8.0	25.2	7.40
I35	08 May 2015	18	12.23	55.90	5.6	33.35	7.9	25.3	5.77
I35	08 May 2015	19	12.20	38.33	5.1	33.35	7.9	25.3	5.13
I36	08 May 2015	1	16.27	70.81	8.9	33.38	8.2	24.4	4.00
I36	08 May 2015	2	16.26	70.77	8.9	33.38	8.2	24.4	4.37
I36	08 May 2015	3	16.25	69.44	8.8	33.38	8.2	24.4	5.54
I36	08 May 2015	4	16.23	67.45	8.8	33.38	8.2	24.5	6.68
I36	08 May 2015	5	16.22	66.67	8.7	33.38	8.2	24.5	6.89
I36	08 May 2015	6	16.20	66.76	8.7	33.38	8.2	24.5	6.72
I36	08 May 2015	7	16.18	67.83	8.7	33.38	8.2	24.5	6.24
I36	08 May 2015	8	16.15	69.77	8.8	33.38	8.2	24.5	5.46

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I36	08 May 2015	9	16.14	71.30	8.7	33.38	8.2	24.5	4.85
I36	08 May 2015	10	16.12	70.77	8.7	33.38	8.2	24.5	4.25
I36	08 May 2015	11	16.11	69.56	8.5	33.38	8.2	24.5	3.90
I37	08 May 2015	1	15.24	76.67	8.5	33.37	8.2	24.7	3.87
I37	08 May 2015	2	15.23	76.96	8.5	33.37	8.2	24.7	3.96
I37	08 May 2015	3	15.18	76.66	8.5	33.38	8.2	24.7	4.21
I37	08 May 2015	4	15.04	76.02	8.6	33.36	8.2	24.7	4.67
I37	08 May 2015	5	14.68	74.42	9.0	33.36	8.2	24.8	5.20
I37	08 May 2015	6	14.53	74.49	9.0	33.36	8.2	24.8	5.30
I37	08 May 2015	7	14.21	74.22	8.7	33.33	8.1	24.8	5.78
I37	08 May 2015	8	13.76	71.30	8.8	33.35	8.1	25.0	6.25
I37	08 May 2015	9	13.71	67.98	8.8	33.35	8.1	25.0	6.66
I37	08 May 2015	10	13.59	66.65	8.6	33.33	8.1	25.0	8.43
I37	08 May 2015	11	13.19	58.52	8.4	33.34	8.1	25.1	10.89
I38	08 May 2015	1	16.54	72.37	8.5	33.34	8.2	24.4	3.83
I38	08 May 2015	2	16.53	72.88	8.5	33.34	8.2	24.4	4.65
I38	08 May 2015	3	16.47	71.94	8.4	33.36	8.2	24.4	6.84
I38	08 May 2015	4	16.40	70.79	8.4	33.38	8.2	24.4	7.33
I38	08 May 2015	5	16.36	72.95	8.4	33.37	8.2	24.4	6.05
I38	08 May 2015	6	16.31	75.48	8.4	33.37	8.2	24.4	4.47
I38	08 May 2015	7	16.26	76.02	8.3	33.37	8.2	24.4	4.12
I38	08 May 2015	8	16.16	70.93	8.1	33.37	8.2	24.5	4.84
I38	08 May 2015	9	16.10	66.60	7.9	33.38	8.2	24.5	5.90
I38	08 May 2015	10	15.59	61.40	7.4	33.35	8.2	24.6	7.51
I38	08 May 2015	11	14.62	42.29	6.7	33.32	8.1	24.8	11.09

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APPENDIX A
QUALITY ASSURANCE

Table A.1

Summary of bacteriological quality assurance field and laboratory 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	07 May 2015	18	SR	LAB DUPLICATE	<2	<2	<2
I9	07 May 2015	18	AR	LAB DUPLICATE	<2	<2	ns
I9	07 May 2015	18	SR	LAB DUPLICATE	ns	ns	<2
I12	06 May 2015	18	LMA	LAB DUPLICATE	<2	<2	<2
I13	07 May 2015	18	SR	LAB DUPLICATE	<2	<2	<2
I19	06 May 2015	6	LMA	FIELD DUPLICATE	38e	2e	4e
I19	06 May 2015	6	LMA	LAB DUPLICATE	38e	2e	4e
I19	15 May 2015	6	SM	LAB DUPLICATE	340e	34e	130e
I19	21 May 2015	6	LMA	LAB DUPLICATE	4e	<2	<2
I19	27 May 2015	6	AR	LAB DUPLICATE	100e	2e	4e
I19	31 May 2015	6	LMA	LAB DUPLICATE	<20	<2	<2
I32	08 May 2015	9	SR	LAB DUPLICATE	<2	<2	<2
I36	08 May 2015	11	SR	LAB DUPLICATE	<2	<2	<2
I39	06 May 2015	2	LMA	LAB DUPLICATE	2e	<2	<2
I40	06 May 2015	9	LMA	LAB DUPLICATE	60e	2e	<2
I40	15 May 2015	6	SM	LAB DUPLICATE	34e	2e	ns
I40	21 May 2015	6	LMA	LAB DUPLICATE	74	2e	<2
I40	27 May 2015	6	AR	LAB DUPLICATE	80e	8e	32e
I40	31 May 2015	6	LMA	LAB DUPLICATE	6e	<2	<2
S12	05 May 2015		JT	FIELD DUPLICATE	60e	8e	12e
S12	05 May 2015		JT	LAB DUPLICATE	20e	8e	8e
S12	12 May 2015		LMA	FIELD DUPLICATE	<2	<2	<2
S12	12 May 2015		LMA	LAB DUPLICATE	<2	<2	<2
S12	19 May 2015		JT	FIELD DUPLICATE	40e	2e	4e
S12	19 May 2015		JT	LAB DUPLICATE	20e	2e	4e
S12	26 May 2015		JT	FIELD DUPLICATE	20e	8e	6e
S12	26 May 2015		JT	LAB DUPLICATE	6e	2e	10e

ns = not sampled

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